National Institute for Health and Care Excellence

Draft for consultation

Intrapartum care for women with existing medical conditions or obstetric complications and their babies

Supplement 2: Health economics

NICE guideline <TBC at publication> Health economics September 2018

Draft for consultation

Developed by the National Guideline Alliance, hosted by the Royal College of Obstetricians and Gynaecologists



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1 Health economics

- 2 This report contains information on the following.
- 3 Economic evidence literature reviews.
- Modelling cost effectiveness of antenatal care planning involving a multidisciplinary team
 for women with existing medical conditions.
- Modelling cost effectiveness of ultrasound needle siting of central neuraxial blockade for
 women with obesity.
- 8 Modelling cost effectiveness of ultrasound needle siting of central neuraxial blockade for
- 9 women with obesity.

Economic evidence literature reviews

Women at high risk of adverse outcomes for themselves 3 and/or their baby because of existing maternal medical 4 conditions

- 5 A global health economic literature search was undertaken for women at high risk of adverse
- 6 outcomes for themselves and/or their baby because of existing maternal medical conditions.
- 7 This covered all 26 review questions considered in this part of the guideline. The search
- 8 strategies are presented in Appendix A.
- 9 The search identified 2,841 articles, but after reviewing titles and abstracts, no articles were 10 requested for full-text review. See the study selection flow chart in Appendix B.

1Women at high risk of adverse outcomes for themselves 12 and/or their baby because of obstetric complications or 13 other reasons

- 14 Two health economic literature searches were undertaken for women at high risk of adverse
- 15 outcomes for themselves and/or their baby because of obstetric complications or other 16 reasons:
- a global search that covered all 17 review questions considered in this part of the
 guideline
- a search tailored specifically to the review question about clinical and cost effectiveness of
 antimicrobial therapy for women in labour with sepsis.
- 21 The search strategies are presented in Appendix A.

The global search for this part of the guideline identified 2,670 articles, and after reviewing titles and abstracts, 10 articles were requested for full-text review (these did not include the 5 articles requested for full-text review from the search specific to antimicrobials for sepsis in labour; see below for further details). See the study selection flow chart in Appendix B.

26 Narrative descriptions of 3 studies that were included after full-text review are presented
27 below. All 3 included studies (Grobman 1999, Mrus 2004, Stringer 1999) addressed rapid
28 HIV testing in the intrapartum period for women with no antenatal care. Studies not included
29 in this review with reasons for their exclusion are listed in Appendix C.

A US study (Grobman 1999) used a decision analytic approach to assess the cost effectiveness of voluntary rapid HIV testing in the intrapartum period compared with no testing in women without adequate antenatal care. The analysis assumed an HIV seroprevalence of 1.5%. Women would receive counselling before testing as part of the intervention and those who accepted testing would be offered intrapartum zidovudine therapy if they tested positive. The base-case analysis suggested that voluntary rapid HIV testing would avert 68 cases of paediatric HIV infection per 100,000 women without adequate antenatal care, a reduction of 16.7%. Using 1997 prices, the analysis found that the cost savings from averted paediatric HIV infection, assumed to be \$169,642 per case over a lifetime, would more than offset the costs of the intervention. In a univariate sensitivity

1 analysis the study authors reported a break-even point for seroprevalence of 0.71%, with the

2 intervention ceasing to be cost saving for a lower seroprevalence than this. The study

3 authors also reported that an 11% reduction in HIV transmission represented the break-even

4 point for the effectiveness of the intervention.

5 Mrus (2004), adopting a societal perspective in the USA, compared rapid HIV testing 6 followed by antiretroviral treatment with no testing for women presenting in labour with no 7 antenatal care. In the basic model women were offered zidovudine treatment if they tested 8 positive, but in additional analyses the study authors considered nevirapine therapy, 9 combination therapy (zidovudine/nevirapine or zidovudine/lamivudine therapy) as well as a 10 strategy of empirical nevirapine therapy. Costs were based on year 2000 prices with future 11 costs discounted at an annual rate of 3%. In the base-case analysis the study authors 12 assumed a prevalence of 0.51% which was lower than in the other included studies in the 13 guideline review. It was assumed in the base-case analysis that, in the absence of 14 antiretroviral treatment, the vertical transmission rate of HIV would be 26.6% and that there 15 would be a 0.62 risk ratio (relative risk) of vertical transmission with antiretroviral treatment. 16 The study authors assumed a \$185,000 discounted lifetime cost for a HIV-infected baby and 17 a \$105,000 lifetime cost for an HIV-infected woman because testing in the intrapartum period 18 would provide an earlier diagnosis than would otherwise have been the case. The basic 19 model showed that rapid HIV testing followed by zidovudine treatment would avert 27 cases 20 of HIV infection per 50,000 women tested, saving \$3 million when compared with no testing. 21 One-way sensitivity analysis suggested that rapid HIV testing would remain cost saving for 22 an HIV prevalence of greater than 0.2%. In a secondary analysis, in which the study authors 23 compared empirical treatment using nevirapine with no intervention, it was reported that 32 24 HIV cases would be averted, yielding a saving of \$2.1 million compared with no treatment. 25 The study authors therefore concluded that an empirical treatment strategy could be 26 considered cost effective in settings where rapid HIV testing was not available.

Stringer (1999) used decision analysis to compare 3 strategies for preventing vertical
transmission of HIV from the woman to the baby for unregistered women presenting in labour
with no antenatal care in a US study. The strategies were:

30 • no treatment – described as the current standard for women of unknown HIV status

31 • rapid HIV testing followed by zidovudine treatment if seropositive

32 • prophylactic treatment for all women.

To reflect unregistered women being at a much higher risk of infection, a HIV prevalence of 5% was assumed for the base-case analysis. The analysis took the perspective of the health care system and a third-party payer and used a 1998 price year. It assumed a 5-year life expectancy for a paediatric HIV infection. The analysis assumed that the discounted costs of a paediatric infection would be \$86,130. In the base-case analysis 183 cases of HIV infection were averted per 100,000 women by rapid HIV testing when compared to no testing. On this basis it was estimated that rapid HIV testing would save the third party payer \$10.6 million per 100,000 women. Treating all women averted a further 46 cases than rapid HIV testing, but at an additional cost of \$342,068 per additional HIV infection averted. In a sensitivity analysis, the study authors reported that rapid HIV testing remained cost saving relative to no testing for an HIV prevalence of more than 1%.

44 The second search for this part of the guideline identified 263 articles. After reviewing titles
45 and abstracts, 5 articles were requested for full-text review but no studies were included.
46 Studies not included in this review with reasons for their exclusion are listed in Appendix C.

Modelling cost effectiveness of antenatal care planning involving a multidisciplinary

3 team for women with existing medical

4 conditions

Introduction

6 Over the last 25 years multidisciplinary teams (MDTs) have emerged as a means to better

7 manage chronic diseases within the NHS. This development has been supported by the

8 Department of Health (Raine 2014). Underpinning this was a sense that hierarchical9 structures previously prevented the efficient sharing of information. For example, the NHS

10 Management Executive (1993) stated:

11 "The best and most cost-effective outcomes for patients and clients are achieved when

12 professionals work together, learn together, engage in clinical audit of outcomes together,

13 and generate innovation to ensure progress in practice and service."

14 The Department of Health commissioned The Health Care Team Effectiveness Project which 15 reported in 2000 (Borill 2000) and the NHS Plan (2000) noted the value of team working:

16 "Old-fashioned demarcations between staff mean some patients see a procession of health

17 professionals... Information is not shared and investigations are repeated ... Unnecessary

18 boundaries exist between the professions which hold back staff from achieving their true 19 potential"

20 *"Throughout the NHS the old hierarchical ways of working are giving way to more flexible* 21 *team working between different clinical professionals"*

22 MDTs now permeate many areas of secondary care in England and it has been estimated 23 that it costs approximately £100 million a year to support the functioning of cancer MDT 24 meetings in the NHS (Taylor 2010). However, a systematic review of the literature on the 25 cost effectiveness of MDTs in secondary care suggested that their widespread adoption had 26 not been based on evidence of cost effectiveness (Le 2013).

Women with existing medical conditions are at increased risk of adverse outcomes in
pregnancy and during the intrapartum period. Furthermore, deficiencies in multidisciplinary
working have been cited in confidential enquiries as a factor in maternal deaths.

30 The scope for this guideline identified MDT involvement in antenatal care planning for

31 women with existing medical conditions as an issue which could potentially have an impact

32 on commissioning services. It was a topic identified as a priority for health economic analysis

33 and it has previously been acknowledged that MDT meetings can be resource intensive and

34 should be organised to maximise the benefits to patients and the NHS (Raine 2014).

35 While evidence on MDT for a given guideline population is often absent the clinical review

36 undertaken for this guideline did include a study. Therefore an economic evaluation was

37 undertaken to support guideline recommendations using data from the included study.

Methods

Model structure

3 Many alternative MDT configurations are possible and there is a lack of comparative

4 evidence as to the optimum configuration. Therefore, a 'what-if' approach was taken in the

5 model with respect to MDT configuration. It was assumed that the intervention costs of an

6 expanded MDT would always exceed those of routine antenatal care, where the woman

7 does not attend a multiprofessional clinic. Therefore, the analysis considered the cost
 8 effectiveness of MDT at different incremental costs relative to routine antenatal care for the

9 clinical effectiveness estimates used in the model.

10 A simple decision analytic model was developed in Microsoft Excel® to reflect the outcomes

11 reported in the single included study in the systematic clinical review undertaken for this

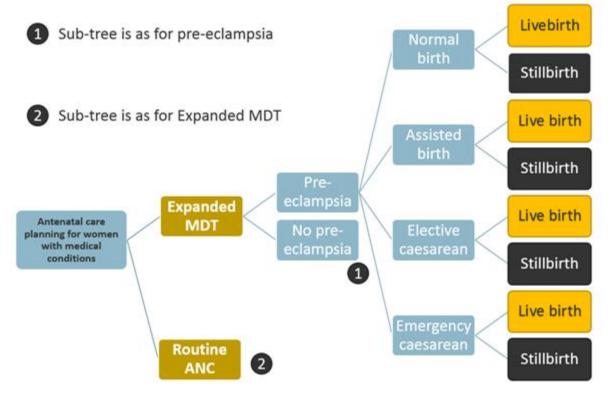
12 guideline. A schematic of the model is illustrated in Figure 1. The model considers a time

13 horizon from the start of antenatal planning for birth through to the birth, although a life-time

14 perspective was taken to assess the impact on quality adjusted life years (QALYs) of

15 stillbirth.

Figure 1: Model schematic for assessing cost effectiveness of antenatal planning for birth with an expanded multidisciplinary team for intrapartum outcomes for women with existing medical conditions



Setting and population

- 2 The model setting was for the NHS and the population was pregnant women identified as
- 3 being at high risk of adverse outcomes because of the following maternal medical conditions:
- 4 cardiac disease
- 5 asthma
- 6 long-term steroid medication
- 7 haemostatic disorders
- 8 a history of intracranial haemorrhage or a cerebrovascular malformation
- 9 acute kidney injury or have chronic kidney disease
- 10 obesity.

1Clinical outcomes

12 The economic model used the clinical outcomes from the 1 included study (Denison 2017)

- 13 from the systematic review of the clinical literature undertaken for this guideline. These
- 14 outcomes and their baseline risk, representing the risk in the absence of a multidisciplinary
- 15 team, are shown in Table 1. In the model it was possible to use either the trial data from the
- 16 control arm of the study or population data for England and Wales for the baseline stillbirth
- 17 data. However, the trial control arm stillbirth data was used as the model base-case default
- 18 as it was considered to align more closely with the model population of maternities with a
- 19 high risk of adverse outcomes arising from medical conditions. The effect of using population
- 20 stillbirth data as the baseline was explored in a sensitivity analysis.
- 21 When undertaking probabilistic sensitivity analyses (PSA) these outcome baseline
- 22 probabilities were sampled using a beta distribution.

23 Table 1: Baseline probabilities and parameters for probabilistic sensitivity analysis

Outcome	Probability	Alpha	Beta	Source
Stillbirth (trial)	0.0159	8	494	Denison 2017
Stillbirth (ONS)	0.0044	3,112	696,271	NHS Birth Characteristics 2016 (ONS, 2017)
Emergency caesarean section	0.1570	98,501	528,897	NHS Maternity Statistics 2016-17 (NHS Digital, 2017)
Pre-eclampsia	0.0321	132,800	4,004,200	Wallis (2008)

24 In addition to these outcomes the model utilises the probabilities for non-emergency

25 caesarean section births shown in Table 2. As the various modes of birth have different costs

26 this information is needed to determine the weighted mean cost of births that are not via

- 27 emergency caesarean sections.
- 28 A Dirichlet distribution was used to sample the proportion of non-emergency caesarean
- 29 section births falling into these 3 categories in the PSA. A count for each mode of birth was
- 30 sampled using a cumulative gamma function and the sampled value was calculated as its
- 31 sample count divided by the sum of the sample count for all modes of birth.

Mode of birth	Events	Probability	Source		
Unassisted vaginal birth	373,353	0.705	NHS Reference Costs, 2016-17 (NHS Improvement)		
Assisted vaginal birth	81,590	0.154	NHS Reference Costs, 2016-17 (NHS Improvement)		
Planned caesarean section	74,653	0.141	NHS Reference Costs, 2016-17 (NHS Improvement)		

1 Table 2: Non-emergency caesarean section births

Treatment effectiveness

- 3 The relative treatment effects were estimated from the one study (Denison 2017) included in
- 4 the clinical systematic review undertaken for this guideline and are presented in Table 3
- 5 along with their 95% confidence intervals (CIs). These relative treatment effects were applied
- 6 to the baseline risk in order to estimate the risk of these outcomes for an expanded MDT.

7 Table 3: Relative treatment effect

Outcome	Relative effect	Lower limit of 95% Cl	Upper limit of 95% Cl	Source
Stillbirth	0.14 ^a	0.02	1.17	Denison 2017
Emergency caesarean section	1.18 ^b	0.93	1.48	Denison 2017
Pre-eclampsia	1.38 ^b	0.84	2.26	Denison 2017
	1.38 ^b	0.84	2.26	Denison 201

8 (a) Odds ratio

9 (b) Risk ratio

10 For PSA the relative treatment effects were sampled using a log-normal distribution, with the

11 distribution parameters presented in Table 4, and the standard deviation estimated from the

12 confidence intervals reported in Table 3.

13 Table 4: Parameters of log-normal distribution for sampling relative treatment effect

Outcome	Mean	Standard deviation
Stillbirth	Ln (0.14)	(Ln (1.17) – Ln (0.14)) ÷ 1.96
Emergency caesarean section	Ln (1.18)	(Ln (1.48) – Ln (1.18)) ÷ 1.96
Pre-eclampsia	Ln (1.38)	(Ln (2.26) – Ln (1.38)) ÷ 1.96

1Quality adjusted life years

- 15 To estimate the impact of an expanded MDT a QALY decrement was applied to the
- 16 outcomes of stillbirth and pre-eclampsia. The QALY decrements are shown in Table 5. It was
- 17 assumed that no QALY decrement was attributable to the mode of birth.

18 Table 5: Quality adjusted life year decrement associated with adverse outcomes

Outcome	QALY decrement	Source
Stillbirth	23.73	Kind (1999), National Life Tables, England and Wales 2014-16 (ONS, 2017) ^a

Outcome	QALY decrement	Source
Pre-	0.0274	Sonnenberg 2004
eclamosia		

1 a Calculated using data from these sources and an annual discount rate of 3.5%

2 It was assumed that an averted stillbirth would result in a normal life expectancy of 81 years,

3 estimated as a weighted average of male and female life expectancy (ONS, 2017). It was

4 additionally assumed that each year of life would be lived with a health state utility of 0.855.

5 This was based on a publication that estimated that the EQ5D population norms for all ages

6 was 0.86 for males and 0.85 for females (Kind 1999). An annual discount rate of 3.5% was

7 applied to future years of life of life in accordance with NICE methods

8 (https://www.nice.org.uk/Media/Default/About/what-we-do/our-programmes/developing-

9 NICE-guidelines-the-manual.pdf).

1**C**osts and resource use

11 In accordance with NICE methodology a NHS and Personal Social Services (PSS)

12 perspective was adopted for this analysis

13 (https://www.nice.org.uk/Media/Default/About/what-we-do/our-programmes/developing-

14 NICE-guidelines-the-manual.pdf). Costs were based on a 2016/17 price year reflecting the

15 most recently available NHS Reference Costs at the time of writing. Costs were not

16 discounted as any 'downstream' costs arising from adverse outcomes were assumed to

17 occur around the time of the intervention.

18 The model allowed an MDT staffing model to be configured with the following categories of 19 staff.

- 20 Consultant
- 21 Band 5 nurses
- 22 Band 6 nurses
- 23 Band 7 nurses
- 24 Scientific & professional band 5
- 25 Scientific & professional band 6
- 26 Scientific & professional band 7
- 27 Scientific & professional band 8a
- 28 Scientific & professional band 8b

29 It was then possible to able to specify the number of each category of staff in the expanded

30 MDT and their time input per pregnant woman. This information combined with staffing unit

31 costs, described in Table 6, allowed the incremental costs of an expanded MDT relative to

32 routine antenatal care planning to be calculated.

33 Table 6: Staff unit costs

Staff	Costs per hour	Source
Consultants	£106	Unit Costs of Health and Social Care (PSSRU, 2017)
Band 5 nurses	£37	Unit Costs of Health and Social Care (PSSRU, 2017)

Staff	Costs per hour	Source
Band 6 nurses	£45	Unit Costs of Health and Social Care (PSSRU, 2017)
Band 7 nurses	£54	Unit Costs of Health and Social Care (PSSRU, 2017)
Scientific & professional band 5	£34	Unit Costs of Health and Social Care (PSSRU, 2017)
Scientific & professional band 6	£45	Unit Costs of Health and Social Care (PSSRU, 2017)
Scientific & professional band 7	£55	Unit Costs of Health and Social Care (PSSRU, 2017)
Scientific & professional band 8a	£65	Unit Costs of Health and Social Care (PSSRU, 2017)
Scientific & professional band 8b	£77	Unit Costs of Health and Social Care (PSSRU, 2017)

1 The PSA was run separately for 10 'what-if' incremental costs of an expanded MDT within a

2 specified range, reflecting the lack of evidence with regard to the optimal configuration of an

3 MDT. However, the deterministic analysis used the hypothetical MDT configuration as

4 outlined in Table 7.

5 Table 7: Hypothetical multidisciplinary team staffing model

Staff	Quantity	Time (minutes)	Cost	
Consultants	3	20	£106	
Band 7 nurses	1	15	£13.50	
Scientific & professional band 8b	1	15	£19.25	
Total cost			£138.75	

6 In addition to the costs associated with an expanded MDT the model took into account the

7 costs associated with the various model outcomes, as outlined in Table 8.

8 Table 8: Costs associated with model outcomes

Outcome	Cost	Standard error	Distribution	Source
Pre-eclampsia	£4,864 ª	N/A	Deterministic	NICE 2010
Unassisted vaginal birth	£2,297 ^b	£70 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Assisted vaginal birth	£3,367 ^b	£123 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Planned caesarean section	£3,557 ^b	£79 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)

Outcome	Cost	Standard error	Distribution	Source
Emergency caesarean section	£4,781 ^b	£98 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Stillbirth	£4,361 ^d	N/A	Deterministic	Campbell 2018

a https://www.nice.org.uk/guidance/cg107, Tale K4. Updated to 2016-17 prices using the Hospital and community

2 health services (HCHS) pay and inflation index, with a multiplier of 1.13 derived from the HCHS index for 2008-09 3 and 2016-17

4 b weighted average of all relevant currency codes

- 5 c The method of estimating a standard error from data included in NHS Reference Costs is described in detail in
- 6 https://www.nice.org.uk/guidance/ng3. A standard error was estimated for each relevant NHS Reference Cost
- 7 category and currency code and a pooled standard error was then estimated by weighting according to finished 8 consultant episodes
- 9 d Updated to 2016-17 prices using the HCHS pay and inflation index, with a multiplier of 1.04 derived from the
- 10 HCHS index for 2013-14 and 2016-17
- 11 All costs are reported as the cost per woman.

1**T**ornado diagram inputs

- 13 The importance of a number of model inputs was assessed using one-way sensitivity
- 14 analysis and presented in a Tornado diagram. These model inputs and the range of values
- 15 used are presented in Table 9.

16 Table 9: Tornado diagram variables and inputs

Variable	Low value	High value
MDT cost	£50	£10,000
Cost of pre-eclampsia	£0	£12,000
QALY loss from stillbirth	15.00	30.00
QALY loss from pre-eclampsia	0.00	2.00
Cost effectiveness threshold	£50 per QALY	£30,000 per QALY

17 While it is difficult to prescribe an optimal service configuration of the expanded MDT, the

- 18 ranges chosen for the MDT cost in one-way sensitivity analysis are set to assess the extent
- 19 to which more resource intensive MDTs would impact on the cost effectiveness conclusions,
- 20 although this is also tested through PSA.

21 The default cost of pre-eclampsia is high for a condition that effects approximately 2-8% of 22 pregnancies (WHO 2011) and so the range is set to reflect that mild pre-eclampsia may have 23 a much lower resource impact than indicated in the base-case analyses. The wide range 24 allowed for the importance of this variable as a driver of cost effectiveness to be evaluated.

25 The ranges for QALY losses for stillbirth and pre-eclampsia allowed for fact that there is 26 some uncertainty with respect to these values and that this was not evaluated as part of the 27 PSA. Again the range was set sufficiently wide to assess the extent to which uncertainty in 28 model inputs would be reflected in the conclusions about the cost effectiveness of an 29 expanded MDT.

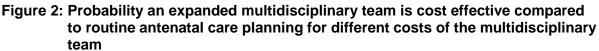
Results

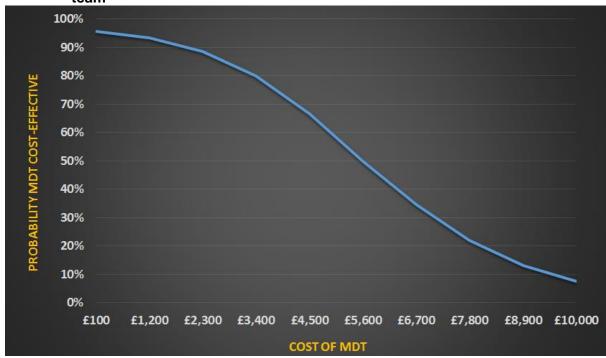
Probabilistic sensitivity analysis

- 3 The results of the PSA, based on 10,000 Monte Carlo simulations of the model, are
- 4 presented in Table 10 and Figure 2. For each simulation the results are calculated across
- 5 different hypothetical or 'what-if' costs of the MDT intervention. The incremental mean net
- 6 monetary benefit (iNMB) is based on a cost effectiveness threshold of £20,000 per QALY.
- 7 Table 10: Mean net monetary benefit and probability cost effective for an expanded 8 multidisciplinary team when compared to routine antenatal care planning

8	multialscipii	nary team when compared	to routine antenatal care planning
	MDT cost per woman	Mean iNMB	Probability cost effective
	£100	£5,474	95.7%
	£1,200	£4,374	93.4%
	£2,300	£3,274	88.6%
	£3,400	£2,174	80.0%
	£4,500	£1,074	66.6%
	£5,600	-£26	49.8%
	£6,700	-£1,126	34.5%
	£7,800	-£2,226	21.9%
	£8,900	-£3,326	13.1%
	£10,000	-£4,426	7.5%

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

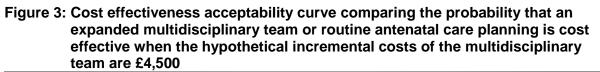




1 Figure 3 shows the cost effectiveness acceptability curve (CEAC) when the hypothetical

2 incremental cost of an expanded MDT was £4,500. The scatter plot of the individual

3 simulations which generated this probabilistic result is displayed in Figure 4.



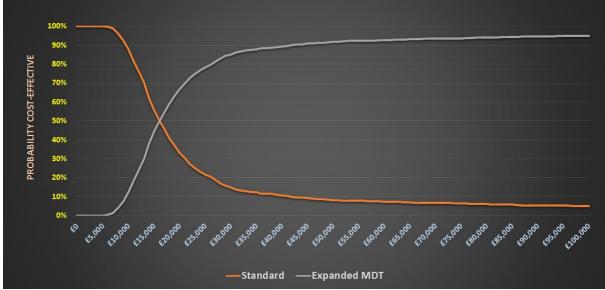
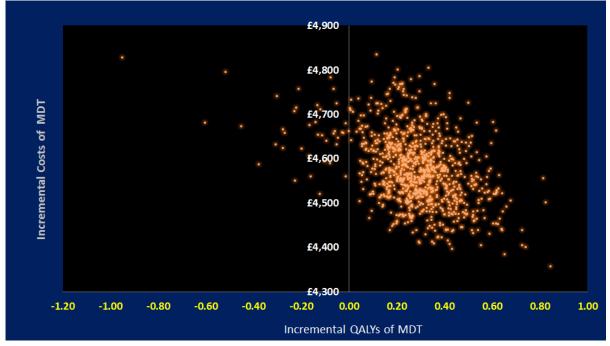


Figure 4: Cost effectiveness plane showing probabilistic simulation results when the hypothetical incremental costs of the multidisciplinary team are £4,500



Deterministic analysis

- 2 The results of the deterministic analysis are presented in Table 11. In this analysis the
- 3 hypothetical incremental costs of the expanded MDT when compared to routine antenatal
- 4 care planning were assumed to be £138.75 as described in Table 7.

5 Table 11: Comparison of costs and quality adju	usted life years from an expanded
--	-----------------------------------

6 multidisciplinary team when compared to routine antenatal care planning

	Routine antenatal care		Expanded MDT			Incremental		
Variable/ outcome	Quantity	Cost	QALY loss	Quantity	Cost	QALY	Cost	QALY loss
Intervention	-	-	-	1	£139	-	£139	-
Stillbirths	0.015	£69	0.3782	0.0023	£10	0.0537	-£60	0.3245
Pre-eclampsia	0.0321	£156	0.0009	0.0443	£215	0.0012	£59	-0.0003
Emergency CS	0.1570	£751	-	0.1853	£886	-	£135	-
Unassisted vaginal birth	0.5943	£1,365	-	0.5744	£1,319	-	-£46	-
Assisted vaginal birth	0.1299	£437	-	0.1255	£423	-	-£15	-
Planned CS	0.1188	£423	-	0.1148	£409	-	-£14	-
Total		£3,201	0.3790		£3,400	0.0549	£199	0.3242

7 The incremental cost effectiveness ratio (ICER) of this hypothetical expanded MDT relative

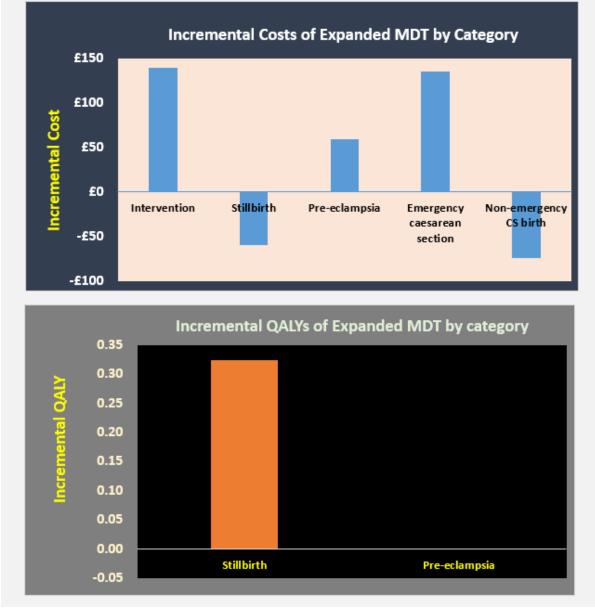
8 to routine antenatal care was £613 per QALY and MDT had an iNMB of £6,284 at a cost

9 effectiveness threshold of £20,000 per QALY. Figure 5 show the different components of the

10 incremental costs of the expanded MDT intervention relative to routine antenatal care

11 planning.

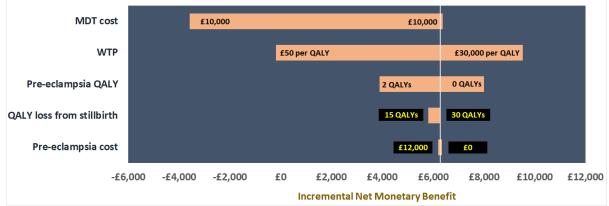




Tornado analysis

- 2 One-way sensitivity analysis was undertaken to assess the impact of changes to the values
- 3 of the variables presented in Table 9. In this sensitivity analysis each parameter was varied
- 4 between a low and high value while holding all other model inputs constant at their base-
- 5 case value. The results of this analysis are shown in Figure 6.

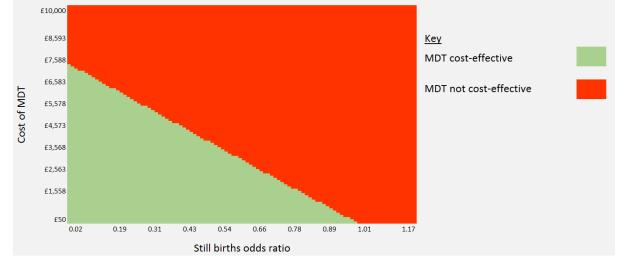




Two-way sensitivity analysis

- 2 A two-way sensitivity analysis was undertaken varying the costs of MDT and the odds ratio
- 3 (OR) of stillbirth with an expanded MDT compared to routine antenatal care. These were the
- 4 2 key drivers of cost effectiveness in the model and yet there is considerable uncertainty with
- 5 respect to their values. The results of this analysis are shown in Figure 7. The analysis
- 6 depicts the combinations of MDT cost and stillbirth relative risk where MDT is cost effective
- 7 holding all other model input parameters constant at their base-case values.

Figure 7: Chart of two-way sensitivity analysis varying the cost of MDT and the odds ratio of stillbirth with an expanded MDT compared to routine antenatal care



8

Discussion

2 It is important that the limitations in the study (Denison 2017) that provided the clinical data 3 underpinning this analysis are taken into account when interpreting the results. First, the 4 population in this study was women with a singleton pregnancy and class III obesity. While, 5 this is a relevant population for this guideline it is only a subset of those women with existing 6 medical conditions in pregnancy. In order to support recommendations that cover a broader 7 group of women, it was implicitly assumed that the benefits for women with class III obesity 8 could be generalised to other women with existing medical conditions.

9 The study used a retrospective cohort design and there may have been systematic

10 differences in the characteristics between women in the intervention and control groups.

11 Furthermore, the intervention and control groups were located in different hospital settings

12 which could influence the respective populations and the reported clinical outcomes. Also the

13 intervention was multi-component and it is not possible to know the extent that any

14 differences in outcomes reflected these additional interventions (for example, dietary advice)

15 rather than the MDT antenatal care per planning per se.

16 Therefore, the results of the economic analysis may be subject to bias and consequently

17 may over-estimate the benefits of MDT antenatal care planning. Also the costs of the

18 expanded MDT was undertaken on a 'what-if' basis to reflect that there is a lack of evidence

19 with respect to alternative MDT configurations (Bick 2014) .

The model strongly suggests (given the relative treatment effects used in the analysis) that involving an expanded MDT in antenatal care planning is likely to be cost effective compared to routine antenatal care planning providing that the cost per woman is £4,500 or less. So for an MDT antenatal care planning configuration that cost £1,200 per woman the mean iNMB of the MDT would be £4,374 and it would have a 93% probability of being cost effective relative to routine antenatal planning given the sampling uncertainty surrounding the model inputs. Even at a hypothetical MDT cost of £4,500 per woman the iNMB remains positive with a 67% chance of being cost effective. The deterministic analysis, based on an MDT configuration as set out in Table 7 (an MDT cost of £139 per woman), showed an ICER of £613 per QALY for MDT (mean iNMB £6,284) for MDT relative to routine antenatal care planning, again suggesting that MDT was cost effective with the model's assumptions on treatment effects. The reduction in the stillbirth rate with the expanded MDT was an important driver of the cost effectiveness of the intervention especially as the model did not suggest that the MDT would be cost saving even when 'downstream' costs were considered.

Two-way sensitivity analysis showed the joint relationship of the cost of MDT and the OR of stillbirth relative to routine antenatal care in determining the cost effectiveness of MDT. It also indicates the threshold cost of MDT for cost effectiveness for a given OR of stillbirth and conversely the threshold OR for stillbirth for a given cost of MDT. This analysis indicates that when operating at a threshold combination, a reduction in MDT cost of approximately £75 is required for every 0.01 increase in the OR of stillbirth.

40 The hypothetical configuration of MDT used in the deterministic analysis is less resource 41 intensive than other models and this is important as the Tornado analysis indicates that the 42 east of the MDT is likely to be an important consideration in determining its cost

42 cost of the MDT is likely to be an important consideration in determining its cost

43 effectiveness. It is important to note that while this analysis provides some support for an

44 expanded MDT when compared to routine antenatal care for women with existing conditions

45 it does not provide evidence about the optimal configuration of the expanded MDT. As has

46 been previously noted "there is a dearth of evidence to support optimal MDT structure and

working practices, or if current MDT model of care have a beneficial impact on maternal and
 infant outcomes and healthcare resources" (Bick 2014). An analysis that suggests an
 expanded MDT costing £4,500 per woman may be cost effective relative to routine antenatal
 care planning for women with existing medical conditions does not demonstrate that such a
 resource intensive MDT model would be cost effective if compared to a much less resource
 intensive configuration.

7 None of the relative treatment effects for the clinical outcomes included in the model reaches 8 statistical significance at the 5% level. However, such statistical conventions are arbitrary 9 and an irrelevance of inference argument has been made in the context of decision making 10 in the presence of uncertainty (Claxton 1999). The apparent cost effectiveness of MDT in this 11 analysis is driven by a large relative reduction of stillbirths with MDT and whilst the 12 confidence intervals do not indicate statistical significance they do nevertheless suggest a 13 fairly high probability that MDT will lead to reduced stillbirths. This is reflected in the PSA 14 results. It seems unlikely that an MDT would actually lead to an increase in pre-eclampsia 15 even if it is not ultimately protective. However, removing this outcome from the analysis 16 would only further strengthen the cost effectiveness of MDT reported in this evaluation.

1Conclusion

18 Subject to the substantial limitations in the clinical data underpinning the model, this analysis

19 provides support for the recommendations made by the committee with respect to involving

20 an expanded MDT in antenatal care planning for women with existing medical conditions.

21 While the model suggests that an expanded MDT is likely to be cost effective relative to

22 routine antenatal care planning, it does not provide evidence on the optimal way to configure 23 an MDT service.

Modelling cost effectiveness of ultrasound needle siting of central neuraxial blockade for women with obesity

Introduction

5 Palpation of anatomical landmarks or ultrasound scanning are alternative techniques to

6 identify the needle insertion site for regional anaesthesia or analgesia in obese women who

7 choose a caesarean section under regional block or request epidural analgesia for labour.

8 Anatomical landmarks may be impalpable in obese women and it has been suggested that

9 ultrasound scanning provides an effective alternative to identify the gaps between spinous

10 processes in the lumbar region. Improved needle siting through the use of ultrasound may

11 reduce the time to complete the procedure and the number of failed puncture attempts which

12 has the potential to reduce 'downstream' costs as well as leading to improved health13 outcomes. However, ultrasound adds to the costs of the procedure and therefore there is an

15 outcomes. However, ultrasound adds to the costs of the procedure and therefore there is an 14 issue as to whother the additional costs constitute good value for manoy for the NUS. For

14 issue as to whether the additional costs constitute good value for money for the NHS. For 15 this reason and because there are differences in practice and opinion, an original health

16 economic analysis was undertaken for this guideline.

1**Methods**

1Model structure

19 A decision analytic model was developed in Microsoft Excel® to compare the cost

20 effectiveness of ultrasound (plus palpation) with palpation alone, to improve needle siting in

21 obese women. A diagrammatic representation of the decision tree structure is shown in

22 Figure 8. The tree structure is the same for both the model intervention, ultrasound (plus

23 palpation), and the comparator, palpation alone, although the probabilities of the various

24 outcomes vary. The clinical data reports only the overall risk of the outcomes of headache,

25 backache and haemorrhage at the puncture site with no breakdown according to whether or

26 not analgesia failed. Therefore, the model assumed that these adverse outcomes were the

27 same irrespective of whether or not analgesia fails. This assumption does not make any28 difference in terms of assigning a health state utility loss and cost to these outcomes.

29 PSA was undertaken using Monte Carlo simulation in order to reflect uncertainty in model

30 input parameters. This involved sampling model inputs from a probability distribution that

31 reflected the uncertainty around the point estimates for model values. Mean costs and

32 QALYs were calculated across all simulations and, as a summary measure of cost

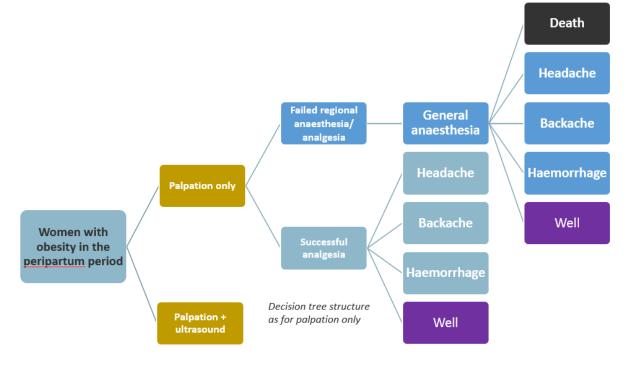
33 effectiveness, a mean iNMB was calculated based on a cost effectiveness threshold of

34 £20,000 per QALY.

One-way deterministic sensitivity analysis was undertaken to explore which model inputs contributed most to the results and where uncertainty with respect to the true model parameter is likely to be the most important. These results are presented in a Tornado diagram which is intended to give some insight into which are the most important variables in driving the results. They indicate how a 'low' value and a 'high' value for a particular model input would change the model result when compared to the base-case value. The Tornado

- 1 diagrams are presented so that the variables are ordered in descending order of importance
- 2 although some caution should be exercised in interpreting this ordering as low or high values
- 3 may not always have been selected consistently across all variables.

Figure 8: Model schematic for assessing the cost effectiveness of ultrasound (plus palpation) to improve needle siting in obese women



Setting and population

- 5 The model setting was for the NHS and the population was obese women (BMI \ge 30 kg/m²)
- 6 and undergoing elective or emergency caesarean section or siting of epidural for analgesia in
- 7 labour. It was assumed that the women were aged 30 years, reflecting the mean age of
- 8 women giving birth in England and Wales in 2014
- 9 (https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/livebirths
- 10 /bulletins/birthsbyparentscharacteristicsinenglandandwales/2014).

1Clinical outcomes and baseline risk

12 The clinical outcomes included in the model reflected the outcomes reported in 3 studies

13 (Wang 2012, Sahin 2014, Urfalioglu 2017) included in the clinical review undertaken for this

14 guideline. All the clinical evidence related to women having an elective caesarean section

15 and therefore the model assumed that the outcomes would be the same in obese woman

16 who were in labour at the time of the procedure. These outcomes and their baseline risk are

17 presented in Table 12. The baseline risk represents the risk for the comparator treatment of

palpation alone and was estimated from the control arm of the included studies, pooled whenevidence from more than one study was available. The table also includes parameters used

20 for probabilistic sampling in the Monte Carlo simulation.

Outcome	Risk	Alpha	Beta	Distribution	Source
Failed analgesia	0.080	2	23	Beta	Sahin 2014
Backache	0.231	24	80	Beta	Wang 2012, Sahin 2014, Urfalioglu 2017
Headache	0.037	6	98	Beta	Wang 2012, Sahin 2014, Urfalioglu 2017
Haemorrhage	0.236	8	47	Beta	Wang 2012, Sahin 2014

1 Table 12: Baseline risk for model outcomes

2

Treatment effectiveness

4 Treatment effectiveness estimates, shown in Table 13, were derived from 3 studies included

5 in the clinical review. Where data on an outcome was available from more than 1 study the

6 relative treatment effect was estimated from a meta-analysis. The baseline risk was

7 multiplied by the risk ratios from the studies to provide an estimate of the risk of each

8 outcome of interest with the intervention, ultrasound (plus palpation).

9 Table 13: Relative treatment effect of ultrasound (plus palpation) compared to 10 palpation alone

¹⁰

Outcome	Risk ratio (RR)	Standard Error (In(RR))	Distribution	Source		
Failed analgesia	1.00	0.0834	Log-normal	Sahin 2014		
Backache	0.31	0.3778	Log-normal	Wang 2012, Sahin 2014, Urfalioglu 2017		
Headache	1.53	0.5083	Log-normal	Wang 2012, Sahin 2014, Urfalioglu 2017		
Haemorrhage	0.62	0.4069	Log-normal	Wang 2012, Sahin 2014		

11

1Quality adjusted life years

13 In order to estimate QALYs, a health state utility decrement was estimated for the adverse 14 outcomes of backache, headache and haemorrhage alongside an expected duration. The 15 default values for the health state utility decrement associated with these outcomes and the 16 expected duration are presented in Table 14 and Table 15 respectively. In order to calculate 17 the health state utility decrement a population norm of 0.93 was assumed (Kind 1999) based 18 on the mean weighted health state index for women aged 25 to 34 years. Where a health 19 state utility was established for the adverse outcome from the literature, this was then 20 subtracted from the population norm to give an estimate of the health state utility decrement 21 associated with that outcome.

22 Table 14: Health state utility decrement

Outcome	HSU Decrement	Standard Error	Distribution	Source
Backache	0.42	0.008	Normal	Whynes 2013 and Abdullayev 2015 ^a

Outcome	HSU Decrement	Standard Error	Distribution	Source
Headache	0.60	None	N/A	Udeh 2014 ^b
Haemorrhage	0.00	None	N/A	N/A

1 a Whynes 2013 reported a health state utility of 0.62 (95% confidence interval 0.60 to 0.64) for mild backache,

2 0.48 (95% CI 0.45 to 0.51) for moderate backache and 0.18 (95% CI 0.15 to 0.22) for severe backache.

3 Published data (Abdullayev 2015) was used to estimate to estimate the proportion of women experiencing

4 postdural backache who would be mild (52.6%), moderate (33.8%) or severe (13.5%). These proportions were

5 used to estimate a weighted health state utility loss of 0.51 associated with postdural backache. The standard

6 error was estimated by bootstrapping 10,000 samples of the health state utility values in Whynes 2013.
7 b Udeh 2014 estimated a health state utility of 0.33 for a post lumbar puncture head for 2 days. A range of 0.25 to

8 0.41 was reported but no confidence intervals.

9 Table 15: Duration of adverse outcomes

Outcome	Duration (days)	Standard error	Distribution	Source
Backache	3.2	1.122	Normal	Abdullayev 2015 ^a
Headache	21.2	0.059	Normal	Vandam 1956 ^b
Haemorrhage	N/A	N/A	N/A	N/A

10 a Based on the control group in that study

b Vandam 1956 reported on the spontaneous recovery from postdural headache. While this occurred within 4

12 days for a majority of patients, a small percentage of patients took much longer to recover. In this study a total of

13 10,098 spinal anaesthesia were observed and the overall risk of postdural headache was estimated to be 11%.

14 In order to estimate the uncertainty surrounding the mean duration of postdural headache based on the duration

15 reported by Vandam 1956 (1-2 days = 24%; 3-4 days = 29%; 5-7 days = 19%; 8-14 days = 8%; 3-6 weeks = 5%; 16 3-6 months = 2%; 7-12 months = 4%) a 1,000 bootstrap case resampling replications were undertaken for 1,110

17 patients (11% of 10,098) with postdural headache

18 The estimate of duration of headache represents an upper bound because it is based on

19 spontaneous recovery whereas in current practice women with a postdural puncture

20 headache would be offered an epidural blood patch and this treatment has a high success

21 rate, especially if a second patch is offered to women whose symptoms are only partially

22 relieved after one attempt.

23 In addition the model estimated a QALY loss for the very small risk of general anaesthetic 24 mortality in the event of general anaesthesia being needed. The model parameters used to

25 derive this loss are presented in Table 16. A discount rate of 3.5% was used to estimate

26 QALY losses occurring into the future in line with NICE methods

27 (https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-28 guidelines-the-manual.pdf).

29 Table 16: Quality adjusted life year loss from general anaesthetic mortality

Variable	Value	Source
Remaining Life Expectancy	53 years	ONS, Life Tables 2013-15 ^a
Health state utility decrement from mortality	0.93	Kind 1999
General anaesthetic mortality	0.000077	Lagasse 2002
) - D		

30 a Based on a woman aged 30 years

Costs and resource use

- 2 In line with NICE methods a NHS and PSS perspective was adopted for this analysis. Costs
- 3 were based on a 2016/17 price year reflecting the most recently available NHS Reference
- 4 Costs at the time of writing. Costs were not discounted as any 'downstream' costs arising
- 5 from adverse outcomes were assumed to occur within 1 year of treatment.

6 The incremental nature of the analysis meant that the model sought to capture the additional 7 costs of ultrasound compared to palpation. Palpation would also be used with ultrasound and 8 therefore in the base-case analysis it was assumed that the additional costs of treatment for 9 the intervention relative to the comparator of palpation alone would be captured through the 10 costs of an ultrasound scan. However, given that a key rationale for ultrasound is that it may 11 help facilitate neuraxial blockade, sensitivity analysis explored the possibility that there could 12 be cost differences in treatment arising from differences in the number of puncture attempts 13 or the duration of the procedure.

14 In addition to treatment, the model also included costs relating to adverse outcomes. The unit

15 costs of the model are shown in Table 17. Model inputs used to assess the impact of

16 puncture attempts and procedure duration are outlined in Table 18 and Table 19

17 respectively. A Dirichlet distribution was used in the PSA in order to quantify the uncertainty

18 around the number of puncture attempts for both the comparator and intervention.

Cost variable	Value	Standard error ^a	Distribution	Source
Ultrasound	£52	£1.13	Normal	NHS Reference Costs 2016-17 ^b
General anaesthesia	£334	N/A	N/A	University Hospital Southampton ^c
Backache	£50	N/A	N/A	GC estimate ^d
Headache	£112	N/A	N/A	Tung 2012 ^e
Haemorrhage	£50	N/A	N/A	GC estimate ^f
Cost per additional puncture (palpation)	£21	N/A	N/A	PSSRU 2017, Wang 2012 ^g
Cost per additional puncture ultrasound	£52	£1.13	Normal	NHS Reference Costs 2016-17 ª
Cost per procedure	£106 ^b	N/A	N/A	PSSRU 2017

19 Table 17: Model unit costs

hour

20 a The method of estimating a standard error from data included in NHS Reference Costs is described in detail in

21 https://www.nice.org.uk/guidance/ng3. Value marked N/A were treated deterministically there was no information 22 on dispersion of values around the point estimate on which to base a sampling distribution

b This was based on an ultrasound scan with duration of less than 20 minutes, without contrast (Currency code

24 RD40Z

25 c Private Patient Tariff 2017/2018

- 26 http://www.uhs.nhs.uk/Media/SUHTInternet/PatientsAndVisitors/Privatepatienttariff2017to2018.pdf (accessed 27 10/07/2018
- 28 d A largely notional value, but reflects that there are a number of low-cost management options that may be
- 29 employed such as hot or cold massage, mild analgesics and occasionally medical follow-up to rule out more
- 30 persistent backache
- 31 e Based on the costs reported in a US article (Tung 2012) on the costs of an epidural blood patch, a surgical

32 procedure. A US cost of \$137.59 in 2011 prices was converted into UK currency using the HM Revenue and 33 Customs monthly exchange rate of $\pounds 1 = \$1.3176$

34 (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/718649/exrates-monthly-

35 0718.csv/preview - July 2018). This was updated to 2016-17 prices using the HCHS pay and inflation index, with

36 a multiplier of 1.07 derived from the HCHS index for 2011-12 and 2016-17

1 f A largely notional value as this will usually be haematoma formation

2 g Based on the costs per hour worked of a medical consultant and a procedure duration of 12 minutes (see Table 3 19)

4	Table 18: Puncture attempts by needle sitting method "				
	Number of attempts	Palpation alone	Ultrasound (plus palpation)		
	1	13	19		
	2	7	9		
	3	1	2		
	4	9	0		
_					

4 Table 18: Puncture attempts by needle siting method ^a

5 a Wang 2012

6 Table 19: Duration^a

	Palpation		Ultrasound	l (plus palpation)
Variable	Mean	Standard error	Mean	Standard error
Time to determine puncture site	2.60	0.311	0.30	0.061
Procedure duration	9.37	0.776	7.67	0.689
a 11/ang 2012				

7 a Wang 2012

Tornado diagram inputs

9 Values and rationale for one-way sensitivity analysis presented later in a Tornado diagram

10 are shown in Table 20.

11 Table 20: Values for model inputs in Tornado diagram

Variable	Low value	High value	Rationale for values
Ultrasound cost	£0	£200	Some uncertainty as to most appropriate currency code
Backache cost	£20	£1,000	Wide range to assess sensitivity with respect to this input
Headache cost	£20	£1,000	Wide range to assess sensitivity with respect to this input
Haemorrhage cost	£20	£1,000	Wide range to assess sensitivity with respect to this input
Backache baseline risk	0.01	0.50	Wide range to assess sensitivity with respect to this input
Headache baseline risk	0.01	0.50	Wide range to assess sensitivity with respect to this input
Haemorrhage baseline risk	0.01	0.50	Wide range to assess sensitivity with respect to this input
General anaesthesia risk ratio	0.85	1.18	95% Confidence intervals ^a
Backache risk ratio	0.15	0.65	95% Confidence intervals ^a
Headache risk ratio	0.57	4.05	95% Confidence intervals ^a
Haemorrhage risk ratio	0.28	1.35	95% Confidence intervals ^a
Backache health state utility loss	0.05	0.70	Wide range to assess sensitivity with respect to this input

Variable	Low value	High value	Rationale for values
Headache health state utility loss	0.05	0.70	Wide range to assess sensitivity with respect to this input
Backache mean duration	1 day	50 days	Wide range to assess sensitivity with respect to this input
Headache mean duration	1 day	50 days	Wide range to assess sensitivity with respect to this input

1 a Values of <1.00 favour ultrasound

Results

Base-case inputs

Probabilistic sensitivity analysis

5 The output from a PSA using the model's default inputs not taking into account the number of

6 puncture attempts or the duration of the procedure are shown in Table 21, Figure 9 and

7 Figure 10. The results show that in this analysis ultrasound is not cost effective, with a very

8 high probability that the result holds when allowing for parameter uncertainty.

9 Table 21: Probabilistic sensitivity analysis output for base-case analysis

Measure	Value		
Simulations	10,000		
Mean incremental cost of ultrasound	£47		
Mean incremental QALY of ultrasound	-0.0009		
Mean incremental net monetary benefit (iNMB) ^a	-£65		
Probability ultrasound cost effective at £20,000 per QALY threshold	1.26%		
Probability ultrasound cost effective at £30,000 per QALY threshold	5.00%		

10 a Calculated for a cost effectiveness threshold of £20,000 per QALY

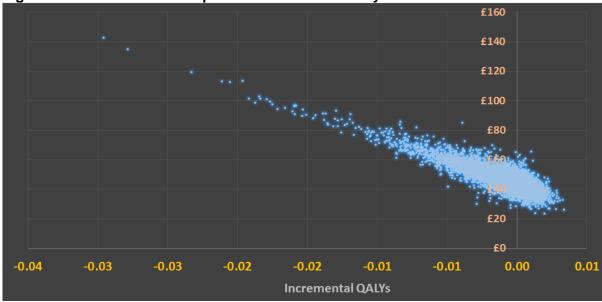
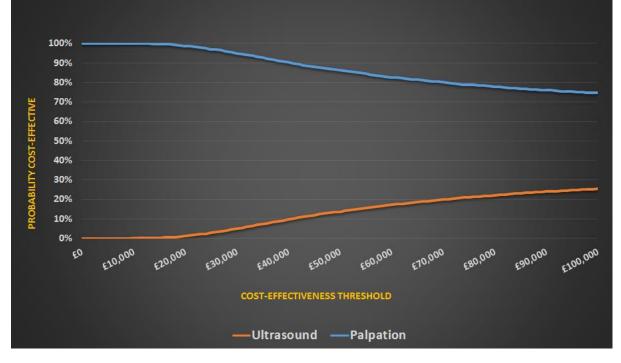


Figure 9: Cost effectiveness plane for base-case analysis





Deterministic analysis

- 2 The results for the deterministic analysis using default model inputs are provided in Table 22.
- 3 They produce a similar result to the PSA indicating that ultrasound is dominated by palpation
- 4 alone, with higher costs and lower benefits. The iNMB of ultrasound is -£53.

5 Table 22: Deterministic analysis for base-case analysis^a

Measure	Incremental outcomes	Incremental costs	Incremental QALYs
General anaesthesia	0.000	£0.00	N/A
Mortality	0.000	-	0.00000
Backache	-0.159	-£7.97	0.00059
Headache	0.031	£3.44	-0.00107
Haemorrhage at puncture site	-0.090	-£4.48	0.00000
Procedure	-	£52.00	N/A
Total	N/A	£42.99	-0.00048

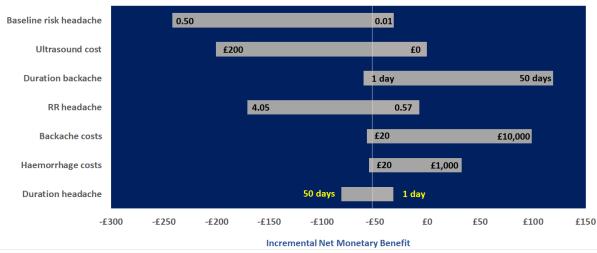
6 a Results are reported incrementally for ultrasound compared to using palpation alone

Tornado diagram

8 The results of the Tornado analysis for the base-case analysis are shown in Figure 11 and 9 Figure 12. This involves varying the inputs for the variables presented in Table 20 between 10 the low and high values as indicated, while holding all other model inputs constant at their 11 default value. Figure 11 shows the variables where varying their value had the greatest 12 impact on iNMB, with Figure 12 displaying the Tornado analysis where varying the variables

13 had a lower impact which is reflected in a much narrow iNMB scale on the horizontal axis...

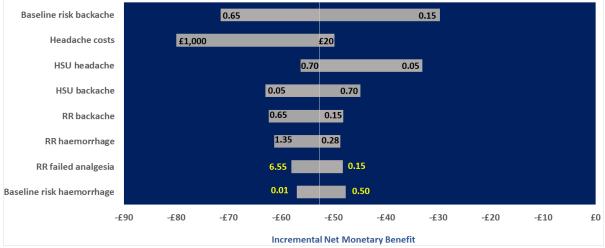
Figure 11: Tornado diagram for the base-case analysis (larger change in net monetary benefit)



RR = risk ratio

14

Figure 12: Tornado diagram for the base-case analysis (smaller change in net monetary benefit)



RR = risk ratio; HSU = health state utility

Analysis taking into account puncture attempts

Probabilistic sensitivity analysis

- 3 In this analysis the number of puncture attempts is sampled to explore the implications for
- 4 the costs of the procedure. The results of this analysis are presented in Table 23. The results
- 5 show that in this analysis palpation alone is cost effective and with a very high probability
- $6\,$ when using a cost effectiveness threshold of £20,000 to £30,000 per QALY.

7 Table 23: Probabilistic sensitivity analysis for analysis taking into account the number 8 of puncture attempts

Measure	Value
Simulations	10,000
Mean incremental cost of ultrasound	£44
Mean incremental QALY of ultrasound	-0.0009
Mean incremental net monetary benefit (iNMB) ^a	-£63
Probability ultrasound cost effective at £20,000 per QALY threshold	2.22%
Probability ultrasound cost effective at £30,000 per QALY threshold	6.59%
Probability ultrasound cost effective at £30,000 per QALY threshold	6.59%

9 a Calculated at a cost effectiveness threshold of £20,000 per QALY

1Deterministic analysis

- 11 The results for the deterministic analysis are shown in Table 24. Again they produce a similar
- 12 result to the PSA and indicate that ultrasound remains dominated by palpation alone.

1 Table 24: Deterministic	analysis taking into account the number	of puncture attempts ^a
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Measure	Incremental outcomes	Incremental costs	Incremental QALYs
General anaesthesia	0.000	£0.00	N/A
Mortality	0.000	-	0.00000
Backache	-0.159	-£7.97	0.00059
Headache	0.031	£3.44	-0.00107
Haemorrhage at puncture site	-0.090	-£4.48	0.00000
Procedure	-	£49.33	N/A
Total	N/A	£40.32	-0.0048

2 a Results are reported incrementally for ultrasound compared to using palpation alone

Analysis taking into account the duration of the procedure

Probabilistic sensitivity analysis

- 5 In this analysis the time to complete the procedure is sampled and factored into the overall
- 6 costs of the procedure based on the costs per procedure hour (see Table 17). This analysis
- 7 indicates that the time saving with ultrasound is not sufficient to offset the additional costs of
- 8 the ultrasound procedure when compared to palpation alone. The mean iNMB of ultrasound
- 9 is -£59 at a cost effectiveness threshold of £20,000 per QALY. The results are presented in
- 10 Table 25.

11 Table 25: Probabilistic sensitivity analysis taking into account the procedure duration

Measure	Value
Simulations	10,000
Mean incremental cost of ultrasound	£40
Mean incremental QALY of ultrasound	-0.0009
Mean incremental net monetary benefit (iNMB) ^a	-£59
Probability ultrasound cost effective at £20,000 per QALY threshold	2.63%
Probability ultrasound cost effective at £30,000 per QALY threshold	7.52%
a Calculated at a cost effectiveness threshold of $f20.000$ per OALV	

12 a Calculated at a cost effectiveness threshold of £20,000 per QALY

1Beterministic analysis

- 14 The result of the deterministic analysis is presented in Table 26. It shows that ultrasound is
- 15 not cost effective as it is dominated by palpation alone, resulting in an iNMB of -£46.

16 Table 26: Deterministic analysis taking into account the duration of the procedure ^a

Measure	Incremental outcomes	Incremental costs	Incremental QALYs
General anaesthesia	0.000	£0.00	N/A
Mortality	0.000	-	0.00000
Backache	-0.159	-£7.97	0.00059
Headache	0.031	£3.44	-0.00107

Measure	Incremental outcomes	Incremental costs	Incremental QALYs
Haemorrhage at puncture site	-0.090	-£4.48	0.00000
Procedure	-	£44.93	N/A
Total	N/A	£35.92	-0.00048

1 a Results are reported incrementally for ultrasound compared to using palpation alone

Scenario analysis increasing the effectiveness of ultrasound

- 3 In this analysis the changes outlined in Table 27 were made to model inputs. The effect of
- 4 these changes was to make the ultrasound intervention less costly relative to palpation
- 5 alone, while at the same time increasing the benefits of treatment.

6 Table 27: Scenario analysis with greater ultrasound effectiveness relative to palpation

	J	
Variable	Scenario analysis value	Default value
Backache duration	7 days	3.2 days
Backache duration standard error	2 days	1.122 days
Risk ratio for headache ^a	0.57	1.53
a Values of < 1.00 favour ultrasound		

7 a Values of < 1.00 favour ultrasound

Brobabilistic sensitivity analysis

- 9 The results of the PSA are presented in Table 28, Figure 13 and Figure 14. They show that,
- 10 in this scenario, there was also considerable uncertainty with respect to cost effectiveness
- 11 especially for a cost effectiveness threshold of between £20,000 and £30,000 per QALY.

12Table 28: Probabilistic sensitivity analysis with greater effectiveness of ultrasound13relative to palpation

Measure	Value
Simulations	10,000
Mean incremental cost of ultrasound	£40
Mean incremental QALY of ultrasound	0.0019
Mean incremental net monetary benefit (iNMB) ^a	-£1.00
Probability ultrasound cost effective at £20,000 per QALY threshold	48.40%
Probability ultrasound cost effective at £30,000 per QALY threshold	75.52%
a Calculated at a past affectiveness threshold of C20,000 per OALV	

14 a Calculated at a cost effectiveness threshold of £20,000 per QALY

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

Figure 13: Cost effectiveness plane for scenario analysis with greater effectiveness of ultrasound relative to palpation

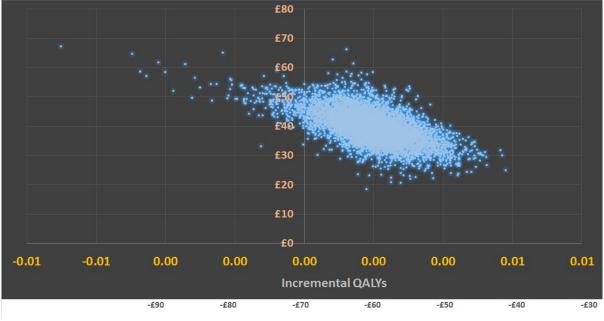
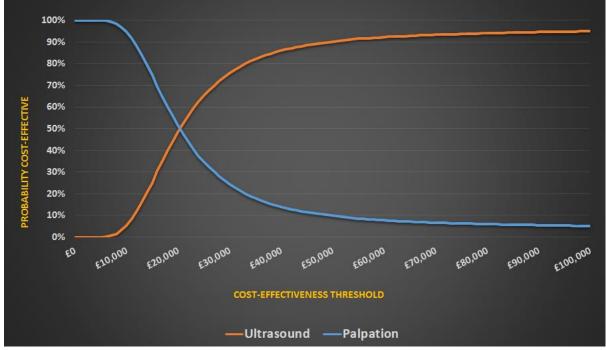


Figure 14: Cost effectiveness acceptability curve for scenario analysis assuming lower costs and higher benefits from ultrasound



Deterministic analysis

- 2 Table 29 shows the output of the deterministic analysis for this sensitivity analysis. It
- 3 suggests that ultrasound (plus palpation) is cost effective at a cost effectiveness threshold of
- 4 £20,000 per QALY with an ICER of £17,071 per QALY relative to palpation alone. However,
- 5 an iNMB of £6 is consistent with the PSA suggesting that the finding that the cost
- 6 effectiveness of ultrasound compared to ultrasound is subject to considerable uncertainty.

7 Table 29: Deterministic analysis for scenario assuming lower costs and higher 8 benefits from ultrasound ^a

Measure	Incremental outcomes	Incremental costs	Incremental QALYs			
General anaesthesia	0.000	£0.00	N/A			
Mortality	0.000	-	0.000			
Backache	-0.159	-£7.97	0.00128			
Headache	-0.025	-£2.79	0.00087			
Haemorrhage at puncture site	-0.090	-£4.48	0.00000			
Procedure	N/A	£52	N/A			
Total	N/A	£36.75	0.00215			

9 a Results are reported incrementally for ultrasound compared to using palpation alone

1**Discussion**

11 It is important to recognise the limitations of the clinical evidence which underpins this

12 economic evaluation when interpreting the results. Potentially, improved needle siting could

13 reduce the need for general anaesthesia. For obese women, general anaesthesia carries a

14 greater risk than in non-obese women, but there was no evidence reported on related

15 outcomes and the sample size of the included studies in the clinical evidence review meant

16 they would have been underpowered to detect any differences. Therefore, the model was

17 restricted to the outcomes that were reported in the 2 included studies. All the clinical

18 evidence related to women having an elective caesarean section and therefore the model 19 assumed that the outcomes would be the same in obese woman who were in labour at the

20 time of the procedure. Furthermore, the studies were exploratory and generally

21 underpowered to detect differences in outcomes and therefore resulted in very imprecise

22 estimates of treatment effect.

Although the duration of the procedure and the number of failed puncture attempts were not
prioritised outcomes for the clinical review, they were reported in the clinical studies and
were considered in the evaluation through a sensitivity analysis.

The deterministic sensitivity analysis and the PSA both found that palpation alone was more cost effective than ultrasound (plus palpation) for needle siting. The PSA suggested that there was a 99.8% probability that palpation alone was cost effective and in the deterministic analysis ultrasound (plus palpation) was dominated, being more expensive, principally as a result of the additional procedure cost, and generating fewer QALYs, primarily because the point estimate of the risk ratio for headache suggested an increased risk of this outcome, which combined with the mean duration of beadache symptoms is the biggest single driver of

32 which combined with the mean duration of headache symptoms is the biggest single driver of

1 QALY differences in the model. While one of the hypotheses underpinning the rationale for

2 using ultrasound (plus palpation) to assist in needle siting is that it might reduce the risk of

3 accidental dural puncture. These punctures can cause headaches that might require an

4 epidural blood patch. However, the limited clinical evidence that informs this model does not

5 provide support for this hypothesis.

6 The Tornado analysis shows that, at least if all other variables are held constant at their 7 base-case levels, varying one input value by large amounts does not generally alter the cost 8 effectiveness conclusion with only the upper limit of haemorrhage costs leading to a positive 9 iNMB for ultrasound (plus palpation). However, unless the haemorrhage represents a very 10 rare spinal haematoma, it is not considered to be an important clinical issue and will typically 11 be associated with negligible or zero costs. Although the point estimate for the risk ratio 12 indicates a higher risk of headaches with ultrasound, the confidence intervals are wide, and 13 this should be interpreted as a lack of evidence of benefit rather than evidence of harm. 14 However, the Tornado analysis did not suggest that ultrasound was cost effective even when 15 the lower 95% confidence interval for the risk ratio was used.

16 Sensitivity analysis considered separately the inclusion of procedure duration and the

17 number of puncture attempts. However, in both analyses there was only a negligible

18 improvement in the relative cost effectiveness of ultrasound (plus palpation), with palpation

19 alone remaining the dominant procedure. This is because the savings from a reduced

20 number of puncture attempts or the shorter duration of the procedure only partially offset the

21 higher costs of the procedure, at least with the model assumptions with respect to the 22 additional costs associated with longer duration or more puncture attempts.

23 A scenario analysis was also undertaken to demonstrate that by moving several model

24 inputs in favour of ultrasound plus palpation, the cost effectiveness of palpation alone

25 becomes less clear cut. Given the wide imprecision around the inputs in this model then

26 future research may be beneficial in determining whether the cost effectiveness of ultrasound

27 (plus palpation) is better than this current analysis would suggest.

2Conclusion

29 The model results suggest that there is no demonstrable economic benefit in undertaking

30 ultrasound plus palpation to improve needle siting for obese women who choose a

31 caesarean section under regional block or who request epidural analgesia for labour

32 compared to palpation alone. This is unsurprising given that the evidence in the clinical

33 systematic review undertaken for this guideline did not find clinically important differences for

34 any of the outcomes prioritised by the committee. Therefore, the committee chose not to

35 make any recommendations on this topic. However, they did not think that the included 36 evidence provided conclusive evidence that ultrasound (plus palpation) should not be

37 undertaken for needle siting. They therefore refrained from making a recommendation that

38 ultrasound (plus palpation) should not be undertaken for needle siting for central neuraxial

39 blockade anaesthesia for obese women who choose a caesarean section under regional

40 block or for obese women who request epidural analgesia for labour.

Modelling cost effectiveness of mode of 2 birth for women with a large-for 3 gestational-age baby

Introduction

- 5 It is recognised that large for gestational age babies increase the risk of certain adverse
- 6 outcomes for both the woman and the baby, with the risk rising with increasing birthweight.
- 7 Of interest in this guideline is the clinical and cost effectiveness of different modes of birth
- 8 (caesarean section or continuation of labour) for women in labour with a large-for-
- 9 gestational-age baby. There continues to be variation in practice in the management of
- 10 pregnancies with a suspected large-for-gestational-age baby. Although, there are published
- 11 economic evaluations related to the mode of birth for women with a large-for-gestational-age
- 12 baby, they all focus on a planned birth before labour has started and therefore, it was
- 13 decided that an original health economic analysis should be undertaken for this guideline
- 14 which could incorporate this new evidence and more explicitly address a population in
- 15 labour, where the alternative to continuing with labour would be an emergency caesarean16 section.

1**Methods**

1Model structure

- 19 A decision analytic model was developed in Microsoft Excel® to compare the cost
- 20 effectiveness of emergency caesarean section to continuation of labour in women with a
- 21 suspected large-for-gestational-age baby. A schematic of the model is shown in Figure 15.
- 22 The model assumed that a proportion of women who decided to continue with labour would
- 23 nevertheless require an emergency caesarean section. Outcomes for these women were not
- 24 differentiated according to the eventual (actual) mode of birth because the data in the
- 25 included studies did not allow stratification in this way.

26 The model took a lifetime horizon in order to capture the potential lifelong effects of adverse

- 27 outcomes for the woman and the baby. Subgroup analysis was undertaken for different28 birthweights.
- 29

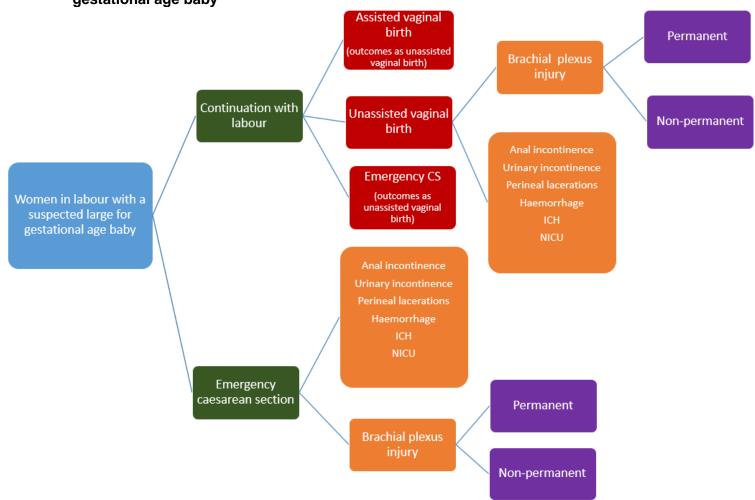


Figure 15: Model schematic to compare mode of birth for women in labour with a suspected large for gestational age baby

CS = caesarean section; ICH = intracranial haemorrhage; NICU = neonatal intensive care unit

Setting and population

2 The model setting was the NHS and the population was women in labour with a suspected
3 large-for-gestational-age baby (>4000 g), although the clinical effectiveness data used in the

4 model was based on a retrospective analysis of births where the birthweight was known.

- 5 Subgroup analysis was undertaken for women with babies with birthweight:
- 6 4000 g to 4499 g
- 7 4500 g to 4999 g
- 8 ≥5000 g

Clinical outcomes

10 Outcomes were limited to those reported in studies included in the review of clinical evidence 11 undertaken for this guideline. Shoulder dystocia was not included in the model as it was 12 thought that there would be issues with double counting given its relationship to brachial 13 plexus injury, which was included. Clavicle injuries were not included in the model as they 14 are normally self-limiting (that is, there is no need for treatment). Asphyxia and convulsions 15 were also not included in the model as it was considered that these would be closely related 16 to the included outcome of intracranial haemorrhage (ICH). Neonatal mortality or stillbirth 17 was not included as there was no event data for these in any of the included studies.

18 The 7 outcomes included in the base-case model are listed below:

- 19 brachial plexus injury
- 20 anal incontinence
- urinary incontinence
- third- or fourth-degree perineal lacerations
- haemorrhage
- 24 ICH
- admission to the neonatal intensive care unit (NICU).

26 The model was constructed in such a way that it could be run with or without any of the 27 outcomes listed above as part of a sensitivity analysis.

28 All outcomes included in the analysis were assumed to have an associated cost. Additionally,

29 all outcomes other than admission to NICU were assumed to be associated with a loss in

30 health-related quality of life (HRQoL) for the woman or the baby. No HRQoL was assumed

31 for NICU admission as it was considered there would be double counting with other

32 outcomes for the baby that would result in a NICU admission.

3**Baseline**

34 The baseline risks associated with a continuation of labour were estimated from the studies

in the clinical review undertaken for this guideline. These values are presented in Table 30below. It was assumed that 10% of brachial plexus injuries would lead to permanent disability

36 below. It was assumed that 10% of brachial plexus injunes would lead to permanent disability 37 (Gherman 1998). This was treated as a deterministic variable in PSA but could be varied

38 through a sensitivity analysis.

Table 30: Baseline event probabilities and parameters for probabilistic sensitivity 1 2

Probability	Alpha	Beta	Source
0.0059	1,154	194,176	Aberg 2016
0.0036	563	157,817	Aberg 2016
0.0127	407	31,615	Aberg 2016
0.0457	184	3,844	Aberg 2016
0.1852	25	110	Vercellini 2015
0.4148	56	79	Vercellini 2015
0.1484	19	109	Lipscomb 1995 ^a
0.1486	41	235	Vercellini 2015 ^a
0.0003	56	195,274	Aberg 2016
0.0003	41	149,239	Aberg 2016
0.0004	12	32,019	Aberg 2016
0.0007	3	4,025	Aberg 2016
0.0136	8	581	Menticoglou 1992
	0.0059 0.0036 0.0127 0.0457 0.1852 0.4148 0.1484 0.1486 0.0003 0.0003 0.0003 0.0004 0.0007	0.0059 1,154 0.0036 563 0.0127 407 0.0457 184 0.1852 25 0.4148 56 0.1486 41 0.0003 56 0.0003 41 0.0004 12 0.0007 3	0.00591,154194,1760.0036563157,8170.012740731,6150.04571843,8440.1852251100.414856790.1484191090.1486412350.000356195,2740.000341149,2390.00041232,0190.000734,025

3 a As meta-analysis was not undertaken the study with the largest number of participants was used where more

4 than 1 study reported on a particular outcome; meta-analysis was not undertaken as these were observational

5 studies, see Supplement 1 (Methods)

6 It was assumed that a proportion of women where the decision made to continue with labour,

7 would nevertheless ultimately require an emergency caesarean section. Also, a proportion

8 who give birth vaginally would require assisted birth. The values used in the model for the

9 actual mode of birth for women, where the decision is made to continue with labour are

10 provided in Table 31.

11 Table 31: Actual mode of birth probability for women continuing with labour with a 12 suspected large-for-gestational-age baby

Mode of birth	Probability	Source
Unassisted vaginal birth	0.40	Vercellini 2015, https://www.babycentre.co.uk/a1015615/macrosomia- big-baby (accessed 06/07/2018) ^a
Assisted vaginal birth	0.20	https://www.babycentre.co.uk/a1015615/macrosomia- big-baby (accessed 06/07/2018)
Emergency caesarean section	0.40	Vercellini 2015

13 a In Vercellini 2015, 40% of women had an emergency caesarean section and 60% had a vaginal birth, but this 14 was not broken down further. The proportion of assisted vaginal births was estimated from an alternative

15 source cited in the table and unassisted vaginal birth was assumed to account for the remainder

16 reatment effectiveness

17 The relative treatment effects were estimated from the studies included in the clinical

18 systematic review undertaken for this guideline. Table 32 presents the relative treatment

19 effects for the model's 7 outcomes along with their 95% CIs. These relative treatment effects

- 20 were applied to the baseline risk in order to estimate the risk of each outcome for women in
- 21 labour with a suspected large-for-gestational-age baby who has an emergency caesarean
- 22 section. It should be noted that these relative treatment effects are based on a retrospective

- 1 comparison of women who had an emergency caesarean section compared to those had a
- 2 vaginal birth when the birthweight was known. This is not the same as a treatment effect
- 3 among women randomised to continuation of labour (with a mixture of vaginal and
- 4 emergency caesarean section as the actual mode of birth) or emergency caesarean section,
- 5 which would be the ideal comparison of interest for decision making purposes.

6 Table 32: Relative treatment effect for emergency caesarean section in women in 7 labour with a suspected large-for-gestational-age baby

		Lower limit of	Upper limit of	0
Outcome (birthweight category)	Risk ratio	95% CI	95% Cl	Source
Brachial plexus injury (≥4000 g)	0.05	0.02	0.12	Aberg 2016
Brachial plexus injury (4000-4499 g)	0.08	0.03	0.22	Aberg 2016
Brachial plexus injury (4500-4999 g)	0.03	0.01	0.14	Aberg 2016
Brachial plexus injury (≥5000 g)	0.01	0.00	0.18	Aberg 2016
Anal incontinence	0.33	0.13	0.82	Vercellini 2015
Urinary incontinence	0.35	0.20	0.61	Vercellini 2015
Perineal lacerations	0.09	0.01	1.49	Lipscom 1995
Haemorrhage	0.70	0.36	1.36	Vercellini 2015
ICH (>4000 g)	1.43	0.68	2.99	Aberg 2016
ICH (4000-4499 g)	1.67	0.71	3.92	Aberg 2016
ICH (4500-4999 g)	1.16	0.26	5.19	Aberg 2016
ICH (>5000 g)	0.59	0.03	11.35	Aberg 2016
NICU	2.79	0.93	8.39	Menticoglou 1992

8

9 For PSA the relative treatment effects were sampled using a log-normal distribution, using 10 the distribution parameters presented in Table 33, and the standard deviation estimated from

11 the CIs reported in Table 32.

12 Table 33: Parameters of log-normal distribution for sampling relative treatment effect

13 14

for emergency caesarean section in women in labour with a suspected largefor-gestational-age baby

ior gestational age baby		
Outcome (birthweight category)	Mean	Standard deviation
Brachial plexus injury (≥4000 g)	Ln (0.05)	(Ln (0.12) – Ln (0.05)) ÷ 1.96
Brachial plexus injury (4000-4499 g)	Ln (0.08)	(Ln (0.22) – Ln (0.08)) ÷ 1.96
Brachial plexus injury (4500-4999 g)	Ln (0.03)	(Ln (0.14) – Ln (0.03)) ÷ 1.96
Brachial plexus injury (≥5000 g)	Ln (0.01)	(Ln (0.18) – Ln (0.01)) ÷ 1.96
Anal incontinence	Ln (0.33)	(Ln (0.82) – Ln (0.33)) ÷ 1.96
Urinary incontinence	Ln (0.35)	(Ln (0.61) – Ln (0.35)) ÷ 1.96
Perineal lacerations	Ln (0.09)	(Ln (1.49) – Ln (0.09)) ÷ 1.96
Haemorrhage	Ln (0.70)	(Ln (1.36) – Ln (0.70)) ÷ 1.96
ICH (>4000 g)	Ln (1.43)	(Ln (2.99) – Ln (1.43)) ÷ 1.96
ICH (4000-4499 g)	Ln (1.67)	(Ln (3.92) – Ln (1.67)) ÷ 1.96
ICH (4500-4999 g)	Ln (1.16)	(Ln (5.19) – Ln (1.16)) ÷ 1.96

Outcome (birthweight category)	Mean	Standard deviation
ICH (>5000 g)	Ln (0.59)	(Ln (11.35) – Ln (0.59)) ÷ 1.96
NICU	Ln (2.79)	(Ln (8.39) – Ln (2.79)) ÷ 1.96

Costs

- 2 In accordance with NICE methodology a NHS and PSS perspective was adopted for this
- 3 analysis (https://www.nice.org.uk/Media/Default/About/what-we-do/our-
- 4 programmes/developing-NICE-guidelines-the-manual.pdf). Costs were based on a 2016/17
- 5 price year reflecting the most recently available NHS Reference Costs at the time of writing.
- 6 Costs occurring around the time of the birth were not discounted. Costs that occurred over-
- 7 time were derived from the literature, and were discounted but not at the 3.5% discount
- 8 recommended for NICE guidelines (https://www.nice.org.uk/Media/Default/About/what-we-
- 9 do/our-programmes/developing-NICE-guidelines-the-manual.pdf). This was because the
- 10 studies were not undertaken in the UK.

11 The costs used in the analysis are presented in Table 34 alongside their parameters for PSA 12 where applicable.

13 Table 34: Costs associated with eventual mode of birth and model outcomes

Variable	Cost	Standard error	Distribution	Source
Unassisted vaginal birth	£2,297 ^b	£70 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Assisted vaginal birth	£3,367 ^b	£123 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Emergency caesarean section	£4,781 ^b	£98 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Brachial plexus injury – transient	£685 ^b	£28 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)
Brachial plexus injury – permanent ^a	£12,487	-	Deterministic	Ohno 2011, Unit Costs of Health and Social Care (PSSRU, 2017) ^d
Anal incontinence	£3,164	-	Deterministic	Culligan 2004, Unit Costs of Health and Social Care (PSSRU, 2017) ^e
Urinary incontinence	£16,276	-	Deterministic	Culligan 2004, Unit Costs of Health and Social Care (PSSRU, 2017) ^f
Perineal lacerations	£11	-	Deterministic	Culligan 2004, Unit Costs of Health and Social Care (PSSRU, 2017) ^g
Haemorrhage	£15,963	-	Deterministic	Pourat 2013, Unit Costs of Health and Social Care (PSSRU, 2017) $^{\rm h}$
ICH	£24,444	-	Deterministic	NICE 2015, Unit Costs of Health and Social Care (PSSRU, 2017) ⁱ
NICU	£705 ^b	£20 °	Normal	NHS Reference Costs, 2016-17 (NHS Improvement)

14 a NHS Reference Cost Currency Code PB04, Neonatal Diagnoses, Admitted from Other Location or Born in 15 Hospital

- 16 b Weighted average of all relevant currency codes
- 17 c The method of estimating a standard error from data included in NHS Reference Costs is described in detail in

18 https://www.nice.org.uk/guidance/ng3. A standard error was estimated for each relevant NHS Reference Cost

- category and currency code and a pooled standard error was then estimated by weighting according to finished 2 consultant episodes
- 3 d A reported cost of 15,299 USD in 2009 prices was converted into 2016/17 prices using the hospital and
- 4 community health services (HCHS) index. It was then converted into UK currency using an exchange rate of $\pounds 1 =$ 5 \$1.42, reported by HM Revenue and Customs (HMRC).
- 6 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/702273/exrates-monthly-

7 0518.csv/preview (accessed 01/05/2018). Costs were discounted at 3% (Culligan 2004)

- 8 e A reported cost of 2,927 USD in 2001 prices was converted into 2016/17 prices using the hospital and
- q community health services (HCHS) index. It was then converted into UK currency using an exchange rate of $\pounds 1 =$ 10 \$1.42, reported by HM Revenue and Customs (HMRC).
- 11 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/702273/exrates-monthly-
- 12 0518.csv/preview (accessed 01/05/2018). Costs were discounted at 3% (Culligan 2004)
- 13 f A reported cost of 15,059 USD in 2001 prices was converted into 2016/17 prices using the hospital and
- 14 community health services (HCHS) index. It was then converted into UK currency using an exchange rate of $\pounds 1 =$ 15 \$1.42, reported by HM Revenue and Customs (HMRC).
- 16 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/702273/exrates-monthly-
- 17 0518.csv/preview (accessed 01/05/2018). Costs were discounted at 3% (Culligan 2004)
- 18 g A reported cost of 10 USD in 2001 prices was converted into 2016/17 prices using the hospital and community
- 19 health services (HCHS) index. It was then converted into UK currency using an exchange rate of £1 = \$1.42,
- 20 reported by HM Revenue and Customs (HMRC).
- 21 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/702273/exrates-monthly-
- 22 0518.csv/preview (accessed 01/05/2018).
- 23 h A derived cost of 20,798 USD in 2011 prices was converted into 2016/17 prices using the hospital and
- 24 community health services (HCHS) index. It was then converted into UK currency using an exchange rate of £1 =
- 25 \$1.42, reported by HM Revenue and Customs (HMRC).
- 26 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/702273/exrates-monthly-
- 27 0518.csv/preview (accessed 01/05/2018). Costs were discounted at 3% (Culligan 2004)
- 28 I It was assumed that the cost of ICH was the same as the 23,700 GBP cost of Intraventricular haemorrhage 29 reported in the NICE guideline on Preterm labour and birth (https://www.nice.org.uk/guidance/ng25/evidence/
- reported in the NICE guideline on Preterm labour and birth (https://www.nice.org.uk/guidance/ng25/evidence/full-
- 30 31 guideline-pdf-2176838029). This was converted into 2016/17 prices using the hospital and community health
- services (HCHS) index. The original paper from which the cost of IVH was estimated discounted costs at 5% 32 (Kruse 2009).

3Quality adjusted life years

- 34 The QALY loss associated with the model outcomes are presented in Table 35. QALYs
- 35 derived from a lifelong loss in health state utility were discounted at a rate of 3.5% in line with
- 36 the NICE guidelines manual (https://www.nice.org.uk/Media/Default/About/what-we-do/our-
- 37 programmes/developing-NICE-guidelines-the-manual.pdf). Remaining life expectancy for the
- 38 woman and the baby was estimated from national life tables for England 2014-16 (ONS)
- 39 2017, https://www.ons.gov.uk/releases/nationallifetablesuk2014to2016). For babies this was
- 40 81 years and for women it was estimated at 54 years, based on a mean maternal age at birth
- 41 of the child of 30 years (ONS 2017,
- 42 https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/livebirths/
- 43 bulletins/birthsbyparentscharacteristicsinenglandandwales/2016).

44 Table 35: Quality adjusted life year losses associated with model outcomes

Outcome	QALY loss	Source
Brachial plexus injury - transient	0.00167	Culligan 2004 ª
Brachial plexus injury - permanent	11.10	Culligan 2004 ^b
Anal incontinence	12.50	Culligan 2004 °
Urinary incontinence	7.50	Culligan 2004 ^d
Perineal lacerations	0.00	Assumption
Haemorrhage	1.00	Culligan 2004 °

Outcome	QALY loss	Source			
ICH	2.80	NICE 2015 ^f			
a Estimate based a loss of boalth state utility of 0.01 over 2 months					

1 a Estimate based a loss of health state utility of 0.01 over 2 months

2 b Estimate based on a loss of health state utility of 0.4 for the baby with a lifelong duration

3 c Estimate based on a loss of health state utility of 0.5 for the woman with a lifelong duration

4 d Estimate based on a loss of health state utility of 0.3 for the woman with a lifelong duration 5 e Estimate based on a loss of health state utility of 0.04 for the woman with a lifelong duration

6 f Based on QALY loss used for ICH in the NICE guideline on Preterm labour and birth

Øncertainty

8 PSA was undertaken using Monte Carlo simulation in order to reflect uncertainty in model

9 input parameters. This involved sampling model inputs from a probability distribution that

10 reflected the uncertainty around point estimates for model parameters. Mean costs and

11 QALYs were calculated across all simulations and, as a summary measure of cost

12 effectiveness, a mean iNMB was calculated based on a cost effectiveness threshold of

13 £20,000 per QALY.

One-way deterministic sensitivity analysis was undertaken to explore which model inputs contributed most to the model results and where uncertainty with respect to the true model parameter was likely to be the most important. These results are presented in a Tornado diagram which is intended to give some insight as to which are the most important variables in driving the model results. They indicate how a 'low' value and a 'high' value for a particular model input would change the model result when compared to the base-case value. The Tornado diagrams presented here show the variables in ascending order of importance although some caution should be exercised in interpreting this ordering as low or high values may not always have been selected consistently across all variables.

2Tornado diagram inputs

24 In order to assess the importance of particular inputs, uncertainty was assessed using one-

25 way sensitivity analysis and presented in a Tornado diagram. The model inputs included in

26 the Tornado analysis with the range of values used are presented in Table 36.

27 Table 36: Tornado analysis inputs and values

Variable	Low value	High Value
Probability of emergency caesarean section after continuation of labour	0.05	0.60
Baseline anal incontinence probability	0.02	0.25
Baseline urinary incontinence probability	0.05	0.70
Cost of brachial plexus injury permanent	£2,000	£50,000
Cost of anal incontinence	£500	£20,000
Cost of urinary incontinence	£500	£50,000
Cost of haemorrhage	£500	£50,000
Cost of ICH	£10,000	£100,000
QALY loss from brachial plexus injury permanent	2	15
QALY loss from anal incontinence	2	15
QALY loss from urinary incontinence	1	10
QALY loss from haemorrhage	0.05	5

Variable	Low value	High Value
QALY loss from ICH	1	20
Risk ratio brachial plexus injury	0.00	0.18
Risk ratio anal incontinence	0.13	0.82
Risk ratio urinary incontinence	0.20	0.61
Risk ratio haemorrhage	0.36	1.36
Risk ratio ICH	0.03	11.35
Risk ratio NICU	0.93	8.39

1 Continuation of labour is likely to save some costs with respect to birth but the extent it

2 achieves this will depend on the eventual mode of birth and therefore the probability of

3 emergency caesarean section rate in women in labour with a suspected large-for-

4 gestational-age-baby was included to assess the impact birth costs had on cost

5 effectiveness.

6 The baseline probability of anal and urinary incontinence were high and the QALY losses

7 associated with these outcomes were substantial, which might not reflect the severity of

8 these conditions for all women across the remaining life expectancy. Therefore, the baseline

9 probability of anal and urinary incontinence were both included in the Tornado analysis.

10 All deterministic outcomes that had a high cost were included in the Tornado analysis to

11 reflect the large uncertainty that probably exists around the point estimate. Similarly

12 outcomes that had a high associated QALY loss were included.

13 The range of values chosen for the Tornado analysis was intentionally wide, in order to

14 increase the likelihood that the true value was captured. Furthermore, it was considered

15 useful to assess how sensitive the model was to very large changes in the values of the

16 included variables. However, the exact range was arbitrary to some extent.

1Results

1Base case

1Probabilistic sensitivity analysis

20 A total of 10,000 Monte Carlo simulations were run with deterministic variables at their base-

21 case value and additionally for each of the subgroups based on eventual birthweight. The

22 results are presented in Table 37. The cost effectiveness plane for each base-case

23 probabilistic analysis is shown in Figure 16, Figure 17, Figure 18 and Figure 19.

24 Table 37: Mean incremental costs, quality adjusted life years and net monetary benefit

25 of emergency caesarean section compared to continuation of labour for

case					
Analysis birthweight	Mean incremental costs of emergency CS	Mean incremental QALYs of emergency CS	Mean iNMB	Probability cost effective	ICER
Brachial plexus injury ≥4000g	-£3,999	3.47	£73,555	100%	Emergency CS dominates
Brachial plexus injury 4000-4499g	-£3,982	3.49	£73,718	99.99%	Emergency CS dominates
Brachial plexus injury 4500-4999g	-£3,993	3.48	£73,640	99.99%	Emergency CS dominates
Brachial plexus injury ≥5000g	-£4,050	3.53	74,772	100%	Emergency CS dominates

women in labour with a suspected large-for-gestational-age baby – base

3 CS = caesarean section, QALY = quality adjusted life years, iNMB = incremental net monetary benefit, ICER = incremental cost effectiveness ratio

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1





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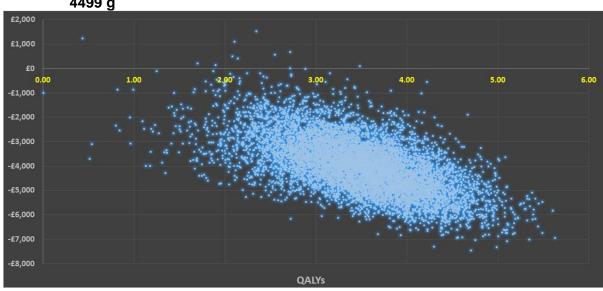
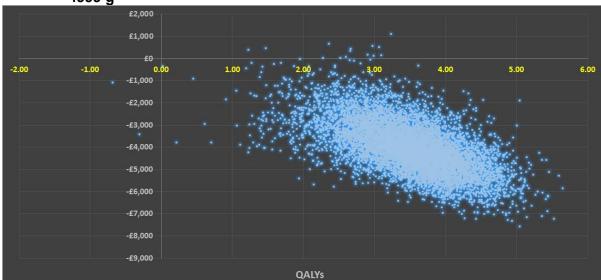


Figure 17: Cost effectiveness plane for base-case analysis, birthweight 4000 g-4499 g

1

Figure 18: Cost effectiveness plane for base-case analysis, birthweight 4500 g to 4999 g



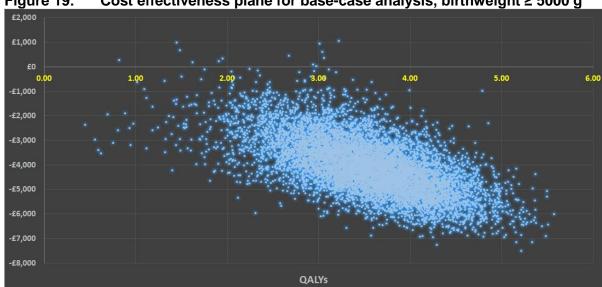


Figure 19: Cost effectiveness plane for base-case analysis, birthweight ≥ 5000 g

Base-case deterministic analysis

2 The results of the deterministic analysis are presented in Table 38. The breakdown of

3 incremental costs and QALYs for babies with a birthweight greater than 5000 g is illustrated 4 in Figure 20 and Figure 21.

5

8

9

6 Table 38: Comparison of incremental costs, quality adjusted life years and incremental 7 cost effectiveness ratios of emergency caesarean section compared to

continuation of labour for women in labour with a suspected large for

gestational	age baby – base o	case		
Analysis birthweight	Incremental Costs of emergency CS	Incremental QALYs of emergency CS	ICER	iNMB
Brachial plexus injury ≥4000g	-£4,208	3.62	Emergency CS dominates	£76,680
Brachial plexus injury 4000-4499g	-£4,202	3.61	Emergency CS dominates	£76,620
Brachial plexus injury 4500-4999g	-£4,222	3.63	Emergency CS dominates	£76,847
Brachial plexus injury ≥5000g	-£4,292	3.67	Emergency CS dominates	£77,669

10 ICER = incremental cost effectiveness ratio; iNMB = incremental net monetary benefit

Figure 20: Graph to show incremental costs of emergency caesarean section by category for women with a baby ≥ 5000 g

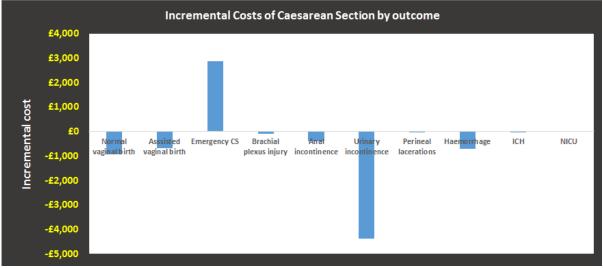
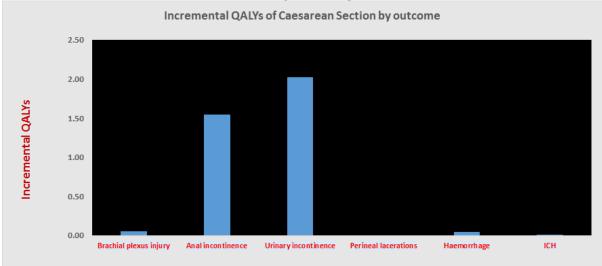


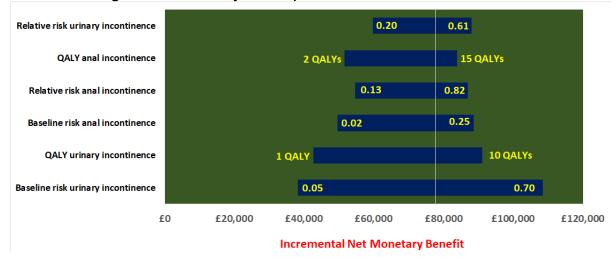
Figure 21: Graph to show incremental costs of emergency caesarean section by outcome for women with a baby ≥ 5000 g



Tornado analysis

- 2 A Tornado analysis was undertaking by varying one input value at a time according to the
- 3 low and high values shown in Table 9 for babies with a birthweight >5000 g. The results of 4 this analysis are shown in Figure 22, Figure 23 and Figure 24.

Figure 22: Tornado diagram indicating how the net monetary benefit of emergency caesarean section compared with continuation of labour changes in response to changes in the input parameters of selected variables (larger change in net monetary benefit) – base case



1

Figure 23: Tornado diagram indicating how the net monetary benefit of emergency caesarean section compared with continuation of labour changes in response to changes in the input parameters of selected variables (smaller change in net monetary benefit) – base case

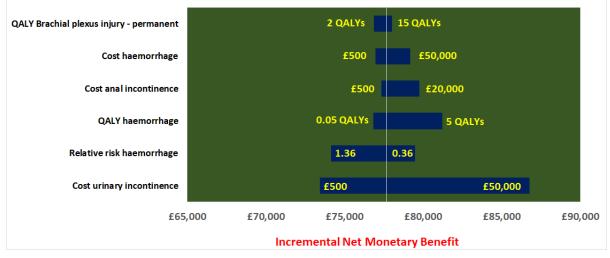


Figure 24: Tornado diagram indicating how the net monetary benefit of emergency caesarean section compared with continuation of labour changes in response to changes in the input parameters of selected variables (least change in net monetary benefit) – base case



1 Figure 22 shows the variables where varying the input has the largest impact on iNMB. Note

2 that the iNMB scale for Figure 23 covers a much narrower range of iNMB values compared

3 to those in Figure 22 and Figure 24.

Sensitivity analysis excluding anal and urinary incontinence from the model

5 The PSA results, based on 10,000 Monte Carlo simulations, are presented in Table 39. The 6 equivalent deterministic results are presented in Table 40.

7 Table 39: Mean incremental costs, quality adjusted life years and net monetary benefit
 8 of emergency caesarean section compared to continuation of labour for
 9 women in labour with a suspected large-for-gestational-age baby – anal and
 10 urinary incontinence excluded from the model (probabilistic sensitivity

11

analy	/sis)				-
Analysis birthweight	Mean incremental cost of emergency CS	Mean incremental QALYs of emergency CS	Mean iNMB	Probability cost effective	ICER
Brachial plexus injury ≥4000g	£677	0.044	£215	62.3%	£15,177 per QALY
Brachial plexus injury 4000-4499g	£675	0.042	£172	60.7%	£15,934 per QALY

Analysis birthweight	Mean incremental cost of emergency CS	Mean incremental QALYs of emergency CS	Mean iNMB	Probability cost effective	ICER
Brachial plexus injury 4500-4999g	£670	0.052	£361	65.5%	£12,944 per QALY
Brachial plexus injury ≥5000q	£614	0.086	£1,107	81.0%	£7,136 per QALY

CS = caesarean section, ICER = incremental cost effectiveness ratio, iNMB = incremental net monetary benefit, 1 2 QALY = quality adjusted life year,

3 Table 40: Comparison of incremental costs, quality adjusted life years and incremental

4 cost effectiveness ratios of emergency caesarean section compared to

5 continuation of labour for women in labour with a suspected large-for-

- 6 gestational-age baby - anal and urinary incontinence excluded from the
- 7 model (deterministic analysis)

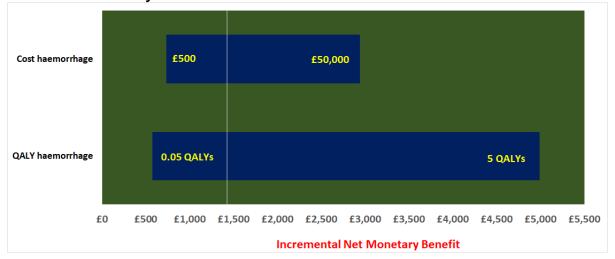
		<i>jeiej</i>		
Analysis birthweight	Incremental costs of emergency CS	Incremental QALYs of emergency CS	ICER	iNMB
Brachial plexus injury ≥4000g	£567	0.051	£11,029 per QALY	£461
Brachial plexus injury 4000-4499g	£572	0.049	£11,718 per QALY	£404
Brachial plexus injury 4500-4999g	£553	0.059	£9,383 per QALY	£626
Brachial plexus injury ≥5000g	£489	0.096	£5,108 per QALY	£1,425

8 CS = caesarean section, ICER = incremental cost effectiveness ratio; iNMB = incremental net monetary benefit, 9 QALY = quality adjusted life year

10 A Tornado analysis displayed in Figure 25 demonstrated the impact of varying the cost and

11 QALY loss from haemorrhage with urinary and anal incontinence excluded from the analysis.

Figure 25: Tornado diagram indicating how the net monetary benefit of emergency caesarean section compared with continuation of labour changes in response to changes in the input parameters of selected variables – anal and urinary incontinence excluded from the model



Sensitivity analysis restricting model outcomes to brachial plexus injuries and 2 intracranial haemorrhage

3 This sensitivity analysis was restricted to outcomes for which there was different baseline

4 and treatment effectiveness data according to birthweight (that is, brachial plexus injuries

5 and intracranial haemorrhage). The probabilistic analysis is shown in Table 41 and Figure 26

- 6 shows the CEAC for the analysis for the subgroup of babies with a birthweight of at least
- 7 5000 g. The deterministic results for this sensitivity analysis are presented in Table 42.

8 Table 41: Mean incremental costs, quality adjusted life years and ne monetary benefit

9 10 11

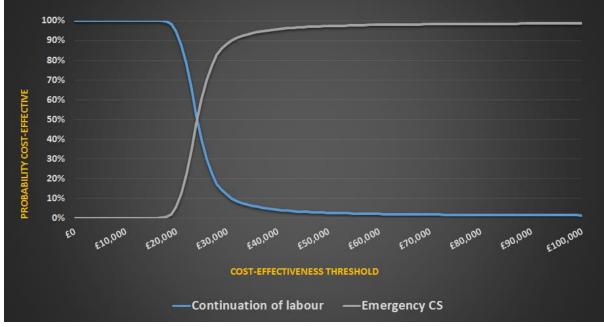
of emergency caesarean section compared to continuation of labour for women in labour with a suspected large for gestational age baby – model outcomes restricted to brachial plexus injuries and intracranial haemorrhage

Analysis birthweight	Mean incremental costs of emergency CS	Mean incremental QALYs of emergency CS	Mean iNMB	Probability cost effective	ICER
Brachial plexus injury ≥4000g	£1,264	0.007	-£1,133	0.00%	£192,624 per QALY
Brachial plexus injury 4000-4499g	£1,272	0.004	-£1,194	0.00%	£329,619 per QALY
Brachial plexus injury 4500-4999g	£1,253	0.014	-£980	0.00%	£91,573 per QALY

Analysis birthweight	Mean incremental costs of emergency CS	Mean incremental QALYs of emergency CS	Mean iNMB	Probability cost effective	ICER
Brachial plexus injury ≥5000ɑ	£1,208	0.048	-£254	5.1%	£25,316 Per QALY

1 CS = caesarean section, QALY = quality adjusted life year, iNMB = incremental net monetary benefit

Figure 26: Cost effectiveness acceptability curve for women with a large-forgestational-age baby ≥ 5000 g



2 Table 42: Comparison of incremental costs, quality adjusted life years and incremental
 3 cost effectiveness ratios of emergency caesarean section compared to

4

continuation of labour for women in labour with a suspected large-forgestational-age baby – model outcomes restricted to brachial plexus injuries

5 6

and intracranial haemorrhage

Analysis birthweight	Incremental costs of emergency CS	Incremental QALYs of emergency CS	ICER	iNMB
Brachial plexus injury ≥4000g	£1,269	0.006	£215,323 per QALY	-£1,151
Brachial plexus injury 4000-4499g	£1,275	0.003	£404,336 per QALY	-£1,211
Brachial plexus injury 4500-4999g	£1,255	0.014	£92,709 per QALY	-£984
Brachial plexus injury ≥5000g	£1,185	0.051	£23,172 per QALY	-£162

1 ICER = incremental cost effectiveness ratio; iNMB = incremental net monetary benefit

Discussion

3 The clinical evidence which informed this analysis has important limitations. Ideally the

- 4 clinical data for this analysis would be underpinned by a randomised study design where
- 5 women in labour with a suspected large-for-gestational-age baby would be randomised to
- 6 continue with labour or to have an emergency caesarean section. Such a randomised study

7 would represent the decision that is being assessed in this economic evaluation.

8 However, in the context of the intrapartum period such randomisation is unlikely ever to be
9 feasible. Therefore the included studies were retrospective and compared the outcomes of
10 women who had an emergency caesarean section with those who continued with labour.
11 Such studies are at a high risk of bias as women who have an emergency caesarean section
12 might have an indication for operative birth unrelated to any suspicion of the baby being large
13 for gestational age. Therefore, the women are likely as a population to differ systematically
14 from those who continue with labour. In addition, the included studies reflect outcomes based
15 on eventual birthweight rather than a suspicion of large for gestational age. A clinical
16 diagnosis of large for gestational age is inaccurate and in reality the baby will frequently not
17 be large for gestational age. Conversely, in many cases where the baby is large for
18 gestational age and a birth complication arises, a clinical diagnosis of large for gestational
19 age will not be suspected, although that population was not considered by this analysis.

20 The base-case analysis suggests that it would be cost effective to offer emergency 21 caesarean section to women in labour with a suspected large-for-gestational-age baby. The 22 deterministic analysis (see Table 38) suggests that emergency caesarean section dominates 23 continuation of labour, being cheaper and more effective, and that this is true for all 24 birthweight subgroups. As expected, the deterministic analysis also shows that cost 25 effectiveness as measured by iNMB increases with increasing birthweight. However, the 26 gradient of this effect is very small. Even in the subgroup where babies had a birthweight of 27 less than 4500 g, the iNMB was £76,620 and almost as high as in the subgroup where 28 babies had a birthweight of at least 5000 g. This is likely to be explained by the importance 29 that the outcomes of anal and urinary incontinence have in driving the overall cost 30 effectiveness results as shown in the Tornado analysis (see Figure 22) and the sensitivity 31 analysis which excluded both outcomes. In the model, neither baseline probability or relative 32 treatment effect for anal and urinary incontinence were varied according to birthweight. 33 Therefore the large absolute impact of anal and urinary incontinence in the analysis was not 34 modified by birthweight and dwarfs any absolute effect of brachial plexus injury and ICH for 35 which the risks are differentiated by birthweight categories.

The PSA for the base-case analysis also suggests that emergency caesarean section is cost effective compared to continuation of labour for women with a suspected large-for-gestational-age baby (see Table 37). Across all subgroups the probability of emergency caesarean section being cost effective is over 99% with a similar iNMB to that found in the deterministic analysis. However, it is less clear in the PSA that the cost effectiveness of emergency caesarean section increases as the birthweight of the baby increases. This is counter-intuitive but is probably explained by the wide CIs for treatment effects, especially for the subgroup analysis, which resulted in the occasional sampling of extreme outliers in terms of relative treatment effect.

45 A sensitivity analysis was undertaken which excluded urinary and anal incontinence46 outcomes from the analysis. The committee had reservations about these outcomes. In

particular, they questioned the extent to which it can be assumed that these outcomes would
 relate to a bladder or bowel injury. The base-case analysis indicated that these outcomes
 were key drivers of the results and dwarfed any effects for other outcomes arising from
 birthweight. The probabilistic analysis for this scenario is reported in Table 39 and the
 deterministic results are shown in Table 40. The analysis continues to show that emergency
 caesarean section is cost effective. However, it no longer dominates continuation of labour
 and the iNMB is hugely reduced. Both deterministic and probabilistic analyses indicate
 increasing cost effectiveness with larger birthweight.

9 A final sensitivity analysis was restricted to the outcomes of brachial plexus injury and ICH,
10 as both of these had baseline probabilities and treatment effect sizes differentiated by
11 birthweight categories. This sensitivity analysis suggested that continuation of labour could
12 be cost effective (see Table 41). It also showed that the benefits, and cost effectiveness, of
13 emergency caesarean section increased with increasing birthweight. Although the probability
14 of emergency caesarean section being cost effective was only 5.1% even for babies of a
15 birthweight greater than or equal to 5000 g, the CEAC depicted in Figure 26 shows that this
16 result was very sensitive to the cost effectiveness threshold in the region of £20,000 to
17 £30,000 per QALY.

There are many important limitations in the data underpinning this model and therefore considerable caution should be exercised when interpreting the results. The costs of many of the outcomes were derived from US sources and may not necessarily be generalisable to the NHS. For example, Pourat (2013) in their analysis of the costs of maternal haemorrhage note that, while costs are estimated by the agreed per diem rates with private hospitals, actual expenditure will depend on the mix of public-private hospitals as well as variations in practice. In their analysis, the estimate of the cost of a vaginal birth without maternal haemorrhage is \$4,504 at 2011 prices. In 2016/17 UK prices this is approximately £3,500, which is higher than the NHS equivalent (see Table 34) although not by a great amount. The costs involved in treating haemorrhage can vary substantially according to severity. When the haemorrhage is not severe, management options may include bed rest, tocolysis, corticosteroids and blood transfusion. For severe haemorrhage arterial ligation, uterine rupture repair or hysterectomy may be required.

Outcomes are based on women who had an emergency caesarean section and in whom an option of continuation of labour was likely to be contraindicated. For this reason, it might be expected that the outcomes of emergency caesarean section would be worse than they would be for women having emergency caesarean section with no medical or obstetric indication other than a suspected large-for-gestational-age baby. On the other hand, the outcomes data for emergency caesarean section are based on eventual birthweight rather than a suspicion of large for gestational age. Large for gestational age can only be determined after the birth and the American College of Obstetricians and Gynaecologists (ACOG 2016) has commented that fetal macrosomia cannot be accurately diagnosed. Therefore, in a decision making context during labour a proportion of women suspected of having a large-for-gestational-age baby would have a baby that was subsequently found not to be large for gestational age. Therefore, the outcomes associated with eventual birthweight are likely to be worse than where a large-for-gestational-age-baby is only suspected. For this reason the model may over-estimate the benefits of emergency caesarean section.

The model analysis was, for pragmatic reasons, limited to the outcomes reported in the
evidence reviewed for this guideline. However, many other outcomes which were not
included could be affected by mode of birth. The disadvantages of caesarean section on the
outcomes of a future pregnancy, for example, were not included. This limitation may give rise

1 to doubts about the apparently overwhelming cost effectiveness of emergency caesarean 2 section in the base-case analysis, even when the birthweight is less than 4500 g. It has 3 already been noted that the committee had certain reservations with respect to the inclusion 4 of urinary and anal incontinence outcomes. While the baseline risks of urinary and anal 5 incontinence used in the model are not inconsistent with other published literature (such as 6 Thom 2010, Guise 2007) the model does assume that the incontinence is lifelong while the 7 natural history of these conditions suggests that for at least some women this will not be the 8 case. Also, the QALY losses and costs used for these outcomes seem likely to reflect more 9 severe incontinence which has a much lower prevalence than infrequent incontinence, would 11 suggest that the costs reflect treatment which would be expected to ameliorate symptoms 12 and improve HRQoL and so high rates for costs and QALYs may overstate the potential cost 13 reduction or improvement in HRQoL that could result from the decision to perform an 14 emergency caesarean section.

1Conclusion

16 The results of this model provide sufficient cost effectiveness support for the committee's

17 recommendation to offer women in labour with a suspected large-for-gestational-age baby a

18 choice between continuing in labour (including augmented labour) and caesarean section.

19 The results do suggest that the cost effectiveness of operative birth is likely to increase with

20 larger birthweight. However, limitations in the data mean that it is not possible to estimate a

21 particular (estimated) birthweight threshold for which caesarean section would be the

22 preferred mode of birth.

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20 Historic cohort study on mode of delivery of a macrosomic baby: the women's point of view.

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preeclampsia, eclampsia, and gestational hypertension, United States, 1987-2004. Am J
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26 Wang 2012

Wang, Q., Yin, C., & Wang, T. L., Ultrasound facilitates identification of combined spinalepidural puncture in obese parturients. Chinese Medical Journal, 125(21), 3840-3843, 2012

29 Whynes 2013

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31 G., Responsiveness of the EQ-5D health-related quality-of-life instrument in assessing low 32 back pain. Value Health, 16(1), 124-132, 2013

33 WHO 2011

34 World Health Organization, WHO recommendations for prevention and treatment of pre-

35 eclampsia and eclampsia, Switzerland, 2011

36

1 Appendices

Appendix A – Literature search strategies

Bealth economics global search for women at high risk of adverse outcomes for 4 themselves and/or their baby because of existing maternal medical conditions

Batabases: Medline; Medline EPub Ahead of Print; and Medline In-Process & Other Non-	
6 Indexed Citations	

#	Searches
1	cost:.mp.
2	cost benefit analys:.mp.
3	health care costs.mp.
4	or/1-3
5	PREGNANCY/
6	PERIPARTUM PERIOD/
7	PARTURITION/
8	exp LABOR, OBSTETRIC/
9	OBSTETRIC LABOR, PREMATURE/
10	pregnan\$.ti,ab.
11	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.
12	((during or giving or give) adj3 birth?).ti,ab.
13	or/5-12
14	*OBESITY/ or *OBESITY, ABDOMINAL/ or *OBESITY, MORBID/
15	*BODY MASS INDEX/ or *BODY SIZE/ or *OVERWEIGHT/ or *WAIST CIRCUMFERENCE/ or *WAIST-HIP RATIO/
16	body mass index.ti.
17	(obesity or obese or heavy or heavier or overweight or fat\$ or BMI).ti.
18	*ADIPOSE TISSUE/ or *ADIPOSE TISSUE, WHITE/
19	or/14-18
20	exp ASTHMA/
21	asthma\$.ti,ab.
22	BRONCHIAL SPASM/
23	(Bronchospasm? or bronch\$ spasm?).ti,ab.
24	BRONCHOCONSTRICTION/
25	(Bronchoconstrict\$ or bronch\$ constrict\$).ti,ab.
26	or/20-25
27	INTRACRANIAL HEMORRHAGES/
28	SUBARACHNOID HEMORRHAGE/
29	(h?emorrhag\$ adj3 (subarachnoid or intracranial\$)).ab,ti.
30	SAH?.ab,ti.
31	INTRACRANIAL ARTERIOVENOUS MALFORMATIONS/

щ	Convehoe
#	Searches
32	((Intracranial\$ or cerebr\$ or brain?) adj5 (arteriovenous or arterio-venous) adj3 malform\$).ab,ti.
33	(cerebr\$ adj3 malform\$).ab,ti.
34	AVM?.ab,ti.
35	(recurr\$ adj3 h?emorrhag\$).ti,ab.
36	(Cerebr\$ adj3 accident?).ti,ab.
37	cva.ti,ab.
38	HEMIPLEGIA/
39	hemiplegia?.ti,ab.
40	cavernoma?.ti,ab.
41	or/27-40
42	exp STEROIDS/
43	exp ADRENAL CORTEX HORMONES/
44	PREDNISONE/
45	exp PREDNISOLONE/
46	exp HYDROCORTISONE/
47	exp DEXAMETHASONE/
48	or/42-47
49	((stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$) adj3 (dose? or dosag\$)).ti,ab.
50	((Temporar\$ or short term or physiological\$) adj3 increase\$).ti,ab.
51	or/49-50
52	48 and 51
53	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$ or replace\$ or regimen\$ or long term)).mp.
54	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (high\$ adj2 (dose? or level?))).mp.
55	or/52-54
56	exp RENAL INSUFFICIENCY, CHRONIC/
57	((Renal\$ or kidney?) adj5 (disease? or insuffic\$ or fail\$) adj5 (chronic\$ or end-stage?)).ab,ti.
58	CKD.ab,ti.
59	ESRD.ab,ti.
60	Frasier syndrome.ti,ab.
61	exp ACUTE KIDNEY INJURY/
62	((Renal\$ or kidney?) adj5 (injur\$ or insuffic\$ or fail\$) adj5 acute\$).ab,ti.
63	(Kidney adj5 tubular necrosis adj5 acute\$).ab,ti.
64	(Nephrosis adj5 nephron adj5 lower).ab,ti.
65	AKI.ab,ti.
66	KIDNEY TRANSPLANTATION/
67	((kidney? or renal\$) adj3 (transplant\$ or graft\$)).ti,ab.

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

F Searches 68 or/56-67 69 PULMONARY VALVE STENOSIS/ 70 (pulmonary adj2 stenos\$), ti,ab. 71 DUCTUS ARTERIOSUS, PATENT/ 72 (Paten§ adj2 ductus arteriosus), ti,ab. 73 MITRAL VALVE PROLAPSE/ 74 (mitral valve? adj2 (prolapse? or floppy)), ti,ab. 75 click murmur syndrome?, ti,ab. 76 (Repairš adj3 lesion? adj3 (heart? or cardiac)), ti,ab. 76 ((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$), ti,ab. 76 (persistš adj2 ostium primum), ti,ab. 81 anomal\$ pulmonary venous drain\$, ti,ab. 82 exp CARDIAC COMPLEXES, PREMATURE/ 83 ((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complec?)), ti,ab. 84 ((Atrial or ventricular) adj2 extrasystole?), ti,ab. 85 "TERALOGY OF FALLOT'su [Surgery] 86 (arrhythmia? or dysrhythmia?), ti,ab. 87 ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?), ti,ab. 99 *ARRHYTHMIAS, CARDIAC/ 89 (Atrial		
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78 HEART SEPTAL DEFECTS, VENTRICULAR/ 79 ((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).ti,ab. 80 (persist\$ adj2 ostium primum).ti,ab. 81 anomal\$ pulmonary venous drain\$.ti,ab. 82 exp CARDIAC COMPLEXES, PREMATURE/ 83 ((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab. 84 ((Atrial or ventricular) adj2 extrasystole?).ti,ab. 85 "TETRALOGY OF FALLOT"/su [Surgery] 86 (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarthythmia?).ti,ab. 91 Brugada Syndrome.ti,ab. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Kventricular adj2 (Fibrillation or Flutter)).ti,ab. 97 Tachycardia? ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100	76	(Repair\$ adj3 lesion? adj3 (heart? or cardiac)).ti,ab.
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 anomal\$ pulmonary venous drain\$.ti,ab. exp CARDIAC COMPLEXES, PREMATURE/ ((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab. ((Atrial or ventricular) adj2 extrasystole?).ti,ab. "TETRALOGY OF FALLOT"/su [Surgery] (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. exp *ARRHYTHMIAS, CARDIAC/ (arrhythmia? or dysrhythmia?).ti,ab. (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Bradycardia? or bradyarrhythmia?).ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Heart Block.ti,ab. Long QT Syndrome.ti,ab. Pre-Excitation Syndrome?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. (Marfan\$ adj2 syndrome).ti,ab. 	79	((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).ti,ab.
82 exp CARDIAC COMPLEXES, PREMATURE/ 83 ((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab. 84 ((Atrial or ventricular) adj2 extrasystole?).ti,ab. 85 "TETRALOGY OF FALLOT"/su [Surgery] 86 (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab. 91 Brugada Syndrome.ti,ab. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab.	80	(persist\$ adj2 ostium primum).ti,ab.
 Katrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab. ((Atrial or ventricular) adj2 extrasystole?).ti,ab. "TETRALOGY OF FALLOT"/su [Surgery] (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. exp *ARRHYTHMIAS, CARDIAC/ (arrhythmia? or dysrhythmia?).ti,ab. (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Bradycardia? or bradyarrhythmia?).ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. (Ventricular adj2 (atrial or ventricular) adj2 contraction?).ti,ab. (Ventricular adj2 (fibrillation or Flutter)).ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. (Mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. (Marfan\$ adj2 syndrome).ti,ab. (Marfan\$ adj2 syndrome).ti,ab. 	81	anomal\$ pulmonary venous drain\$.ti,ab.
or complice?)).ti,ab.84((Atrial or ventricular) adj2 extrasystole?).ti,ab.85"TETRALOGY OF FALLOT"/su [Surgery]86(tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab.87exp *ARRHYTHMIAS, CARDIAC/88(arrhythmia? or dysrhythmia?).ti,ab.89(Atrial adj2 (Fibrillation or Flutter)).ti,ab.90(Bradycardia? or bradyarrhythmia?).ti,ab.91Brugada Syndrome.ti,ab.92(premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab.93Heart Block.ti,ab.94Long QT Syndrome.ti,ab.95Parasystole.ti,ab.96Pre-Excitation Syndrome?.ti,ab.97Tachycardia?.ti,ab.98(Ventricular adj2 (Fibrillation or Flutter)).ti,ab.99exp CARDIOMYOPATHY, HYPERTROPHIC/100(Hypertrophic adj2 cardiomyopath\$).ti,ab.101AORTIC VALVE INSUFFICIENCY/102MITRAL VALVE INSUFFICIENCY/103((mitral or aort\$) adj2 regurg\$ or incompeten\$)).ti,ab.104((mitral or aort\$) adj2 regurg\$ or incompeten\$)).ti,ab.105MARFAN SYNDROME/106(Marfan\$ adj2 syndrome).ti,ab.	82	exp CARDIAC COMPLEXES, PREMATURE/
 *TETRALOGY OF FALLOT"/su [Surgery] (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. exp *ARRHYTHMIAS, CARDIAC/ (arrhythmia? or dysrhythmia?).ti,ab. (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Bradycardia? or bradyarrhythmia?).ti,ab. Brugada Syndrome.ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Heart Block.ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$.ti,ab. MARFAN SYNDROME/ (Marfan\$ adj2 syndrome).ti,ab. 	83	
 86 (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab. 91 Brugada Syndrome.ti,ab. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 	84	((Atrial or ventricular) adj2 extrasystole?).ti,ab.
 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab. 91 Brugada Syndrome.ti,ab. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	85	"TETRALOGY OF FALLOT"/su [Surgery]
 (arrhythmia? or dysrhythmia?).ti,ab. (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Bradycardia? or bradyarrhythmia?).ti,ab. Brugada Syndrome.ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Heart Block.ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. Pre-Excitation Syndrome?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. MARFAN SYNDROME/ (Marfan\$ adj2 syndrome).ti,ab. 	86	(tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab.
 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. (Bradycardia? or bradyarrhythmia?).ti,ab. Brugada Syndrome.ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Heart Block.ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. Pre-Excitation Syndrome?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ (mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. (Marfan\$ adj2 valv\$ adj2 insufficien\$).ti,ab. 	87	exp *ARRHYTHMIAS, CARDIAC/
 90 (Bradycardia? or bradyarrhythmia?).ti,ab. 91 Brugada Syndrome.ti,ab. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	88	(arrhythmia? or dysrhythmia?).ti,ab.
 Brugada Syndrome.ti,ab. (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. Heart Block.ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. Tachycardia?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ MITRAL VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. MARFAN SYNDROME/ (Marfan\$ adj2 syndrome).ti,ab. 	89	(Atrial adj2 (Fibrillation or Flutter)).ti,ab.
 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 93 Heart Block.ti,ab. 94 Long QT Syndrome.ti,ab. 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	90	(Bradycardia? or bradyarrhythmia?).ti,ab.
 Heart Block.ti,ab. Long QT Syndrome.ti,ab. Parasystole.ti,ab. Pre-Excitation Syndrome?.ti,ab. Tachycardia?.ti,ab. (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. exp CARDIOMYOPATHY, HYPERTROPHIC/ (Hypertrophic adj2 cardiomyopath\$).ti,ab. AORTIC VALVE INSUFFICIENCY/ MITRAL VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. MARFAN SYNDROME/ (Marfan\$ adj2 syndrome).ti,ab. 	91	Brugada Syndrome.ti,ab.
94Long QT Syndrome.ti,ab.95Parasystole.ti,ab.96Pre-Excitation Syndrome?.ti,ab.97Tachycardia?.ti,ab.98(Ventricular adj2 (Fibrillation or Flutter)).ti,ab.99exp CARDIOMYOPATHY, HYPERTROPHIC/100(Hypertrophic adj2 cardiomyopath\$).ti,ab.101AORTIC VALVE INSUFFICIENCY/102MITRAL VALVE INSUFFICIENCY/103((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab.104((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab.105MARFAN SYNDROME/106(Marfan\$ adj2 syndrome).ti,ab.	92	(premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab.
 95 Parasystole.ti,ab. 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	93	Heart Block.ti,ab.
 96 Pre-Excitation Syndrome?.ti,ab. 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	94	Long QT Syndrome.ti,ab.
 97 Tachycardia?.ti,ab. 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	95	Parasystole.ti,ab.
 98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab. 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	96	Pre-Excitation Syndrome?.ti,ab.
 99 exp CARDIOMYOPATHY, HYPERTROPHIC/ 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	97	Tachycardia?.ti,ab.
 100 (Hypertrophic adj2 cardiomyopath\$).ti,ab. 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	98	(Ventricular adj2 (Fibrillation or Flutter)).ti,ab.
 101 AORTIC VALVE INSUFFICIENCY/ 102 MITRAL VALVE INSUFFICIENCY/ 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	99	exp CARDIOMYOPATHY, HYPERTROPHIC/
 MITRAL VALVE INSUFFICIENCY/ ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. MARFAN SYNDROME/ (Marfan\$ adj2 syndrome).ti,ab. 	100	(Hypertrophic adj2 cardiomyopath\$).ti,ab.
 103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab. 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	101	AORTIC VALVE INSUFFICIENCY/
 104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab. 105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab. 	102	MITRAL VALVE INSUFFICIENCY/
105 MARFAN SYNDROME/ 106 (Marfan\$ adj2 syndrome).ti,ab.	103	((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab.
106 (Marfan\$ adj2 syndrome).ti,ab.	104	((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab.
	105	MARFAN SYNDROME/
107 exp AORTIC DISEASES/	106	(Marfan\$ adj2 syndrome).ti,ab.
	107	exp AORTIC DISEASES/

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
108	(aort\$ adj2 (disease? or aneurysm? or ruptur\$)).ti,ab.
109	Aortitis.ti,ab.
110	Loeys-Dietz Syndrome.ti,ab.
111	Leriche Syndrome.ti,ab.
112	AORTIC COARCTATION/su [Surgery]
113	(Coarctation? adj10 (repair\$ or surgery)).ti,ab.
114	HEART VALVE PROSTHESIS/
115	((heart or cardiac) adj3 valve? adj5 (prosthe\$ or mechanical or replace\$)).ti,ab.
116	"TRANSPOSITION OF GREAT VESSELS"/
117	(Transpos\$ adj2 great adj2 (vessels or arteries)).ti,ab.
118	FONTAN PROCEDURE/
119	(Fontan\$ adj2 (circulat\$ or procedure?)).ti,ab.
120	exp CORONARY DISEASE/
121	(Coronary adj2 (disease? or aneurysm? or arterioscleros?s or occlusion? or stenos?s or restenos?s or thrombos?s or vasospasm?)).ti,ab.
122	*HEART DEFECTS, CONGENITAL/
123	Cyanotic heart disease?.ti,ab.
124	(complex\$ adj10 congenital\$ heart disease?).ti,ab.
125	*PULMONARY HYPERTENSION/
126	(Pulmonary adj2 arter\$ adj2 hypertens\$).ti,ab.
127	exp VENTRICULAR DYSFUNCTION/
128	((left or right) adj2 ventric\$ adj2 (impair\$ or systemic\$ or dysfuncti\$)).ti,ab.
129	(systemic\$ adj2 ventric\$ adj2 dysfuncti\$).ti,ab.
130	exp *CARDIOMYOPATHIES/ and TIME FACTORS/
131	(previous\$ adj5 cardiomyopath\$).ti,ab.
132	MITRAL VALVE STENOSIS/
133	(mitral adj2 stenos?s).ti,ab.
134	exp AORTIC VALVE STENOSIS/
135	(aort\$ adj2 stenos?s).ti,ab.
136	AORTIC COARCTATION/
137	(Coarctation? adj3 aort\$).ti,ab.
138	or/69-137
139	exp CARDIOMYOPATHIES/
140	cardiomyopath\$.ti,ab.
141	myocardiopath\$.ti,ab.
142	myocardial disease?.ti,ab.
143	PPCM.ti,ab.
144	Arrhythmogenic Right Ventricular Dysplasia.ti,ab.
145	Endocardial Fibroelastos?s.ti,ab.
146	(Isolated Noncompaction adj3 Ventricular Myocardium).ti,ab.
147	Endomyocardial Fibros?s.ti,ab.

#	Searches
148	(Glycogen Storage Disease adj3 (Type IIb or type 2b)).ti,ab.
149	((antopol or danon) adj2 disease?).ti,ab.
150	(Kearn\$ adj3 Syndrome).ti,ab.
151	Myocardial Reperfusion Injur\$.ti,ab.
152	Myocarditi\$.ti,ab.
153	Carditis.ti,ab.
154	Sarcoglycanopath\$.ti,ab.
155	or/139-154
156	exp BLOOD PLATELET DISORDERS/
157	(Blood Platelet Disorder? or Bernard-Soulier Syndrome or Gray Platelet Syndrome or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or Thrombasthenia or Thrombocytopeni\$ or Jacobsen Distal 11q Deletion Syndrome or Kasabach-Merritt Syndrome or Thrombotic Microangiopath\$ or Hemolytic-Uremic Syndrome or (Purpura adj3 Thrombocytopeni\$) or Glanzmann\$ thrombastenia).ti,ab.
158	HELLP SYNDROME/
159	HELLP.ti,ab.
160	HEMOLYTIC-UREMIC SYNDROME/
161	hemolytic uremic syndrome.ti,ab.
162	LUPUS ERYTHEMATOSUS, SYSTEMIC/
163	systemic lupus erythematosus.ti,ab.
164	ANTIPHOSPHOLIPID SYNDROME/
165	((antiphospholipid or anti-phospholipid) adj3 syndrome?).ti,ab.
166	Evans syndrome.ti,ab.
167	(Platelet adj3 (Disorder? or dysfunction\$) adj10 (infect\$ or human immunodeficiency virus\$ or HIV or parvovirus or (Drug adj3 (relat\$ or due or induced)) or Liver disease?)).ti,ab.
168	(Bone marrow suppression or myelotoxic\$ or myelosuppression).ti,ab.
169	exp HEMORRHAGIC DISORDERS/
170	(Hemorrhagic Disorder? or Afibrinogenemia or Bernard-Soulier Syndrome or Disseminated Intravascular Coagulation or Factor V Deficien\$ or Factor VII Deficien\$ or Factor X Deficien\$ or Factor XI Deficien\$ or Factor XII Deficien\$ or Factor XIII Deficien\$ or H?emophilia? or Hemostatic Disorder? or Cryoglobulinemia or Ehlers-Danlos Syndrome or (Hemangioma? adj3 Cavernous) or Multiple Myeloma or Pseudoxanthoma Elasticum or (Purpura adj3 Hyperglobulinemic) or (Purpura adj3 Schoenlein-Henoch) or Scurvy or Shwartzman Phenomenon or (Telangiectasia adj3 Heredit\$) or Waldenstrom Macroglobulinemia or Hypoprothrombinemia? or (Prothrombin adj3 Deficien\$) or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or (Purpura adj3 Thrombocytopeni\$) or Thrombasthenia or Thrombocythemia or Vitamin K Deficien\$ or von Willebrand Disease? or Waterhouse- Friderichsen Syndrome or Wiskott-Aldrich Syndrome or (Fibrinogen adj3 Deficien\$) or Dysfibrinogenemia or Hypofibrinogenemia).ti,ab.
171	exp BLOOD COAGULATION DISORDERS, INHERITED/
172	((Blood Coagulation Disorder? adj3 Inherit\$) or Activated Protein C Resistan\$ or Antithrombin III Deficien\$ or Protein C Deficien\$).ti,ab.
173	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
174	or/156-173
175	19 or 26 or 41 or 55 or 68 or 138 or 155 or 174

#	Searches
176	13 and 175
177	PREGNANCY, HIGH-RISK/
178	(pregnan\$ adj3 high\$ adj3 risk\$).ab,ti.
179	(pregnan\$ adj10 (exist\$ or preexist\$) adj5 condition?).ab,ti.
180	or/177-179
181	PREGNANCY COMPLICATIONS, CARDIOVASCULAR/
182	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
183	176 or 180 or 181 or 182
184	limit 183 to english language
185	LETTER/
186	EDITORIAL/
187	NEWS/
188	exp HISTORICAL ARTICLE/
189	ANECDOTES AS TOPIC/
190	COMMENT/
191	CASE REPORT/
192	(letter or comment*).ti.
193	or/185-192
194	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
195	193 not 194
196	ANIMALS/ not HUMANS/
197	exp ANIMALS, LABORATORY/
198	exp ANIMAL EXPERIMENTATION/
199	exp MODELS, ANIMAL/
200	exp RODENTIA/
201	(rat or rats or mouse or mice).ti.
202	or/195-201
203	184 not 202
204	4 and 203

Database: Cochrane Central Register of Controlled Trials

#	Searches
1	cost:.mp.
2	cost benefit analys:.mp.
3	health care costs.mp.
4	or/1-3
5	PREGNANCY/
6	PERIPARTUM PERIOD/
7	PARTURITION/
8	exp LABOR, OBSTETRIC/
9	OBSTETRIC LABOR, PREMATURE/

	Searches
	pregnan\$.ti,ab,kw.
	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab,kw.
	((during or giving or give) adj3 birth?).ti,ab.
	or/5-12
	*OBESITY/ or *OBESITY, ABDOMINAL/ or *OBESITY, MORBID/
	*BODY MASS INDEX/ or *BODY SIZE/ or *OVERWEIGHT/ or *WAIST CIRCUMFERENCE/ or *WAIST-HIP RATIO/
	body mass index.ti.
	(obesity or obese or heavy or heavier or overweight or fat\$ or BMI).ti.
	*ADIPOSE TISSUE/ or *ADIPOSE TISSUE, WHITE/
19	or/14-18
	exp ASTHMA/
	asthma\$.ti,ab,kw.
22	BRONCHIAL SPASM/
23	(Bronchospasm? or bronch\$ spasm?).ti,ab,kw.
24	BRONCHOCONSTRICTION/
25	(Bronchoconstrict\$ or bronch\$ constrict\$).ti,ab,kw.
26	or/20-25
27	INTRACRANIAL HEMORRHAGES/
28	SUBARACHNOID HEMORRHAGE/
29	(h?emorrhag\$ adj3 (subarachnoid or intracranial\$)).ab,ti.
30	SAH?.ab,ti.
31	INTRACRANIAL ARTERIOVENOUS MALFORMATIONS/
32	((Intracranial\$ or cerebr\$ or brain?) adj5 (arteriovenous or arterio-venous) adj3 malform\$).ab,ti.
33	(cerebr\$ adj3 malform\$).ab,ti.
34	AVM?.ab,ti.
35	(recurr\$ adj3 h?emorrhag\$).ti,ab.
36	(Cerebr\$ adj3 accident?).ti,ab.
37	cva.ti,ab.
38	HEMIPLEGIA/
39	hemiplegia?.ti,ab,kw.
40	cavernoma?.ti,ab,kw.
41	or/27-40
42	exp STEROIDS/
43	exp ADRENAL CORTEX HORMONES/
44	PREDNISONE/
45	exp PREDNISOLONE/
46	exp HYDROCORTISONE/
47	exp DEXAMETHASONE/
48	or/42-47

#	Searches
49	((stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$) adj3 (dose? or dosag\$)).ti,ab.
50	((Temporar\$ or short term or physiological\$) adj3 increase\$).ti,ab.
51	or/49-50
52	48 and 51
53	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$ or replace\$ or regimen\$ or long term)).mp.
54	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (high\$ adj2 (dose? or level?))).mp.
55	or/52-54
56	exp RENAL INSUFFICIENCY, CHRONIC/
57	((Renal\$ or kidney?) adj5 (disease? or insuffic\$ or fail\$) adj5 (chronic\$ or end-stage?)).ab,ti.
58	CKD.ab,ti.
59	ESRD.ab,ti.
60	Frasier syndrome.ti,ab,kw.
61	exp ACUTE KIDNEY INJURY/
62	((Renal\$ or kidney?) adj5 (injur\$ or insuffic\$ or fail\$) adj5 acute\$).ab,ti.
63	(Kidney adj5 tubular necrosis adj5 acute\$).ab,ti.
64	(Nephrosis adj5 nephron adj5 lower).ab,ti.
65	AKI.ab,ti.
66	KIDNEY TRANSPLANTATION/
67	((kidney? or renal\$) adj3 (transplant\$ or graft\$)).ti,ab.
68	or/56-67
69	PULMONARY VALVE STENOSIS/
70	(pulmonary adj2 stenos\$).ti,ab.
71	DUCTUS ARTERIOSUS, PATENT/
72	(Paten\$ adj2 ductus arteriosus).ti,ab.
73	MITRAL VALVE PROLAPSE/
74	(mitral valve? adj2 (prolapse? or floppy)).ti,ab.
75	click murmur syndrome?.ti,ab,kw.
76	(Repair\$ adj3 lesion? adj3 (heart? or cardiac)).ti,ab.
77	HEART SEPTAL DEFECTS, ATRIAL/
78	HEART SEPTAL DEFECTS, VENTRICULAR/
79	((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).ti,ab.
80	(persist\$ adj2 ostium primum).ti,ab.
81	anomal\$ pulmonary venous drain\$.ti,ab,kw.
82	exp CARDIAC COMPLEXES, PREMATURE/
83	((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab.
84	((Atrial or ventricular) adj2 extrasystole?).ti,ab.

 # Searches 85 "TETRALOGY OF FALLOT"/su [Surgery] 86 (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab,kw. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw. 91 Brugada Syndrome.ti,ab,kw. 92 (premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab. 	
 86 (tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab. 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab,kw. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw. 91 Brugada Syndrome.ti,ab,kw. 	
 87 exp *ARRHYTHMIAS, CARDIAC/ 88 (arrhythmia? or dysrhythmia?).ti,ab,kw. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw. 91 Brugada Syndrome.ti,ab,kw. 	
 88 (arrhythmia? or dysrhythmia?).ti,ab,kw. 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw. 91 Brugada Syndrome.ti,ab,kw. 	
 89 (Atrial adj2 (Fibrillation or Flutter)).ti,ab. 90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw. 91 Brugada Syndrome.ti,ab,kw. 	
90 (Bradycardia? or bradyarrhythmia?).ti,ab,kw.91 Brugada Syndrome.ti,ab,kw.	
91 Brugada Syndrome.ti,ab,kw.	
93 Heart Block.ti,ab,kw.	
94 Long QT Syndrome.ti,ab,kw.	
95 Parasystole.ti,ab,kw.	
96 Pre-Excitation Syndrome?.ti,ab,kw.	
97 Tachycardia?.ti,ab,kw.	
98 (Ventricular adj2 (Fibrillation or Flutter)).ti,ab.	
99 exp CARDIOMYOPATHY, HYPERTROPHIC/	
100 (Hypertrophic adj2 cardiomyopath\$).ti,ab.	
101 AORTIC VALVE INSUFFICIENCY/	
102 MITRAL VALVE INSUFFICIENCY/	
103 ((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab.	
104 ((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab.	
105 MARFAN SYNDROME/	
106 (Marfan\$ adj2 syndrome).ti,ab.	
107 exp AORTIC DISEASES/	
108 (aort\$ adj2 (disease? or aneurysm? or ruptur\$)).ti,ab.	
109 Aortitis.ti,ab,kw.	
110 Loeys-Dietz Syndrome.ti,ab,kw.	
111 Leriche Syndrome.ti,ab,kw.	
112 AORTIC COARCTATION/su [Surgery]	
113 (Coarctation? adj10 (repair\$ or surgery)).ti,ab.	
114 HEART VALVE PROSTHESIS/	
115 ((heart or cardiac) adj3 valve? adj5 (prosthe\$ or mechanical or replace\$)).ti,ab.	
116 "TRANSPOSITION OF GREAT VESSELS"/	
117 (Transpos\$ adj2 great adj2 (vessels or arteries)).ti,ab.	
118 FONTAN PROCEDURE/	
119 (Fontan\$ adj2 (circulat\$ or procedure?)).ti,ab.	
120 exp CORONARY DISEASE/	
121 (Coronary adj2 (disease? or aneurysm? or arterioscleros?s or occlusion? or stenos?s or thrombos?s or vasospasm?)).ti,ab.	s or
122 *HEART DEFECTS, CONGENITAL/	
123 Cyanotic heart disease?.ti,ab,kw.	
124 (complex\$ adj10 congenital\$ heart disease?).ti,ab.	

#	Searches
" 125	*PULMONARY HYPERTENSION/
125	
120	(Pulmonary adj2 arter\$ adj2 hypertens\$).ti,ab.
	exp VENTRICULAR DYSFUNCTION/
128	((left or right) adj2 ventric\$ adj2 (impair\$ or systemic\$ or dysfuncti\$)).ti,ab.
129	(systemic\$ adj2 ventric\$ adj2 dysfuncti\$).ti,ab.
130	exp *CARDIOMYOPATHIES/ and TIME FACTORS/
131	(previous\$ adj5 cardiomyopath\$).ti,ab.
132	MITRAL VALVE STENOSIS/
133	(mitral adj2 stenos?s).ti,ab.
134	exp AORTIC VALVE STENOSIS/
135	(aort\$ adj2 stenos?s).ti,ab.
136	AORTIC COARCTATION/
137	(Coarctation? adj3 aort\$).ti,ab.
138	or/69-137
139	exp CARDIOMYOPATHIES/
140	cardiomyopath\$.ti,ab,kw.
141	myocardiopath\$.ti,ab,kw.
142	myocardial disease?.ti,ab,kw.
143	PPCM.ti,ab.
144	Arrhythmogenic Right Ventricular Dysplasia.ti,ab,kw.
145	Endocardial Fibroelastos?s.ti,ab,kw.
146	(Isolated Noncompaction adj3 Ventricular Myocardium).ti,ab.
147	Endomyocardial Fibros?s.ti,ab,kw.
148	(Glycogen Storage Disease adj3 (Type IIb or type 2b)).ti,ab.
149	((antopol or danon) adj2 disease?).ti,ab.
150	(Kearn\$ adj3 Syndrome).ti,ab.
151	Myocardial Reperfusion Injur\$.ti,ab,kw.
152	Myocarditi\$.ti,ab,kw.
153	Carditis.ti,ab,kw.
154	Sarcoglycanopath\$.ti,ab,kw.
155	or/139-154
156	exp BLOOD PLATELET DISORDERS/
157	(Blood Platelet Disorder? or Bernard-Soulier Syndrome or Gray Platelet Syndrome or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or Thrombasthenia or Thrombocytopeni\$ or Jacobsen Distal 11q Deletion Syndrome or Kasabach-Merritt Syndrome or Thrombotic Microangiopath\$ or Hemolytic-Uremic Syndrome or (Purpura adj3 Thrombocytopeni\$) or Glanzmann\$ thrombastenia).ti,ab,kw.
158	HELLP SYNDROME/
159	HELLP.ti,ab.
160	HEMOLYTIC-UREMIC SYNDROME/
161	hemolytic uremic syndrome.ti,ab,kw.
162	LUPUS ERYTHEMATOSUS, SYSTEMIC/

щ	Convehoo
#	Searches
163	systemic lupus erythematosus.ti,ab,kw.
164	ANTIPHOSPHOLIPID SYNDROME/
165	((antiphospholipid or anti-phospholipid) adj3 syndrome?).ti,ab.
166	Evans syndrome.ti,ab,kw.
167	(Platelet adj3 (Disorder? or dysfunction\$) adj10 (infect\$ or human immunodeficiency virus\$ or HIV or parvovirus or (Drug adj3 (relat\$ or due or induced)) or Liver disease?)).ti,ab.
168	(Bone marrow suppression or myelotoxic\$ or myelosuppression).ti,ab,kw.
169	exp HEMORRHAGIC DISORDERS/
170	(Hemorrhagic Disorder? or Afibrinogenemia or Bernard-Soulier Syndrome or Disseminated Intravascular Coagulation or Factor V Deficien\$ or Factor VII Deficien\$ or Factor X Deficien\$ or Factor XI Deficien\$ or Factor XII Deficien\$ or Factor XIII Deficien\$ or H?emophilia? or Hemostatic Disorder? or Cryoglobulinemia or Ehlers-Danlos Syndrome or (Hemangioma? adj3 Cavernous) or Multiple Myeloma or Pseudoxanthoma Elasticum or (Purpura adj3 Hyperglobulinemic) or (Purpura adj3 Schoenlein-Henoch) or Scurvy or Shwartzman Phenomenon or (Telangiectasia adj3 Heredit\$) or Waldenstrom Macroglobulinemia or Hypoprothrombinemia? or (Prothrombin adj3 Deficien\$) or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or (Purpura adj3 Thrombocytopeni\$) or Thrombasthenia or Thrombocythemia or Vitamin K Deficien\$ or von Willebrand Disease? or Waterhouse- Friderichsen Syndrome or Wiskott-Aldrich Syndrome or (Fibrinogen adj3 Deficien\$) or Dysfibrinogenemia or Hypofibrinogenemia).ti,ab,kw.
171	exp BLOOD COAGULATION DISORDERS, INHERITED/
172	((Blood Coagulation Disorder? adj3 Inherit\$) or Activated Protein C Resistan\$ or Antithrombin III Deficien\$ or Protein C Deficien\$).ti,ab.
173	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
174	or/156-173
175	19 or 26 or 41 or 55 or 68 or 138 or 155 or 174
176	13 and 175
177	PREGNANCY, HIGH-RISK/
178	(pregnan\$ adj3 high\$ adj3 risk\$).ab,ti.
179	(pregnan\$ adj10 (exist\$ or preexist\$) adj5 condition?).ab,ti.
180	or/177-179
181	PREGNANCY COMPLICATIONS, CARDIOVASCULAR/
182	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
183	176 or 180 or 181 or 182
40.4	4 1 400

184 4 and 183

Database: NHS Economic Evaluation Database

#	Searches
1	PREGNANCY/
2	PERIPARTUM PERIOD/
3	PARTURITION/
4	exp LABOR, OBSTETRIC/
5	OBSTETRIC LABOR, PREMATURE/
6	pregnan\$.tw.

#	Searches
7	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
8	((during or giving or give) adj3 birth?).tw.
9	or/1-8
10	OBESITY/ or OBESITY, ABDOMINAL/ or OBESITY, MORBID/
11	BODY MASS INDEX/ or BODY SIZE/ or OVERWEIGHT/ or WAIST CIRCUMFERENCE/ or WAIST-HIP RATIO/
12	body mass index.tw.
13	(obesity or obese or heavy or heavier or overweight or fat\$ or BMI).ti.
14	ADIPOSE TISSUE/ or ADIPOSE TISSUE, WHITE/
15	or/10-14
16	exp ASTHMA/
17	asthma\$.tw.
18	BRONCHIAL SPASM/
19	(Bronchospasm? or bronch\$ spasm?).tw.
20	BRONCHOCONSTRICTION/
21	(Bronchoconstrict\$ or bronch\$ constrict\$).tw.
22	or/16-21
23	INTRACRANIAL HEMORRHAGES/
24	SUBARACHNOID HEMORRHAGE/
25	(h?emorrhag\$ adj3 (subarachnoid or intracranial\$)).tw.
26	SAH?.tw.
27	INTRACRANIAL ARTERIOVENOUS MALFORMATIONS/
28	((Intracranial\$ or cerebr\$ or brain?) adj5 (arteriovenous or arterio-venous) adj3 malform\$).tw.
29	(cerebr\$ adj3 malform\$).tw.
30	AVM?.tw.
31	(recurr\$ adj3 h?emorrhag\$).tw.
32	(Cerebr\$ adj3 accident?).tw.
33	cva.tw.
34	HEMIPLEGIA/
35	hemiplegia?.tw.
36	cavernoma?.tw.
37	or/23-36
38	exp STEROIDS/
39	exp ADRENAL CORTEX HORMONES/
40	PREDNISONE/
41	exp PREDNISOLONE/
42	exp HYDROCORTISONE/
43	exp DEXAMETHASONE/
44	or/38-43
45	((stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$) adj3 (dose? or dosag\$)).tw.

#	Searches
46	((Temporar\$ or short term or physiological\$) adj3 increase\$).tw.
47	or/45-46
48	44 and 47
49	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$ or replace\$ or regimen\$ or long term)).mp.
50	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (high\$ adj2 (dose? or level?))).mp.
51	or/48-50
52	exp RENAL INSUFFICIENCY, CHRONIC/
53	((Renal\$ or kidney?) adj5 (disease? or insuffic\$ or fail\$) adj5 (chronic\$ or end-stage?)).tw.
54	CKD.tw.
55	ESRD.tw.
56	Frasier syndrome.tw.
57	KIDNEY FAILURE, ACUTE/
58	((Renal\$ or kidney?) adj5 (injur\$ or insuffic\$ or fail\$) adj5 acute\$).tw.
59	(Kidney adj5 tubular necrosis adj5 acute\$).tw.
60	(Nephrosis adj5 nephron adj5 lower).tw.
61	AKI.tw.
62	KIDNEY TRANSPLANTATION/
63	((kidney? or renal\$) adj3 (transplant\$ or graft\$)).tw.
64	or/52-63
65	PULMONARY VALVE STENOSIS/
66	(pulmonary adj2 stenos\$).tw.
67	DUCTUS ARTERIOSUS, PATENT/
68	(Paten\$ adj2 ductus arteriosus).tw.
69	MITRAL VALVE PROLAPSE/
70	(mitral valve? adj2 (prolapse? or floppy)).tw.
71	click murmur syndrome?.tw.
72	(Repair\$ adj3 lesion? adj3 (heart? or cardiac)).tw.
73	HEART SEPTAL DEFECTS, ATRIAL/
74	HEART SEPTAL DEFECTS, VENTRICULAR/
75	((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).tw.
76	(persist\$ adj2 ostium primum).tw.
77	anomal\$ pulmonary venous drain\$.tw.
78	exp CARDIAC COMPLEXES, PREMATURE/
79	((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).tw.
80	((Atrial or ventricular) adj2 extrasystole?).tw.
81	"TETRALOGY OF FALLOT"/

#	Searches
 82	(tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).tw.
83	exp ARRHYTHMIA/
84	(arrhythmia? or dysrhythmia?).tw.
85	(Atrial adj2 (Fibrillation or Flutter)).tw.
86	(Bradycardia? or bradyarrhythmia?).tw.
87	Brugada Syndrome.tw.
88	(premature adj2 (atrial or ventricular) adj2 contraction?).tw.
89	Heart Block.tw.
90	Long QT Syndrome.tw.
91	Parasystole.tw.
92	Pre-Excitation Syndrome?.tw.
93	Tachycardia?.tw.
94	(Ventricular adj2 (Fibrillation or Flutter)).tw.
95	exp CARDIOMYOPATHY, HYPERTROPHIC/
96	(Hypertrophic adj2 cardiomyopath\$).tw.
97	AORTIC VALVE INSUFFICIENCY/
98	MITRAL VALVE INSUFFICIENCY/
99	((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).tw.
100	((mitral or aort\$) adj2 (regarge of meenpetche)).tw.
101	MARFAN SYNDROME/
102	(Marfan\$ adj2 syndrome).tw.
103	exp AORTIC DISEASES/
104	(aort\$ adj2 (disease? or aneurysm? or ruptur\$)).tw.
105	Aortitis.tw.
106	Loeys-Dietz Syndrome.tw.
107	Leriche Syndrome.tw.
108	AORTIC COARCTATION/
109	(Coarctation? adj10 (repair\$ or surgery)).tw.
110	HEART VALVE PROSTHESIS/
111	((heart or cardiac) adj3 valve? adj5 (prosthe\$ or mechanical or replace\$)).tw.
112	"TRANSPOSITION OF GREAT VESSELS"/
113	(Transpos\$ adj2 great adj2 (vessels or arteries)).tw.
114	FONTAN PROCEDURE/
115	(Fontan\$ adj2 (circulat\$ or procedure?)).tw.
116	exp *CORONARY DISEASE/
117	(Coronary adj2 (disease? or aneurysm? or arterioscleros?s or occlusion? or stenos?s or restenos?s or thrombos?s or vasospasm?)).ti.
118	HEART DEFECTS, CONGENITAL/
119	Cyanotic heart disease?.tw.
120	(complex\$ adj10 congenital\$ heart disease?).tw.
121	PULMONARY HYPERTENSION/

#	Searches
122	(Pulmonary adj2 arter\$ adj2 hypertens\$).tw.
123	exp VENTRICULAR DYSFUNCTION/
124	((left or right) adj2 ventric\$ adj2 (impair\$ or systemic\$ or dysfuncti\$)).tw.
125	(systemic\$ adj2 ventric\$ adj2 dysfuncti\$).tw.
126	exp CARDIOMYOPATHIES/ and TIME FACTORS/
127	(previous\$ adj5 cardiomyopath\$).tw.
128	MITRAL VALVE STENOSIS/
129	(mitral adj2 stenos?s).tw.
130	exp AORTIC VALVE STENOSIS/
131	(aort\$ adj2 stenos?s).tw.
132	AORTIC COARCTATION/
133	(Coarctation? adj3 aort\$).tw.
134	or/65-133
135	exp HEMATOLOGIC DISEASES/
136	(h?ematolog\$ adj3 (disease? or disorder?)).tw.
137	exp BLOOD COAGULATION DISORDERS/
138	(blood adj3 coagula\$ adj3 (disease? or disorder?)).tw.
139	(Coagulation Protein Disorder? or Disseminated Intravascular Coagulation or Ecchymosis or Platelet Storage Pool Deficien\$ or Protein S Deficien\$ or Purpura or Thrombocythemia or Vitamin K Deficien\$).tw.
140	exp BLOOD PLATELET DISORDERS/
141	(blood adj3 platelet\$ adj3 (disease? or disorder?)).tw.
142	(Bernard-Soulier Syndrome or Gray Platelet Syndrome or Platelet Storage Pool Deficienc\$ or Thrombasthenia or Thrombocytopenia or Thrombocytosis or von Willebrand Disease?).tw.
143	or/135-142
144	15 or 22 or 37 or 51 or 64 or 134 or 143
145	9 and 144
146	PREGNANCY, HIGH-RISK/
147	(pregnan\$ adj3 high\$ adj3 risk\$).tw.
148	(pregnan\$ adj10 (exist\$ or preexist\$) adj5 condition?).tw.
149	or/146-148
150	PREGNANCY COMPLICATIONS, CARDIOVASCULAR/
151	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
152	145 or 149 or 150 or 151

Database: Health Technology Assessment

#	Searches
1	PREGNANCY/
2	PERIPARTUM PERIOD/
3	PARTURITION/
4	exp LABOR, OBSTETRIC/
5	OBSTETRIC LABOR, PREMATURE/

#	Searches
6	pregnan\$.tw.
7	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
8	((during or giving or give) adj3 birth?).tw.
9	or/1-8
10	OBESITY/ or OBESITY, ABDOMINAL/ or OBESITY, MORBID/
11	BODY MASS INDEX/ or BODY SIZE/ or OVERWEIGHT/ or WAIST CIRCUMFERENCE/ or WAIST-HIP RATIO/
12	body mass index.tw.
13	(obesity or obese or heavy or heavier or overweight or fat\$ or BMI).tw.
14	ADIPOSE TISSUE/ or ADIPOSE TISSUE, WHITE/
15	or/10-14
16	exp ASTHMA/
17	asthma\$.tw.
18	BRONCHIAL SPASM/
19	(Bronchospasm? or bronch\$ spasm?).tw.
20	BRONCHOCONSTRICTION/
21	(Bronchoconstrict\$ or bronch\$ constrict\$).tw.
22	or/16-21
23	INTRACRANIAL HEMORRHAGES/
24	SUBARACHNOID HEMORRHAGE/
25	(h?emorrhag\$ adj3 (subarachnoid or intracranial\$)).tw.
26	SAH?.tw.
27	INTRACRANIAL ARTERIOVENOUS MALFORMATIONS/
28	((Intracranial\$ or cerebr\$ or brain?) adj5 (arteriovenous or arterio-venous) adj3 malform\$).tw.
29	(cerebr\$ adj3 malform\$).tw.
30	AVM?.tw.
31	(recurr\$ adj3 h?emorrhag\$).tw.
32	(Cerebr\$ adj3 accident?).tw.
33	cva.tw.
34	HEMIPLEGIA/
35	hemiplegia?.tw.
36	cavernoma?.tw.
37	or/23-36
38	exp STEROIDS/
39	exp ADRENAL CORTEX HORMONES/
40	PREDNISONE/
41	exp PREDNISOLONE/
42	exp HYDROCORTISONE/
43	exp DEXAMETHASONE/
44	or/38-43

#	Searches
45	((stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$) adj3 (dose? or dosag\$)).tw.
46	((Temporar\$ or short term or physiological\$) adj3 increase\$).tw.
47	or/45-46
48	44 and 47
49	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$ or replace\$ or regimen\$ or long term)).mp.
50	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (high\$ adj2 (dose? or level?))).mp.
51	or/48-50
52	exp RENAL INSUFFICIENCY, CHRONIC/
53	((Renal\$ or kidney?) adj5 (disease? or insuffic\$ or fail\$) adj5 (chronic\$ or end-stage?)).tw.
54	CKD.tw.
55	ESRD.tw.
56	Frasier syndrome.tw.
57	KIDNEY FAILURE, ACUTE/
58	((Renal\$ or kidney?) adj5 (injur\$ or insuffic\$ or fail\$) adj5 acute\$).tw.
59	(Kidney adj5 tubular necrosis adj5 acute\$).tw.
60	(Nephrosis adj5 nephron adj5 lower).tw.
61	AKI.tw.
62	KIDNEY TRANSPLANTATION/
63	((kidney? or renal\$) adj3 (transplant\$ or graft\$)).tw.
64	or/52-63
65	PULMONARY VALVE STENOSIS/
66	(pulmonary adj2 stenos\$).tw.
67	DUCTUS ARTERIOSUS, PATENT/
68	(Paten\$ adj2 ductus arteriosus).tw.
69	MITRAL VALVE PROLAPSE/
70	(mitral valve? adj2 (prolapse? or floppy)).tw.
71	click murmur syndrome?.tw.
72	(Repair\$ adj3 lesion? adj3 (heart? or cardiac)).tw.
73	HEART SEPTAL DEFECTS, ATRIAL/
74	HEART SEPTAL DEFECTS, VENTRICULAR/
75	((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).tw.
76	(persist\$ adj2 ostium primum).tw.
77	anomal\$ pulmonary venous drain\$.tw.
78	exp CARDIAC COMPLEXES, PREMATURE/
79	((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).tw.
80	((Atrial or ventricular) adj2 extrasystole?).tw.

#	Searches
81	"TETRALOGY OF FALLOT"/
82	(tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).tw.
83	exp ARRHYTHMIA/
84	(arrhythmia? or dysrhythmia?).tw.
85	(Atrial adj2 (Fibrillation or Flutter)).tw.
86	(Bradycardia? or bradyarrhythmia?).tw.
87	Brugada Syndrome.tw.
88	(premature adj2 (atrial or ventricular) adj2 contraction?).tw.
89	Heart Block.tw.
90	Long QT Syndrome.tw.
91	Parasystole.tw.
92	Pre-Excitation Syndrome?.tw.
93	Tachycardia?.tw.
94	(Ventricular adj2 (Fibrillation or Flutter)).tw.
95	exp CARDIOMYOPATHY, HYPERTROPHIC/
96	(Hypertrophic adj2 cardiomyopath\$).tw.
97	AORTIC VALVE INSUFFICIENCY/
98	MITRAL VALVE INSUFFICIENCY/
99	((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).tw.
100	((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).tw.
101	MARFAN SYNDROME/
102	(Marfan\$ adj2 syndrome).tw.
103	exp AORTIC DISEASES/
104	(aort\$ adj2 (disease? or aneurysm? or ruptur\$)).tw.
105	Aortitis.tw.
106	Loeys-Dietz Syndrome.tw.
107	Leriche Syndrome.tw.
108	AORTIC COARCTATION/
109	(Coarctation? adj10 (repair\$ or surgery)).tw.
110	HEART VALVE PROSTHESIS/
111	((heart or cardiac) adj3 valve? adj5 (prosthe\$ or mechanical or replace\$)).tw.
112	"TRANSPOSITION OF GREAT VESSELS"/
113	(Transpos\$ adj2 great adj2 (vessels or arteries)).tw.
114	FONTAN PROCEDURE/
115	(Fontan\$ adj2 (circulat\$ or procedure?)).tw.
116	exp CORONARY DISEASE/
117	(Coronary adj2 (disease? or aneurysm? or arterioscleros?s or occlusion? or stenos?s or restenos?s or thrombos?s or vasospasm?)).tw.
118	HEART DEFECTS, CONGENITAL/
119	Cyanotic heart disease?.tw.
120	(complex\$ adj10 congenital\$ heart disease?).tw.

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
" 121	PULMONARY HYPERTENSION/
122	(Pulmonary adj2 arter\$ adj2 hypertens\$).tw.
123	exp VENTRICULAR DYSFUNCTION/
123	((left or right) adj2 ventric\$ adj2 (impair\$ or systemic\$ or dysfuncti\$)).tw.
124	(systemic\$ adj2 ventric\$ adj2 dysfuncti\$).tw.
125	exp CARDIOMYOPATHIES/ and TIME FACTORS/
120	
	(previous\$ adj5 cardiomyopath\$).tw. MITRAL VALVE STENOSIS/
128	
129	(mitral adj2 stenos?s).tw.
130	exp AORTIC VALVE STENOSIS/
131	(aort\$ adj2 stenos?s).tw.
132	AORTIC COARCTATION/
133	(Coarctation? adj3 aort\$).tw.
134	or/65-133
135	exp CARDIOMYOPATHIES/
136	cardiomyopath\$.tw.
137	myocardiopath\$.tw.
138	myocardial disease?.tw.
139	Arrhythmogenic Right Ventricular Dysplasia.tw.
140	Endocardial Fibroelastos?s.tw.
141	(Isolated Noncompaction adj3 Ventricular Myocardium).tw.
142	Endomyocardial Fibros?s.tw.
143	(Glycogen Storage Disease adj3 (Type IIb or type 2b)).tw.
144	((antopol or danon) adj2 disease?).tw.
145	(Kearn\$ adj3 Syndrome).tw.
146	Myocardial Reperfusion Injur\$.tw.
147	Myocarditi\$.tw.
148	Carditis.tw.
149	Sarcoglycanopath\$.tw.
150	or/135-149
151	exp BLOOD PLATELET DISORDERS/
152	(Blood Platelet Disorder? or Bernard-Soulier Syndrome or Gray Platelet Syndrome or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or Thrombasthenia or Thrombocytopeni\$ or Jacobsen Distal 11q Deletion Syndrome or Kasabach-Merritt Syndrome or Thrombotic Microangiopath\$ or Hemolytic-Uremic Syndrome or (Purpura adj3 Thrombocytopeni\$) or Glanzmann\$ thrombastenia).tw.
153	HELLP SYNDROME/
154	HELLP.tw.
155	HEMOLYTIC-UREMIC SYNDROME/
156	hemolytic uremic syndrome.tw.
157	LUPUS ERYTHEMATOSUS, SYSTEMIC/
158	systemic lupus erythematosus.tw.
158	systemic lupus erythematosus.tw.

#	Searches
159	ANTIPHOSPHOLIPID SYNDROME/
160	((antiphospholipid or anti-phospholipid) adj3 syndrome?).tw.
161	Evans syndrome.tw.
162	(Platelet adj3 (Disorder? or dysfunction\$) adj10 (infect\$ or human immunodeficiency virus\$ or HIV or parvovirus or (Drug adj3 (relat\$ or due or induced)) or Liver disease?)).tw.
163	(Bone marrow suppression or myelotoxic\$ or myelosuppression).tw.
164	exp HEMORRHAGIC DISORDERS/
165	(Hemorrhagic Disorder? or Afibrinogenemia or Bernard-Soulier Syndrome or Disseminated Intravascular Coagulation or Factor V Deficien\$ or Factor VII Deficien\$ or Factor X Deficien\$ or Factor XI Deficien\$ or Factor XII Deficien\$ or Factor XIII Deficien\$ or H?emophilia? or Hemostatic Disorder? or Cryoglobulinemia or Ehlers-Danlos Syndrome or (Hemangioma? adj3 Cavernous) or Multiple Myeloma or Pseudoxanthoma Elasticum or (Purpura adj3 Hyperglobulinemic) or (Purpura adj3 Schoenlein-Henoch) or Scurvy or Shwartzman Phenomenon or (Telangiectasia adj3 Heredit\$) or Waldenstrom Macroglobulinemia or Hypoprothrombinemia? or (Prothrombin adj3 Deficien\$) or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or (Purpura adj3 Thrombocytopeni\$) or Thrombasthenia or Thrombocythemia or Vitamin K Deficien\$ or von Willebrand Disease? or Waterhouse- Friderichsen Syndrome or Wiskott-Aldrich Syndrome or (Fibrinogen adj3 Deficien\$) or Dysfibrinogenemia or Hypofibrinogenemia).tw.
166	exp BLOOD COAGULATION DISORDERS, INHERITED/
167	((Blood Coagulation Disorder? adj3 Inherit\$) or Activated Protein C Resistan\$ or Antithrombin III Deficien\$ or Protein C Deficien\$).tw.
168	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
169	or/151-168
170	15 or 22 or 37 or 51 or 64 or 134 or 150 or 169
171	9 and 170
172	PREGNANCY, HIGH-RISK/
173	(pregnan\$ adj3 high\$ adj3 risk\$).tw.
174	(pregnan\$ adj10 (exist\$ or preexist\$) adj5 condition?).tw.
175	or/172-174
176	PREGNANCY COMPLICATIONS, CARDIOVASCULAR/
177	PREGNANCY COMPLICATIONS, HEMATOLOGIC/
178	171 or 175 or 176 or 177

Database: Embase

#	Searches
1	cost.tw.
2	costs.tw.
3	or/1-2
4	*PREGNANCY/
5	*PERINATAL PERIOD/
6	exp *BIRTH/
7	exp *LABOR/
8	*PREMATURE LABOR/

#	Searches
9	*INTRAPARTUM CARE/
10	pregnan\$.ti,ab.
11	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.
12	((during or giving or give) adj3 birth?).ti,ab.
13	or/4-12
14	*OBESITY/ or *ABDOMINAL OBESITY/ or *MORBID OBESITY/
15	*BODY MASS/ or *BODY SIZE/ or *WAIST CIRCUMFERENCE/ or *WAIST-HIP RATIO/
16	(body mass index or obesity or obese).ti.
17	(heavy or heavier or overweight or fat\$ or BMI).ti.
18	*ADIPOSE TISSUE/ or *WHITE ADIPOSE TISSUE/
19	or/14-18
20	exp ASTHMA/
21	asthma\$.ti,ab.
22	BRONCHOSPASM/
23	(Bronchospasm? or bronch\$ spasm?).ti,ab.
24	BRONCHOCONSTRICTION/
25	(Bronchoconstrict\$ or bronch\$ constrict\$).ti,ab.
26	or/20-25
27	*BRAIN HEMORRHAGE/
28	*SUBARACHNOID HEMORRHAGE/
29	(h?emorrhag\$ adj3 (subarachnoid or intracranial\$)).ab,ti.
30	SAH?.ab,ti.
31	*CEREBROVASCULAR MALFORMATION/
32	*BRAIN ARTERIOVENOUS MALFORMATION/
33	((Intracranial\$ or cerebr\$ or brain?) adj5 (arteriovenous or arterio-venous) adj3 malform\$).ab,ti.
34	(cerebr\$ adj3 malform\$).ab,ti.
35	AVM?.ab,ti.
36	(recurr\$ adj3 h?emorrhag\$).ti,ab.
37	*CEREBROVASCULAR ACCIDENT/
38	(Cerebr\$ adj3 accident?).ti,ab.
39	cva.ti,ab.
40	*HEMIPLEGIA/
41	hemiplegia?.ti,ab.
42	cavernoma?.ti,ab.
43	or/27-42
44	exp *STEROID/
45	exp *CORTICOSTEROID/
46	*PREDNISONE/
47	*PREDNISOLONE/
48	*HYDROCORTISONE/
49	*DEXAMETHASONE/

#	Searches
#	steroid\$.mp.
51	corticosteroid?.mp.
52	prednisone.mp.
53	(prednisolone or fluprednisolone or methylprednisolone or prednimustine).mp.
54	(hydrocortisone or fludrocortisone).mp.
55	dexamethasone.mp.
56	or/44-55
57	((stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$) adj3 (dose? or dosag\$)).ti,ab.
58	((Temporar\$ or short term or physiological\$) adj3 increase\$).ti,ab.
59	or/57-58
60	56 and 59
61	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (stress or rescue or maintenance or increment\$ or boost\$ or supplement\$ or additional\$ or added\$ or increas\$)).mp.
62	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (high\$ adj2 (dose? or level?))).mp.
63	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 replace\$).mp.
64	((steroid\$ or corticosteroid? or prednisone or fluprednisolone or methylprednisolone or prednimustine or Hydrocortisone or fludrocortisone or Dexamethasone) adj3 (regimen\$ or long term)).mp.
65	or/60-64
66	CHRONIC KIDNEY DISEASE/
67	CHRONIC KIDNEY FAILURE/
68	END STAGE RENAL DISEASE/
69	((Renal\$ or kidney?) adj5 (disease? or insuffic\$ or fail\$) adj5 (chronic\$ or end-stage?)).ab,ti.
70	CKD.ab,ti.
71	ESRD.ab,ti.
72	Frasier syndrome.ti,ab.
73	ACUTE KIDNEY FAILURE/
74	((Renal\$ or kidney?) adj5 (injur\$ or insuffic\$ or fail\$) adj5 acute\$).ab,ti.
75	(Kidney adj5 tubular necrosis adj5 acute\$).ab,ti.
76	(Nephrosis adj5 nephron adj5 lower).ab,ti.
77	AKI.ab,ti.
78	exp KIDNEY TRANSPLANTATION/
79	((kidney? or renal\$) adj3 (transplant\$ or graft\$)).ti,ab.
80	or/66-79
81	PULMONARY VALVE STENOSIS/
82	(pulmonary adj2 stenos\$).ti,ab.
83	PATENT DUCTUS ARTERIOSUS/

#	Searches
	(Paten\$ adj2 ductus arteriosus).ti,ab.
85	MITRAL VALVE PROLAPSE/
86	(mitral valve? adj2 (prolapse? or floppy)).ti,ab.
87	click murmur syndrome?.ti,ab.
88	(Repair\$ adj3 lesion? adj3 (heart? or cardiac)).ti,ab.
89	HEART SEPTUM DEFECT/
90	((atrial or ventricul\$ or intraventricul\$) adj2 septal adj2 defect\$).ti,ab.
91	(persist\$ adj2 ostium primum).ti,ab.
92	anomal\$ pulmonary venous drain\$.ti,ab.
93	EXTRASYSTOLE/
94	((Atrial or ventricular or supraventricular) adj2 (ectopic or premature) adj2 (beat? or complex\$ or complice?)).ti,ab.
95	((Atrial or ventricular) adj2 extrasystole?).ti,ab.
96	FALLOT TETRALOGY/su [Surgery]
97	(tetralogy adj2 Fallot\$ adj10 (repair\$ or surgery)).ti,ab.
98	exp *HEART ARRHYTHMIA/
99	(arrhythmia? or dysrhythmia?).ti,ab.
100	(Atrial adj2 (Fibrillation or Flutter)).ti,ab.
101	(Bradycardia? or bradyarrhythmia?).ti,ab.
102	Brugada Syndrome.ti,ab.
103	(premature adj2 (atrial or ventricular) adj2 contraction?).ti,ab.
104	Heart Block.ti,ab.
105	Long QT Syndrome.ti,ab.
106	Parasystole.ti,ab.
107	Pre-Excitation Syndrome?.ti,ab.
108	Tachycardia?.ti,ab.
109	(Ventricular adj2 (Fibrillation or Flutter)).ti,ab.
110	exp *HYPERTROPHIC CARDIOMYOPATHY/
111	(Hypertrophic adj2 cardiomyopath\$).ti,ab.
112	AORTIC VALVE REGURGITATION/
113	MITRAL VALVE REGURGITATION/
114	((mitral or aort\$) adj2 (regurg\$ or incompeten\$)).ti,ab.
115	((mitral or aort\$) adj2 valv\$ adj2 insufficien\$).ti,ab.
116	MARFAN SYNDROME/
117	(Marfan\$ adj2 syndrome).ti,ab.
118	exp *AORTA DISEASE/
119	(aort\$ adj2 (disease? or aneurysm? or ruptur\$)).ti,ab.
120	Aortitis.ti,ab.
121	Loeys-Dietz Syndrome.ti,ab.
122	Leriche Syndrome.ti,ab.
123	AORTA COARCTATION/su [Surgery]

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
124	(Coarctation? adj10 (repair\$ or surgery)).ti,ab.
125	exp *HEART VALVE PROSTHESIS/
126	((heart or cardiac) adj3 valve? adj5 (prosthe\$ or mechanical or replace\$)).ti,ab.
127	GREAT VESSELS TRANSPOSITION/
128	(Transpos\$ adj2 great adj2 (vessels or arteries)).ti,ab.
129	FONTAN PROCEDURE/
130	(Fontan\$ adj2 (circulat\$ or procedure?)).ti,ab.
131	exp *CORONARY ARTERY DISEASE/
132	(Coronary adj2 (disease? or aneurysm? or arterioscleros?s or occlusion? or stenos?s or restenos?s or thrombos?s or vasospasm?)).ti,ab.
133	CYANOTIC HEART DISEASE/
134	Cyanotic heart disease?.ti,ab.
135	*CONGENITAL HEART DISEASE/
136	(complex\$ adj10 congenital\$ heart disease?).ti,ab.
137	*PULMONARY HYPERTENSION/
138	(Pulmonary adj2 arter\$ adj2 hypertens\$).ti,ab.
139	exp *HEART VENTRICLE FAILURE/
140	((left or right) adj2 ventric\$ adj2 (impair\$ or systemic\$ or dysfuncti\$)).ti,ab.
141	(systemic\$ adj2 ventric\$ adj2 dysfuncti\$).ti,ab.
142	exp CARDIOMYOPATHY/ and TIME FACTOR/
143	(previous\$ adj5 cardiomyopath\$).ti,ab.
144	MITRAL VALVE STENOSIS/
145	(mitral adj2 stenos?s).ti,ab.
146	AORTA VALVE STENOSIS/
147	(aort\$ adj2 stenos?s).ti,ab.
148	AORTA COARCTATION/
149	(Coarctation? adj3 aort\$).ti,ab.
150	or/81-149
151	exp CARDIOMYOPATHY/
152	cardiomyopath\$.ti,ab.
153	myocardiopath\$.ti,ab.
154	myocardial disease?.ti,ab.
155	PPCM.ti,ab.
156	Arrhythmogenic Right Ventricular Dysplasia.ti,ab.
157	Endocardial Fibroelastos?s.ti,ab.
158	(Isolated Noncompaction adj3 Ventricular Myocardium).ti,ab.
159	Endomyocardial Fibros?s.ti,ab.
160	(Glycogen Storage Disease adj3 (Type IIb or type 2b)).ti,ab.
161	((antopol or danon) adj2 disease?).ti,ab.
162	(Kearn\$ adj3 Syndrome).ti,ab.
163	Myocardial Reperfusion Injur\$.ti,ab.

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
164	Myocarditi\$.ti,ab.
165	Carditis.ti,ab.
166	Sarcoglycanopath\$.ti,ab.
167	or/151-166
168	exp *THROMBOCYTE DISORDER/
169	(Blood Platelet Disorder? or Bernard-Soulier Syndrome or Gray Platelet Syndrome or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or Thrombasthenia or Thrombocytopeni\$ or Jacobsen Distal 11q Deletion Syndrome or Kasabach-Merritt Syndrome or Thrombotic Microangiopath\$ or Hemolytic-Uremic Syndrome or (Purpura adj3 Thrombocytopeni\$) or Glanzmann\$ thrombastenia).ti,ab.
170	*HELLP SYNDROME/
171	HELLP.ti,ab.
172	*HEMOLYTIC UREMIC SYNDROME/
173	hemolytic uremic syndrome.ti,ab.
174	*SYSTEMIC LUPUS ERYTHEMATOSUS/
175	systemic lupus erythematosus.ti,ab.
176	*ANTIPHOSPHOLIPID SYNDROME/
177	((antiphospholipid or anti-phospholipid) adj3 syndrome?).ti,ab.
178	Evans syndrome.ti,ab.
179	(Platelet adj3 (Disorder? or dysfunction\$) adj10 (infect\$ or human immunodeficiency virus\$ or HIV or parvovirus or (Drug adj3 (relat\$ or due or induced)) or Liver disease?)).ti,ab.
180	(Bone marrow suppression or myelotoxic\$ or myelosuppression).ti,ab.
181	*BLEEDING DISORDER/
182	*BLOOD CLOTTING DISORDER/
183	*ACTIVATED PROTEIN C RESISTANCE/
184	exp *BLOOD CLOTTING FACTOR DEFICIENCY/
185	*DISSEMINATED INTRAVASCULAR CLOTTING/
186	(Hemorrhagic Disorder? or Afibrinogenemia or Bernard-Soulier Syndrome or Disseminated Intravascular Coagulation or Factor V Deficien\$ or Factor VII Deficien\$ or Factor X Deficien\$ or Factor XI Deficien\$ or Factor XII Deficien\$ or Factor XIII Deficien\$ or H?emophilia? or Hemostatic Disorder? or Cryoglobulinemia or Ehlers-Danlos Syndrome or (Hemangioma? adj3 Cavernous) or Multiple Myeloma or Pseudoxanthoma Elasticum or (Purpura adj3 Hyperglobulinemic) or (Purpura adj3 Schoenlein-Henoch) or Scurvy or Shwartzman Phenomenon or (Telangiectasia adj3 Heredit\$) or Waldenstrom Macroglobulinemia or Hypoprothrombinemia? or (Prothrombin adj3 Deficien\$) or Platelet Storage Pool Deficien\$ or Hermanski-Pudlak Syndrome or (Purpura adj3 Thrombocytopeni\$) or Thrombasthenia or Thrombocythemia or Vitamin K Deficien\$ or von Willebrand Disease? or Waterhouse- Friderichsen Syndrome or Wiskott-Aldrich Syndrome or (Fibrinogen adj3 Deficien\$) or Dysfibrinogenemia or Hypofibrinogenemia).ti,ab.
187	((Blood Coagulation Disorder? adj3 Inherit\$) or Activated Protein C Resistan\$ or Antithrombin III Deficien\$ or Protein C Deficien\$).ti,ab.
188	or/168-187
189	19 or 26 or 43 or 65 or 80 or 150 or 167 or 188
190	13 and 189
191	HIGH RISK PREGNANCY/

#	Searches
192	(pregnan\$ adj3 high\$ adj3 risk\$).ab,ti.
193	(pregnan\$ adj10 (exist\$ or preexist\$) adj5 condition?).ab,ti.
194	or/191-193
195	190 or 194
196	limit 195 to english language
197	letter.pt. or LETTER/
198	note.pt.
199	editorial.pt.
200	CASE REPORT/ or CASE STUDY/
201	(letter or comment*).ti.
202	or/197-201
203	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
204	202 not 203
205	ANIMAL/ not HUMAN/
206	NONHUMAN/
207	exp ANIMAL EXPERIMENT/
208	exp EXPERIMENTAL ANIMAL/
209	ANIMAL MODEL/
210	exp RODENT/
211	(rat or rats or mouse or mice).ti.
212	or/204-211
213	196 not 212
214	3 and 213

Health economics global search for women at high risk of adverse outcomes for

- 2 themselves and/or their baby because of obstetric complications or other
- 3 reasons

Databases: Medline; Medline EPub Ahead of Print; and Medline In-Process & Other Non-5 Indexed Citations

#	Searches
1	cost:.mp.
2	cost benefit analys:.mp.
3	health care costs.mp.
4	or/1-3
5	PERIPARTUM PERIOD/
6	PARTURITION/
7	exp LABOR, OBSTETRIC/
8	OBSTETRIC LABOR, PREMATURE/
9	DELIVERY, OBSTETRIC/
10	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.

Joan Jose Joan Jose 1 (during or giving or give) adj3 birth?).ti,ab. 12 or/5-11 13 exp FEVER/ 14 (fever45 or hypethermi\$).ti,ab. 15 (felevat5 or hypethermi\$).ti,ab. 16 or/13-15 17 exp SEPSIS/ 18 sepsis.ti,ab. 19 BLOOD-BORNE PATHOGENS/ 20 (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 21 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/ 2* "systemic inflammatory response syndrome".ti,ab. 23 SIRS ti,ab. 24 septic?emi\$ i,iab. 25 ((septic or endotoxic or toxic) adj3 shock).ti,ab. 26 ((septic or endotoxic or toxic) adj3 shock).ti,ab. 26 (septic or endotoxic or toxic) adj3 shock).ti,ab. 26 (gottar?emi\$ or ponemi\$).ti,ab. 27 (bacter?emi\$ or ponemi\$).ti,ab. 28 or/17-27 29 FETAL MACROSOMIA/ 30 macrosomia?.ti,ab. 31 (large adj3 gestational adj3 age?).ab,ti.	#	Searches
12 or/5-11 13 exp FEVER/ 14 (fever\$ or pyrexi\$ or hyperthermi\$).ti,ab. 15 ((elevat\$ or high\$) adj3 temperature?).ti,ab. 16 or/13-15 17 exp SEPSIS/ 18 sepsis.ti,ab. 19 BLOOD-BORNE PATHOGENS/ 20 (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 21 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/ 22 "systemic inflammatory response syndrome".ti,ab. 23 SIRS.ti,ab. 24 septic?emi\$.ti,ab. 25 (fseptic or endotoxic or toxic) adj3 shock).ti,ab. 26 (py?emi\$ or pyohemi\$).ti,ab. 27 (bacter?emi\$ or tung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 28 or/17-27 29 FETAL MACROSOMIA/ 30 macrosomia?.ti,ab. 31 (large adj3 date?).ab,ti. 32 or/29-32 34 BREECH PRESENTATION/ 35 (pregnan\$ adj3 prolon\$).ab,ti. 36 or/29-32 37 PREGNANCY, PROLONGED/ 38 (pregnan\$ adj1 late).ab,t		
13 exp FEVER/ 14 (fever\$ or pyrexi\$ or hyperthermi\$).ti,ab. 15 ((elevat\$ or high\$) adj3 temperature?).ti,ab. 16 or/13-15 17 exp SEPSIS/ 18 sepsis.ti,ab. 19 BLOOD-BORNE PATHOGENS/ 20 (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 21 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/ 22 "systemic inflammatory response syndrome".ti,ab. 23 SIRS.ti,ab. 24 septic?emi\$.ti,ab. 25 (fesptic or endotoxic or toxic) adj3 shock).ti,ab. 26 ((septic or endotoxic or toxic) adj3 shock).ti,ab. 27 (bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 28 or/17-27 29 FETAL MACROSOMIA/ 30 macrosomia?.ti,ab. 31 (large adj3 date?).ab,ti. 32 or/29-32 34 BREECH PRESENTATION/ 35 (breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).ab,ti. 36 or/34-35 37 PREGNANCY, PROLONGED/ 36 (pregnan\$ adj1 late).ab,t		
14 (fever\$ or pyrexi\$ or hyperthermi\$).ti,ab. 15 ((elevat\$ or high\$) adj3 temperature?).ti,ab. 16 or/13-15 17 exp SEPSIS/ 18 sepsis.ti,ab. 19 BLOOD-BORNE PATHOGENS/ (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 20 (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 21 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/ 22 "systemic inflammatory response syndrome".ti,ab. 23 SIRS.ti,ab. 24 septic?emi\$.ti,ab. 25 ((septic or endotoxic or toxic) adj3 shock).ti,ab. 26 (py?emi\$ or pyohemi\$).ti,ab. 27 (bacter?emi\$ or thog?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 26 (rp?emi\$ or pyohemi\$).ti,ab. 27 (bacter?emi\$ or oragi?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 28 or/17-27 29 FETAL MACROSOMIA/ 30 or/129-32 31 (large adj3 destational adj3 age?).ab,ti. 32 (large adj3 duet?).ab,ti. 33 or/29-32 34 BREECH PRESENTATION/		
15 ((elevat\$ or high\$) adj3 temperature?).ti,ab. 16 or/13-15 17 exp SEPSIS/ 18 sepsis.ti,ab. 19 BLOO-BORNE PATHOGENS/ 20 (blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. 21 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/ 22 "systemic inflammatory response syndrome".ti,ab. 23 SIRS.ti,ab. 24 septic?emi\$.ti,ab. 25 ((septic or endotoxic or toxic) adj3 shock).ti,ab. 26 (py?emi\$ or pyohemi\$).ti,ab. 27 (bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 26 (py?emi\$ or pyohemi\$).ti,ab. 27 (bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab. 28 or/17-27 29 FETAL MACROSOMIA/ 20 macrosomia?.ti,ab. 31 (large adj3 destal adj3 age?).ab,ti. 32 (large adj3 date?).ab,ti. 33 or/29-32 34 BREECH PRESENTATION/ 35 (breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).ab,ti. 36 or/34-35		•
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 36 or/34-35 37 PREGNANCY, PROLONGED/ 38 (pregnan\$ adj3 prolong\$).ab,ti. 39 (pregnan\$ adj1 late).ab,ti. 40 (postterm\$ or post-term\$).ab,ti. 41 (postdate\$ or post-date\$).ab,ti. 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	34	BREECH PRESENTATION/
 37 PREGNANCY, PROLONGED/ 38 (pregnan\$ adj3 prolong\$).ab,ti. 39 (pregnan\$ adj1 late).ab,ti. 40 (postterm\$ or post-term\$).ab,ti. 41 (postdate\$ or post-date\$).ab,ti. 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	35	(breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).ab,ti.
 (pregnan\$ adj3 prolong\$).ab,ti. (pregnan\$ adj1 late).ab,ti. (postterm\$ or post-term\$).ab,ti. (postdate\$ or post-date\$).ab,ti. (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. or labo?r\$)).ab,ti. CESAREAN SECTION, REPEAT/ CESAREAN SECTION/ and (repeat\$ or previous\$).ti. CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	36	or/34-35
 39 (pregnan\$ adj1 late).ab,ti. 40 (postterm\$ or post-term\$).ab,ti. 41 (postdate\$ or post-date\$).ab,ti. 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	37	PREGNANCY, PROLONGED/
 40 (postterm\$ or post-term\$).ab,ti. 41 (postdate\$ or post-date\$).ab,ti. 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	38	(pregnan\$ adj3 prolong\$).ab,ti.
 41 (postdate\$ or post-date\$).ab,ti. 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	39	(pregnan\$ adj1 late).ab,ti.
 42 (overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	40	(postterm\$ or post-term\$).ab,ti.
 43 ((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti. 44 or/37-43 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	41	(postdate\$ or post-date\$).ab,ti.
or labo?r\$)).ab,ti.44or/37-4345CESAREAN SECTION, REPEAT/46CESAREAN SECTION/ and (repeat\$ or previous\$).ti.47CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=248((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab.	42	(overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti.
 45 CESAREAN SECTION, REPEAT/ 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	43	
 46 CESAREAN SECTION/ and (repeat\$ or previous\$).ti. 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	44	or/37-43
 47 CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2 48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab. 	45	CESAREAN SECTION, REPEAT/
48 ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab.	46	CESAREAN SECTION/ and (repeat\$ or previous\$).ti.
previous\$)).ti,ab.	47	CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2
	48	
	49	

Dearlies 9 Section\$ or (deliver\$ adj3 abdom\$))).ti,ab. 51 VBAC.ti,ab. 51 VBAC.ti,ab. 52 TRIAL OF LABOR/ and CESAREAN SECTION/ 53 (trial adj2 labo?r adj3 atter\$ adj3 (o?tesar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab. 54 TOLAC.ti,ab. 56 or/45-54 56 INFANT, SMALL FOR GESTATIONAL AGE/ 57 GESTATIONAL AGE/ and small.ab. /freq=2 58 GESTATIONAL AGE/ and small.ab. /freq=2 59 (small adj3 gestational age?).ab,ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight? or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ </th <th>щ</th> <th>Secretes</th>	щ	Secretes
 csection\$ or (deliver\$ adj3 abdom\$))).ti,ab. VBAC.ti,ab. TRIAL OF LABOR/ and CESAREAN SECTION/ (trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab. TOLAC.ti,ab. TOLAC.ti,ab. or/45-54 INFANT, SMALL FOR GESTATIONAL AGE/ GESTATIONAL AGE/ and small.ti. GESTATIONAL AGE/ and small.ab. /freq=2 (small adj3 gestational age?).ab,ti. SGA.ti,ab. FETAL GROWTH RETARDATION/ ((fetal\$ or fetus\$ or intrautenne) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. IUGR.ti,ab. IUGR.ti,ab. IUGR.ti,ab. IUGR.ti,ab. IUGR.ti,ab. INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (avb birthweight? or low birth weight?).ti,ab. IBW.ti,ab. or/S6-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO. SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care) ab,ti. (unbock\$ or un-bock\$ or (late adj3 book\$)).ti,ab. ((no or non) adj3 engag\$).ti,ab. (rios or inde) or histion\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (motor non) adj3 engag\$).ti,ab. (rios or inable or retsrict\$ or without) adj5 (antenatal\$ or pre-natal\$) adj3 care) ab,ti. or /fs9-78 PREGNANCY, UNPLANNED/ PRECNANCY, UNPLANNED/ PRENARTUM PERIOD/ PARTURITION/ 	#	Searches
52 TRIAL OF LABOR/ and CESAREAN SECTION/ 53 (trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab. 54 TOLAC.ti,ab. 55 or/45-54 56 INFANT, SMALL FOR GESTATIONAL AGE/ 57 GESTATIONAL AGE/ and small.ti. 58 GESTATIONAL AGE/ and small.ab. /req=2 59 (small adj3 gestational age?).ab,ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 (ffetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight? or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 (fto or on unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or ser	50	
53 (trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)).it.ab. 54 TOLAC.ti.,ab. 56 or/45-54 56 INFANT, SMALL FOR GESTATIONAL AGE/ 57 GESTATIONAL AGE/ and small.ab. //treq=2 59 (small adj3 gestational age?).ab,ti. 50 GSA.ti.ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, VERY LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight? or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 ((no or onn) adj3 engag\$).ti,ab. 75 (unbook\$ or un-bo	51	VBAC.ti,ab.
abdom\$j)).ti,ab. 54 TOLAC.ti,ab. 55 or/45-54 61 INFANT, SMALL FOR GESTATIONAL AGE/ 57 GESTATIONAL AGE/ and small.ab. /freq=2 59 (small adj3 gestational age?).ab,ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, VERY LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight?) ot low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 ((no or onn) adj3 enga§\$).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?ti,ab. 77 (no or onnable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. <	52	TRIAL OF LABOR/ and CESAREAN SECTION/
55or/45-5456INFANT, SMALL FOR GESTATIONAL AGE/57GESTATIONAL AGE/ and small.ti.58GESTATIONAL AGE/ and small.ti. /freq=259(small adj3 gestational age?).ab,ti.60SGA.ti,ab.61FETAL GROWTH RETARDATION/62((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab.63IUGR.ti,ab.64INFANT, LOW BIRTH WEIGHT/65exp INFANT, VERY LOW BIRTH WEIGHT/66(tow birthweight?) to low birth weight?).ti,ab.67LBW.ti,ab.68or/56-6769'HEALTH SERVICES ACCESSIBILITY/70HEALTH SERVICES MISUSE/71HEALTH SERVICES MISUSE/72NO-SHOW PATIENTS/73((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or pre-natal\$) adj3 care].ab,ti.74((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.73((no or nunbe or retsrict\$ or limit\$) adj5 (antenatal\$ or pre-natal\$) adj3 care].ab,ti.74((no or nunbel or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.75(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.78no show.ti,ab.79Or(69-7880PREGNANCY, UNPLANNED/81PREGNANCY, UNPLANNED/82((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or un-suspect\$ or un-suspect\$ or un-aware or unplanned or un- intended or un-vanted) adj3 pregnan\$).ti,ab.83or/80-8	53	
56 INFANT, SMALL FOR GESTATIONAL AGE/ 57 GESTATIONAL AGE/ and small.ti. 58 GESTATIONAL AGE/ and small.tab. /freq=2 59 (small adj3 gestational age?).ab,ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight?) or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 'HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?.ti,ab. 77 (foo or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79 or/69-78	54	TOLAC.ti,ab.
57 GESTATIONAL AGE/ and small.ti. 58 GESTATIONAL AGE/ and small.ab. /freq=2 59 (small adj3 gestational age?).ab.ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (low birthweight? or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 74 ((no or non) adj3 engag\$).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?.ti,ab. 77 ((no or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79	55	or/45-54
58 GESTATIONAL AGE/ and small.ab. /freq=2 59 (small adj3 gestational age?).ab.ti. 60 SGA.ti,ab. 61 FETAL GROWTH RETARDATION/ 62 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. 63 IUGR.ti,ab. 64 INFANT, LOW BIRTH WEIGHT/ 65 exp INFANT, VERY LOW BIRTH WEIGHT/ 66 (fow birthweight? or low birth weight?).ti,ab. 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH SERVICES MISUSE/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or pre-natal\$ or pre-natal\$) adj3 ccare).ab.ti. 74 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 78 no show.ti,ab. 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-aware or unplanned or un-intended o	56	INFANT, SMALL FOR GESTATIONAL AGE/
 (small adj3 gestational age?).ab,ti. SGA.ti,ab. FETAL GROWTH RETARDATION/ ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. IUGR.ti,ab. INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (low birthweight? or low birth weight?).ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. walk\$ in?.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREIPARTUM PERIOD/ Or/80-82 PARTURITION/ 	57	GESTATIONAL AGE/ and small.ti.
 SGA.ti,ab. SGA.ti,ab. FETAL GROWTH RETARDATION/ ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. IUGR.ti,ab. INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (fow birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or nuable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. pREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ ((conceal\$ or hide? or hiddng or unexpected or un-expected or unintended or unintended or unintended or un-wanted or un-suspect\$ or unaware or unplanned or unplanned or unvanted or un-suspect\$ or unaware or unplanned or unplanned or unvanted or un-suspect\$ or unaware or unplanned or unplanned or unvanted or un-suspect\$ or Linab. or/80-82 PARTURITION/ 	58	GESTATIONAL AGE/ and small.ab. /freq=2
61FETAL GROWTH RETARDATION/62((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab.63IUGR.ti,ab.64INFANT, LOW BIRTH WEIGHT/65exp INFANT, VERY LOW BIRTH WEIGHT/66(low birthweight? or low birth weight?).ti,ab.67LBW.ti,ab.68or/56-6769*HEALTH SERVICES ACCESSIBILITY/70HEALTH SERVICES MISUSE/71HEALTH SERVICES MISUSE/72NO-SHOW PATIENTS/73((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or pre-natal\$) adj3 care).ab,ti.74((no or nable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.75(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.76walk\$ in?.ti,ab.77((no or non) adj3 engag\$).ti,ab.78no show.ti,ab.79or/69-7880PREGNANCY, UNPLANNED/81PREGNANCY, UNVANTED/82((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unitended or un- intended or un-suspect\$ or un-suspect\$ or un-aware or unplanned or un- intended or un-wanted) adj3 pregnan\$).ti,ab.83or/80-8284PERIPARTUM PERIOD/85PARTURITION/	59	(small adj3 gestational age?).ab,ti.
 ((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab. IUGR.ti,ab. INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (low birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. ((no or non) adj3 engag\$).ti,ab. mo show.ti,ab. PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un-intended or un-vanted) adj3 pregnan\$).ti,ab. or/80-82 PARTURITION/ 	60	SGA.ti,ab.
 IUGR.ti,ab. IUGR.ti,ab. INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (low birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH CARE DISPARITIES/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ (Ino or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care(a).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (Ino or non) adj3 engag\$).ti,ab. no show.ti,ab. PREGNANCY, UNPLANNED/ PARTURITION/ 	61	FETAL GROWTH RETARDATION/
 INFANT, LOW BIRTH WEIGHT/ exp INFANT, VERY LOW BIRTH WEIGHT/ (low birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ (Ino or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. walk\$ in?.ti,ab. walk\$ in?.ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNWANTED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY DIMED/ PREGNANCY DIMENTED/ PREGNANCY DIMENTENCY DIMENTENCY 	62	((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab.
 exp INFANT, VERY LOW BIRTH WEIGHT/ (low birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. walk\$ in?.ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNPLANNED/ PREGNANCY, UNWANTED/ PREGNANCY, UNWANTED/ PREGNANCY, UNWANTED/ PREGNANCY UNWANTED/ PREGNANCY UNWANTED/ PREGNANCY UNPLANNED/ PREGNANCY UNPLANNED/	63	IUGR.ti,ab.
 (low birthweight? or low birth weight?).ti,ab. LBW.ti,ab. or/56-67 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ (Ino or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. PREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ PREGNANCY, UNVANTED/ PREGNANCY, UNVANTED/ PREGNANCY, UNVANTED/ PREGNANCY, UNVANTED/ PREGNANCY UNVANTED/ PREGNANC	64	INFANT, LOW BIRTH WEIGHT/
 67 LBW.ti,ab. 68 or/56-67 69 *HEALTH SERVICES ACCESSIBILITY/ 70 HEALTH CARE DISPARITIES/ 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. 74 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?.ti,ab. 77 ((no or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNVANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or uni	65	exp INFANT, VERY LOW BIRTH WEIGHT/
68or/56-6769*HEALTH SERVICES ACCESSIBILITY/70HEALTH CARE DISPARITIES/71HEALTH SERVICES MISUSE/72NO-SHOW PATIENTS/73((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti.74((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.75(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.76walk\$ in?.ti,ab.77((no or non) adj3 engag\$).ti,ab.78no show.ti,ab.79or/69-7880PREGNANCY, UNPLANNED/81PREGNANCY, UNVANTED/82((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or un-intended or un-intended or un-wanted) adj3 pregnan\$).ti,ab.83or/80-8284PERIPARTUM PERIOD/85PARTURITION/	66	(low birthweight? or low birth weight?).ti,ab.
 *HEALTH SERVICES ACCESSIBILITY/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ (Ino or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((Ino or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. (uno or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or un-intended or un-intended or un-suspect\$ or un-aware or unplanned or un-planned or un-wanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PARTURITION/ 	67	LBW.ti,ab.
 HEALTHCARE DISPARITIES/ HEALTH SERVICES MISUSE/ NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ PREGNANCY, UNWANTED/ PREGNANCY, UNPLANNED/ PREGNANC	68	or/56-67
 71 HEALTH SERVICES MISUSE/ 72 NO-SHOW PATIENTS/ 73 ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. 74 ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?.ti,ab. 77 ((no or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79 or/69-78 79 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or un-suspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un- vanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	69	*HEALTH SERVICES ACCESSIBILITY/
 NO-SHOW PATIENTS/ ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. ((no or non) adj3 engag\$).ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNWANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or un-intended or un-intended or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PARTURIPION/ 	70	HEALTHCARE DISPARITIES/
 ((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. walk\$ in?.ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNWANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or un-suspect\$ or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PARTUM PERIOD/ PARTUM PERIOD/ PARTUM PERIOD/ 	71	HEALTH SERVICES MISUSE/
 care).ab,ti. ((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab. (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. walk\$ in?.ti,ab. ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNVANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un-intended or un-suspect\$ or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PARTURITION/ 	72	NO-SHOW PATIENTS/
 75 (unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab. 76 walk\$ in?.ti,ab. 77 ((no or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un-intended or un-suspect\$ or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	73	
 76 walk\$ in?.ti,ab. 77 ((no or non) adj3 engag\$).ti,ab. 78 no show.ti,ab. 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un-intended or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	74	((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.
 ((no or non) adj3 engag\$).ti,ab. no show.ti,ab. or/69-78 PREGNANCY, UNPLANNED/ PREGNANCY, UNWANTED/ ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PERIPARTUM PERIOD/ PARTURITION/ 	75	(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.
 78 no show.ti,ab. 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or unintended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	76	walk\$ in?.ti,ab.
 79 or/69-78 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	77	((no or non) adj3 engag\$).ti,ab.
 80 PREGNANCY, UNPLANNED/ 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	78	no show.ti,ab.
 81 PREGNANCY, UNWANTED/ 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	79	or/69-78
 82 ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. 83 or/80-82 84 PERIPARTUM PERIOD/ 85 PARTURITION/ 	80	PREGNANCY, UNPLANNED/
 intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab. or/80-82 PERIPARTUM PERIOD/ PARTURITION/ 	81	PREGNANCY, UNWANTED/
84 PERIPARTUM PERIOD/85 PARTURITION/	82	intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or
85 PARTURITION/	83	or/80-82
	84	PERIPARTUM PERIOD/
86 LABOR, OBSTETRIC/	85	PARTURITION/
	86	LABOR, OBSTETRIC/

#	Searches
 87	UTERINE CONTRACTION/
88	LABOR ONSET/
89	LABOR STAGE, FIRST/
90	LABOR STAGE, SECOND/
91	OBSTETRIC LABOR, PREMATURE/
92	DELIVERY, OBSTETRIC/
93	(labo?r or childbirth or partur\$ or intra?part\$ or peri?part\$).ti,ab.
94	((during or giving) adj3 birth?).ti,ab.
95	or/84-94
96	HEMORRHAGE/
97	SHOCK, HEMORRHAGIC/
98	UTERINE HEMORRHAGE/
99	or/96-98
100	95 and 99
101	((labo?r or birth? or childbirth? or partur\$ or intra?part\$ or peri?part\$) adj3 (h?emorrhag\$ or bleed\$)).ti,ab.
102	or/100-101
103	*OBSTETRIC LABOR COMPLICATIONS/
104	((obstetric\$ or labo?r) adj2 complication?).ti,ab.
105	or/103-104
106	*PREGNANCY, HIGH-RISK/
107	(pregnan\$ adj2 high\$ adj2 risk\$).ab,ti.
108	or/106-107
109	33 or 36 or 44 or 55 or 102 or 105 or 108
110	12 and (16 or 28 or 68 or 79 or 83)
111	or/109-110
112	limit 111 to english language
113	LETTER/
114	EDITORIAL/
115	NEWS/
116	exp HISTORICAL ARTICLE/
117	ANECDOTES AS TOPIC/
118	COMMENT/
119	CASE REPORT/
120	(letter or comment*).ti.
121	or/113-120
122	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
123	121 not 122
124	ANIMALS/ not HUMANS/
125	exp ANIMALS, LABORATORY/
126	exp ANIMAL EXPERIMENTATION/

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#	Searches
127	exp MODELS, ANIMAL/
128	exp RODENTIA/
129	(rat or rats or mouse or mice).ti.
130	or/123-129
131	112 not 130
132	4 and 131

Database: Cochrane Central Register of Controlled Trials

#	Searches
1	cost:.mp.
2	cost benefit analys:.mp.
3	health care costs.mp.
4	or/1-3
5	PERIPARTUM PERIOD/
6	PARTURITION/
7	exp LABOR, OBSTETRIC/
8	OBSTETRIC LABOR, PREMATURE/
9	DELIVERY, OBSTETRIC/
10	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab,kw.
11	((during or giving or give) adj3 birth?).ti,ab.
12	or/5-11
13	exp FEVER/
14	(fever\$ or pyrexi\$ or hyperthermi\$).ti,ab,kw.
15	((elevat\$ or high\$) adj3 temperature?).ti,ab.
16	or/13-15
17	exp SEPSIS/
18	sepsis.ti,ab,kw.
19	BLOOD-BORNE PATHOGENS/
20	(blood\$ adj3 (pathogen\$ or poison\$)).ti,ab.
21	exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
22	"systemic inflammatory response syndrome".ti,ab.
23	SIRS.ti,ab.
24	septic?emi\$.ti,ab,kw.
25	((septic or endotoxic or toxic) adj3 shock).ti,ab.
26	(py?emi\$ or pyohemi\$).ti,ab,kw.
27	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab,kw.
28	or/17-27
29	FETAL MACROSOMIA/
30	macrosomia?.ti,ab,kw.
31	(large adj3 gestational adj3 age?).ab,ti.

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#	Searches
32	(large adj3 date?).ab,ti.
33	or/29-32
34	BREECH PRESENTATION/
35	(breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).ab,ti.
36	or/34-35
37	PREGNANCY, PROLONGED/
38	(pregnan\$ adj3 prolong\$).ab,ti.
39	(pregnan\$ adj1 late).ab,ti.
40	(postterm\$ or post-term\$).ab,ti.
41	(postdate\$ or post-date\$).ab,ti.
42	(overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti.
43	((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti.
44	or/37-43
45	CESAREAN SECTION, REPEAT/
46	CESAREAN SECTION/ and (repeat\$ or previous\$).ti.
47	CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2
48	((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab.
49	VAGINAL BIRTH AFTER CESAREAN/
50	(vagina\$ adj1 (birth\$ or born or deliver\$) adj2 after\$ adj2 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab.
51	VBAC.ti,ab.
52	TRIAL OF LABOR/ and CESAREAN SECTION/
53	(trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab.
54	TOLAC.ti,ab.
55	or/45-54
56	INFANT, SMALL FOR GESTATIONAL AGE/
57	GESTATIONAL AGE/ and small.ti.
58	GESTATIONAL AGE/ and small.ab. /freq=2
59	(small adj3 gestational age?).ab,ti.
60	SGA.ti,ab.
61	FETAL GROWTH RETARDATION/
62	((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab.
63	IUGR.ti,ab.
64	INFANT, LOW BIRTH WEIGHT/
65	exp INFANT, VERY LOW BIRTH WEIGHT/
66	(low birthweight? or low birth weight?).ti,ab.
67	LBW.ti,ab.
68	or/56-67
69	*HEALTH SERVICES ACCESSIBILITY/

#	Searches
70	HEALTHCARE DISPARITIES/
71	HEALTH SERVICES MISUSE/
72	NO-SHOW PATIENTS/
73	((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti.
74	((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.
75	(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.
76	walk\$ in?.ti,ab.
77	((no or non) adj3 engag\$).ti,ab.
78	or/69-77
79	PREGNANCY, UNPLANNED/
80	PREGNANCY, UNWANTED/
81	((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab.
82	or/79-81
83	PERIPARTUM PERIOD/
84	PARTURITION/
85	LABOR, OBSTETRIC/
86	UTERINE CONTRACTION/
87	LABOR ONSET/
88	LABOR STAGE, FIRST/
89	LABOR STAGE, SECOND/
90	OBSTETRIC LABOR, PREMATURE/
91	DELIVERY, OBSTETRIC/
92	(labo?r or childbirth or partur\$ or intra?part\$ or peri?part\$).ti,ab,kw.
93	((during or giving) adj3 birth?).ti,ab.
94	or/83-93
95	HEMORRHAGE/
96	SHOCK, HEMORRHAGIC/
97	UTERINE HEMORRHAGE/
98	or/95-97
99	94 and 98
100	((labo?r or birth? or childbirth? or partur\$ or intra?part\$ or peri?part\$) adj3 (h?emorrhag\$ or bleed\$)).ti,ab.
101	or/99-100
102	*OBSTETRIC LABOR COMPLICATIONS/
103	((obstetric\$ or labo?r) adj2 complication?).ti,ab.
104	or/102-103
105	*PREGNANCY, HIGH-RISK/
106	(pregnan\$ adj2 high\$ adj2 risk\$).ab,ti.
107	or/105-106

Searches

108 33 or 36 or 44 or 55 or 101 or 104 or 107

109 12 and (16 or 28 or 68 or 78 or 82)

110 or/108-109

111 4 and 110

Database: NHS Economic Evaluation Database

#	Searches
1	PERIPARTUM PERIOD/
2	PARTURITION/
3	exp LABOR, OBSTETRIC/
4	OBSTETRIC LABOR, PREMATURE/
5	DELIVERY, OBSTETRIC/
6	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
7	((during or giving or give) adj3 birth?).tw.
8	or/1-7
9	exp FEVER/
10	(fever\$ or pyrexi\$ or hyperthermi\$).tw.
11	((elevat\$ or high\$) adj3 temperature?).tw.
12	or/9-11
13	exp SEPSIS/
14	sepsis.tw.
15	BLOOD-BORNE PATHOGENS/
16	(blood\$ adj3 (pathogen\$ or poison\$)).tw.
17	exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
18	"systemic inflammatory response syndrome".tw.
19	SIRS.tw.
20	septic?emi\$.tw.
21	((septic or endotoxic or toxic) adj3 shock).tw.
22	(py?emi\$ or pyohemi\$).tw.
23	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).tw.
24	or/13-23
25	FETAL MACROSOMIA/
26	macrosomia?.tw.
27	(large adj3 gestational adj3 age?).tw.
28	(large adj3 date?).tw.
29	or/25-28
30	BREECH PRESENTATION/
31	(breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).tw.
32	or/30-31
33	PREGNANCY, PROLONGED/
34	(pregnan\$ adj3 prolong\$).tw.

#	Searches
# 35	(pregnan\$ adj1 late).tw.
36	(postterm\$ or post-term\$).tw.
37	(postdate\$ or post-date\$).tw.
38	(overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).tw.
39	((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth?
55	or labo?r\$)).tw.
40	or/33-39
41	CESAREAN SECTION, REPEAT/
42	CESAREAN SECTION/ and (repeat\$ or previous\$).tw.
43	CESAREAN SECTION/ and (repeat\$ or previous\$).tw.
44	((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw.
45	VAGINAL BIRTH AFTER CESAREAN/
46	(vagina\$ adj1 (birth\$ or born or deliver\$) adj2 after\$ adj2 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).tw.
47	VBAC.tw.
48	TRIAL OF LABOR/ and CESAREAN SECTION/
49	(trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).tw.
50	TOLAC.tw.
51	or/41-50
52	INFANT, SMALL FOR GESTATIONAL AGE/
53	GESTATIONAL AGE/ and small.tw.
54	GESTATIONAL AGE/ and small.tw.
55	(small adj3 gestational age?).tw.
56	SGA.tw.
57	FETAL GROWTH RETARDATION/
58	((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).tw.
59	IUGR.tw.
60	INFANT, LOW BIRTH WEIGHT/
61	exp INFANT, VERY LOW BIRTH WEIGHT/
62	(low birthweight? or low birth weight?).tw.
63	LBW.tw.
64	or/52-63
65	*HEALTH SERVICES ACCESSIBILITY/
66	HEALTHCARE DISPARITIES/
67	HEALTH SERVICES MISUSE/
68	NO-SHOW PATIENTS/
69	((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).tw.
70	
10	((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).tw.

#	Searches
72	walk\$ in?.tw.
73	((no or non) adj3 engag\$).tw.
74	no show.tw.
75	or/65-74
76	PREGNANCY, UNPLANNED/
77	PREGNANCY, UNWANTED/
78	((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).tw.
79	or/76-78
80	PERIPARTUM PERIOD/
81	PARTURITION/
82	LABOR, OBSTETRIC/
83	UTERINE CONTRACTION/
84	LABOR ONSET/
85	LABOR STAGE, FIRST/
86	LABOR STAGE, SECOND/
87	OBSTETRIC LABOR, PREMATURE/
88	DELIVERY, OBSTETRIC/
89	(labo?r or childbirth or partur\$ or intra?part\$ or peri?part\$).tw.
90	((during or giving) adj3 birth?).tw.
91	or/80-90
92	HEMORRHAGE/
93	SHOCK, HEMORRHAGIC/
94	UTERINE HEMORRHAGE/
95	or/92-94
96	91 and 95
97	((labo?r or birth? or childbirth? or partur\$ or intra?part\$ or peri?part\$) adj3 (h?emorrhag\$ or bleed\$)).tw.
98	or/96-97
99	*OBSTETRIC LABOR COMPLICATIONS/
100	((obstetric\$ or labo?r) adj2 complication?).tw.
101	or/99-100
102	*PREGNANCY, HIGH-RISK/
103	(pregnan\$ adj2 high\$ adj2 risk\$).tw.
104	or/102-103
105	29 or 32 or 40 or 51 or 98 or 101 or 104
106	8 and (12 or 24 or 64 or 75 or 79)
107	or/105-106

Database: Health Technology Assessment

#	: Health Technology Assessment Searches
1	PERIPARTUM PERIOD/
2	PARTURITION/
3	exp LABOR, OBSTETRIC/
4	OBSTETRIC LABOR, PREMATURE/
5	DELIVERY, OBSTETRIC/
6	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
7	((during or giving or give) adj3 birth?).tw.
8	or/1-7
9	exp FEVER/
10	(fever\$ or pyrexi\$ or hyperthermi\$).tw.
11	((elevat\$ or high\$) adj3 temperature?).tw.
12	or/9-11
13	exp SEPSIS/
14	sepsis.tw.
15	BLOOD-BORNE PATHOGENS/
16	(blood\$ adj3 (pathogen\$ or poison\$)).tw.
17	exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
18	"systemic inflammatory response syndrome".tw.
19	SIRS.tw.
20	septic?emi\$.tw.
21	((septic or endotoxic or toxic) adj3 shock).tw.
22	(py?emi\$ or pyohemi\$).tw.
23	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).tw.
24	or/13-23
25	FETAL MACROSOMIA/
26	macrosomia?.tw.
27	(large adj3 gestational adj3 age?).tw.
28	(large adj3 date?).tw.
29	or/25-28
30	BREECH PRESENTATION/
31	(breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).tw.
32	or/30-31
33	PREGNANCY, PROLONGED/
34	(pregnan\$ adj3 prolong\$).tw.
35	(pregnan\$ adj1 late).tw.
36	(postterm\$ or post-term\$).tw.
37	(postdate\$ or post-date\$).tw.
38	(overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).tw.
39	((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).tw.

41 42 43 44 45 46	or/33-39 CESAREAN SECTION, REPEAT/ CESAREAN SECTION/ and (repeat\$ or previous\$).tw. CESAREAN SECTION/ and (repeat\$ or previous\$).tw. ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw. VAGINAL BIRTH AFTER CESAREAN/
42 43 44 45 46	CESAREAN SECTION/ and (repeat\$ or previous\$).tw. CESAREAN SECTION/ and (repeat\$ or previous\$).tw. ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw. VAGINAL BIRTH AFTER CESAREAN/
42 43 44 45 46	CESAREAN SECTION/ and (repeat\$ or previous\$).tw. CESAREAN SECTION/ and (repeat\$ or previous\$).tw. ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw. VAGINAL BIRTH AFTER CESAREAN/
43 44 45 46	CESAREAN SECTION/ and (repeat\$ or previous\$).tw. ((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw. VAGINAL BIRTH AFTER CESAREAN/
44 45 46	((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).tw. VAGINAL BIRTH AFTER CESAREAN/
46	
	(vagina\$ adj1 (birth\$ or born or deliver\$) adj2 after\$ adj2 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).tw.
47	VBAC.tw.
48	TRIAL OF LABOR/ and CESAREAN SECTION/
	(trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).tw.
50	TOLAC.tw.
51	or/41-50
52	INFANT, SMALL FOR GESTATIONAL AGE/
53	GESTATIONAL AGE/ and small.tw.
54	GESTATIONAL AGE/ and small.tw.
55	(small adj3 gestational age?).tw.
56	SGA.tw.
57	FETAL GROWTH RETARDATION/
58	((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).tw.
59	IUGR.tw.
60	INFANT, LOW BIRTH WEIGHT/
61	exp INFANT, VERY LOW BIRTH WEIGHT/
62	(low birthweight? or low birth weight?).tw.
63	LBW.tw.
64	or/52-63
65	*HEALTH SERVICES ACCESSIBILITY/
66	HEALTHCARE DISPARITIES/
67	HEALTH SERVICES MISUSE/
68	NO-SHOW PATIENTS/
	((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).tw.
70	((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).tw.
71	(unbook\$ or un-book\$ or (late adj3 book\$)).tw.
72	walk\$ in?.tw.
73	((no or non) adj3 engag\$).tw.
74	no show.tw.
75	or/65-74
76	PREGNANCY, UNPLANNED/
77	PREGNANCY, UNWANTED/

78 (Searches ((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un-
ι	intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).tw.
79 d	or/76-78
80 F	PERIPARTUM PERIOD/
81 F	PARTURITION/
82 L	LABOR, OBSTETRIC/
83 l	UTERINE CONTRACTION/
84 L	LABOR ONSET/
85 L	LABOR STAGE, FIRST/
86 L	LABOR STAGE, SECOND/
87 (OBSTETRIC LABOR, PREMATURE/
88 E	DELIVERY, OBSTETRIC/
89 ((labo?r or childbirth or partur\$ or intra?part\$ or peri?part\$).tw.
90 (((during or giving) adj3 birth?).tw.
91 c	or/80-90
92 H	HEMORRHAGE/
93 5	SHOCK, HEMORRHAGIC/
94 l	UTERINE HEMORRHAGE/
95 c	or/92-94
96 9	91 and 95
	((labo?r or birth? or childbirth? or partur\$ or intra?part\$ or peri?part\$) adj3 (h?emorrhag\$ or bleed\$)).tw.
98 c	or/96-97
99 *	*OBSTETRIC LABOR COMPLICATIONS/
100 (((obstetric\$ or labo?r) adj2 complication?).tw.
101 c	or/99-100
102 *	*PREGNANCY, HIGH-RISK/
103 ((pregnan\$ adj2 high\$ adj2 risk\$).tw.
104 c	or/102-103
105 2	29 or 32 or 40 or 51 or 98 or 101 or 104
106 8	8 and (12 or 24 or 64 or 75 or 79)
107 c	or/105-106

Database: Embase

#	Searches
1	cost.mp.
2	costs.mp.
3	or/1-2
4	*PERINATAL PERIOD/
5	exp *BIRTH/
6	exp *LABOR/

#	Searches
7	*PREMATURE LABOR/
8	*OBSTETRIC DELIVERY/
9	*INTRAPARTUM CARE/
10	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.
11	((during or giving or give) adj3 birth?).ti,ab.
12	or/4-11
13	*FEVER/
14	(fever\$ or pyrexi\$ or hyperthermi\$).ti,ab.
15	((elevat\$ or high\$) adj3 temperature?).ti,ab.
16	or/13-15
17	exp *SEPSIS/
18	sepsis.ti,ab.
19	BLOODBORNE BACTERIUM/
20	(blood\$ adj3 (pathogen\$ or poison\$)).ti,ab.
21	SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
22	"systemic inflammatory response syndrome".ti,ab.
23	SIRS.ti,ab.
24	septic?emi\$.ti,ab.
25	((septic or endotoxic or toxic) adj3 shock).ti,ab.
26	(py?emi\$ or pyohemi\$).ti,ab.
27	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab.
28	or/17-27
29	MACROSOMIA/
30	macrosomia?.ti,ab.
31	(large adj3 gestational adj3 age?).ab,ti.
32	(large adj3 date?).ab,ti.
33	or/29-32
34	BREECH PRESENTATION/
35	(breech\$ adj3 (present\$ or complet\$ or incomplet\$ or frank\$)).ab,ti.
36	or/34-35
37	PROLONGED PREGNANCY/
38	(pregnan\$ adj3 prolong\$).ab,ti.
39	(pregnan\$ adj1 late).ab,ti.
40	(postterm\$ or post-term\$).ab,ti.
41	(postdate\$ or post-date\$).ab,ti.
42	(overdue? adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti.
43	((42 week? or fourty two week? or fourty second week?) adj5 (pregnan\$ or birth? or childbirth? or labo?r\$)).ab,ti.
44	or/37-43
45	REPEAT CESAREAN SECTION/
46	CESAREAN SECTION/ and (repeat\$ or previous\$).ti.

#	Searches
47	CESAREAN SECTION/ and (repeat\$ or previous\$).ab. /freq=2
48	((c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$)) adj3 (repeat\$ or previous\$)).ti,ab.
49	VAGINAL BIRTH AFTER CESAREAN/
50	(vagina\$ adj1 (birth\$ or born or deliver\$) adj2 after\$ adj2 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab.
51	VBAC.ti,ab.
52	"TRIAL OF LABOR"/ and CESAREAN SECTION/
53	(trial adj2 labo?r adj3 after\$ adj3 (c?esar#an\$ or c section\$ or csection\$ or (deliver\$ adj3 abdom\$))).ti,ab.
54	TOLAC.ti,ab.
55	or/45-54
56	*SMALL FOR DATE INFANT/
57	GESTATIONAL AGE/ and small.ti.
58	GESTATIONAL AGE/ and small.ab. /freq=2
59	(small adj3 gestational age?).ab,ti.
60	SGA.ti,ab.
61	*INTRAUTERINE GROWTH RETARDATION/
62	((fetal\$ or fetus\$ or intrauterine) adj3 grow\$ adj3 (restrict\$ or retard\$)).ti,ab.
63	IUGR.ti,ab.
64	*LOW BIRTH WEIGHT/
65	exp *VERY LOW BIRTH WEIGHT/
66	(low birthweight? or low birth weight?).ti,ab.
67	LBW.ti,ab.
68	or/56-67
69	*HEALTH CARE DISPARITY/
70	PATIENT ATTENDANCE/
71	((no or late or delay\$ or lack\$ or without) adj5 (antenatal\$ or prenatal\$ or pre-natal\$) adj3 care).ab,ti.
72	((no or unable or retsrict\$ or limit\$) adj3 access\$ adj3 (care or healthcare or service?)).ti,ab.
73	(unbook\$ or un-book\$ or (late adj3 book\$)).ti,ab.
74	walk\$ in?.ti,ab.
75	((no or non) adj3 engag\$).ti,ab.
76	no show.ti,ab.
77	or/69-76
78	UNPLANNED PREGNANCY/
79	UNWANTED PREGNANCY/
80	((conceal\$ or hide? or hidden or hiding or unexpected or un-expected or unintended or un- intended or unsuspect\$ or un-suspect\$ or unaware or un-aware or unplanned or un-planned or unwanted or un-wanted) adj3 pregnan\$).ti,ab.
81	or/78-80
82	*PERINATAL PERIOD/

#	Searches
83	*BIRTH/
84	*LABOR/
85	UTERUS CONTRACTION/
86	LABOR ONSET/
87	LABOR STAGE 1/
88	LABOR STAGE 2/
89	*PREMATURE LABOR/
90	*OBSTETRIC DELIVERY/
91	*INTRAPARTUM CARE/
92	(labo?r or childbirth or partur\$ or intra?part\$ or peri?part\$).ti,ab.
93	((during or giving) adj3 birth?).ti,ab.
94	or/82-93
95	*BLEEDING/
96	OBSTETRIC HEMORRHAGE/
97	INTRAPARTUM HEMORRHAGE/
98	HEMORRHAGIC SHOCK/
99	UTERUS BLEEDING/
100	or/95-99
101	94 and 100
102	((labo?r or birth? or childbirth? or partur\$ or intra?part\$ or peri?part\$) adj3 (h?emorrhag\$ or bleed\$)).ti,ab.
103	or/101-102
104	*LABOR COMPLICATION/
105	((obstetric\$ or labo?r) adj2 complication?).ti,ab.
106	or/104-105
107	*HIGH RISK PREGNANCY/
108	(pregnan\$ adj2 high\$ adj2 risk\$).ab,ti.
109	or/107-108
110	33 or 36 or 44 or 55 or 103 or 106 or 109
111	12 and (16 or 28 or 68 or 77 or 81)
112	or/110-111
113	limit 112 to english language
114	letter.pt. or LETTER/
115	note.pt.
116	editorial.pt.
117	CASE REPORT/ or CASE STUDY/
118	(letter or comment*).ti.
119	or/114-118
120	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
121	119 not 120
122	ANIMAL/ not HUMAN/

#	Searches
123	NONHUMAN/
124	exp ANIMAL EXPERIMENT/
125	exp EXPERIMENTAL ANIMAL/
126	ANIMAL MODEL/
127	exp RODENT/
128	(rat or rats or mouse or mice).ti.
129	or/121-128
130	113 not 129
131	3 and 130

Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

Batabases: Medline; Medline EPub Ahead of Print; and Medline In-Process & Other Non-4 Indexed Citations

#	Searches
1	ECONOMICS/
2	VALUE OF LIFE/
3	exp "COSTS AND COST ANALYSIS"/
4	exp ECONOMICS, HOSPITAL/
5	exp ECONOMICS, MEDICAL/
6	exp RESOURCE ALLOCATION/
7	ECONOMICS, NURSING/
8	ECONOMICS, PHARMACEUTICAL/
9	exp "FEES AND CHARGES"/
10	exp BUDGETS/
11	budget*.ti,ab.
12	cost*.ti,ab.
13	(economic* or pharmaco?economic*).ti,ab.
14	(price* or pricing*).ti,ab.
15	(financ* or fees or expenditure* or saving*).ti,ab.
16	(value adj2 (money or monetary)).ti,ab.
17	resourc* allocat*.ti,ab.
18	(fund or funds or funding* or funded).ti,ab.
19	(ration or rations or rationing* or rationed).ti,ab.
20	ec.fs.
21	or/1-20
22	PREGNANCY/
23	PREGNANCY, HIGH-RISK/
24	exp PREGNANCY, MULTIPLE/
25	PERIPARTUM PERIOD/

#	Searches
26	PARTURITION/
27	exp LABOR, OBSTETRIC/
28	OBSTETRIC LABOR, PREMATURE/
29	DELIVERY, OBSTETRIC/
30	pregnan\$.ti,ab.
31	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.
32	((during or giving or give) adj3 birth?).ti,ab.
33	or/22-32
34	exp SEPSIS/
35	sepsis.ti,ab.
36	BLOOD-BORNE PATHOGENS/
37	(blood\$ adj3 (pathogen\$ or poison\$)).ti,ab.
38	exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
39	"systemic inflammatory response syndrome".ti,ab.
40	SIRS.ti,ab.
41	septic?emi\$.ti,ab.
42	((septic or endotoxic or toxic) adj3 shock).ti,ab.
43	(py?emi\$ or pyohemi\$).ti,ab.
44	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab.
45	or/34-44
46	STREPTOCOCCAL INFECTIONS/
47	group A strep\$.ti,ab.
48	group B strep\$.ti,ab.
49	exp ESCHERICHIA COLI INFECTIONS/
50	Escherichia coli.ti,ab.
51	e-coli.ti,ab.
52	exp PNEUMOCOCCAL INFECTIONS/
53	(streptococ\$ adj3 pneumon\$).ti,ab.
54	INFLUENZA, HUMAN/
55	flu.ti,ab.
56	influenza.ti,ab.
57	or/46-56
58	45 or 57
59	ANTI-BACTERIAL AGENTS/
60	(Antibacterial? or anti-bacterial? or antibiotic? or anti-biotic?).ti,ab.
61	(Alamethicin or Amoxicillin or Anisomycin or Aurodox or Azlocillin or Aztreonam or Bacitracin or Bacteriocin? or Bambermycin? or Bongkrekic Acid or Calcimycin or Capreomycin or Carfecillin or Chloramphenicol or Chlortetracycline or Ciprofloxacin or Citrinin or Clavulanic Acid? or Colistin or Dactinomycin or Daptomycin or Demeclocycline or Diketopiperazine? or Distamycin? or Doxycycline or Echinomycin or Edeine or Enoxacin or Enviomycin or Fluoroquinolone? or Fosfomycin or Fusidic Acid or Gramicidin or Lactam? or Lasalocid or

Leucomycin? or Levofloxacin or Lincomycin or Lincosamide? or Linezolid or Lymecycline or

#	Searches
	Methacycline or Mezlocillin or Mikamycin or Minocycline or Moxalactam or Mupirocin or Mycobacillin or Nalidixic Acid or Nigericin or Nisin or Norfloxacin or Novobiocin or Ofloxacin or Oxolinic Acid or Oxytetracycline or Pefloxacin or Penicillic Acid or Pipemidic Acid or Piperacillin or Pivampicillin or Polymyxin B or Polymyxin? or Pristinamycin or Prodigiosin or Rifabutin or Rifamycin? or Rolitetracycline or Roxarsone or Streptogramin? or Sulfamerazine or Sulfamethoxypyridazine or Talampicillin or Tetracycline or Thiamphenicol or Thiostrepton or Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp.
62	or/59-61
63	exp CEPHALOSPORINS/
64	(Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cefixime or Cefmenoxime or Cefotiam or Ceftizoxime or Ceftriaxone or Cefuroxime or Cephalothin or Cephapirin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or Cephamycin? or Cefmetazole or Cefotetan or Cefoxitin or Ceftazoline or Ceftobiprole).mp.
65	or/63-64
66	exp AMINOGLYCOSIDES/
67	(Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilmicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framycetin or Paromomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp.
68	or/66-67
69	exp PENICILLINS/
70	(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp.
71	or/69-70
72	exp GLYCOPEPTIDES/
73	(Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.
74	or/72-73
75	exp MACROLIDES/
76	(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.
77	CLINDAMYCIN/
78	Clindamycin.mp.
79	or/75-78
80	exp CARBAPENEMS/
81	(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.
82	CILASTATIN/
83	Cilastatin.mp.

#	Searches
84	or/80-83
85	exp NITROIMIDAZOLES/
86	(Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp.
87	or/85-86
88	exp ANTIVIRAL AGENTS/ not (exp ANTI-RETROVIRAL AGENTS/ or exp VIRAL FUSION PROTEIN INHIBITORS/)
89	(Antiviral? or anti-viral?).ti,ab.
90	(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp.
91	or/88-90
92	DRUG EVALUATION/
93	(drug? and (evaluat\$ or effective\$ or efficacy)).ti,ab.
94	or/92-93
95	exp ANTI-BACTERIAL AGENTS/pd [Pharmacology]
96	exp DECISION SUPPORT TECHNIQUES/
97	(decision? adj5 (aid? or analys\$ or model\$ or support\$ or model\$ or techni\$)).ti,ab.
98	(Clinical\$ adj3 predict\$ adj3 rule?).ti,ab.
99	(data adj5 (interpret\$ or analys\$)).ti,ab.
100	or/96-99
101	FETAL DEATH/
102	STILLBIRTH/
103	PERINATAL DEATH/
104	((fetal or fetus) adj3 death?).ti,ab.
105	(stillbirths? or stillborn?).ti,ab.
106	(intrauterine adj3 death?).ti,ab.
107	(perinatal adj3 death?).ti,ab.
108	or/101-107
109	((sepsis adj5 manag\$) and (maternal or mother?)).ti,ab.
110	(sepsis adj5 (pregnan\$ or partu\$ or intra?part\$ or peri?part\$)).ti.
111	or/109-110
112	UK Obstetric Surveillance System.ti,ab.
113	UKOSS.ti,ab.
114	"Mothers and babies? reducing risk through audits and confidential enquiries across the UK".ti,ab.
115	MBRRACE.ti,ab.
116	Scottish confidential audit of severe maternal morbidity.ti,ab.
117	SCASMM.ti,ab.

#	Searches
118	"Confidential Enquiry into Maternal and Child Health".ti,ab.
119	CEMACH.ti,ab.
120	or/112-119
121	33 and 58 and 65 and (68 or 71 or 74 or 79 or 84 or 87)
122	33 and 58 and 68 and (65 or 71 or 74 or 79 or 84 or 87)
123	33 and 58 and 71 and (65 or 68 or 74 or 79 or 84 or 87)
124	33 and 58 and 74 and (65 or 68 or 71 or 79 or 84 or 87)
125	33 and 58 and 79 and (65 or 68 or 71 or 74 or 84 or 87)
126	33 and 58 and 84 and (65 or 68 or 71 or 74 or 79 or 87)
127	33 and 58 and 87 and (65 or 68 or 71 or 74 or 79 or 84)
128	33 and 58 and (62 or 65 or 68 or 71 or 74 or 79 or 84 or 87) and 91
129	33 and 58 and (62 or 65 or 68 or 71 or 74 or 79 or 84 or 87 or 91) and 94
130	33 and 58 and 95
131	33 and 58 and (62 or 65 or 68 or 71 or 74 or 79 or 84 or 87 or 91) and 100
132	58 and (62 or 65 or 68 or 71 or 74 or 79 or 84 or 87 or 91) and 108
133	(62 or 65 or 68 or 71 or 74 or 79 or 84 or 87 or 91) and 111
134	58 and 120
135	or/121-134
136	limit 135 to english language
137	LETTER/
138	EDITORIAL/
139	NEWS/
140	exp HISTORICAL ARTICLE/
141	ANECDOTES AS TOPIC/
142	COMMENT/
143	CASE REPORT/
144	(letter or comment*).ti.
145	or/137-144
146	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
147	145 not 146
148	ANIMALS/ not HUMANS/
149	exp ANIMALS, LABORATORY/
150	exp ANIMAL EXPERIMENTATION/
151	exp MODELS, ANIMAL/
152	exp RODENTIA/
153	(rat or rats or mouse or mice).ti.
154	or/147-153
155	136 not 154
156	21 and 155

Database: Cochrane Central Register of Controlled Trials

#	Searches
1	ECONOMICS/
2	VALUE OF LIFE/
3	exp "COSTS AND COST ANALYSIS"/
4	exp ECONOMICS, HOSPITAL/
5	exp ECONOMICS, MEDICAL/
6	exp RESOURCE ALLOCATION/
7	ECONOMICS, NURSING/
8	ECONOMICS, PHARMACEUTICAL/
9	exp "FEES AND CHARGES"/
10	exp BUDGETS/
11	budget*.ti,ab.
12	cost*.ti,ab.
13	(economic* or pharmaco?economic*).ti,ab.
14	(price* or pricing*).ti,ab.
15	(financ* or fee or fees or expenditure* or saving*).ti,ab.
16	(value adj2 (money or monetary)).ti,ab.
17	resourc* allocat*.ti,ab.
18	(fund or funds or funding* or funded).ti,ab.
19	(ration or rations or rationing* or rationed).ti,ab.
20	ec.fs.
21	or/1-20
22	PREGNANCY/
23	PREGNANCY, HIGH-RISK/
24	exp PREGNANCY, MULTIPLE/
25	PERIPARTUM PERIOD/
26	PARTURITION/
27	exp LABOR, OBSTETRIC/
28	OBSTETRIC LABOR, PREMATURE/
29	DELIVERY, OBSTETRIC/
30	pregnan\$.ti,ab,kw.
31	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab,kw.
32	((during or giving or give) adj3 birth?).ti,ab.
33	or/22-32
33	exp SEPSIS/
35	sepsis.ti,ab,kw.
36	BLOOD-BORNE PATHOGENS/
37	(blood\$ adj3 (pathogen\$ or poison\$)).ti,ab.
38	exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
39	"systemic inflammatory response syndrome".ti,ab,kw.
40	SIRS.ti,ab.

щ	Searches
#	
41	septic?emi\$.ti,ab,kw.
42	((septic or endotoxic or toxic) adj3 shock).ti,ab.
43	(py?emi\$ or pyohemi\$).ti,ab,kw.
44	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab,kw.
45	or/34-44
46	STREPTOCOCCAL INFECTIONS/
47	group A strep\$.ti,ab,kw.
48	group B strep\$.ti,ab,kw.
49	exp ESCHERICHIA COLI INFECTIONS/
50	Escherichia coli.ti,ab,kw.
51	e-coli.ti,ab,kw.
52	exp PNEUMOCOCCAL INFECTIONS/
53	(streptococ\$ adj3 pneumon\$).ti,ab.
54	INFLUENZA, HUMAN/
55	flu.ti,ab,kw.
56	influenza.ti,ab,kw.
57	or/46-56
58	45 or 57
59	ANTI-BACTERIAL AGENTS/
60	(Antibacterial? or anti-bacterial? or antibiotic? or anti-biotic?).ti,ab,kw.
61	(Alamethicin or Amoxicillin or Anisomycin or Aurodox or Azlocillin or Aztreonam or Bacitracin or Bacteriocin? or Bambermycin? or Bongkrekic Acid or Calcimycin or Capreomycin or Carfecillin or Chloramphenicol or Chlortetracycline or Ciprofloxacin or Citrinin or Clavulanic Acid? or Colistin or Dactinomycin or Daptomycin or Demeclocycline or Diketopiperazine? or Distamycin? or Doxycycline or Echinomycin or Edeine or Enoxacin or Enviomycin or Fluoroquinolone? or Fosfomycin or Fusidic Acid or Gramicidin or Lactam? or Lasalocid or Leucomycin? or Levofloxacin or Lincomycin or Minocycline or Moxalactam or Mupirocin or Methacycline or Mezlocillin or Mikamycin or Nisin or Norfloxacin or Novobiocin or Ofloxacin or Oxolinic Acid or Oxytetracycline or Pefloxacin or Penicillic Acid or Pipemidic Acid or Piperacillin or Pivampicillin or Polymyxin B or Polymyxin? or Pristinamycin or Prodigiosin or Rifabutin or Rifamycin? or Rolitetracycline or Talampicillin or Tetracycline or Thiamphenicol or Thiostrepton or Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp.
62	or/59-61
63	exp CEPHALOSPORINS/
64	(Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cefixime or Cefmenoxime or Cefotiam or Ceftizoxime or Ceftriaxone or Cefuroxime or Cephalothin or Cephapirin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or Cephamycin? or Cefmetazole or Cefotetan or Cefoxitin or Ceftazoline or Ceftobiprole).mp.
65	or/63-64
66	exp AMINOGLYCOSIDES/

 Controley Controley	#	Searches
 oʻr Epirubicin oʻr Idarubicin oʻr Nogalamycin oʻr Menogarli oʻr Plicamycin oʻr Autirosin Sulfate oʻr Gentamycin oʻr Tobramycin oʻr Netlimicin oʻr Hygromycin oʻr Kanamycin oʻr Paromomycin oʻr Ribostamycin oʻr Tobramycin oʻr Spectinomycin oʻr Streptomycin oʻr Dihydrostreptomycin sulfate oʻr Streptothnicin? oʻr Streptozocin).mp. oʻr/66-67 exp PENICILLINS/ (Pencillin? oʻr Amdinocillin oʻr Cyclacillin oʻr Methicillin oʻr Nafollin oʻr Cloxacillin oʻr Dicloxacillin oʻr Floxacillin oʻr Penicillanic Acid oʻr Ampicillin oʻr Cateenicillin oʻr Subactam oʻr Ticarcillin).mp. oʻr/69-70 exp GLYCOPEPTIDES/ (Glycopeptide') oʻr Bleomycin oʻr Peplomycin oʻr Phleomycin? oʻr Peptidoglycan oʻr Ristocetin oʻr Teicoplanin oʻr Vancomycin oʻr Peplomycin oʻr Phleomycin? oʻr Peptidoglycan oʻr Ristocetin oʻr Teicoplanin oʻr Vancomycin oʻr Oritavancin oʻr Cligonycin? oʻr Rutamycin oʻr Natamycin oʻr Nystatin oʻr Qleandomycin oʻr Toleandomycin oʻr Oligonycin? oʻr Rutamycin oʻr Sirolimus oʻr Everolimus oʻr Tacrolimus oʻr Tylosin oʻr Amptotericin B oʻr Antimycin oʻr Sirolimus oʻr Everolimus oʻr Tacrolimus oʻr Tylosin oʻr Amptotericin B oʻr Antimycin oʻr Clarithromycin oʻr Kitasamycin oʻr Siparmycin oʻr Elipin oʻr lvermectin oʻr Josamycin oʻr Lautomycin oʻr Kitasamycin oʻr Siparmycin oʻr Flipin oʻr lvermectin oʻr Josamycin oʻr Lautomycin oʻr Kitasamycin oʻr Siparmycin oʻr Impenem oʻr Meropenem oʻr Ertapenem).mp. CILNDAMYCIN// Ciladanycin.mp. oʻr/75-78 exp NATROIIDAZOLES/ (Nitroimidazole; oʻr Dimetridazole oʻr Ipronidazole oʻr Indiazole oʻr Misonidazole oʻr Mimorazole oʻr Ormidazole oʻr Ipronidazole or Metronidazole oʻr Misonidazole oʻr Nimorazole oʻr Ormidazole or Ipronidazole or Siropinycin oʻr Astatatin.mp. oʻr/85-86 exp NITIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? oʻr anti-viral?).ti, ab, kw. (1-Doxynojirimycin oʻr Cyatylo	_	
 exp PENICILLINS/ (Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Sulbactam or Ticarcillin).mp. or/69-70 exp GLYCOPEPTIDES/ (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/72-73 exp MACROLIDES/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Laucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ CLindamycin.mp. or/75-78 exp CARBAPENEMS/ (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. Cillastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonazole or Omioazole or Omioazole or Omioazole or Sinoacole or Omioazole or Sinoacole or Omioazole or Omioazole or Sinoacole or Dimetridazole or Inicidazole or Misonidazole or Misonidazole or Ninorazole or Omicazole or Chartorol or Diedoxyadenosine or Didoxyadenosine or Phosphonacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rabavirin or Sinoacole or Oritiazone or Filipin or Filipin or Foscamet or Ganc?clovir or Hosonidazole or Tindiazole? Or Dimetridazole or Filipin or Foscamet or Ganc?clovir or Palivizumab or Phosphonacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rabavirin or Rabavirin or Sinoacole or Oriticazole or Filipin or Foscamet or Ganc?clovir or Pali	67	or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilmicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framycetin or Paromomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate
 (Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Subactam or Ticarcillin) np. or/69-70 exp GLYCOPEPTIDES/ (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/72-73 exp MACROLIDES/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Toleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everofilmus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Kitasamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ Clindamycin.mp. Or/75-78 exp CARBAPENEMS/ (Garbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. CILASTATIN/ Cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Mitroimidazole? or Dimetridazole or Ornidazole or Metroindazole or Mitorial action or Misonadole or Ornidazole or Mitorial action or Ornidazole or Thieoander).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Decoynojirimycin or Active or Solosuvir or Flavancin or Thieoander) or Diedoxyadenosine or Diedoxyadenosine or Diedoxyadenosine or Diedoxyadenosine or Tilonarologi or Tilonarol or Attropycin or Actory or Mitorial or Antivycin or Thieoander) or Ornidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Decoynojirimycin or Aotylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyaden	68	or/66-67
Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbactam or Ticarcillin).mp. 1 or/69-70 2 exp GLYCOPEPTIDES/ 73 (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 74 or/72-73 75 exp MACROLIDES/ 76 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Toroleandomycin or Erythromycin or Arithmycin or Sirolimus or Strokatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Kitasamycin or Spiramycin or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Impenem or Meropenem or Ertapenem).mp. 77 CLINDAMYCIN/ 78 cilastatin.mp. 79 or/75-78 80 exp CARBAPENEMS/ 81 Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. 82 CILASTATIN/ 83 cilastatin.mp. 84 or/80-83 85 exp NITROIMDAZOLES/ 86 (Antiviral? or anti-viral?) tot exp ANTI-RETROVIRAL AGENTS/ 89 <td>69</td> <td>exp PENICILLINS/</td>	69	exp PENICILLINS/
72 exp GLYCOPEPTIDES/ 73 (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 74 or/72-73 75 exp MACROLIDES/ 76 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin or Olarithromycin or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Jastromycin or Clarithromycin or Clarithromycin or Sirolimus or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin? 77 CLINDAMYCIN/ 78 Clindamycin.mp. 79 or/75-78 80 exp CARBAPENEMS/ 81 (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. 82 ClLASTATIN/ 83 Cilastatin.mp. 84 or/80-83 85 exp NITROIMIDAZOLES/ 86 exp NITROIMIDAZOLES/ 87 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ 88 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIR	70	Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or
 (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/72-73 exp MACROLIDES/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ktebolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filayin or Ivermectin or Josamycin or Leucomycins or Kitasamycin.mp. CLINDAMYCIN/ Clindamycin.mp. or/75-78 exp CARBAPENEMS/ (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. CiLASTATIN/ Cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole or Misonidazole? or Dimetridazole or Conidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditocarb or Ertiticitabine or Filipin or Foscamet or Gane?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or rilorone or Triflurdine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	71	or/69-70
Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 74 or/72-73 75 exp MACROLIDES/ 76 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin.mp. 77 CLINDAMYCIN/ 78 Clindamycin.mp. 79 or/75-78 80 exp CARBAPENEMS/ 81 (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. 82 CILASTATIN/ 83 Cilastatin.mp. 84 or/80-83 85 exp NITROIMIDAZOLES/ 86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ 87 or/85-86 88 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ 89 (Antiviral? or anti-viral?).ti.ab.kw. 90 (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromdeoxyuridine or Unosine Pranobex or Interferon? or Methisazone o	72	exp GLYCOPEPTIDES/
75exp MACROLIDES/76(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.77CLINDAMYCIN/78Clindamycin.mp.79or/75-7880exp CARBAPENEMS/81(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.82CILASTATIN/83Cilastatin.mp.84or/80-8385exp NITROIMIDAZOLES/86exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/89(Antiviral? or anti-viral?).ti, ab, kw.90(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyundine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynolecoside? or Diticarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idavuridine or Sineprevir or Sofosbuvir or Streptovaricin or Tenofoxir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir, mp.91or/88-90	73	
 76 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Sirolimus or Sirolimus or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Fidaxomicin).mp. 77 CLINDAMYCIN/ 78 Clindamycin.mp. 79 or/75-78 80 exp CARBAPENEMS/ 81 (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. 82 CILASTATIN/ 83 Cilastatin.mp. 84 or/80-83 85 exp NITROIMIDAZOLES/ 86 (Nitroimidazole? or Dimetridazole or Etanidazole or Inidazole or Misonidazole or Misonidazole or Nisonidazole or Ornidazole or Ornidazole or Sinsonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. 87 or/85-86 88 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ 89 (Antiviral? or anti-viral?).ti, ab, kw. 90 (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inspine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivirzumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Sineprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. 91 or/88-90 	74	or/72-73
Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.77CLINDAMYCIN/78Clindamycin.mp.79or/75-7880exp CARBAPENEMS/81(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.82CILASTATIN/83Cilastatin.mp.84or/80-8385exp NITROIMIDAZOLES/86(Nitroimidazole or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole? or Dimetridazole or Conidazole or Tinidazole.mp.87or/85-8688exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/89(Antiviral?) ti, ab, kw.90(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Itavirian or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Sineprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp.91or/88-90	75	exp MACROLIDES/
 Clindamycin.mp. or/75-78 exp CARBAPENEMS/ (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. CILASTATIN/ Cilastatin.mp. cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	76	Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or
 or/75-78 exp CARBAPENEMS/ (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. CILASTATIN/ Cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Dinterferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	77	CLINDAMYCIN/
 exp CARBAPENEMS/ (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. CILASTATIN/ Cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	78	Clindamycin.mp.
 81 (Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp. 82 CILASTATIN/ 83 Cilastatin.mp. 84 or/80-83 85 exp NITROIMIDAZOLES/ 86 (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. 87 or/85-86 88 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ 89 (Antiviral? or anti-viral?).ti,ab,kw. 90 (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. 91 or/88-90 	79	or/75-78
 CILASTATIN/ Cilastatin.mp. or/80-83 exp NITROIMIDAZOLES/ (Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	80	exp CARBAPENEMS/
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 Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp. or/85-86 exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/ (Antiviral? or anti-viral?).ti,ab,kw. (1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp. or/88-90 	85	exp NITROIMIDAZOLES/
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	90	Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid
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	92	DRUG EVALUATION/

93 (drug? and (evaluat\$ or effective\$ or efficacy)).ti,ab. 94 or/92-93 95 exp ANTI-BACTERIAL AGENTS/pd [Pharmacology] 96 exp DECISION SUPPORT TECHNIQUES/ 97 (decision? adj5 (aid? or analys\$ or model\$ or support\$ or model\$ or techni\$)).ti,ab. 97 (decision? adj5 (aid? or analys\$) or model\$ or support\$ or model\$ or techni\$)).ti,ab. 99 (data adj5 (interpret\$ or analys\$).ti,ab. 99 (data adj5 (interpret\$ or analys\$).ti,ab. 90 ords6-99 101 FETAL DEATH/ 102 STILLBIRTH/ 103 PERINATAL DEATH/ 104 (ffetat or feus) adj3 death?).ti,ab. 105 (stillbirths? or stillborn?).ti,ab.kw. 106 (intrauterine adj3 death?).ti,ab. 107 (perinatal adj3 death?).ti,ab. 108 or/101-107 109 ((sepsis adj5 (pregnan\$ or partu\$ or intra?part\$ or peri?part\$)).ti. 111 or/10-107 112 UK Obstetric Surveillance System.ti,ab. 113 UKOSS.ti,ab. 114 "Mothers and babies? reducing risk through audits and confidential enquiries acros	#	Searches
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Database: NHS Economic Evaluation Database

 PREGNANCY/ PREGNANCY, HIGH-RISK/ exp PREGNANCY, MULTIPLE/ PERIPARTUM PERIOD/ PARTURITION/ exp LABOR, OBSTETRIC/ OBSTETRIC LABOR, PREMATURE/ DELIVERY, OBSTETRIC/ pregnan\$.tw. (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw. ((during or giving or give) adj3 birth?).tw.
 exp PREGNANCY, MULTIPLE/ PERIPARTUM PERIOD/ PARTURITION/ exp LABOR, OBSTETRIC/ OBSTETRIC LABOR, PREMATURE/ DELIVERY, OBSTETRIC/ pregnan\$.tw. (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
 4 PERIPARTUM PERIOD/ 5 PARTURITION/ 6 exp LABOR, OBSTETRIC/ 7 OBSTETRIC LABOR, PREMATURE/ 8 DELIVERY, OBSTETRIC/ 9 pregnan\$.tw. 10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
 5 PARTURITION/ 6 exp LABOR, OBSTETRIC/ 7 OBSTETRIC LABOR, PREMATURE/ 8 DELIVERY, OBSTETRIC/ 9 pregnan\$.tw. 10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
 exp LABOR, OBSTETRIC/ OBSTETRIC LABOR, PREMATURE/ DELIVERY, OBSTETRIC/ pregnan\$.tw. (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
 7 OBSTETRIC LABOR, PREMATURE/ 8 DELIVERY, OBSTETRIC/ 9 pregnan\$.tw. 10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
 8 DELIVERY, OBSTETRIC/ 9 pregnan\$.tw. 10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
9 pregnan\$.tw.10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
10 (labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.
11 ((during or giving or give) adj3 birth?).tw.
12 or/1-11
13 exp SEPSIS/
14 sepsis.tw.
15 BLOOD-BORNE PATHOGENS/
16 (blood\$ adj3 (pathogen\$ or poison\$)).tw.
17 exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/
18 "systemic inflammatory response syndrome".tw.
19 SIRS.tw.
20 septic?emi\$.tw.
21 ((septic or endotoxic or toxic) adj3 shock).tw.
22 (py?emi\$ or pyohemi\$).tw.
23 (bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).tw.
24 or/13-23
25 STREPTOCOCCAL INFECTIONS/
26 group A strep\$.tw.
27 group B strep\$.tw.
28 exp ESCHERICHIA COLI INFECTIONS/
29 Escherichia coli.tw.
30 e-coli.tw.
31 exp PNEUMOCOCCAL INFECTIONS/
32 (streptococ\$ adj3 pneumon\$).tw.
33 INFLUENZA, HUMAN/
34 flu.tw.

#	Searches
35	influenza.tw.
36	or/25-35
37	24 or 36
38	ANTI-BACTERIAL AGENTS/
39	(Antibacterial? or anti-bacterial? or antibiotic? or anti-biotic?).tw.
40	(Alamethicin or Amoxicillin or Anisomycin or Aurodox or Azlocillin or Aztreonam or Bacitracin or Bacteriocin? or Bambermycin? or Bongkrekic Acid or Calcimycin or Capreomycin or Carfecillin or Chloramphenicol or Chlortetracycline or Ciprofloxacin or Citrinin or Clavulanic Acid? or Colistin or Dactinomycin or Daptomycin or Demeclocycline or Diketopiperazine? or Distamycin? or Doxycycline or Echinomycin or Edeine or Enoxacin or Enviomycin or Fluoroquinolone? or Fosfomycin or Fusidic Acid or Gramicidin or Lactam? or Lasalocid or Leucomycin? or Levofloxacin or Lincomycin or Lincosamide? or Linezolid or Lymecycline or Methacycline or Mezlocillin or Mikamycin or Minocycline or Moxalactam or Mupirocin or Oxolinic Acid or Oxytetracycline or Pefloxacin or Penicillic Acid or Pipemidic Acid or Piperacillin or Pivampicillin or Polymyxin B or Polymyxin? or Pristinamycin or Prodigiosin or Rifabutin or Rifamycin? or Rolitetracycline or Roxarsone or Streptogramin? or Sulfamerazine or Sulfamethoxypyridazine or Talampicillin or Tetracycline or Thiamphenicol or Thiostrepton or Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp.
41	or/38-40
42	exp CEPHALOSPORINS/
43	(Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cefixime or Cefmenoxime or Cefotiam or Ceftizoxime or Ceftriaxone or Cefuroxime or Cephalothin or Cephapirin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or Cephamycin? or Cefmetazole or Cefotetan or Cefoxitin or Ceftazoline or Ceftobiprole).mp.
44	or/42-43
45	exp AMINOGLYCOSIDES/
46	(Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilmicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framycetin or Paromomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp.
47	or/45-46
48	exp PENICILLINS/
49	(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp.
50	or/48-49
51	exp GLYCOPEPTIDES/
52	(Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.
53	or/51-52
54	exp MACROLIDES/

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
# 55	(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or
55	Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.
56	CLINDAMYCIN/
57	Clindamycin.mp.
58	or/54-57
59	exp CARBAPENEMS/
60	(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.
61	CILASTATIN/
62	Cilastatin.mp.
63	or/59-62
64	exp NITROIMIDAZOLES/
65	(Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Ornidazole or Ronidazole or Tinidazole).mp.
66	or/64-65
67	exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/
68	(Antiviral? or anti-viral?).tw.
69	(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp.
70	or/67-69
71	DRUG EVALUATION/
72	(drug? and (evaluat\$ or effective\$ or efficacy)).tw.
73	or/71-72
74	exp ANTI-BACTERIAL AGENTS/pd [Pharmacology]
75	exp DECISION SUPPORT TECHNIQUES/
76	(decision? adj5 (aid? or analys\$ or model\$ or support\$ or model\$ or techni\$)).tw.
77	(Clinical\$ adj3 predict\$ adj3 rule?).tw.
78	(data adj5 (interpret\$ or analys\$)).tw.
79	or/75-78
80	FETAL DEATH/
81	STILLBIRTH/
82	PERINATAL DEATH/
83	((fetal or fetus) adj3 death?).tw.
84	(stillbirths? or stillborn?).tw.
85	(intrauterine adj3 death?).tw.
86	(perinatal adj3 death?).tw.

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

#	Searches
87	or/80-86
88	((sepsis adj5 manag\$) and (maternal or mother?)).tw.
89	(sepsis adj5 (pregnan\$ or partu\$ or intra?part\$ or peri?part\$)).tw.
90	or/88-89
91	UK Obstetric Surveillance System.tw.
92	UKOSS.tw.
93	"Mothers and babies? reducing risk through audits and confidential enquiries across the UK".tw.
94	MBRRACE.tw.
95	Scottish confidential audit of severe maternal morbidity.tw.
96	SCASMM.tw.
97	"Confidential Enquiry into Maternal and Child Health".tw.
98	CEMACH.tw.
99	or/91-98
100	12 and 37 and 44 and (47 or 50 or 53 or 58 or 63 or 66)
101	12 and 37 and 47 and (44 or 50 or 53 or 58 or 63 or 66)
102	12 and 37 and 50 and (44 or 47 or 53 or 58 or 63 or 66)
103	12 and 37 and 53 and (44 or 47 or 50 or 58 or 63 or 66)
104	12 and 37 and 58 and (44 or 47 or 50 or 53 or 63 or 66)
105	12 and 37 and 63 and (44 or 47 or 50 or 53 or 58 or 66)
106	12 and 37 and 66 and (44 or 47 or 50 or 53 or 58 or 63)
107	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66) and 70
108	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 73
109	12 and 37 and 74
110	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 79
111	37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 87
112	(41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 90
113	37 and 99
114	or/100-113

Database: Health Technology Assessment

#	Searches
1	PREGNANCY/
2	PREGNANCY, HIGH-RISK/
3	exp PREGNANCY, MULTIPLE/
4	PERIPARTUM PERIOD/
5	PARTURITION/
6	exp LABOR, OBSTETRIC/
7	OBSTETRIC LABOR, PREMATURE/
8	DELIVERY, OBSTETRIC/
9	pregnan\$.tw.

#	Searches	
# 10	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).tw.	
11	((during or giving or give) adj3 birth?).tw.	
12	or/1-11	
13	exp SEPSIS/	
14	sepsis.tw.	
15	BLOOD-BORNE PATHOGENS/	
16	BLOOD-BORNE PATHOGENS/ (blood\$ adj3 (pathogen\$ or poison\$)).tw.	
17	(blood\$ adj3 (pathogen\$ or poison\$)).tw. exp SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/	
18	"systemic inflammatory response syndrome".tw.	
19	SIRS.tw.	
20	septic?emi\$.tw.	
21	((septic or endotoxic or toxic) adj3 shock).tw.	
22	(py?emi\$ or pyohemi\$).tw.	
23	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).tw.	
24	or/13-23	
25	STREPTOCOCCAL INFECTIONS/	
26	group A strep\$.tw.	
27	group B strep\$.tw.	
28		
29	Escherichia coli.tw.	
30	e-coli.tw.	
31	exp PNEUMOCOCCAL INFECTIONS/	
32	(streptococ\$ adj3 pneumon\$).tw.	
33	INFLUENZA, HUMAN/	
34	flu.tw.	
35	influenza.tw.	
36	or/25-35	
37	24 or 36	
38	ANTI-BACTERIAL AGENTS/	
39	(Antibacterial? or anti-bacterial? or antibiotic? or anti-biotic?).tw.	
40	(Alamethicin or Amoxicillin or Anisomycin or Aurodox or Azlocillin or Aztreonam or Bacitracin or Bacteriocin? or Bambermycin? or Bongkrekic Acid or Calcimycin or Capreomycin or Carfecillin or Chloramphenicol or Chlortetracycline or Ciprofloxacin or Citrinin or Clavulanic Acid? or Colistin or Dactinomycin or Daptomycin or Demeclocycline or Diketopiperazine? or Distamycin? or Doxycycline or Echinomycin or Edeine or Enoxacin or Enviomycin or Fluoroquinolone? or Fosfomycin or Fusidic Acid or Gramicidin or Lactam? or Lasalocid or Leucomycin? or Levofloxacin or Lincomycin or Lincosamide? or Linezolid or Lymecycline or Methacycline or Mezlocillin or Mikamycin or Minocycline or Moxalactam or Mupirocin or Mycobacillin or Nalidixic Acid or Nigericin or Nisin or Norfloxacin or Novobiocin or Ofloxacin or Oxolinic Acid or Oxytetracycline or Pefloxacin or Penicillic Acid or Pipemidic Acid or Piperacillin or Pivampicillin or Polymyxin B or Polymyxin? or Pristinamycin or Prodigiosin or Rifabutin or Rifamycin? or Rolitetracycline or Roxarsone or Streptogramin? or Sulfamerazine or Sulfamethoxypyridazine or Talampicillin or Tetracycline or Thiamphenicol or Thiostrepton or	

#	Searches	
	Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp.	
41	or/38-40	
42	exp CEPHALOSPORINS/	
43	(Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cefixime or Cefmenoxime or Cefotiam or Ceftizoxime or Ceftriaxone or Cefuroxime or Cephalothin or Cephapirin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or Cephamycin? or Cefmetazole or Cefotetan or Cefoxitin or Ceftazoline or Ceftobiprole).mp.	
44	or/42-43	
45	exp AMINOGLYCOSIDES/	
46	(Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilmicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framycetin or Paromomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp.	
47	or/45-46	
48	exp PENICILLINS/	
49	(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp.	
50	or/48-49	
51	exp GLYCOPEPTIDES/	
52	(Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.	
53	or/51-52	
54	exp MACROLIDES/	
55	(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.	
56	CLINDAMYCIN/	
57	Clindamycin.mp.	
58	or/54-57	
59	exp CARBAPENEMS/	
60	(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.	
61	CILASTATIN/	
62	Cilastatin.mp.	
63	or/59-62	
64	exp NITROIMIDAZOLES/	
65	(Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp.	
66	or/64-65	

#	Searches	
 67	exp ANTIVIRAL AGENTS/ not exp ANTI-RETROVIRAL AGENTS/	
68	(Antiviral? or anti-viral?).tw.	
69	(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp.	
70	or/67-69	
71	DRUG EVALUATION/	
72	(drug? and (evaluat\$ or effective\$ or efficacy)).tw.	
73	or/71-72	
74	exp ANTI-BACTERIAL AGENTS/pd [Pharmacology]	
75	exp DECISION SUPPORT TECHNIQUES/	
76	(decision? adj5 (aid? or analys\$ or model\$ or support\$ or model\$ or techni\$)).tw.	
77	(Clinical\$ adj3 predict\$ adj3 rule?).tw.	
78	(data adj5 (interpret\$ or analys\$)).tw.	
79	or/75-78	
80	FETAL DEATH/	
81	STILLBIRTH/	
82		
83	((fetal or fetus) adj3 death?).tw.	
84	(stillbirths? or stillborn?).tw.	
85	(intrauterine adj3 death?).tw.	
86	(perinatal adj3 death?).tw.	
87	or/80-86	
88	((sepsis adj5 manag\$) and (maternal or mother?)).tw.	
89	(sepsis adj5 (pregnan\$ or partu\$ or intra?part\$ or peri?part\$)).tw.	
90	or/88-89	
91	UK Obstetric Surveillance System.tw.	
92	UKOSS.tw.	
93	"Mothers and babies? reducing risk through audits and confidential enquiries across the UK".tw.	
94	MBRRACE.tw.	
95	Scottish confidential audit of severe maternal morbidity.tw.	
96	SCASMM.tw.	
97	"Confidential Enquiry into Maternal and Child Health".tw.	
98	CEMACH.tw.	
99	or/91-98	
100	12 and 37 and 44 and (47 or 50 or 53 or 58 or 63 or 66)	
101	12 and 37 and 47 and (44 or 50 or 53 or 58 or 63 or 66)	
102	12 and 37 and 50 and (44 or 47 or 53 or 58 or 63 or 66)	

#	Searches
103	12 and 37 and 53 and (44 or 47 or 50 or 58 or 63 or 66)
104	12 and 37 and 58 and (44 or 47 or 50 or 53 or 63 or 66)
105	12 and 37 and 63 and (44 or 47 or 50 or 53 or 58 or 66)
106	12 and 37 and 66 and (44 or 47 or 50 or 53 or 58 or 63)
107	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66) and 70
108	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 73
109	12 and 37 and 74
110	12 and 37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 79
111	37 and (41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 87
112	(41 or 44 or 47 or 50 or 53 or 58 or 63 or 66 or 70) and 90
113	37 and 99

114 or/100-113

Database: Embase

#	Searches
1	HEALTH ECONOMICS/
2	exp ECONOMIC EVALUATION/
3	exp HEALTH CARE COST/
4	exp FEE/
5	BUDGET/
6	FUNDING/
7	RESOURCE ALLOCATION/
8	budget*.ti,ab.
9	cost*.ti,ab.
10	(economic* or pharmaco?economic*).ti,ab.
11	(price* or pricing*).ti,ab.
12	(financ* or fee or fees or expenditure* or saving*).ti,ab.
13	(value adj2 (money or monetary)).ti,ab.
14	resourc* allocat*.ti,ab.
15	(fund or funds or funding* or funded).ti,ab.
16	(ration or rations or rationing* or rationed).ti,ab.
17	or/1-16
18	*PREGNANCY/
19	*HIGH RISK PREGNANCY/
20	exp *MULTIPLE PREGNANCY/
21	*PERINATAL PERIOD/
22	*BIRTH/
23	exp *LABOR/
24	*PREMATURE LABOR/
25	*OBSTETRIC DELIVERY/
26	*INTRAPARTUM CARE/

#	Searches	
27	pregnan\$.ti,ab.	
28	(labo?r or childbirth or partu\$ or intra?part\$ or peri?part\$).ti,ab.	
	(abo ? or childbirth of parts or parts or per ? parts).ti,ab.((during or giving or give) adj3 birth?).ti,ab.	
30 or/18-29		
31		
32	sepsis.ti,ab.	
33	*BLOODBORNE BACTERIUM/	
34 25	(blood\$ adj3 (pathogen\$ or poison\$)).ti,ab. *SYSTEMIC INFLAMMATORY RESPONSE SYNDROME/	
35		
36	"systemic inflammatory response syndrome".ti,ab.	
37	SIRS.ti,ab.	
38	septic?emi\$.ti,ab.	
39	((septic or endotoxic or toxic) adj3 shock).ti,ab.	
40	(py?emi\$ or pyohemi\$).ti,ab.	
41	(bacter?emi\$ or fung?emi\$ or parasit?emi\$ or vir?emi\$ or endotox?emi\$ or candid?emi\$).ti,ab.	
42	or/31-41	
43	exp *GROUP A STREPTOCOCCAL INFECTION/	
44	exp *GROUP B STREPTOCOCCAL INFECTION/	
45	group A strep\$.ti,ab.	
46	group B strep\$.ti,ab.	
47	*ESCHERICHIA COLI INFECTION/	
48	Escherichia coli.ti,ab.	
49	e-coli.ti,ab.	
50	exp *PNEUMOCOCCAL INFECTION/	
51	(streptococ\$ adj3 pneumon\$).ti,ab.	
52	exp *INFLUENZA/ not SWINE INFLUENZA/	
53	flu.ti,ab.	
54	influenza.ti,ab.	
55	or/43-54	
56	42 or 55	
57	ANTIINFECTIVE AGENT/	
58	(Antibacterial? or anti-bacterial? or antibiotic? or anti-biotic?).ti,ab.	
59	(Alamethicin or Amoxicillin or Anisomycin or Aurodox or Azlocillin or Aztreonam or Bacitracin or Bacteriocin? or Bambermycin? or Bongkrekic Acid or Calcimycin or Capreomycin or Carfecillin or Chloramphenicol or Chlortetracycline or Ciprofloxacin or Citrinin or Clavulanic Acid? or Colistin or Dactinomycin or Daptomycin or Demeclocycline or Diketopiperazine? or Distamycin? or Doxycycline or Echinomycin or Edeine or Enoxacin or Enviomycin or Fluoroquinolone? or Fosfomycin or Fusidic Acid or Gramicidin or Lactam? or Lasalocid or Leucomycin? or Levofloxacin or Lincomycin or Lincosamide? or Linezolid or Lymecycline or Methacycline or Mezlocillin or Mikamycin or Minocycline or Moxalactam or Mupirocin or Oxolinic Acid or Oxytetracycline or Pefloxacin or Penicillic Acid or Pipemidic Acid or Piperacillin or Pivampicillin or Polymyxin B or Polymyxin? or Pristinamycin or Prodigiosin or Rifabutin or Rifamycin? or Rolitetracycline or Roxarsone or Streptogramin? or Sulfamerazine or	

Sulfamethoxypyridazine or Talampicillin or Tetracycline or Thiamphenicol or Thiostrepton or Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp. 60 or/57-59 61 exp CEPHALOSPORIN DERIVATIVE/ 62 (Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefutoxime or Cephalothin or Cephalorin or Cephaloxin or Cefaciance or Cefadroxil or Cefatrizine or Cephalolytin or Cephalorin or Cephaloxin or Cefatorovine or Cephacetrile or Cefotoxime or Cephalothin or Cephalorin or Cephaloxin or Cefatorovine or Cephacetrile or Cefotoxime or Cephalothin or Cephalorin or Cephaloxin or Devolution or Cephacetrile or Cefotoxime or Cefotoxin or Cefotoxin or Cefatorovine or Cephaloxin or Dosorubicin or Cephacetrile or Idarubicin or Nogalamycin or Maenogani or Plicamycin or Buttrosin Suffate or Gentamycin or Tobramycin or Nogelamycin or Streptomycin or Chamamycin or Antikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp. 66 exp PENICILLIN DERIVATIVE/ 68 (Penicillin? or Amdinocillin or Cyclacillin or Metricillin or Nafcillin or Caxacillin or Sulbactam or Ticarcillin).mp. 69 or/67-68 70 GLYCOPEPTIDE/ 71 VANCOMYCIN 72 VANCOMYCIN DERIVATIVE/ 73 ORITAVANCIN/ 74 TELAVANCIN/ 75 (Qiycopepti	#	Searches
 Trimethoprim 'or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or Virginiamycin or beta-Lactam?).mp. or/57-59 exp CEPHALOSPORIN DERIVATIVE/ (Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefnicid or Cefsluxime or Cefnicacettile or Cefotazime or Cefnicime or Cephalorin or Cephalorine or Cefaticavine or Cephanycin? or Cefartazole or Cephalorin or Cephalorine or Commission or Nationary or Vernamycin or Butrosin Sulfate or Gentamicn? or Sisonicion or Netilinei on r Hygomycin or Khamamycin or Amikacin or Dibekacin or Nobramycin or Streptochnicin or Divorwpicin or Khamamycin or Amikacin or Dibekacin or Streptothricin? O' Streptozocin).mp. or/64-65 or/64-65 exp PAINICILLIN DERIVATIVE/ (Pencillin? or Kandinocillin or Cyclacillin or Methicillin or Nacillin or Caxacillin or Cloxacillin or Dickacetilin or Floxacillin or Cyclacillin or Methicillin or Nafeillin or Caxacillin or Dickacetilin or Floxacillin or Pencillanic Acid or Ampicillin or Carbenicillin or Subenicillin or Subactano Ticaretillin).mp. or/67-68 GLYCOPEPTIDE/ VANCOMYCIN DERIVATIVE/ ORTAVANCIN/ TELAVANCIN/ TELAVANCIN/ ORTAVANCIN/ ORTAVANCIN/ ORTAVANCIN/ ORTAVANCIN/ ORTAVANCIN/ OLINDAMYCIN/ CLINDAMYCIN/ CLINDAMYCIN/		
61 exp CEPHALOSPORIN DERIVATIVE/ 62 (Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cephalothin or Cephalorin or Cephaloridime or Ceftazioxime or Cefatraxine or Cefarizine or Cephalothin or Cephalorin or Cephaloridine or Ceftazidime or Cefatraxine or Cefarizacie or Cephalothin or Cephalorin or Cephaloridine or Ceftazidime or Cephamycin? or Cefaretazole or Cefotatin or Cefoxitin or Ceftazolin or Ceftazidime or Cephamycin? or Cefarizine or Cephalogiycin or Actarubicin or Daunorubicin or Carubicin or Doxorubicin or Kebramycin or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Cephamycin or Obstamycin or Negalamycin or Menogaril or Plicamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framyceni or Paromycin or Ribostamycin or Duromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin or Substamycin or Puromycin or Spectinomycin or Streptomycin or Carbenicillin or Dicloxacillin or Floxacillin or Operacidi or Amikoillin or Oxacillin or Coxacillin or Dicloxacillin or Floxacillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Subbactam or Ticarcillin).mp. 69 or/67-68 71 VANCOMYCIN/ 72 VANCOMYCIN/ 73 ORITAVANCIN/ 74 TELAVANCIN/ 75 (Glycopeptide? or Bleomycin or Phelomycin? or Pheptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 76 or/70-75 77 expMacolide? or Lucensomycin or Maptansine or Mepartricin or		Trimethoprim or Tyrocidine or Tyrothricin or Valinomycin or Vernamycin B or Viomycin or
 Cephalosporin? or Cefamandole or Cefoperazone or Cefazolin or Cefonicid or Cefsulodin or Cephacetrile or Cefotaxime or Cefixime or Cefoparion or Cephalorini or Cefaclor or Cefadroxil or Cefatrizine or Cephalothin or Cephalorini or Cephaloridine or Ceftazidime or Cephanycin? or Cefmetazole or Cefotetam or Cephaloritin or Cephaloridine or Ceftobiprole).mp. or/61-62 exp AMINOGLYCOSIDE ANTIBIOTIC AGENT/ (Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilamycin or Menogaril or Plicamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Spectinomycin or Streptomycin or Dihydrostreptomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp. or/64-65 exp PENICILLIN DERIVATIVE/ (Penicillin? or Andinocillin or Cyclacillin or Methicillin or Natcillin or Clasacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp. or/67-68 ORITAVANCIN/ TELAVANCIN/ TELAVANCIN/ (Glycopeptide? or Bleomycin or Peplomycin or Telavancin).mp. or/70-75 exp MACROLIDE/ (Macrolide? or Lucensomycin or Toleandomycin or Joleandricin or Antimycin or Nystatin or Oleandomycin or Flugoni or Antimycin or Suterior or Substatin? or Candicidin or Epothilon? or Antimycin or Antimycin or Nystatin? or Candicidin or Epothilon? or Josamycin or Antimycin or Silomus or Kitasamycin or Spiramycin or Flugoni or Amphotericin B or Antimycin or Silomus or Kitasamycin or Silomin or Flugoni or Amphotericin B or Antimycin A or Bryostatin? or Candicidin or Epothilon? Or Erythromycin or Antithycin A or Bryostatin? or Candicidin or Epothilon? Or Erythr	60 or/57-59	
Cephacetrile or Cefotaxime or Ceffxime or Cephapitin or Cephapitine or Description or Datapitic or Mathematicine or Sitepitothicin or Nation or Dibekacin or Dibekacin or Dibekacin or Cephapitine or Cephapitine or Cephapitine or Cephapitine or Cephapitine or Cephapitine or Steptothicine or Steptothricine or Steptothricine or Steptothricine or Steptothricine or Seteptothricine or Seteptothricine or Seteptothricine or Seteptothricine or Cyclasillin or Cyclasillin or Cyclasillin or Cabapitiline or Cabapitiline or Cabapitiline or Cabapitiline or Cabapitiline or Cabapitiline or Subbactan or Ticarcillin).mp. 66 or/67-68 or/67-68 or/67-68 71 VANCOMYCIN/ TELAVANCIN/ TELAVANCIN/ or/70-75 72 exp MACROLIDE/ <td>61</td> <td>exp CEPHALOSPORIN DERIVATIVE/</td>	61	exp CEPHALOSPORIN DERIVATIVE/
 Av AMINOGLYCOSIDE ANTIBIOTIC AGENT/ (Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Doxorubicin or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netelimicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Spectinomycin or Streptomycin or Dihydrostreptomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp. or/64-65 exp PENICILLIN DERIVATIVE/ (Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Sulbactam or Ticarcillin).mp. or/67-68 GLYCOPEPTIDE/ VANCOMYCIN/ VANCOMYCIN/ VANCOMYCIN/ TELAVANCIN/ TELAVANCIN/ GRITAVANCIN/ TELAVANCIN/ (Giycopeptide? or Bleomycin or Pelomycin or Phleomycin? or Rutamycin or Natamycin or Nystatin or Uacensomycin or Tyleandomycin or Oligomycin? or Rutamycin or Nystatin or Oleandomycin or Tyleandomycin or Oligomycin? or Rutamycin or Nystatin or Cleandomycin or Flutone? or Erythromycin or Clarithromycin or Kitasamycin or Spiramycin or Fluton? Clindamycin.mp. Clindamycin or Spiramycin or Fluton? Orifar-80 CARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	62	Cephacetrile or Cefotaxime or Cefixime or Cefmenoxime or Cefotiam or Ceftizoxime or Ceftriaxone or Cefuroxime or Cephalothin or Cephapirin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or
65(Aminoglycoside? or Anthracycline? or Aclarubicin or Daunorubicin or Carubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netelimicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate or Streptothricin? or Streptozocin).mp.66or/64-6567exp PENICILLIN DERIVATIVE/68(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Ticarcillin).mp.69or/67-6870GLYCOPEPTIDE/71VANCOMYCIN/72VANCOMYCIN/73ORITAVANCIN/74TELAVANCIN/75(Gjycopeptide? or Bleomycin or Pelomycin or Peloemycin or Natamycin or Natacetin or Teicoplanin or Vancomycin or Oritavancin or Nelavancin).mp.76or/70-7577exp MACROLIDE/78(Macrolide? or Lucensomycin or Maytansine or Mepatricin or Micamycin or Natamycin or Nystatin or Oleandomycin or Tylesin or Amphotericin B or Antimycin or Sirolimus or Everolimus or Tacrolinus or Tylesin or Amphotericin B or Antimycin or Clarithromycin or Kitasamycin or Spiramycin or Fildayomicin).mp.79CLINDAMYCIN/71CARBAPENEM DERIVATIVE/72CARBAPENEM DERIVATIVE/73MEROPENEM/74TELAVANCIN/75Glycopetide? or Bleomycin or Pelomycin or Telavancin).mp.76or/70-7577exp MACROLIDE/78(Macrolide? or Cucensomycin or Tylesin or Amphotericin B or Antimycin A or Bryostatin? Or Candicidin or	63	or/61-62
or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netlimicin or Hygromycin or Kanamycin or Paromomycin or Ribostamycin or Tobramycin or Streptozocin).mp.66or/64-6567exp PENICILLIN DERIVATIVE/68(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Subbenicillin or Subactam or Ticarcillin).mp.69or/67-6870GLYCOPEPTIDE/71VANCOMYCIN/72VANCOMYCIN/73ORITAVANCIN/74TELAVANCIN/75(Glycopeptide? or Bleomycin or Pelomycin or Pleomycin? or Peptidoglycan or Ristocetin or Teicoptide? or Lucensomycin or Maytansine or Mepartricin or Micoamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Ampinetin or Oligomycin? or Strolimus or Systatin or Oleandomycin or Fleiponycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin or Sirolimus or Everolimus or Tacrolimus or Fleiponycin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiralmus or Fleipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiralmus or Spiralmus Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? Or Erythromycin or Leucomycins or Kitasamycin or Spiralmus or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiralmus or Flipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiralmus or Flipin or Ivermectin or	64	exp AMINOGLYCOSIDE ANTIBIOTIC AGENT/
67exp PENICILLIN DERIVATIVE/68(Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp.69or/67-6870GLYCOPEPTIDE/71VANCOMYCIN/72VANCOMYCIN DERIVATIVE/73ORITAVANCIN/74TELAVANCIN/75(Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.76or/70-7577exp MACROLIDE/78(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Tioleandomycin or Oligomycin? or Rutamycin or Suystatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Fiverolimus or Tacolimus or Tioleandomycin or Lucensorycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivernectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or	65	or Epirubicin or Idarubicin or Nogalamycin or Menogaril or Plicamycin or Butirosin Sulfate or Gentamicin? or Sisomicin or Netilmicin or Hygromycin or Kanamycin or Amikacin or Dibekacin or Nebramycin or Tobramycin or Metrizamide or Neomycin or Framycetin or Paromomycin or Ribostamycin or Puromycin or Spectinomycin or Streptomycin or Dihydrostreptomycin Sulfate
 (Penicillin? or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp. or/67-68 GLYCOPEPTIDE/ VANCOMYCIN VANCOMYCIN DERIVATIVE/ ORITAVANCIN/ TELAVANCIN/ (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/70-75 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Tioleandomycin or Oligomycin? or Rutamycin or Nystatin or Oleandomycin or Tioleandomycin or Josamycin or Clarithromycin or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Sutosamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ CLINDAMYCIN/ CRABAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	66	or/64-65
Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin).mp.69or/67-6870GLYCOPEPTIDE/71VANCOMYCIN/72VANCOMYCIN DERIVATIVE/73ORITAVANCIN/74TELAVANCIN/75(Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.76or/70-7577exp MACROLIDE/78(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miccamycin or Natamycin or Nystatin or Oleandomycin or Filipin or Ivermectin or Josamycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.79CLINDAMYCIN/80Clindamycin.mp.81or/77-8082CARBAPENEM DERIVATIVE/83MEROPENEM/84ERTAPENEM/	67	exp PENICILLIN DERIVATIVE/
 GLYCOPEPTIDE/ GLYCOPEPTIDE/ VANCOMYCIN/ VANCOMYCIN DERIVATIVE/ ORITAVANCIN/ TELAVANCIN/ TELAVANCIN/ Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/70-75 exp MACROLIDE/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Sirolimus or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Artity Siroli Ali Ali Ali Ali Ali Ali Ali Ali Ali A	68	Dicloxacillin or Floxacillin or Penicillanic Acid or Ampicillin or Carbenicillin or Sulbenicillin or
 YANCOMYCIN/ VANCOMYCIN DERIVATIVE/ ORITAVANCIN/ TELAVANCIN/ TELAVANCIN/ Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/70-75 exp MACROLIDE/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Goxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Application or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Ketolide? CLINDAMYCIN/ CLINDAMYCIN/ CARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	69	or/67-68
 VANCOMYCIN DERIVATIVE/ ORITAVANCIN/ TELAVANCIN/ TELAVANCIN/ Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/70-75 exp MACROLIDE/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Filaxomicin).mp. CLINDAMYCIN/ Clindamycin.mp. or/77-80 CARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	70	GLYCOPEPTIDE/
 73 ORITAVANCIN/ 74 TELAVANCIN/ 75 (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 76 or/70-75 77 exp MACROLIDE/ 78 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. 79 CLINDAMYCIN/ 80 Clindamycin.mp. 81 or/77-80 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	71	VANCOMYCIN/
 TELAVANCIN/ (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. or/70-75 exp MACROLIDE/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Kitasamycin or Spiramycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ Clindamycin.mp. ARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	72	VANCOMYCIN DERIVATIVE/
 75 (Glycopeptide? or Bleomycin or Peplomycin or Phleomycin? or Peptidoglycan or Ristocetin or Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp. 76 or/70-75 77 exp MACROLIDE/ 78 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. 79 CLINDAMYCIN/ 80 Clindamycin.mp. 81 or/77-80 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	73	ORITAVANCIN/
Teicoplanin or Vancomycin or Oritavancin or Telavancin).mp.76or/70-7577exp MACROLIDE/78(Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp.79CLINDAMYCIN/80Clindamycin.mp.81or/77-8082CARBAPENEM DERIVATIVE/83MEROPENEM/84ERTAPENEM/	74	TELAVANCIN/
 exp MACROLIDE/ (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ CLindamycin.mp. or/77-80 CARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	75	
 78 (Macrolide? or Lucensomycin or Maytansine or Mepartricin or Miocamycin or Natamycin or Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. 79 CLINDAMYCIN/ 80 Clindamycin.mp. 81 or/77-80 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	76	or/70-75
 Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or Kitasamycin or Spiramycin or Fidaxomicin).mp. CLINDAMYCIN/ Clindamycin.mp. or/77-80 CARBAPENEM DERIVATIVE/ MEROPENEM/ ERTAPENEM/ 	77	exp MACROLIDE/
 80 Clindamycin.mp. 81 or/77-80 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	78	Nystatin or Oleandomycin or Troleandomycin or Oligomycin? or Rutamycin or Sirolimus or Everolimus or Tacrolimus or Tylosin or Amphotericin B or Antimycin A or Brefeldin A or Bryostatin? or Candicidin or Epothilone? or Erythromycin or Azithromycin or Clarithromycin or Ketolide? or Roxithromycin or Filipin or Ivermectin or Josamycin or Leucomycins or
 81 or/77-80 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	79	CLINDAMYCIN/
 82 CARBAPENEM DERIVATIVE/ 83 MEROPENEM/ 84 ERTAPENEM/ 	80	Clindamycin.mp.
83MEROPENEM/84ERTAPENEM/	81	or/77-80
84 ERTAPENEM/	82	CARBAPENEM DERIVATIVE/
	83	MEROPENEM/
95 (Carbononem2 or Thionomyoin2 or Iminonem or Marcononem or Ertenenem) me	84	ERTAPENEM/
os (Carbapenent: or Thenamych: or Impenent or Meropenent or Enapenent).mp.	85	(Carbapenem? or Thienamycin? or Imipenem or Meropenem or Ertapenem).mp.

#	Searches	
86	CILASTATIN/	
87	Cilastatin.mp.	
88	or/82-87	
89	exp NITROIMIDAZOLE DERIVATIVE/	
90	(Nitroimidazole? or Dimetridazole or Etanidazole or Ipronidazole or Metronidazole or Misonidazole or Nimorazole or Ornidazole or Ronidazole or Tinidazole).mp.	
91	or/89-90	
92	exp ANTIVIRUS AGENT/ not (exp ANTIRETROVIRUS AGENT/ or exp VIRUS FUSION INHIBITOR/)	
93	(Antiviral? or anti-viral?).ti,ab.	
94	(1-Deoxynojirimycin or Acetylcysteine or Ac?clovir or Amantadine or Aphidicolin or Brefeldin or Bromodeoxyuridine or Cytarabine or Deoxyglucose or Dideoxyadenosine or Dideoxynucleoside? or Ditiocarb or Emtricitabine or Filipin or Foscarnet or Ganc?clovir or Idoxuridine or Inosine Pranobex or Interferon? or Methisazone or Netropsin or Oseltamivir or Palivizumab or Phosphonoacetic Acid or Poly A-U or Poly I-C or Pyran Copolymer or Ribavirin or Rimantadine or Simeprevir or Sofosbuvir or Streptovaricin or Tenofovir or Tenuazonic Acid or Tilorone or Trifluridine or Tunicamycin or Vidarabine or Zanamivir).mp.	
95	or/92-94	
96	DRUG EFFICACY/	
97	(drug? and (evaluat\$ or effective\$ or efficacy)).ti,ab.	
98	or/96-97	
99	exp ANTIINFECTIVE AGENT/pd [Pharmacology]	
100	exp ANTIINFECTIVE AGENT/cm [Drug Comparison]	
101	exp DECISION SUPPORT SYSTEM/	
102	(decision? adj5 (aid? or analys\$ or model\$ or support\$ or model\$ or techni\$)).ti,ab.	
103	(Clinical\$ adj3 predict\$ adj3 rule?).ti,ab.	
104	(data adj5 (interpret\$ or analys\$)).ti,ab.	
105	or/101-104	
106	*FETUS DEATH/	
107	*STILLBIRTH/	
108	*PERINATAL DEATH/	
109	((fetal or fetus) adj3 death?).ti,ab.	
110	(stillbirths? or stillborn?).ti,ab.	
111	(intrauterine adj3 death?).ti,ab.	
112		
113		
114	((sepsis adj5 manag\$) and (maternal or mother?)).ti,ab.	
115	(sepsis adj5 (pregnan\$ or partu\$ or intra?part\$ or peri?part\$)).ti.	
116		
117	UK Obstetric Surveillance System.ti,ab.	
118	UKOSS.ti,ab.	
119	"Mothers and babies? reducing risk through audits and confidential enquiries across the UK".ti,ab.	

#	Searches
120	MBRRACE.ti,ab.
121	Scottish confidential audit of severe maternal morbidity.ti,ab.
122	SCASMM.ti,ab.
123	"Confidential Enquiry into Maternal and Child Health".ti,ab.
123	CEMACH.ti,ab.
125	or/117-124
126	30 and 56 and 63 and (66 or 69 or 76 or 81 or 88 or 91)
127	30 and 56 and 66 and (63 or 69 or 76 or 81 or 88 or 91)
128	30 and 56 and 69 and (63 or 66 or 76 or 81 or 88 or 91)
129	30 and 56 and 76 and (63 or 66 or 69 or 81 or 88 or 91)
130	30 and 56 and 81 and (63 or 66 or 69 or 76 or 88 or 91)
131	30 and 56 and 88 and (63 or 66 or 69 or 76 or 81 or 91)
132	30 and 56 and 91 and (63 or 66 or 69 or 76 or 81 or 88)
133	30 and 56 and (60 or 63 or 66 or 69 or 76 or 81 or 88 or 91) and 95
134	30 and 56 and (60 or 63 or 66 or 69 or 76 or 81 or 88 or 91 or 95) and 98
135	30 and 56 and 99
136	30 and 56 and 100
137	30 and 56 and (60 or 63 or 66 or 69 or 76 or 81 or 88 or 91 or 95) and 105
138	56 and (60 or 63 or 66 or 69 or 76 or 81 or 88 or 91 or 95) and 113
139	(60 or 63 or 66 or 69 or 76 or 81 or 88 or 91 or 95) and 116
140	56 and 125
141	or/126-140
142	limit 141 to english language
143	letter.pt. or LETTER/
144	note.pt.
145	editorial.pt.
146	CASE REPORT/ or CASE STUDY/
147	(letter or comment*).ti.
148	or/143-147
149	RANDOMIZED CONTROLLED TRIAL/ or random*.ti,ab.
150	148 not 149
151	ANIMAL/ not HUMAN/
152	NONHUMAN/
153	exp ANIMAL EXPERIMENT/
154	exp EXPERIMENTAL ANIMAL/
155	ANIMAL MODEL/
156	exp RODENT/
157	(rat or rats or mouse or mice).ti.
158	or/150-157
159	142 not 158
160	17 and 159

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

1

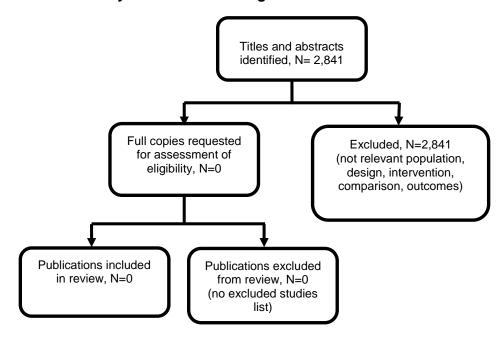
Appendix B – Economic evidence study selection

Bealth economics global search for women at high risk of adverse outcomes for 4 themselves and/or their baby because of existing maternal medical conditions

5 Figure 27: Flow diagram of economic article selection for global health economic 6 search for women at high risk of adverse outcomes for themselves and/or

7

their baby because of existing maternal medical conditions

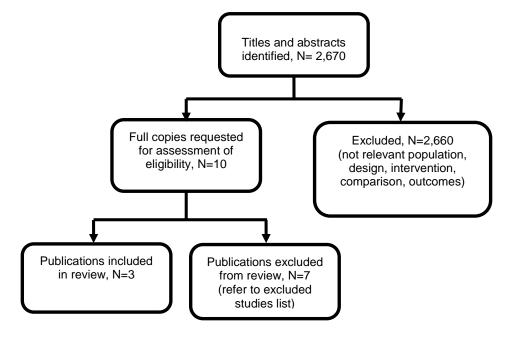


8

Health economics global search for women at high risk of adverse outcomes for 2 themselves and/or their baby because of obstetric complications or other 3 reasons

4 Figure 28: Flow diagram of economic article selection for global health economic

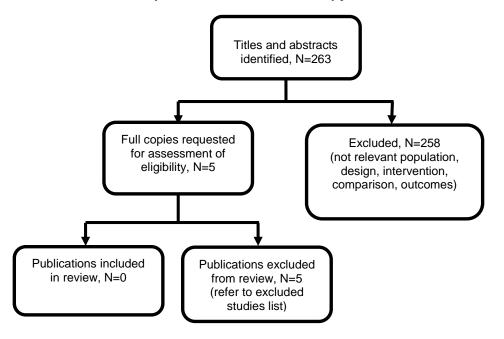
- 5 search for women at high risk of adverse outcomes for themselves and/or
- 6 their baby because of obstetric complications or other reasons



7

Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

3 Figure 29: Flow diagram of economic article selection for intrapartum care for 4 women with sepsis – antimicrobial therapy



5

Appendix C – Excluded studies

Health economics global search for women at high risk of adverse outcomes for 8 themselves and/or their baby because of existing maternal medical conditions

9 No full-text copies of articles were requested for this review and so there is no excluded10 studies list.

1Health economics global search for women at high risk of adverse outcomes for 12 themselves and/or their baby because of obstetric complications or other

13 reasons

Study	Reason for exclusion
Centre for, Reviews, Dissemination,, A cost- effectiveness analysis of the intrapartum fetal pulse oximetry multicentre randomised controlled trial (the FOREMOST trial) (Structured abstract), 2006	Population is women with a non-reassuring cardiotocograph trace, which does not match the populations for the fetal monitoring review questions considered in the guideline

Study	Reason for exclusion
Culligan,P.J., Myers,J.A., Goldberg,R.P., Blackwell,L., Gohmann,S.F., Abell,T.D., Elective cesarean section to prevent anal incontinence and brachial plexus injuries associated with macrosomia - A decision analysis, International Urogynecology Journal and Pelvic Floor Dysfunction, 16, -28, 2005	Population is pregnant women at 39 weeks of gestation, but not intrapartum
Herbst,M.A., Treatment of suspected fetal macrosomia: a cost-effectiveness analysis, American Journal of Obstetrics and Gynecology, 193, 1035-1039, 2005	Population is pregnant women, but not intrapartum
Ozmen, B., Sukur, Y. E., Yuce, T., Bayramov, V., Olmus, H., Sonmezer, M., Atabekoglu, C. S., Mode of delivery and birth complications in fetal macrosomia: A simple cost-effectiveness analysis, Turkish Journal of Medical Sciences, 42, 119-125, 2012	Cost analysis rather than a full economic evaluation; also based on a retrospective analysis and a setting that may be of limited relevance to the UK
Palencia, R., Gafni, A., Hannah, M.E., Ross, S., Willan, A.R., Hewson, S., McKay, D., Hannah, W., Whyte, H., Amankwah, K., Cheng, M., Guselle, P., Helewa, M., Hodnett, E.D., Hutton, E.K., Kung, R., Saigal, S., The costs of planned cesarean versus planned vaginal birth in the Term Breech Trial, Canadian Medical Association Journal, 174, 1109-1113, 2006	Breech presentation is not in labour
Rouse,D.J., Owen,J., Goldenberg,R.L., Cliver,S.P., The effectiveness and costs of elective cesarean delivery for fetal macrosomia diagnosed by ultrasound, JAMA, 276, 1480- 1486, 1996	Population is not women in the intrapartum period
Vijgen, S. M., Westerhuis, M. E., Opmeer, B. C., Visser, G. H., Moons, K. G., Porath, M. M., Oei, G. S., Van Geijn, H. P., Bolte, A. C., Willekes, C., Nijhuis, J. G., Van Beek, E., Graziosi, G. C., Schuitemaker, N. W., Van Lith, J. M., Van Den Akker, E. S., Drogtrop, A. P., Van Dessel, H. J., Rijnders, R. J., Oosterbaan, H. P., Mol, B. W., Kwee, A., Cost-effectiveness of cardiotocography plus ST analysis of the fetal electrocardiogram compared with cardiotocography only, Acta Obstetricia et Gynecologica Scandinavica, 90, 772-8, 2011	Not clear that population includes any small-for- gestational-age babies and clinical data probably outdated

Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

Study	Reason for exclusion
Benitz,W.E., Gould,J.B., Druzin,M.L., Preventing early-onset group B streptococcal sepsis: strategy development using decision analysis, Pediatrics, 103, e76-, 1999	No comparison of alternative antibiotics

Study	Reason for exclusion
Colbourn, T. E., Asseburg, C., Bojke, L., Philips, Z., Welton, N. J., Claxton, K., Ades, A. E., Gilbert, R. E., Preventive strategies for group B streptococcal and other bacterial infections in early infancy: cost effectiveness and value of information analyses, BMJ, 335, 655, 2007	Although fever in labour is a risk group considered in the article, it is addressed only in terms of route of administration of antibiotics
Colbourn,T., Asseburg,C., Bojke,L., Philips,Z., Claxton,K., Ades,A.E., Gilbert,R.E., Prenatal screening and treatment strategies to prevent group B streptococcal and other bacterial infections in early infancy: Cost-effectiveness and expected value of information analyses, Health Technology Assessment, 11, 21-108, 2007	Although fever in labour is a risk group considered in the article, it is addressed only in terms of route of administration of antibiotics
Uyemura, A., Nguyen, N., Griffin, E., Werner, E., Pereira, L., Caughey, A., Cost-effectiveness analysis of antibiotic treatment for women with an epidural that have an intrapartum fever, American Journal of Obstetrics and Gynecology, 1), S215, 2014	Abstract only and no comparison of alternative antibiotics
Van Den Akker-Van Marle, M. E., Rijnders, M. E. B., Van Dommelen, P., Fekkes, M., Van Wouwe, J. P., Amelink-Verburg, M. P., Verkerk, P. H., Cost-effectiveness of different treatment strategies with intrapartum antibiotic prophylaxis to prevent early-onset group B streptococcal disease, BJOG: An International Journal of Obstetrics and Gynaecology, 112, 820-826, 2005	Mainly considers alternative screening strategies and does not compare alternative antimicrobials for women in labour with sepsis

1

Appendix D – Economic evidence tables

Eealth economics global search for women at high risk of adverse outcomes for 3 themselves and/or their baby because of existing maternal medical conditions

4 No economic evidence was identified for this review and so there are no evidence tables.

5

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

Health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of 2 obstetric complications or other reasons

3 Table 43: Health economic evidence tables (health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of obstetric complications or other reasons)

4	

Study Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Comments
Grobman 1999 USA Cost effectiveness analysis Conflict of interest: not reported Funding: not reported	Interventions: Rapid HIV testing versus no HIV testing Women would receive counselling before testing as part of the rapid HIV testing intervention and antiretroviral treatment for those who tested positive	Women without adequate antenatal care Modelling (decision analytic model) Source of clinical effectiveness data: review of published literature Source of resource use data: unclear Source of unit costs: unclear Cost data from published literature supplemented with expert opinion	Costs: rapid HIV test, western blot, pre- and post-test counselling, intrapartum zidovudine, neonatal zidovudine, additional treatment for women because of early diagnosis of HIV-seropositive status, additional treatment for women falsely diagnosed as being HIV seropositive, additional surveillance of HIV-exposed babies, lifetime cost of paediatric HIV infection Mean cost per 100,000 women: • no test: \$69 million • rapid testing: \$63 million • difference: -\$6 million Primary measure of outcome: HIV cases prevented Mean HIV cases per 100,000 women: • no test: 407 • rapid HIV testing: 339 • difference: -68	Rapid HIV testing dominant Sensitivity analysis: The findings were sensitive to changes in HIV seroprevalence among women without adequate antenatal care, the reduction in transmission after intrapartum and neonatal zidovudine, the reduction in transmission after neonatal zidovudine alone, the lifetime costs of paediatric HIV infection, and the incrementally greater costs incurred by a woman after early diagnosis of HIV infection	Perspective: health care payer Currency: USD Cost year: 1997 Time horizon: lifetime Discounting: 5% for costs Applicability: partially applicable Quality: potentially serious limitations
Mrus 2004 USA Cost effectiveness	Interventions: Rapid HIV testing versus no HIV testing followed	Unregistered women presenting in labour with no antenatal care	Costs: intrapartum zidovudine (additional cost if combined with nevirapine or lamivudine), infant follow-up with zidovudine prophylaxis (additional cost if combined with nevirapine or lamivudine),	Rapid HIV testing dominant using HIV cases prevented as an outcome measure Sensitivity analysis:	Perspective: societal (however seems to be healthcare) Currency: USD

Study Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Comments
and cost-utility analysis Conflict of interest: not reported Funding: not reported	by treatment with zidovudine, nevirapine, or combination therapy for those testing positive	Modelling (decision analytic model) Source of clinical effectiveness data: review of published literature Source of resource use data: unclear Source of unit costs: unclear Cost data was obtained from various published studies supplemented with expert option. Where possible national unit costs were used	rapid HIV test with pre-test counselling, western blot, post-test counselling, HIV- infected infant lifetime costs, HIV-infected woman lifetime costs, additional cost associated with earlier HIV treatment Absolute costs were not reported. However, assuming 50,000 women without antenatal care, rapid HIV testing saves \$3 million each year. Primary measure of outcome: HIV cases prevented and QALYs Absolute HIV cases prevented not reported. However, assuming 50,000 women without antenatal care, rapid HIV testing prevents 27 cases of HIV. QALYs not reported	The results were robust to changes in the model inputs. Rapid HIV testing would not be cost effective only if the acceptance rate of rapid testing was 0.26 (base case: 0.86); if the proportion of women giving birth before treatment was effective was 0.70 (base case: 0.25); if the prevalence of HIV in women without antenatal care was 2/1000 (base case: 5.1/1000); if the relative risk reduction in vertical HIV transmission was 0.25 (base case: 0.62); if the additional cost associated with earlier HIV treatment (compared with delayed treatment) was \$13,000 (base case: no difference). Rapid HIV testing remained potentially cost effective in a more extreme scenario where testing	Cost year: 2000 Time horizon: lifetime Discounting: 3% for costs and outcomes Applicability: partially applicable Quality: potentially serious limitations

Study Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Comments
				acceptance rate was 0.04, the proportion giving birth before the treatment was effective was 0.95, the prevalence of HIV was 0.3/1000 in women without antenatal care, or the relative risk reduction in HIV transmission was 0.04. Earlier diagnosis of maternal HIV compared with diagnosis later in the disease would have to more than double the discounted lifetime cost of HIV care to make rapid testing not cost effective. Also, treatment side effects from therapy to reduce the risk of transmission and from earlier treatment of HIV would need to reduce the discounted quality- adjusted life expectancy in HIV- infected women and babies by a total of 2.4 QALYs to negate QALYs gained through prevention of HIV transmission	

Study Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Comments
Stringer 1999 USA Cost effectiveness analysis Conflict of interest: not reported Funding: not reported	Interventions: Rapid HIV testing followed by antiretroviral treatment with zidovudine for women who tested positive versus prophylactic treatment for all women versus no treatment (usual care for women with unknown HIV status)	Unregistered women presenting in labour with no antenatal care Modelling (decision analytic model) Source of clinical effectiveness data: review of published literature Source of resource use data: unclear Source of unit costs: various sources. However, where possible national unit costs were used. Cost data was obtained from various published studies supplemented with expert opinion. Some of the resource use was based on local hospital estimates	Costs: rapid testing, ELISA assay test, western blot, intrapartum zidovudine, zidovudine syrup, evaluation of uninfected and HIV-exposed babies, lifetime cost of neonatal HIV infection Mean incremental cost per 100,000 women (versus no testing or treatment): Rapid HIV testing: \$10.6 million savings Prophylactic treatment: \$5.1 millions Difference prophylactic treatment (versus rapid HIV testing): \$15.7 millions Primary measure of outcome: HIV cases prevented Mean HIV cases per 100,000 women: Rapid HIV testing: 183 Prophylactic treatment: 229 Difference prophylactic treatment (versus rapid HIV testing): 46	The incremental cost effectiveness ratio (ICER) of prophylactic treatment (versus rapid HIV testing): \$342,068 per additional case of HIV prevented Sensitivity analysis: At the lower HIV prevalence of 0.0017 (base case: 0.05) the rapid-test strategy was not cost saving with an ICER of \$360,747 per case of HIV prevented the rapid testing remained the cost- saving strategy at treatment efficacy values between 18– 87% (base case: 0.18); the rapid-test strategy was cost saving for the lifetime cost of \$70,000- 130,000 for paediatric HIV infection (base case: \$103,700), whereas the prophylactic treatment strategy remained unfavourable compared with rapid testing. The value for	Perspective: health care payer Currency: USD Cost year: 1998 Time horizon: lifetime Discounting: 5% for costs Applicability: partially applicable Quality: potentially serious limitations

Study Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Comments
				the lifetime cost of paediatric HIV below which the rapid-test strategy failed to be cost saving was \$33,626; varying the pharmaceutical costs and costs of all test assays did not change the conclusions. In a scenario analysis where both treatment efficacy and lifetime costs were set to a minimum 0.18 and \$70,000, respectively; the HIV prevalence would need to be 0.016 or above for the rapid-test strategy to be cost effective. Similarly, with both inputs set at the maximum of 0.87 and \$130,000, the HIV prevalence would need to be 0.0014 or above for the rapid- test strategy to be cost effective	

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Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

3 No clinical evidence was identified for this review and so there are no evidence tables.

4

Intrapartum care for women with existing medical conditions or obstetric complications and their babies: Supplement 2: Health Economics DRAFT September 2018

Appendix E – Health economic evidence methodology 2 checklists

Bealth economics global search for women at high risk of adverse outcomes for 4 themselves and/or their baby because of existing maternal medical conditions

5 No economic evidence was identified for this review and so there are no health economic

- 6 evidence methodology checklists.
- 7

Health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of 2 obstetric complications or other reasons

Table 44: Health economics quality assessment for Grobman 1999 (health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of obstetric complications or other reasons)

Guidance topic: intrapartum care for women at high risk of adverse outcomes for themselves and/or their baby because of obstetric complications or other reasons					
Yes/partly/no/unclear/NA	Comments				
Yes	Women without adequate antenatal care				
Yes	Rapid HIV testing in the intrapartum period compared with no testing				
Partly	US study				
Unclear	Not reported explicitly but appears to be healthcare perspective				
Partly	Has not considered health- related quality of life (HRQoL)				
Partly	5% for lifetime costs				
No	HIV cases prevented				
NA					
Yes/partly/no/unclear/NA	Comments				
Yes					
Yes	Lifetime				
	Yes/partly/no/unclear/NA Yes Yes Yes Partly Unclear Partly Partly No No NA Yes/partly/no/unclear/NA				

Study identifier: Grobman 1999		
2.3 Are all important and relevant outcomes included?	Partly	HIV cases prevented
2.4 Are the estimates of baseline outcomes from the best available source?	Yes	Review of the published literature relevant to the US setting
2.5 Are the estimates of relative intervention effects from the best available source?	Yes	Review of diagnostic studies
2.6 Are all important and relevant costs included?	Yes	
2.7 Are the estimates of resource use from the best available source?	Partly	Published literature supplemented with exert opinion
2.8 Are the unit costs of resources from the best available source?	Unclear	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?	Yes	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?	Yes	Deterministic sensitivity analysis. However, no probabilistic sensitivity analysis
2.11 Is there any potential conflict of interest?	Unclear	Funding and conflict of interest not reported
2.12 Overall assessment: Potentially serious limitations		
Other comments		

 1
 Table 45: Health economics quality assessment for Mrus 2004 (health economics global search for women at high risk of adverse

 2
 outcomes for themselves and/or their baby because of obstetric complications or other reasons)

Study identifier: Mrus 2004		
Guidance topic: intrapartum care for women at high risk of adverse outcomes for themselves and obstetric complications or other reasons	Question no: rapid HIV testing for women in labour with no antenatal care	
Section 1: Applicability (relevance to specific review questions and the NICE reference case as described in section 7.5)	Yes/partly/no/unclear/NA	Comments
1.1 Is the study population appropriate for the review question?	Yes	Women presenting in labour without antenatal care
1.2 Are the interventions appropriate for the review question?	Yes	Rapid HIV testing in the intrapartum period compared with no testing

Study identifier: Mrus 2004		
1.3 Is the system in which the study was conducted sufficiently similar to the current UK context?	Partly	US study
1.4 Are the perspectives clearly stated and are they appropriate for the review question?	Unclear	Reported to be societal, however, seems to be healthcare perspective
1.5 Are all direct effects on individuals included, and are all other effects included where they are material?	Yes	
1.6 Are all future costs and outcomes discounted appropriately?	Partly	3% for costs and quality adjusted life years (QALYs)
1.7 Is QALY used as an outcome, and was it derived using NICE's preferred methods? If not, describe rationale and outcomes used in line with analytical perspectives taken (item 1.4 above).	Yes	Utility weights obtained from various published studies. The measures of HRQoL that were used to inform the utility weights were not reported
1.8 Are costs and outcomes from other sectors fully and appropriately measured and valued	NA	
1.9 Overall judgement: Partially applicable		
Section 2: Study limitations (the level of methodological quality)	Yes/partly/no/unclear/NA	Comments
2.1 Does the model structure adequately reflect the nature of the topic under evaluation	Yes	
2.2 Is the time horizon sufficiently long to reflect all important differences in costs and outcomes?	Yes	Lifetime
2.3 Are all important and relevant outcomes included?	Yes	HIV cases prevented and QALYs
2.4 Are the estimates of baseline outcomes from the best available source?	Yes	Review of the published literature relevant to the US setting
2.5 Are the estimates of relative intervention effects from the best available source?	Yes	Review of published literature
2.6 Are all important and relevant costs included?	Yes	
2.7 Are the estimates of resource use from the best available source?	Unclear	Cost data was obtained from various published studies supplemented with expert opinion
2.8 Are the unit costs of resources from the best available source?	Unclear	Cost data was obtained from various published studies

Study identifier: Mrus 2004		
		supplemented with expert opinion. Where possible national unit costs were used
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?	Yes	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?	Yes	Deterministic sensitivity analysis. However, no probabilistic sensitivity analysis
2.11 Is there any potential conflict of interest?	Unclear	
2.12 Overall assessment: Potentially serious limitations		
Other comments		

Table 46: Health economics quality assessment for Stringer 1999 (health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of obstetric complications or other reasons)

Study identifier: Stringer 1999		
Guidance topic: intrapartum care for women at high risk of adverse outcomes for themselves and obstetric complications or other reasons	Question no: rapid HIV testing for women in labour with no antenatal care	
Section 1: Applicability (relevance to specific review questions and the NICE reference case as described in section 7.5)	Yes/partly/no/unclear/NA	Comments
1.1 Is the study population appropriate for the review question?	Yes	Women without antenatal care
1.2 Are the interventions appropriate for the review question?	Yes	No testing or treating, rapid HIV testing, prophylactic treatment of all unregistered women
1.3 Is the system in which the study was conducted sufficiently similar to the current UK context?	Partly	US study
1.4 Are the perspectives clearly stated and are they appropriate for the review question?	Yes	Healthcare
1.5 Are all direct effects on individuals included, and are all other effects included where they are material?	Partly	Has not considered HRQoL
1.6 Are all future costs and outcomes discounted appropriately?	Partly	5% for costs

Study identifier: Stringer 1999		
1.7 Is QALY used as an outcome, and was it derived using NICE's preferred methods? If not, describe rationale and outcomes used in line with analytical perspectives taken (item 1.4 above).	No	HIV cases prevented
1.8 Are costs and outcomes from other sectors fully and appropriately measured and valued	NA	
1.9 Overall judgement: Partially applicable		
Section 2: Study limitations (the level of methodological quality)	Yes/partly/no/unclear/NA	Comments
2.1 Does the model structure adequately reflect the nature of the topic under evaluation	Yes	
2.2 Is the time horizon sufficiently long to reflect all important differences in costs and outcomes?	Yes	Lifetime
2.3 Are all important and relevant outcomes included?	Partly	HIV cases prevented
2.4 Are the estimates of baseline outcomes from the best available source?	Yes	Review of the published literature relevant to the US setting
2.5 Are the estimates of relative intervention effects from the best available source?	Yes	Review of diagnostic studies
2.6 Are all important and relevant costs included?	Partly	Has not considered costs associated with HIV-infected women
2.7 Are the estimates of resource use from the best available source?	Partly	Cost data was obtained from various published studies supplemented with expert opinion. Some of the resource use was based on local hospital estimates
2.8 Are the unit costs of resources from the best available source?	Unclear	Cost data was obtained from various published studies supplemented with expert opinion. Where possible national unit costs were used
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?	Yes	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?	Yes	Deterministic sensitivity analysis. However, no probabilistic sensitivity analysis

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Study identifier: Stringer 1999		
2.11 Is there any potential conflict of interest?	Unclear	
2.12 Overall assessment: Potentially serious limitations		
Other comments		

1 Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

3 No economic evidence was identified for this review and so there are no health economic4 evidence methodology checklists.

5 Appendix F – Health economic evidence profiles

Bealth economics global search for women at high risk of adverse outcomes for 7 themselves and/or their baby because of existing maternal medical conditions

8 No economic evidence was identified for this review and so there are no health economic9 evidence profiles.

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Health economics global search for women at high risk of adverse outcomes for themselves and/or their baby because of øbstetric complications or other reasons

3 Table 47: Health economic evidence profile (health economics global search for women at high risk of adverse outcomes for themselves
 and/or their baby because of obstetric complications or other reasons)

Study	Limitations	Applicability	Other comments	Costs	Effects	Incremental cost effectiveness	Uncertainty
Grobman 1999 US	Potentially serious limitations ¹	Partially applicable ²	Cost effectiveness analysis Outcome measure: HIV cases prevented Time horizon: lifetime	-\$6 million per 100,000 women	68 per 100,000 women	Rapid HIV testing dominant	The findings were sensitive to changes in HIV seroprevalence among women without adequate antenatal care, the reduction in transmission after intrapartum and neonatal zidovudine, the reduction in transmission after neonatal zidovudine alone, the lifetime costs of paediatric HIV infection, and the incrementally greater costs incurred by a woman after early diagnosis of HIV infection
Mrus 2004 US	Potentially serious limitations ³	Partially applicable ⁴	Cost-utility analysis Outcome measure: HIV	-\$3 million per annum	27 cases per annum	Rapid HIV testing dominant	The results were robust to changes in the model inputs.

cases prevented Incremental Rapid HIV testing adjusted life years reported would not be cost adjusted life years reported acceptance rate of Time horizon: 0.26 (base case: 0.26); if the proportion of women giving bit before treatment was offective was 0.70 (base case: 0.26); if the proportion of women giving bit before treatment was offective was 0.70 (base case: 0.26); if the proportion of women without antenatal care was 2/1000 (base case: 0.51/1000; if the the relative risk reduction in vertical HIV testing was 0.72; (base dialized with earlier HIV treatment) was 20.20; (base was 0.25; if the additional cost associated with earlier HIV treatment) was 20.00; (base case: oct (base case: case: case: case: secience case: case: case: obsecience case: case: case: if the operical with earlier HIV treatment cose: <t< th=""></t<>
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rate was 0.04, the proportion giving birth before the treatment was effective was 0.95, the prevalence of HIV was 0.3/1000 in women without antenatal care, or the relative risk reduction in HIV transmission was 0.04. Earlier diagnosis of maternal HIV compared with diagnosis later in the disease would have to more than double the discounted lifetime cost of HIV care to make rapid testing not cost effective. Also, treatment side effects from therapy to reduce the risk of transmission and from earlier treatment of HIV would need to reduce the discounted qualityadjusted life expectancy in HIVinfected women and

							babies by a total of 2.4 QALYs to negate QALYs gained through prevention of HIV transmission
Stringer 1999	Potentially serious limitations ¹	Partially applicable⁵	Cost effectiveness analysis Outcome measure: HIV cases prevented Time horizon: lifetime	Rapid HIV testing (versus no testing): -\$10.6 million per 100,000 unregistered parturients Prophylactic treatment (versus. rapid HIV testing): \$15.7 million per 100,000 unregistered parturients	Rapid HIV testing (versus. no testing): 183 cases per 100,000 unregistered parturients Prophylactic treatment (versus. rapid HIV testing): 46 cases per 100,000 unregistered parturients	\$342,068 (prophylactic treatment versus rapid HIV testing)	At the lower HIV prevalence of 0.0017 (base case: 0.05) the rapid-test strategy was not cost saving with an incremental cost effectiveness ratio (ICER) of \$360,747 per case of HIV prevented the rapid testing remained the cost- saving strategy at treatment efficacy values between 18– 87% (base case: 0.18); the rapid-test strategy was cost saving for the lifetime cost of \$70,000-130,000 for paediatric HIV infection (base case: \$103,700), whereas the prophylactic treatment strategy remained unfavourable compared with rapid testing. The value for

the lifetime cost of paediatric HIV below which the rapid-test strategy failed to be cost saving was \$33,626; varying the pharmaceutical costs and costs of all test assays did not change the conclusions. In a scenario analysis where both treatment efficacy and lifetime costs were set to a minimum 0.18 and \$70,000, respectively; the HIV prevalence would need to be 0.016 or above for the rapidtest strategy to be cost effective. Similarly, with both inputs set at the maximum of 0.87 and \$130,000, the HIV prevalence would need to be 0.0014 or above for the rapid-test strategy to be cost effective

1 2

1. US study, no QALYs

3 2. Some model inputs based on study authors' assumptions, the source of unit costs was unclear, and no probabilistic sensitivity analysis was undertaken

4 3. US study

- 5 4. Some model inputs, including those relating to relative treatment effectiveness, based on study authors' assumptions, and no probabilistic sensitivity analysis was undertaken
- 6 5. Has not considered costs associated with HIV-infected women, some resource-use estimates based on local hospital estimates, and no probabilistic sensitivity analysis was undertaken

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Health economics search for intrapartum care for women with sepsis – 2 antimicrobial therapy

3 No economic evidence was identified for this review and so there are no health economic 4 evidence profiles.