

# **Diarrhoea and vomiting caused by gastroenteritis**

diagnosis, assessment and management  
in children younger than 5 years

**Clinical Guideline**

April 2009

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# **Diarrhoea and vomiting caused by gastroenteritis**

## **diagnosis, assessment and management in children younger than 5 years**

National Collaborating Centre for Women's  
and Children's Health

Commissioned by the National Institute for  
Health and Clinical Excellence

**Search strategies**

April 2009



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# 3 Diagnosis

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*Clinical question*

What investigations, if any, are useful to the diagnosis of gastroenteritis in children under 5?

**DNV\_diagnostic\_tests\_medline\_011007 (Ovid MEDLINE 1950 to September Week 3 2007)**

#	Search History	Results
1	infan\$.tw.	236631
2	neonat\$.tw.	135769
3	newborn\$.tw.	94564
4	(small adj2 gestational age).tw.	3301
5	(low adj birth adj weight).tw.	11768
6	(low adj birth?weight).tw.	4243
7	lbw.tw.	1269
8	vlbw.tw.	1446
9	(baby or babies).tw.	35189
10	toddler\$.tw.	3025
11	(child adj3 (preschool or pre?school)).tw.	526
12	INFANT/	503883
13	INFANT, NEWBORN/	397474
14	CHILD, PRESCHOOL/	586964
15	or/1-14	1159696
16	(stool adj3 cultur\$).ti,ab.	1521
17	(stool adj3 microscop\$).ti,ab.	216
18	(stool adj3 microbiol\$).ti,ab.	47
19	(stool adj3 virolog\$).ti,ab.	6
20	(stool adj5 (sampl\$ or test\$)).ti,ab.	4238
21	((fecal or feces) adj5 (sampl\$ or test\$)).ti,ab.	5831
22	FECES/	54278
23	OCCULT BLOOD/	3242
24	fecal occult blood.ti,ab.	1217
25	(PCR or polymerase chain reaction?).ti,ab.	222396
26	POLYMERASE CHAIN REACTION/	153789
27	(blood adj3 (sampl\$ or test\$)).ti,ab.	91371
28	BLOOD UREA NITROGEN/	9263
29	UREA/	32695
30	CREATININE/	35171
31	POTASSIUM/	88705
32	ELECTROLYTES/	17046
33	SODIUM/	90488
34	CHLORIDES/	35096
35	BICARBONATES/	18993
36	ACID-BASE EQUILIBRIUM/	13913
37	ACIDOSIS/	13238
38	acid?emi?.ti,ab.	2599

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39 HEMOGLOBINS/	49736
40 BLOOD CELL COUNT/	17091
41 LEUKOCYTE COUNT/	45305
42 PLATELET COUNT/	13302
43 NEUTROPHILS/	61406
44 (blood adj3 count).ti,ab.	11575
45 (blood adj3 cultur\$).ti,ab.	18145
46 BLOOD GLUCOSE/	96847
47 BLOOD SEDIMENTATION/	8613
48 (ESR or erythrocyte sedimentation rate).ti,ab.	13258
49 C-REACTIVE PROTEIN/	14775
50 ALBUMINS/	13092
51 ACUTE PHASE PROTEINS/	3503
52 orosomucoid.ti,ab.	1175
53 procalcitonin.ti,ab.	845
54 acute phase reactant?.ti,ab.	2160
55 ((hiv or aids) adj3 (test\$ or assay?)).ti,ab.	10471
56 (blood adj3 (glucose or sugar?)).ti,ab.	36510
57 or/16-56	1017187
58 diarrh?ea?.ti,ab.	51740
59 gastroenteritis?.ti,ab.	8645
60 GASTROENTERITIS/	8942
61 or/58-60	62001
62 15 and 61	19420
63 57 and 62	5228
64 limit 63 to "diagnosis (optimized)"	568
65 diagnos\$.ti.	333674
66 and/15,61,65	436
67 or/64,66	942
68 limit 67 to humans	880
69 limit 68 to english language	676

#### **DNV\_diagnostic\_tests\_embase\_011007 (EMBASE 1980 to 2007 Week 38)**

<b>#</b>	<b>Search History</b>	<b>Results</b>
1	NEWBORN/	170468
2	neonat\$.tw.	110371
3	newborn\$.tw.	60304
4	exp INFANT/	162045
5	infan\$.tw.	160167
6	SMALL FOR DATE INFANT/	2354
7	(small adj2 gestational age).tw.	3047
8	LOW BIRTH WEIGHT/	10478
9	VERY LOW BIRTH WEIGHT/	3969
10	(low adj birth adj weight).tw.	9512
11	(low adj birth?weight).tw.	3441
12	lbw.tw.	977
13	vlbw.tw.	1271

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14 (baby or babies).tw.	25527
15 PRESCHOOL CHILD/	98140
16 (child adj3 (preschool or pre?school)).tw.	238
17 toddler\$.tw.	2307
18 GASTROENTERITIS/	6255
19 gastroenteritis?.ti,ab.	5960
20 diarrh?ea?.ti,ab.	39505
21 or/18-20	46545
22 (stool adj3 cultur\$.ti,ab.	1285
23 (stool adj3 microscop\$.ti,ab.	178
24 (stool adj3 microbiol\$.ti,ab.	43
25 (stool adj3 virolog\$.ti,ab.	5
26 (stool adj5 (sampl\$ or test\$)).ti,ab.	3530
27 ((fecal or feces) adj5 (sampl\$ or test\$)).ti,ab.	4101
28 FECES ANALYSIS/	12466
29 FECES CULTURE/	2383
30 FECES COMPOSITION/	146
31 ABNORMAL FECES COMPOSITION/	25
32 OCCULT BLOOD/	2556
33 fecal occult blood.ti,ab.	1138
34 (PCR or polymerase chain reaction?).ti,ab.	194925
35 POLYMERASE CHAIN REACTION/	131525
36 (blood adj3 (sampl\$ or test\$)).ti,ab.	77052
37 UREA NITROGEN BLOOD LEVEL/	4775
38 UREA BLOOD LEVEL/	2737
39 CREATININE BLOOD LEVEL/	19920
40 POTASSIUM BLOOD LEVEL/	4880
41 ELECTROLYTE/	9893
42 SODIUM BLOOD LEVEL/	3720
43 CHLORIDE BLOOD LEVEL/	557
44 BICARBONATE/	17238
45 ACID BASE BALANCE/	5702
46 ACIDOSIS/	5028
47 acid?emi?.ti,ab.	2035
48 HEMOGLOBIN BLOOD LEVEL/	2162
49 BLOOD CELL COUNT/	6860
50 LEUKOCYTE COUNT/	19027
51 PLATELET COUNT/	14397
52 NEUTROPHIL/	45612
53 (blood adj3 count).ti,ab.	9981
54 (blood adj3 cultur\$.ti,ab.	15357
55 GLUCOSE BLOOD LEVEL/	51545
56 ERYTHROCYTE SEDIMENTATION RATE/	8296
57 ESR.ti,ab.	8061
58 C-REACTIVE PROTEIN/	23013
59 ALBUMINOID/	238
60 ACUTE PHASE PROTEIN/	3526
61 orosomucoid.ti,ab.	873



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62 procalcitonin.ti,ab.	882
63 acute phase reactant?.ti,ab.	1925
64 ((hiv or aids) adj3 (test\$ or assay?)).ti,ab.	8154
65 (blood adj3 (glucose or sugar?)).ti,ab.	29637
66 or/22-65	570166
67 or/1-17	491010
68 21 and 67	9064
69 66 and 68	2032
70 limit 69 to "diagnosis (optimized)"	244
71 diagnos\$.ti.	185074
72 and/21,67,71	165
73 or/70,72	365
74 limit 73 to human	313
75 limit 74 to english language	275
76 from 75 keep 10	1

### DNV\_diagnostic\_tests\_cinahl\_011007 (CINAHL 1982 to September Week 3 2007)

#	Search History	Results
1	infan\$.tw.	21425
2	neonat\$.tw.	10685
3	newborn\$.tw.	5325
4	(small adj2 gestational age).tw.	309
5	(low adj birth adj weight).tw.	1818
6	(low adj birth?weight).tw.	686
7	lbw.tw.	226
8	vlbw.tw.	276
9	(baby or babies).tw.	7734
10	toddler\$.tw.	1317
11	(child adj3 (preschool or pre?school)).tw.	93
12	INFANT/	41566
13	INFANT, NEWBORN/	32240
14	CHILD, PRESCHOOL/	46502
15	or/1-14	94298
16	(stool adj3 cultur\$.ti,ab.	100
17	(stool adj3 microscop\$.ti,ab.	8
18	(stool adj3 microbiol\$.ti,ab.	2
19	(stool adj3 virolog\$.ti,ab.	0
20	(stool adj5 (sampl\$ or test\$)).ti,ab.	198
21	((fecal or feces) adj5 (sampl\$ or test\$)).ti,ab.	254
22	FECES/	997
23	OCCULT BLOOD/	383
24	fecal occult blood.ti,ab.	199
25	(PCR or polymerase chain reaction?).ti,ab.	2246
26	POLYMERASE CHAIN REACTION/	2750
27	(blood adj3 (sampl\$ or test\$)).ti,ab.	4013
28	BLOOD UREA NITROGEN/	195
29	UREA/	337

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30 CREATININE/	972
31 POTASSIUM/	833
32 ELECTROLYTES/	327
33 SODIUM/	601
34 CHLORIDES/	88
35 BICARBONATES/	138
36 ACID-BASE EQUILIBRIUM/	314
37 ACIDOSIS/	479
38 acid?emi?.ti,ab.	73
39 HEMOGLOBINS/	1595
40 BLOOD CELL COUNT/	447
41 LEUKOCYTE COUNT/	436
42 PLATELET COUNT/	213
43 NEUTROPHILS/	621
44 (blood adj3 count).ti,ab.	590
45 (blood adj3 cultur\$).ti,ab.	726
46 BLOOD GLUCOSE/	4006
47 BLOOD SEDIMENTATION/	225
48 (ESR or erythrocyte sedimentation rate).ti,ab.	301
49 C-REACTIVE PROTEIN/	1617
50 ALBUMINS/	459
51 ACUTE PHASE PROTEINS/	69
52 orosomuroid.ti,ab.	8
53 procalcitonin.ti,ab.	64
54 acute phase reactant?.ti,ab.	49
55 ((hiv or aids) adj3 (test\$ or assay?)).ti,ab.	1867
56 (blood adj3 (glucose or sugar?)).ti,ab.	2805
57 or/16-56	25028
58 GASTROENTERITIS/	537
59 gastroenteritis?.ti,ab.	464
60 diarrh?ea?.ti,ab.	2325
61 or/58-60	2892
62 diagnos\$.ti.	19765
63 and/15,61,62	14
64 and/15,57,61	124
65 (diagnos\$ or assess\$ or observ\$ or follow?up).ti,ab.	185442
66 64 and 65	48
67 or/63,66	62
68 limit 67 to english	60

*Clinical question*

What microbiological investigations, if any, are useful to the diagnosis of gastroenteritis in children under 5 years?

**DNV\_microbi\_investigations\_medline\_210208 (Ovid MEDLINE 1950 to February Week 1 2008)**

#	Searches	Results
1	randomized controlled trial.pt.	247715
2	controlled clinical trial.pt.	76282
3	DOUBLE BLIND METHOD/	94539
4	SINGLE BLIND METHOD/	11596
5	RANDOM ALLOCATION/	59563
6	RANDOMIZED CONTROLLED TRIALS/	52178
7	or/1-6	418117
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	92038
9	clinical trial.pt.	440338
10	exp CLINICAL TRIALS/	0
11	(clinic\$ adj5 trial\$).tw,sh.	121766
12	PLACEBOS/	26608
13	placebo\$.tw,sh.	119338
14	random\$.tw,sh.	521243
15	or/8-14	826226
16	or/7,15	835859
17	META ANALYSIS/	17129
18	meta analysis.pt.	17298
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	30733
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	15667
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1805
22	or/17-21	42667
23	review\$.pt.	1339587
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation" or scisearch).tw.	28000
25	((hand or manual\$) adj2 search\$).tw.	3118
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	4707
27	(pooling or pooled or mantel haenszel).tw,sh.	27741
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1242
29	or/24-28	57530
30	23 and 29	23726
31	CASE-CONTROL STUDIES/	93989
32	RETROSPECTIVE STUDIES/	285626
33	PROSPECTIVE STUDIES/	234476
34	COHORT STUDIES/	81096
35	EPIDEMIOLOGIC METHODS/	21381
36	CROSS-SECTIONAL STUDIES/	83785
37	(case\$ adj2 control\$).tw.	49095
38	(compar\$ adj3 stud\$).tw.	167290
39	((epidemiologic\$ or seroepidemiologic\$) adj3 stud\$).tw.	45901
40	(cross sectional adj3 stud\$).tw.	33026

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41	or/31-40	924541
42	or/16,22,30,41	1632543
43	letter.pt.	607984
44	comment.pt.	344713
45	editorial.pt.	212806
46	historical article.pt.	243826
47	or/43-46	1104630
48	42 not 47	1588664
49	EPIDEMIOLOGY/	10158
50	epidemiolog\$.tw.	164339
51	PREVALENCE/	108324
52	prevalence.tw.	206344
53	INCIDENCE/	112721
54	incidence.tw.	330342
55	etiolog\$.tw.	124683
56	(cause? or causation or causative).tw.	1026073
57	(microbiolog\$ or micro biolog\$ or pathogen\$).tw.	358432
58	mi.xs.	517968
59	et.fs.	1585544
60	or/49-59	3449711
61	GASTROENTERITIS/	9042
62	gastroenteritis.tw.	8792
63	or/61-62	12818
64	and/60,63	9197
65	limit 64 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	3798
66	limit 65 to yr="1997 - 2008"	1441
67	and/48,66	511
68	limit 67 to english language	447
69	DIARRHEA/	30860
70	DIARRHEA, INFANTILE/	6060
71	diarrhea\$.tw.	52284
72	or/69-71	64497
73	travel\$.tw,hw.	28276
74	and/72-73	1960
75	ESCHERICHIA COLI INFECTIONS/	19414
76	ESCHERICHIA COLI O157/	3482
77	ESCHERICHIA COLI/	187882
78	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	9355
79	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	23
80	exp CRYPTOSPORIDIUM/	3410
81	cryptosporidi\$.tw.	5337
82	exp GIARDIA/	2864
83	GIARDIASIS/	3774
84	giardia\$.tw.	5092
85	exp SHIGELLA/	9005
86	DYSENTERY, BACILLARY/	6136

87	shigella.tw.	8004
88	(dysentery or dysentery).tw.	4759
89	exp YERSINIA/	7420
90	(yersinia enterocoliti\$ or y enterocoliti\$.tw.	18
91	YERSINIA INFECTIONS/	2708
92	exp CAMPYLOBACTER/	7454
93	CAMPYLOBACTER INFECTIONS/	4781
94	(c jejuni or c coli or campylobacter).tw.	9287
95	exp SALMONELLA/	44265
96	SALMONELLA INFECTIONS/	8984
97	salmonella.tw.	43216
98	CLOSTRIDIUM DIFFICILE/	2255
99	(c difficile or clostridium difficile).tw.	4268
100	(entamoeba histolytica or e histolytica).tw.	4321
101	ENTAMOEBIA HISTOLYTICA/	4268
102	AMEBIASIS/	3989
103	or/75-102	297902
104	and/60,74	1451
105	and/103-104	706
106	limit 105 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	120
107	and/48,106	42
108	limit 107 to english language	36
109	or/68,108	482

#### DNV\_microbi\_investigations\_embase\_210208 (EMBASE 1980 to 2008 Week 07)

#	Searches	Results
1	CLINICAL TRIALS/	491806
2	(clinic\$ adj5 trial\$.tw,sh.	115566
3	SINGLE BLIND PROCEDURE/	7359
4	DOUBLE BLIND PROCEDURE/	68240
5	RANDOM ALLOCATION/	25069
6	CROSSOVER PROCEDURE/	19959
7	PLACEBO/	109985
8	placebo\$.tw,sh.	159698
9	random\$.tw,sh.	399403
10	RANDOMIZED CONTROLLED TRIALS/	154426
11	((single or double or triple or treble) adj (blind\$ or mask\$)).tw,sh.	89041
12	randomi?ed control\$ trial\$.tw.	28560
13	or/1-12	808569
14	META ANALYSIS/	32942
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$.tw,sh.	40993
16	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	23388
17	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1501
18	or/14-17	55767
19	review.pt.	857146
20	(medline or medlars or embase).ab.	20263
21	(scisearch or science citation index).ab.	587

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22	(psychlit or psychlit or psychinfo or psycinfo or cinahl or cochrane).ab.	6493
23	((hand or manual\$) adj2 search\$).tw.	2334
24	(electronic database\$ or bibliographic database\$ or computerized database\$ or online database\$).tw.	3723
25	(pooling or pooled or mantel haenszel).tw.	22889
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	712
27	or/20-26	47162
28	19 and 27	15863
29	COMPARATIVE STUDY/	104134
30	(compar\$ adj5 stud\$).tw.	171443
31	CASE-CONTROL STUDY/	17481
32	RETROSPECTIVE STUDY/	86834
33	PROSPECTIVE STUDY/	72486
34	COHORT STUDY/	47047
35	CROSS-SECTIONAL STUDY/	1535
36	OBSERVATIONAL STUDY/	5162
37	EPIDEMIOLOGICAL DATA/	15928
38	(case\$ adj2 control\$).tw.	45599
39	((epidemiologic\$ or seroepidemiologic\$) adj3 stud\$).tw.	38058
40	(cross sectional adj3 stud\$).tw.	29267
41	(observational adj3 stud\$).tw.	19744
42	or/29-41	554987
43	or/13,18,28,42	1270373
44	abstract report.tw,sh.	71202
45	note.tw,sh.	244299
46	short survey.tw,sh.	402484
47	letter.tw,sh.	394725
48	editorial.tw,sh.	246683
49	or/44-48	1348326
50	43 not 49	1171166
51	EPIDEMIOLOGY/	69453
52	epidemiolog\$.tw.	126848
53	PREVALENCE/	128207
54	prevalence.tw.	175557
55	INCIDENCE/	92865
56	incidence.tw.	279956
57	etiolog\$.tw.	95600
58	(cause? or causation or causative).tw.	866743
59	(microbiolog\$ or micro biolog\$ or pathogen\$).tw.	313706
60	et.fs.	1067264
61	or/51-60	2383912
62	gastroenteritis.tw,hw.	10215
63	and/61-62	6397
64	limit 63 to yr="1997 - 2008"	4013
65	INFANTILE DIARRHEA/	356
66	diarrh?ea?.tw.	40573
67	DIARRHEA/	70122
68	INFECTIOUS DIARRHEA/	190

69	ACUTE DIARRHEA/	1455
70	BLOODY DIARRHEA/	216
71	or/65-70	85731
72	travel\$.tw.	17637
73	and/71-72	1638
74	TRAVELLER DIARRHEA/	1302
75	or/73-74	2098
76	ESCHERICHIA COLI/	127251
77	ESCHERICHIA COLI ENTEROTOXIN/	1478
78	ENTEROTOXIGENIC ESCHERICHIA COLI/	114
79	ENTEROPATHOGENIC ESCHERICHIA COLI/	237
80	ENTEROINVASIVE ESCHERICHIA COLI/	32
81	DIARRHEAGENIC ESCHERICHIA COLI/	31
82	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	6793
83	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	18
84	CRYPTOSPORIDIUM/	2199
85	cryptosporidi\$.tw.	4228
86	GIARDIA/	983
87	GIARDIASIS/	1696
88	giardia\$.tw.	3743
89	SHIGELLA/	2842
90	SHIGELLOSIS/	1544
91	(shigella or shigellosis).tw.	5197
92	(bacillary dysentery or bacterial dysentery).tw.	230
93	YERSINIA ENTEROCOLITICA/	3224
94	(yersinia enterocoliti\$ or y enterocoliti\$).tw.	3048
95	CAMPYLOBACTER/	3154
96	CAMPYLOBACTER COLI/	807
97	CAMPYLOBACTER JEJUNI/	3841
98	(c jejuni or c coli or campylobacter).tw.	7250
99	SALMONELLA/	9825
100	salmonella.tw.	27983
101	CLOSTRIDIUM DIFFICILE/	4868
102	(c difficile or clostridium difficile).tw.	4147
103	ENTAMOEBIA HISTOLYTICA/	3944
104	(entamoeba histolytica or e histolytica).tw.	2916
105	AMEBIASIS/	2557
106	or/76-105	183587
107	and/61,75	1344
108	and/106-107	717
109	or/64,108	4672
110	limit 109 to (infant or preschool child < 1 to 6 years >)	782
111	and/50,110	248
112	limit 111 to english language	221

**DNV\_microbi\_investigations\_cinahl\_210208 (CINAHL 1982 to February Week 3 2008)**

#	Searches	Results
1	exp CLINICAL TRIALS/	53485
2	clinical trial.pt.	27116
3	(clinic\$ adj5 trial\$.tw,sh.	13402
4	SINGLE-BLIND STUDIES/	2699
5	DOUBLE-BLIND STUDIES/	10029
6	TRIPLE-BLIND STUDIES/	37
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	7356
8	RANDOM ASSIGNMENT/	17170
9	random\$.tw.	48856
10	RANDOMIZED CONTROLLED TRIALS/	41005
11	CLINICAL TRIALS/	41005
12	randomi?ed control\$ trial\$.tw.	10693
13	PLACEBOS/	4008
14	placebo\$.tw.	10210
15	or/1-14	88300
16	META ANALYSIS/	6067
17	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw.	4446
18	SYSTEMATIC REVIEW/	3491
19	systematic review.pt.	10528
20	(systematic\$ adj5 (review\$ or overview\$)).tw.	8292
21	LITERATURE REVIEW/	2525
22	or/16-21	19896
23	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	103209
24	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psychlit or "web of science" or "science citation").tw.	8752
25	((hand or manual\$) adj2 search\$).tw.	976
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	1606
27	(pooling or pooled or mantel haenszel).tw.	2397
28	(peto or dersimonian or "der simonian" or fixed effect).tw.	399
29	or/24-28	11428
30	and/23,29	6644
31	COMPARATIVE STUDIES/	43326
32	(compar\$ adj5 stud\$).tw.	16348
33	CASE-CONTROL STUDIES/	13590
34	(case\$ adj2 control\$.ti,ab.	4418
35	RETROSPECTIVE DESIGN/	27409
36	exp PROSPECTIVE STUDIES/	66702
37	RETROSPECTIVE PANEL STUDIES/	39
38	PRETEST-POSTTEST DESIGN/	10849
39	CROSS SECTIONAL STUDIES/	22996
40	NONEXPERIMENTAL STUDIES/	4012
41	EPIDEMIOLOGICAL RESEARCH/	12562
42	((epidemiologic\$ or seroepidemiologic\$) adj3 stud\$).tw.	6012
43	(cross sectional adj3 stud\$).tw.	5743
44	or/31-43	174892
45	or/15,22,30,44	245640



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46 letter.pt.	52662
47 commentary.pt.	73291
48 editorial.pt.	81733
49 or/46-48	169270
50 45 not 49	229017
51 EPIDEMIOLOGY/	1290
52 epidemiolog\$.tw.	14542
53 PREVALENCE/	10652
54 prevalence.tw.	21364
55 INCIDENCE/	7708
56 incidence.tw.	21669
57 etiolog\$.tw.	6396
58 (cause? or causation or causative).tw.	47187
59 (microbiolog\$ or micro biolog\$ or pathogen\$).tw.	9389
60 et.fs.	80993
61 or/51-60	170351
62 gastroenteritis.tw,hw.	740
63 and/61-62	373
64 limit 63 to yr="1997 - 2008"	317
65 diarrh?ea?.tw.	2533
66 DIARRHEA/	2200
67 or/65-66	3513
68 travel\$.tw.	4725
69 and/67-68	287
70 ESCHERICHIA COLI/	413
71 ((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	114
72 CRYPTOSPORIDIUM/	61
73 cryptosporidi\$.tw.	139
74 GIARDIASIS/	108
75 giardia\$.tw.	122
76 SHIGELLA/	73
77 SHIGELLOSIS/	23
78 (shigella or shigellosis).tw.	113
79 (bacillary dysentery or bacterial dysentery).tw.	1
80 (yersinia enterocoliti\$ or y enterocoliti\$).tw.	22
81 CAMPYLOBACTER/	54
82 (c jejuni or c coli or campylobacter).tw.	153
83 SALMONELLA/	165
84 salmonella.tw.	347
85 CLOSTRIDIUM DIFFICILE/	272
86 (c difficile or clostridium difficile).tw.	429
87 (entamoeba histolytica or e histolytica).tw.	31
88 AMEBIASIS/	74
89 or/70-88	1863
90 and/61,69	104
91 and/89-90	29
92 or/64,91	345

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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93 limit 92 to (infant < 1 to 23 months> or preschool child < 2 to 5 years>)	123
94 and/50,93	61
95 limit 94 to english	60

*Clinical question*

Which microbiological investigation strategy is effective in identifying a causative pathogen in children under 5 years with gastroenteritis? Do specific organisms require additional / alternative testing?

**DNV\_pathogens\_test\_medline\_250208 (Ovid MEDLINE 1950 to February Week 2 2008)**

#	Searches	Results
1	GASTROENTERITIS/	9050
2	gastroenteritis.tw.	8803
3	DIARRHEA, INFANTILE/	6060
4	DIARRHEA/	30877
5	diarrh\$.tw.	53348
6	or/1-5	74738
7	ESCHERICHIA COLI INFECTIONS/	19429
8	ESCHERICHIA COLI O157/	3492
9	ESCHERICHIA COLI/	187982
10	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	9368
11	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	23
12	exp CRYPTOSPORIDIUM/	3418
13	cryptosporidi\$.tw.	5346
14	exp GIARDIA/	2868
15	GIARDIASIS/	3775
16	giardia\$.tw.	5098
17	exp SHIGELLA/	9006
18	DYSENTERY, BACILLARY/	6137
19	shigella.tw.	8005
20	(dysentry or dysentery).tw.	4760
21	exp YERSINIA/	7425
22	(yersinia enterocoliti\$ or y enterocoliti\$).tw.	4219
23	YERSINIA INFECTIONS/	2708
24	exp CAMPYLOBACTER/	7465
25	CAMPYLOBACTER INFECTIONS/	4783
26	(c jejuni or c coli or campylobacter).tw.	9298
27	exp SALMONELLA/	44298
28	SALMONELLA INFECTIONS/	8987
29	salmonella.tw.	43255
30	CLOSTRIDIUM DIFFICILE/	2259
31	(c difficile or clostridium difficile).tw.	4272
32	(entamoeba histolytica or e histolytica).tw.	4324
33	ENTAMOEBIA HISTOLYTICA/	4270
34	AMEBIASIS/	3992
35	ROTAVIRUS/	5379
36	exp NOROVIRUS/	1265
37	(virus\$ or viral).tw.	443304
38	(rotavirus or norovirus).tw.	7535
39	or/7-38	736945
40	(stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	5472

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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41 (fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	2455
42 FECES/mi, ps, vi, ch, cy [Microbiology, Parasitology, Virology, Chemistry, Cytology]	37125
43 GASTROENTERITIS/ps, mi, vi [Parasitology, Microbiology, Virology]	3680
44 (feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	468
45 (selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	4251
46 SPECIMEN HANDLING/	16553
47 (handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	1893
48 (3 day rule? or three day rule?).tw.	6
49 TOXICOLOGY/	6770
50 toxicolog\$.tw.	26034
51 (toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	9678
52 exp MICROSCOPY/	356873
53 microscopy.tw.	189274
54 VIROLOGY/	2397
55 virolog\$.tw.	14567
56 CULTURE TECHNIQUES/	45944
57 CELL CULTURE TECHNIQUES/	17902
58 (cultur\$ adj2 (test\$ or cell?)).tw.	148126
59 PARASITOLOGY/	3022
60 parasitology.tw.	1622
61 (storage media or storage medium).tw.	552
62 CELLS, CULTURED/	334573
63 exp CULTURE MEDIA/	105145
64 (culture media or culturing media or culture medium or culturing medium).tw.	40845
65 LACTOFERRIN/	3746
66 (lactoferrin or lacto ferrin).tw.	4430
67 or/40-66	1065622
68 sensitiv\$.tw.	630925
69 diagnos\$.tw.	1069241
70 accuracy.tw.	116137
71 "SENSITIVITY AND SPECIFICITY"/	178914
72 or/68-71	1753887
73 and/6,39	26365
74 and/67,73	10496
75 and/72,74	2371
76 limit 75 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	793
77 limit 76 to english language	624

### DNV\_pathogens\_test\_embase\_250208 (EMBASE 1980 to 2008 Week 08)

# Searches	Results
1 gastroenteritis.tw,hw.	10225
2 INFANTILE DIARRHEA/	357
3 diarrh?ea?.tw.	40630
4 DIARRHEA/	70269
5 INFECTIOUS DIARRHEA/	192
6 ACUTE DIARRHEA/	1459
7 BLOODY DIARRHEA/	217

8	or/1-7	93013
9	ESCHERICHIA COLI/	127387
10	ESCHERICHIA COLI ENTEROTOXIN/	1482
11	ENTEROTOXIGENIC ESCHERICHIA COLI/	116
12	ENTEROPATHOGENIC ESCHERICHIA COLI/	237
13	ENTEROINVASIVE ESCHERICHIA COLI/	32
14	DIARRHEAGENIC ESCHERICHIA COLI/	31
15	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	6803
16	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	18
17	CRYPTOSPORIDIUM/	2206
18	cryptosporidi\$.tw.	4240
19	GIARDIA/	985
20	GIARDIASIS/	1698
21	giardia\$.tw.	3749
22	SHIGELLA/	2843
23	SHIGELLOSIS/	1546
24	(shigella or shigellosis).tw.	5202
25	(bacillary dysentery or bacterial dysentery).tw.	230
26	YERSINIA ENTEROCOLITICA/	3226
27	(yersinia enterocoliti\$ or y enterocoliti\$).tw.	3050
28	CAMPYLOBACTER/	3155
29	CAMPYLOBACTER COLI/	808
30	CAMPYLOBACTER JEJUNI/	3844
31	(c jejuni or c coli or campylobacter).tw.	7254
32	SALMONELLA/	9836
33	salmonella.tw.	28017
34	CLOSTRIDIUM DIFFICILE/	4879
35	(c difficile or clostridium difficile).tw.	4158
36	ENTAMOEBIA HISTOLYTICA/	3950
37	(entamoeba histolytica or e histolytica).tw.	2920
38	AMEBIASIS/	2560
39	ROTAVIRUS/	5360
40	NOROVIRUS/	607
41	NORWALK GASTROENTERITIS VIRUS/	745
42	(virus\$ or viral).tw.	323368
43	(rotavirus or norovirus).tw.	5868
44	or/9-43	504575
45	FECES ANALYSIS/	13020
46	FECES CULTURE/	2459
47	(stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	4369
48	(fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	1600
49	(faecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	1099
50	(feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	244
51	(faeces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	194
52	(selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	3631
53	LABORATORY DIAGNOSIS/	15424

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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54 (handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	1832
55 TOXICOLOGY/	6109
56 toxicolog\$.tw.	25338
57 (toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	10152
58 MICROSCOPY/	39989
59 microscopy.tw.	150176
60 VIROLOGY/	2775
61 virolog\$.tw.	11849
62 CULTURE TECHNIQUES/	976
63 CELL CULTURE/	180380
64 (cultur\$ adj2 (test\$ or cell?)).tw.	121983
65 PARASITOLOGY/	1155
66 parasitology.tw.	2466
67 (storage media or storage medium).tw.	375
68 (culture media or culturing media or culture medium or culturing medium).tw.	33369
69 CULTURE MEDIUM/	42371
70 LACTOFERRIN/	3789
71 (lactoferrin or lacto ferrin).tw.	3603
72 or/45-71	549560
73 sensitiv\$.tw.	547841
74 diagnos\$.tw.	843883
75 accuracy.tw.	102227
76 "SENSITIVITY AND SPECIFICITY"/	41710
77 DIAGNOSTIC ACCURACY/	114728
78 or/73-77	1413979
79 and/8,44	21711
80 and/72,78	77753
81 and/79-80	1571
82 limit 81 to (infant or preschool child < 1 to 6 years >)	225
83 limit 82 to english language	194

### DNV\_pathogens\_test\_cinahl\_250208 (CINAHL 1982 to February Week 3 2008)

# Searches	Results
1 gastroenteritis.tw,hw.	740
2 diarrh?ea?.tw.	2533
3 DIARRHEA/	2200
4 or/1-3	4082
5 ESCHERICHIA COLI/	413
6 ((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	114
7 CRYPTOSPORIDIUM/	61
8 cryptosporidi\$.tw.	139
9 GIARDIASIS/	108
10 giardia\$.tw.	122
11 SHIGELLA/	73
12 SHIGELLOSIS/	23
13 (shigella or shigellosis).tw.	113

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14 (bacillary dysentery or bacterial dysentery).tw.	1
15 (yersinia enterocoliti\$ or y enterocoliti\$).tw.	22
16 CAMPYLOBACTER/	54
17 (c jejuni or c coli or campylobacter).tw.	153
18 SALMONELLA/	165
19 salmonella.tw.	347
20 CLOSTRIDIUM DIFFICILE/	272
21 (c difficile or clostridium difficile).tw.	429
22 (entamoeba histolytica or e histolytica).tw.	31
23 AMEBIASIS/	74
24 ROTAVIRUS/	100
25 (virus\$ or viral).tw.	10968
26 (rotavirus or norovirus).tw.	372
27 or/5-26	13072
28 (stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	267
29 (fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	50
30 (faecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	30
31 (feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	5
32 (faeces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	1
33 (selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	213
34 LABORATORY DIAGNOSIS/	4907
35 (handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	69
36 TOXICOLOGY/	272
37 toxicolog\$.tw.	604
38 (toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	111
39 MICROSCOPY/	878
40 microscopy.tw.	973
41 virolog\$.tw.	475
42 CELL CULTURE/	1171
43 (cultur\$ adj2 (test\$ or cell?)).tw.	687
44 parasitology.tw.	18
45 (storage media or storage medium).tw.	14
46 (culture media or culturing media or culture medium or culturing medium).tw.	138
47 CULTURE MEDIUM/	207
48 (lactoferrin or lacto ferrin).tw.	50
49 or/28-48	10231
50 sensitiv\$.tw.	19112
51 diagnos\$.tw.	71802
52 accuracy.tw.	7514
53 "SENSITIVITY AND SPECIFICITY"/	11952
54 or/50-53	97556
55 and/4,27	924
56 and/49,54	2249
57 and/55-56	47
58 limit 57 to (infant <1 to 23 months> or preschool child <2 to 5 years>)	9
59 limit 58 to english	9

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

What microbiological investigations, if any, are useful to the diagnosis of gastroenteritis in children under 5 years?

### **DNV\_pathogens\_test\_economics\_medline\_260208 (Ovid MEDLINE 1950 to February Week 2 2008)**

<b>#</b>	<b>Searches</b>	<b>Results</b>
1	GASTROENTERITIS/	9050
2	gastroenteritis.tw.	8803
3	DIARRHEA, INFANTILE/	6060
4	DIARRHEA/	30877
5	diarrh\$.tw.	53348
6	or/1-5	74738
7	ESCHERICHIA COLI INFECTIONS/	19429
8	ESCHERICHIA COLI O157/	3492
9	ESCHERICHIA COLI/	187982
10	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	9368
11	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	23
12	exp CRYPTOSPORIDIUM/	3418
13	cryptosporidi\$.tw.	5346
14	exp GIARDIA/	2868
15	GIARDIASIS/	3775
16	giardia\$.tw.	5098
17	exp SHIGELLA/	9006
18	DYSENTERY, BACILLARY/	6137
19	shigella.tw.	8005
20	(dysentry or dysentery).tw.	4760
21	exp YERSINIA/	7425
22	(yersinia enterocoliti\$ or y enterocoliti\$).tw.	4219
23	YERSINIA INFECTIONS/	2708
24	exp CAMPYLOBACTER/	7465
25	CAMPYLOBACTER INFECTIONS/	4783
26	(c jejuni or c coli or campylobacter).tw.	9298
27	exp SALMONELLA/	44298
28	SALMONELLA INFECTIONS/	8987
29	salmonella.tw.	43255
30	CLOSTRIDIUM DIFFICILE/	2259
31	(c difficile or clostridium difficile).tw.	4272
32	(entamoeba histolytica or e histolytica).tw.	4324
33	ENTAMOEBIA HISTOLYTICA/	4270
34	AMEBIASIS/	3992
35	ROTAVIRUS/	5379
36	exp NOROVIRUS/	1265
37	(virus\$ or viral).tw.	443304
38	(rotavirus or norovirus).tw.	7535
39	or/7-38	736945
40	(stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	5472



41 (fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	2455
42 FECES/mi, ps, vi, ch, cy [Microbiology, Parasitology, Virology, Chemistry, Cytology]	37125
43 GASTROENTERITIS/ps, mi, vi [Parasitology, Microbiology, Virology]	3680
44 (feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	468
45 (selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	4251
46 SPECIMEN HANDLING/	16553
47 (handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	1893
48 (3 day rule? or three day rule?).tw.	6
49 TOXICOLOGY/	6770
50 toxicolog\$.tw.	26034
51 (toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	9678
52 exp MICROSCOPY/	356873
53 microscopy.tw.	189274
54 VIROLOGY/	2397
55 virolog\$.tw.	14567
56 CULTURE TECHNIQUES/	45944
57 CELL CULTURE TECHNIQUES/	17902
58 (cultur\$ adj2 (test\$ or cell?)).tw.	148126
59 PARASITOLOGY/	3022
60 parasitology.tw.	1622
61 (storage media or storage medium).tw.	552
62 CELLS, CULTURED/	334573
63 exp CULTURE MEDIA/	105145
64 (culture media or culturing media or culture medium or culturing medium).tw.	40845
65 LACTOFERRIN/	3746
66 (lactoferrin or lacto ferrin).tw.	4430
67 or/40-66	1065622
68 sensitiv\$.tw.	630925
69 diagnos\$.tw.	1069241
70 accuracy.tw.	116137
71 "SENSITIVITY AND SPECIFICITY"/	178914
72 or/68-71	1753887
73 and/6,39	26365
74 and/67,73	10496
75 and/72,74	2371
76 limit 75 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	793
77 limit 76 to english language	624
78 limit 77 to "costs (optimized)"	19

#### DNV\_pathogens\_test\_economics\_eedhta\_260208 (CLHTA, CLEED)

#	Searches	Results
1	GASTROENTERITIS/	12
2	gastroenteritis.tw.	18
3	DIARRHEA, INFANTILE/	6
4	DIARRHEA/	27
5	diarrh\$.tw.	70
6	or/1-5	85

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

7	ESCHERICHIA COLI INFECTIONS/	5
8	ESCHERICHIA COLI O157/	3
9	ESCHERICHIA COLI/	3
10	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	3
11	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	0
12	exp CRYPTOSPORIDIUM/	0
13	cryptosporidi\$.tw.	1
14	exp GIARDIA/	1
15	GIARDIASIS/	1
16	giardia\$.tw.	1
17	exp SHIGELLA/	1
18	DYSENTERY, BACILLARY/	1
19	shigella.tw.	1
20	(dysentry or dysentery).tw.	1
21	exp YERSINIA/	0
22	(yersinia enterocoliti\$ or y enterocoliti\$).tw.	0
23	YERSINIA INFECTIONS/	0
24	exp CAMPYLOBACTER/	3
25	CAMPYLOBACTER INFECTIONS/	2
26	(c jejuni or c coli or campylobacter).tw.	7
27	exp SALMONELLA/	3
28	SALMONELLA INFECTIONS/	2
29	salmonella.tw.	8
30	CLOSTRIDIUM DIFFICILE/	7
31	(c difficile or clostridium difficile).tw.	10
32	(entamoeba histolytica or e histolytica).tw.	0
33	ENTAMOEBIA HISTOLYTICA/	0
34	AMEBIASIS/	0
35	ROTAVIRUS/	4
36	exp NOROVIRUS/	1
37	(virus\$ or viral).tw.	542
38	(rotavirus or norovirus).tw.	15
39	or/7-38	578
40	(stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	12
41	(fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	4
42	FECES/mi, ps, vi, ch, cy [Microbiology, Parasitology, Virology, Chemistry, Cytology]	16
43	GASTROENTERITIS/ps, mi, vi [Parasitology, Microbiology, Virology]	4
44	(feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	0
45	(selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	42
46	SPECIMEN HANDLING/	12
47	(handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	14
48	(3 day rule? or three day rule?).tw.	1
49	TOXICOLOGY/	2
50	toxicolog\$.tw.	11
51	(toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	6
52	exp MICROSCOPY/	7

53	microscopy.tw.	24
54	VIROLOGY/	1
55	virolog\$.tw.	22
56	CULTURE TECHNIQUES/	0
57	CELL CULTURE TECHNIQUES/	2
58	(cultur\$ adj2 (test\$ or cell?)).tw.	26
59	PARASITOLOGY/	2
60	parasitology.tw.	2
61	(storage media or storage medium).tw.	1
62	CELLS, CULTURED/	2
63	exp CULTURE MEDIA/	8
64	(culture media or culturing media or culture medium or culturing medium).tw.	9
65	LACTOFERRIN/	0
66	(lactoferrin or lacto ferrin).tw.	0
67	or/40-66	177
68	sensitiv\$.tw.	3734
69	diagnos\$.tw.	2878
70	accuracy.tw.	347
71	"SENSITIVITY AND SPECIFICITY"/	738
72	or/68-71	5026
73	and/6,39	19
74	and/67,73	4
75	and/72,74	1
76	limit 75 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	1
77	limit 76 to english language	1

#### **DNV\_pathogens\_test\_economics\_embase\_260208 (EMBASE 1980 to 2008 Week 08)**

<b>#</b>	<b>Searches</b>	<b>Results</b>
1	gastroenteritis.tw,hw.	10225
2	INFANTILE DIARRHEA/	357
3	diarrh?ea?.tw.	40630
4	DIARRHEA/	70269
5	INFECTIOUS DIARRHEA/	192
6	ACUTE DIARRHEA/	1459
7	BLOODY DIARRHEA/	217
8	or/1-7	93013
9	ESCHERICHIA COLI/	127387
10	ESCHERICHIA COLI ENTEROTOXIN/	1482
11	ENTEROTOXIGENIC ESCHERICHIA COLI/	116
12	ENTEROPATHOGENIC ESCHERICHIA COLI/	237
13	ENTEROINVASIVE ESCHERICHIA COLI/	32
14	DIARRHEAGENIC ESCHERICHIA COLI/	31
15	((enterotoxi\$ or enteropathogen\$ or enteroinvasive\$ or enteroadheren\$ or O157:H7 or STEC or shigalike or shiga like) adj3 (Escherichia coli or e coli)).tw.	6803
16	((entero toxi\$ or entero pathogen\$ or entero invasive\$ or entero adheren\$) adj3 (Escherichia coli or e coli)).tw.	18
17	CRYPTOSPORIDIUM/	2206
18	cryptosporidi\$.tw.	4240

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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19 GIARDIA/	985
20 GIARDIASIS/	1698
21 giardia\$.tw.	3749
22 SHIGELLA/	2843
23 SHIGELLOSIS/	1546
24 (shigella or shigellosis).tw.	5202
25 (bacillary dysentery or bacterial dysentery).tw.	230
26 YERSINIA ENTEROCOLITICA/	3226
27 (yersinia enterocoliti\$ or y enterocoliti\$).tw.	3050
28 CAMPYLOBACTER/	3155
29 CAMPYLOBACTER COLI/	808
30 CAMPYLOBACTER JEJUNI/	3844
31 (c jejuni or c coli or campylobacter).tw.	7254
32 SALMONELLA/	9836
33 salmonella.tw.	28017
34 CLOSTRIDIUM DIFFICILE/	4879
35 (c difficile or clostridium difficile).tw.	4158
36 ENTAMOEBIA HISTOLYTICA/	3950
37 (entamoeba histolytica or e histolytica).tw.	2920
38 AMEBIASIS/	2560
39 ROTAVIRUS/	5360
40 NOROVIRUS/	607
41 NORWALK GASTROENTERITIS VIRUS/	745
42 (virus\$ or viral).tw.	323368
43 (rotavirus or norovirus).tw.	5868
44 or/9-43	504575
45 FECES ANALYSIS/	13020
46 FECES CULTURE/	2459
47 (stool adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	4369
48 (fecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	1600
49 (faecal\$ adj2 (test\$ or cultur\$ or microscop\$ or exam\$ or specimen?)).tw.	1099
50 (feces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	244
51 (faeces adj2 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	194
52 (selective\$ adj3 (test\$ or cultur\$ or microscop\$ or exam\$)).tw.	3631
53 LABORATORY DIAGNOSIS/	15424
54 (handl\$ adj3 (specimen? or lab test\$ or sample?)).tw.	1832
55 TOXICOLOGY/	6109
56 toxicolog\$.tw.	25338
57 (toxi\$ adj3 (test\$ or cultur\$ or microscop\$)).tw.	10152
58 MICROSCOPY/	39989
59 microscopy.tw.	150176
60 VIROLOGY/	2775
61 virolog\$.tw.	11849
62 CULTURE TECHNIQUES/	976
63 CELL CULTURE/	180380
64 (cultur\$ adj2 (test\$ or cell?)).tw.	121983
65 PARASITOLOGY/	1155
66 parasitology.tw.	2466

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67 (storage media or storage medium).tw.	375
68 (culture media or culturing media or culture medium or culturing medium).tw.	33369
69 CULTURE MEDIUM/	42371
70 LACTOFERRIN/	3789
71 (lactoferrin or lacto ferrin).tw.	3603
72 or/45-71	549560
73 sensitiv\$.tw.	547841
74 diagnos\$.tw.	843883
75 accuracy.tw.	102227
76 "SENSITIVITY AND SPECIFICITY"/	41710
77 DIAGNOSTIC ACCURACY/	114728
78 or/73-77	1413979
79 and/8,44	21711
80 and/72,78	77753
81 and/79-80	1571
82 limit 81 to (infant or preschool child < 1 to 6 years >)	225
83 limit 82 to english language	194
84 limit 83 to "economics (2 or more terms min difference)"	8

# 4 Assessing dehydration and shock

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*Clinical question*

How do we clinically assess dehydration in a child with gastroenteritis? What are the best signs/symptoms for predicting the degree of dehydration in children with gastroenteritis? What signs/symptoms are associated with hypernatremic dehydration?

**DNV\_predicting\_dehydration\_medline\_130308 (Ovid MEDLINE 1950 to March Week 1 2008)**

#	Searches	Results
1	GASTROENTERITIS/	9260
2	gastroenteritis.ti,ab.	8983
3	DIARRHEA/	31416
4	DIARRHEA, INFANTILE/	6150
5	diarrh?ea?.ti,ab.	53171
6	or/1-5	75598
7	DEHYDRATION/	8286
8	dehydrat\$.ti,ab.	20428
9	or/7-8	24766
10	HYPERNATREMIA/	1712
11	hypernatr\$.ti,ab.	1718
12	dysnatr\$.ti,ab.	35
13	or/10-12	2463
14	exp "SIGNS AND SYMPTOMS"/	1204783
15	(signs or symptom? or symptomology).ti,ab.	519222
16	(diagnostic feature? or clinical feature? or characteristic?).ti,ab.	577196
17	(physical finding? or physical feature?).ti,ab.	3808
18	(dough\$ adj3 skin).ti,ab.	5
19	(weight loss or loss of weight).ti,ab.	32891
20	oliguria.ti,ab.	1823
21	(sunken adj3 (eyes or fontanel\$)).ti,ab.	28
22	(letharg\$ or listless\$).ti,ab.	3862
23	or/14-18	2118934
24	or/14-22	2130774
25	SEVERITY OF ILLNESS INDEX/	90876
26	(severity or worsening).ti,ab.	177647
27	serious\$.ti,ab.	115420
28	(magnitude or intensity).ti,ab.	249420
29	(degree adj3 dehydrat\$).ti,ab.	155
30	(concern? or danger? or gravity).ti,ab.	124843
31	or/25-30	705045
32	and/6,9	2840
33	and/24,31	188741
34	and/32-33	321
35	limit 34 to "all child (0 to 18 years)"	236
36	(letter or comment or editorial).pt.	882285

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37 35 not 36	234
38 limit 37 to english language	193
39 and/6,13	253
40 and/23,39	185
41 limit 40 to "all child (0 to 18 years)"	159
42 (letter or comment or editorial).pt.	882285
43 41 not 42	152
44 limit 43 to english language	126
45 or/38,44	303

**DNV\_predicting\_dehydration\_embase\_130308 (EMBASE 1980 to 2008 Week 10)**

# Searches	Results
1 GASTROENTERITIS/	6481
2 ACUTE GASTROENTERITIS/	1034
3 INFANTILE GASTROENTERITIS/	156
4 VIRAL GASTROENTERITIS/	202
5 gastroenterit\$.tw.	6243
6 INFANTILE DIARRHEA/	358
7 diarrh?ea?.tw.	40722
8 or/1-7	48459
9 DEHYDRATION/	10977
10 dehydrat\$.tw.	15622
11 or/9-10	20704
12 hypernatr\$.tw.	1270
13 dysnatr\$.tw.	35
14 HYPERNATREMIA/	1673
15 or/12-14	2051
16 (signs or symptom? or symptomology).ti,ab.	451987
17 (diagnostic feature? or clinical feature? or characteristic?).ti,ab.	467644
18 (physical finding? or physical feature?).ti,ab.	3209
19 CLINICAL FEATURES/	331257
20 VITAL SIGN/	1103
21 SYMPTOM/	57682
22 (dough\$ adj3 skin).ti,ab.	4
23 (weight loss or loss of weight).ti,ab.	28216
24 oliguria.ti,ab.	1311
25 (sunken adj3 (eyes or fontanel\$)).ti,ab.	17
26 (letharg\$ or listless\$).ti,ab.	2893
27 or/16-26	1159232
28 or/16-22	1136518
29 DISEASE SEVERITY/	176986
30 (severity or worsening).ti,ab.	159704
31 seriousness.ti,ab.	2148
32 (magnitude or intensity).ti,ab.	212667
33 (degree adj3 dehydrat\$).ti,ab.	118
34 (concern? or danger? or gravity).ti,ab.	103412
35 CLINICAL GLOBAL IMPRESSION SCALE/	796

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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36 or/29-35	574299
37 and/8,11	2036
38 and/27,36	124064
39 and/37-38	169
40 and/8,15	159
41 and/28,40	50
42 or/39,41	205
43 limit 42 to child	55
44 limit 43 to english language	46

### DNV\_predicting\_dehydration\_cinahl\_130308 (CINAHL 1982 to February Week 5 2008)

# Searches	Results
1 GASTROENTERITIS/	595
2 gastroenterit\$.tw.	508
3 DIARRHEA/	2243
4 diarrh?ea?.tw.	2594
5 or/1-4	4176
6 DEHYDRATION/	1153
7 dehydrat\$.tw.	974
8 or/6-7	1681
9 HYPERNATREMIA/	147
10 hypernatr\$.tw.	99
11 dysnatr\$.tw.	4
12 or/9-11	186
13 exp "SIGNS AND SYMPTOMS"/	139748
14 (signs or symptom? or symptomology).ti,ab.	47888
15 (diagnostic feature? or clinical feature? or characteristic?).ti,ab.	34744
16 (physical finding? or physical feature?).ti,ab.	368
17 (dough\$ adj3 skin).ti,ab.	0
18 (weight loss or loss of weight).ti,ab.	3639
19 oliguria.ti,ab.	66
20 (sunken adj3 (eyes or fontanel\$)).ti,ab.	2
21 (letharg\$ or listless\$).ti,ab.	227
22 or/13-21	204126
23 or/13-17	202955
24 SEVERITY OF ILLNESS INDEX/	6706
25 (severity or worsening).ti,ab.	16828
26 serious\$.ti,ab.	13923
27 (magnitude or intensity).ti,ab.	12783
28 (degree adj3 dehydrat\$).ti,ab.	8
29 (concern? or danger? or gravity).ti,ab.	28201
30 or/24-29	73026
31 and/5,8	241
32 and/22,30	21809
33 and/31-32	24
34 and/5,12	9
35 and/23,34	5



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36 or/33,35	28
37 limit 36 to (newborn infant or infant <1 to 23 months> or preschool child <2 to 5 years> or child <6 to 12 years> or adolescence <13 to 18 years>)	21
38 limit 37 to english	19

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

How can dehydration best be clinically assessed in children less than five years of age with gastroenteritis?  
What factors are associated with an increased risk of dehydration?

### **DNV\_risk\_factors\_medline\_100308 (Ovid MEDLINE 1950 to February Week 4 2008)**

<b># Searches</b>	<b>Results</b>
1 GASTROENTERITIS/	9075
2 gastroenteritis.tw.	8825
3 DIARRHEA/	30922
4 DIARRHEA, INFANTILE/	6066
5 diarrh?ea?.tw.	52440
6 or/1-5	74416
7 DEHYDRATION/	8184
8 dehydrat\$.tw.	20242
9 HYPERNATREMIA/	1702
10 hypernatr\$.tw.	1701
11 dysnatr\$.tw.	35
12 or/7-11	26290
13 RISK FACTORS/	339476
14 (risk adj3 factor?).tw.	187248
15 COMORBIDITY/	33159
16 (comorbid\$ or co morbid\$.tw.	31693
17 (refus\$ or noncomplian\$ or non complian\$.tw.	22086
18 TREATMENT REFUSAL/	8673
19 (poverty or impoverished or low income or deprived or deprivation).tw.	56919
20 POVERTY/	17669
21 POVERTY AREA/	2418
22 SOCIAL ISOLATION/	8509
23 IMMUNOCOMPROMISED HOST/	9387
24 (immunocompromised or immunosuppress\$.tw.	82225
25 "SEVERITY OF ILLNESS INDEX"/	89911
26 ((previous\$ or prior) adj3 admission?).tw.	2632
27 or/13-26	717143
28 and/6,12	2880
29 and/27-28	309
30 limit 29 to "all child (0 to 18 years)"	234
31 (letter or comment or editorial).pt.	874581
32 30 not 31	229
33 limit 32 to (english language and humans)	193

### **DNV\_risk\_factors\_embase\_100308 (EMBASE 1980 to 2008 Week 09)**

<b># Searches</b>	<b>Results</b>
1 GASTROENTERITIS/	6473
2 ACUTE GASTROENTERITIS/	1030
3 INFANTILE GASTROENTERITIS/	156
4 VIRAL GASTROENTERITIS/	200
5 gastroenterit\$.tw.	6234

6	INFANTILE DIARRHEA/	357
7	diarrh?ea?.tw.	40672
8	or/1-7	48396
9	DEHYDRATION/	10960
10	dehydrat\$.tw.	15603
11	hypernatr\$.tw.	1269
12	dysnatr\$.tw.	34
13	HYPERNATREMIA/	1669
14	or/9-13	22167
15	RISK FACTOR/	218018
16	(risk adj3 factor?).tw.	172315
17	HIGH RISK INFANT/	235
18	HIGH RISK PATIENT/	31727
19	HIGH RISK POPULATION/	42041
20	COMORBIDITY/	44880
21	(comorbid\$ or co morbid\$.tw.	32586
22	(refus\$ or noncomplan\$ or non complian\$.tw.	20055
23	TREATMENT REFUSAL/	1525
24	(poverty or impoverished or low income or deprived or deprivation).tw.	43926
25	exp SOCIAL STATUS/	31578
26	SOCIAL ISOLATION/	4986
27	exp IMMUNE DEFICIENCY/	118849
28	IMMUNOCOMPROMISED PATIENT/	493
29	(immunocompromised or immunosuppress\$.tw.	74448
30	((previous\$ or prior adj3 (admission? or attendance?)).tw.	2525
31	or/15-30	640673
32	and/8,14	2080
33	and/31-32	253
34	limit 33 to (infant or preschool child <1 to 6 years> or school child <7 to 12 years> or adolescent <13 to 17 years>)	98
35	limit 34 to english language	84
36	from 35 keep 1-10	

### DNV\_risk\_factors\_cinahl\_100308 (CINAHL 1982 to February Week 5 2008)

#	Searches	Results
1	infan\$.tw.	23000
2	neonat\$.tw.	11577
3	newborn\$.tw.	5787
4	(small adj2 gestational age).tw.	358
5	(low adj birth adj weight).tw.	1985
6	(low adj birth?weight).tw.	727
7	lbw.tw.	239
8	vlbw.tw.	299
9	(baby or babies).tw.	8161
10	toddler\$.tw.	1398
11	(child adj3 (preschool or pre?school)).tw.	97
12	INFANT/	44688

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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13 INFANT, NEWBORN/	34893
14 CHILD, PRESCHOOL/	50456
15 (pediatri\$ or paediatri\$).tw.	23591
16 or/1-15	113308
17 GASTROENTERITIS/	595
18 gastroenterit\$.tw.	508
19 DIARRHEA/	2243
20 diarrh?ea?.tw.	2594
21 or/17-20	4176
22 DEHYDRATION/	1153
23 dehydrat\$.tw.	974
24 HYPERNATREMIA/	147
25 hypernatr\$.tw.	99
26 dysnatr\$.tw.	4
27 or/22-26	1809
28 RISK FACTORS/	26705
29 (risk adj3 factor?).tw.	23780
30 COMORBIDITY/	8038
31 (comorbid\$ or co morbid\$).tw.	6120
32 (refus\$ or noncomplan\$ or non complian\$).tw.	3919
33 TREATMENT REFUSAL/	1927
34 (poverty or impoverished or low income or deprived or deprivation).tw.	7458
35 POVERTY/	6143
36 POVERTY AREA/	458
37 SOCIAL ISOLATION/	1599
38 IMMUNOCOMPROMISED HOST/	1012
39 (immunocompromised or immunosuppress\$).tw.	2363
40 "SEVERITY OF ILLNESS INDEX"/	6706
41 ((previous\$ or prior) adj3 (admission? or attendance?)).tw.	349
42 or/28-41	79122
43 and/16,21	1226
44 and/27,42	181
45 and/43-44	6
46 limit 45 to english	6

*Clinical question*

What investigations should be performed as part of the assessment of a child with gastroenteritis? Specifically as a result of dehydration (of any degree) and/or of shock? When should specialised tests be carried out?

**DNV\_assessment\_medline\_240408 (Ovid MEDLINE 1950 to April Week 3 2008)**

#	Searches	Results
1	GASTROENTERITIS/	9318
2	gastroenteritis.ti,ab.	9062
3	DIARRHEA/	31594
4	DIARRHEA, INFANTILE/	6163
5	(diarrh?ea? adj3 (acute or infect\$)).ti,ab.	6251
6	or/1-5	49598
7	DEHYDRATION/	8358
8	dehydrat\$.ti,ab.	20597
9	exp SHOCK/	48687
10	shock.ti,ab.	92851
11	or/7-10	138644
12	HYPERNATREMIA/bl, di	281
13	HYPONATREMIA/bl, di	1072
14	HYPERKALEMIA/bl, di	667
15	HYPOKALEMIA/bl, di	908
16	((hypernatr\$ or hyperkal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	108
17	BLOOD GLUCOSE/	97912
18	ELECTROLYTES/	17281
19	SODIUM/bl, cf, df, ur	20827
20	POTASSIUM/bl, cf, ur	20567
21	POTASSIUM DEFICIENCY/	1460
22	CHLORIDES/bl, cf, df, ur	4272
23	UREA/bl, cf, df, ur	7603
24	BLOOD UREA NITROGEN/	9361
25	CREATININE/bl, cf, df, ur	29482
26	exp BLOOD GAS ANALYSIS/	25532
27	blood gas??.ti,ab.	16600
28	(total CO2 or TCO2).ti,ab.	582
29	BICARBONATES/bl, df	3677
30	CARBON DIOXIDE/bl	21618
31	ACID BASE EQUILIBRIUM/	14101
32	ACID BASE IMBALANCE/	1703
33	ACIDOSIS/bl, cf, ur	1455
34	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	36079
35	(acid base adj3 (balance or imbalance or equilibrium)).ti,ab.	5334
36	blood urea nitrogen.ti,ab.	4347
37	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	3314
38	or/12-37	267194
39	and/6,11	2596
40	and/38-39	389

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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41 SERUM ALBUMIN/	35039
42 HYPOALBUMINEMIA/	269
43 hypoalbumin?emi?.ti,ab.	2924
44 PREALBUMIN/	3069
45 LEUKOCYTOSIS/	3982
46 LEUKOCYTE COUNT/	45873
47 (leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	12615
48 LYMPHOCYTE COUNT/	6925
49 ((lymphocyte or white blood cell) adj2 (count or morpholog? or differential?)).ti,ab.	9444
50 PLATELET COUNT/	13696
51 (platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	11746
52 HEMOGLOBINS/	50107
53 HEMOGLOBINS, ABNORMAL/	6252
54 HEMOGLOBINURIA/	1031
55 ((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	12301
56 BLOOD SEDIMENTATION/	8799
57 (erythrocyte sedimentation rate or blood sedimentation).ti,ab.	6683
58 C-REACTIVE PROTEIN/	16038
59 c-reactive protein.ti,ab.	18826
60 CALCITONIN/	12161
61 (procalcitonin or calcitonin).ti,ab.	18859
62 ACUTE PHASE REACTION/	2467
63 acute phase react\$.ti,ab.	2988
64 BIOLOGICAL MARKERS/	80155
65 exp RADIOGRAPHY, ABDOMINAL/	29093
66 ((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	1393
67 exp ENDOSCOPY, DIGESTIVE SYSTEM/	58299
68 (endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	101615
69 base deficit?.ti,ab.	772
70 ACIDOSIS/	13377
71 exp ALKALOSIS/	4096
72 (alkalos?s or acidos?s).ti,ab.	24823
73 ZINC/bl, cf, df, ur	8563
74 (zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	6857
75 URINALYSIS/	2673
76 (urinalys?s or urin\$ specific gravity).ti,ab.	4668
77 (urin\$ adj2 osmolarity).ti,ab.	277
78 or/41-77	498993
79 and/6,78	3063
80 or/40,79	3355
81 CASE REPORTS/	1375499
82 (letter or editorial or comment).pt.	895582
83 or/81-82	2140680
84 80 not 83	2481
85 limit 84 to ("newborn infant (birth to 1 month)" or "infant (1 to 23 months)" or "preschool child (2 to 5 years)")	896
86 limit 85 to humans	859

## DNI\_assessment\_embase\_250408 (EMBASE 1980 to 2008 Week 17)

#	Searches	Results
1	GASTROENTERITIS/	6542
2	ACUTE GASTROENTERITIS/	1040
3	INFANTILE GASTROENTERITIS/	156
4	VIRAL GASTROENTERITIS/	207
5	gastroenterit\$.tw.	6297
6	INFANTILE DIARRHEA/	361
7	diarrh?ea?.tw.	40997
8	or/1-7	48818
9	DEHYDRATION/	11085
10	dehydrat\$.tw.	15723
11	SHOCK/	11100
12	(shock or collapse?).ti,ab.	87036
13	or/9-12	111582
14	HYPERNATREMIA/di	186
15	HYPONATREMIA/di	691
16	HYPERKALEMIA/di	358
17	HYPOKALEMIA/di	477
18	((hypernatr\$ or hyperkal\$ or hyponatr\$ or hypokal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	390
19	GLUCOSE BLOOD LEVEL/	54727
20	ELECTROLYTE/	10336
21	SODIUM BLOOD LEVEL/	3957
22	SODIUM DEFICIENCY/	133
23	POTASSIUM BLOOD LEVEL/	5170
24	POTASSIUM DEFICIENCY/	224
25	CHLORIDE BLOOD LEVEL/	589
26	CHLORIDE DEFICIENCY/	10
27	UREA BLOOD LEVEL/	2904
28	UREA BREATH TEST/	1073
29	UREA NITROGEN BLOOD LEVEL/	5134
30	CREATININE BLOOD LEVEL/	21554
31	CREATININE URINE LEVEL/	2668
32	BLOOD GAS ANALYSIS/	4984
33	blood gas??.ti,ab.	12941
34	(total CO2 or TCO2).ti,ab.	516
35	BICARBONATES/	17864
36	CARBON DIOXIDE/	25569
37	ACID BASE BALANCE/	5870
38	exp "DISORDERS OF ACID BASE BALANCE"/	34238
39	(acid base adj3 (balance or imbalance or equilibrium or disorder\$)).ti,ab.	2473
40	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	31384
41	blood urea nitrogen.ti,ab.	3733
42	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	2191
43	or/14-42	199780
44	and/8,13	2577

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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45 and/43-44	409
46 SERUM ALBUMIN/	5280
47 HYPOALBUMINEMIA/	2831
48 hypoalbumin?emi?.ti,ab.	2358
49 PREALBUMIN/	3415
50 LEUKOCYTOSIS/	6363
51 LEUKOCYTE COUNT/	20173
52 (leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	9790
53 LYMPHOCYTE COUNT/	16476
54 ((lymphocyte or white blood cell) adj2 (count? or morpholog? or differential?)).ti,ab.	12163
55 THROMBOCYTE COUNT/	15338
56 (platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	10279
57 exp HEMOGLOBIN/	64639
58 HEMOGLOBINURIA/	578
59 ((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	9842
60 ERYTHROCYTE SEDIMENTATION RATE/	8959
61 (erythrocyte sedimentation rate or blood sedimentation).ti,ab.	5559
62 C-REACTIVE PROTEIN/	25568
63 c-reactive protein.ti,ab.	17170
64 CALCITONIN/	12310
65 PROCALCITONIN/	1160
66 (procalcitonin or calcitonin).ti,ab.	16548
67 ACUTE PHASE RESPONSE/	3452
68 acute phase react\$.ti,ab.	2644
69 BIOLOGICAL MARKER/	28106
70 ABDOMINAL RADIOGRAPHY/	8091
71 ((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	1157
72 exp DIGESTIVE TRACT ENDOSCOPY/	53289
73 (endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	90455
74 base deficit?.ti,ab.	666
75 exp "DISORDERS OF ACID BASE BALANCE"/	34238
76 (alkalos?s or acidos?s).ti,ab.	18362
77 ZINC BLOOD LEVEL/	2256
78 (zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	5704
79 URINE OSMOLARITY/	1701
80 urin\$ specific gravity.ti,ab.	269
81 (urin\$ adj2 osmolarity).ti,ab.	172
82 ZINC DEFICIENCY/	3017
83 or/46-82	386262
84 and/8,83	5452
85 or/45,84	5686
86 limit 85 to (infant or preschool child < 1 to 6 years >)	702
87 CASE REPORT/	987264
88 (letter or editorial or comment).pt.	621207
89 or/87-88	1522240
90 86 not 89	473
91 limit 90 to human	445



## DNV\_assessment\_cinahl\_250408 (CINAHL 1982 to April Week 3 2008)

#	Searches	Results
1	GASTROENTERITIS/	624
2	gastroenterit\$.tw.	538
3	DIARRHEA/	2372
4	diarrh?ea?.tw.	2779
5	or/1-4	4448
6	DEHYDRATION/	1189
7	dehydrat\$.tw.	1013
8	exp SHOCK/	2720
9	shock.ti,ab.	3835
10	or/6-9	6824
11	HYPERNATREMIA/bl, di	29
12	HYPONATREMIA/bl, di	102
13	HYPERKALEMIA/bl, di	71
14	HYPOKALEMIA/bl, di	49
15	((hypernatr\$ or hyperkal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	9
16	BLOOD GLUCOSE/	5146
17	ELECTROLYTES/	376
18	SODIUM/bl, cf, df, ur	307
19	POTASSIUM/bl, cf, df, ur	273
20	CHLORIDES/bl, cf, df, ur	26
21	UREA/bl, cf, df, ur	156
22	BLOOD UREA NITROGEN/	251
23	CREATININE/bl, cf, df, ur	1119
24	exp BLOOD GAS ANALYSIS/	2969
25	blood gas??.ti,ab.	1236
26	(total CO2 or TCO2).ti,ab.	13
27	BICARBONATES/bl, df	51
28	CARBON DIOXIDE/bl	197
29	ACID BASE EQUILIBRIUM/	359
30	ACID BASE IMBALANCE/	230
31	ACIDOSIS/bl, cf, ur	13
32	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	1952
33	(acid base adj3 (balance or imbalance or equilibrium)).ti,ab.	143
34	blood urea nitrogen.ti,ab.	201
35	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	103
36	or/11-35	12773
37	and/5,10	274
38	and/36-37	11
39	SERUM ALBUMIN/	754
40	hypoalbumin?emi?.ti,ab.	172
41	LEUKOCYTE COUNT/	672
42	(leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	326
43	LYMPHOCYTE COUNT/	257
44	((lymphocyte or white blood cell) adj2 (count or morpholog? or differential? or analys\$)).ti,ab.	551

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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45 PLATELET COUNT/	358
46 (platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	417
47 HEMOGLOBINS/	2044
48 ((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	832
49 BLOOD SEDIMENTATION/	284
50 (erythrocyte sedimentation rate or blood sedimentation).ti,ab.	325
51 C-REACTIVE PROTEIN/	2312
52 c-reactive protein.ti,ab.	1964
53 CALCITONIN/	393
54 (procalcitonin or calcitonin).ti,ab.	378
55 acute phase react\$.ti,ab.	76
56 BIOLOGICAL MARKERS/	5841
57 exp RADIOGRAPHY, ABDOMINAL/	817
58 ((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	89
59 exp ENDOSCOPY, DIGESTIVE SYSTEM/	3785
60 (endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	5524
61 base deficit?.ti,ab.	111
62 ACIDOSIS/	587
63 exp ALKALOSIS/	177
64 (alkalos?s or acidos?s).ti,ab.	824
65 ZINC/bl, cf, df, ur	316
66 (zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	205
67 URINALYSIS/	2054
68 (urinalys?s or urin\$ specific gravity).ti,ab.	465
69 (urin\$ adj2 osmolarity).ti,ab.	6
70 or/39-69	25062
71 and/5,70	282
72 or/38,71	288
73 limit 72 to (newborn infant or infant < 1 to 23 months > or preschool child < 2 to 5 years >)	73
74 CASE REPORTS/	6481
75 (letter or editorial or comment).pt.	145543
76 or/74-75	151922
77 73 not 76	71

*Clinical question*

What investigations should be performed as part of the assessment of a child with gastroenteritis?

(a) Specifically as a result of dehydration (of any degree) and/or of shock

(b) When should specialised tests be carried out?

**DNV\_assessment\_economics\_medline\_230508 (Ovid MEDLINE 1950 to May Week 2 2008)**

#	Searches	Results
1	ECONOMICS/	25664
2	"COSTS AND COST ANALYSIS"/	36861
3	COST ALLOCATION/	1853
4	COST-BENEFIT ANALYSIS/	43288
5	COST CONTROL/	17859
6	COST SAVINGS/	6000
7	COST OF ILLNESS/	10523
8	COST SHARING/	1390
9	HEALTH CARE COSTS/	16749
10	DIRECT SERVICE COSTS/	848
11	DRUG COSTS/	8552
12	EMPLOYER HEALTH COSTS/	988
13	HOSPITAL COSTS/	5597
14	HEALTH RESOURCES/	6302
15	"HEALTH SERVICES NEEDS AND DEMAND"/	29305
16	HEALTH PRIORITIES/	6771
17	HEALTH EXPENDITURES/	10178
18	CAPITAL EXPENDITURES/	1834
19	FINANCIAL MANAGEMENT/	14438
20	FINANCIAL MANAGEMENT, HOSPITAL/	6894
21	QUALITY-ADJUSTED LIFE YEARS/	3432
22	"DEDUCTIBLES AND COINSURANCE"/	1182
23	MEDICAL SAVINGS ACCOUNTS/	385
24	ECONOMICS, HOSPITAL/	8537
25	ECONOMICS, MEDICAL/	6986
26	ECONOMICS, NURSING/	3837
27	ECONOMICS, PHARMACEUTICAL/	1912
28	MODELS, ECONOMIC/	3130
29	MODELS, ECONOMETRIC/	2732
30	RESOURCE ALLOCATION/	5941
31	HEALTH CARE RATIONING/	8923
32	"FEES AND CHARGES"/	7353
33	BUDGETS/	7644
34	VALUE OF LIFE/	5035
35	(financ\$ or fiscal\$ or funding).tw.	53789
36	(QALY\$ or life?year\$).tw.	2051
37	(econom\$ or cost\$).tw.	279727
38	pharmacoeconomic\$.tw.	1868
39	ec.fs.	241761
40	or/1-39	559880

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

41	GASTROENTERITIS/	9350
42	gastroenteritis.ti,ab.	9108
43	DIARRHEA/	31687
44	DIARRHEA, INFANTILE/	6171
45	(diarrh?ea? adj3 (acute or infect\$)).ti,ab.	6278
46	or/41-45	49751
47	DEHYDRATION/	8382
48	dehydrat\$.ti,ab.	20682
49	exp SHOCK/	48853
50	shock.ti,ab.	93313
51	or/47-50	139282
52	HYPERNATREMIA/bl, di	284
53	HYPONATREMIA/bl, di	1078
54	HYPERKALEMIA/bl, di	672
55	HYPOKALEMIA/bl, di	916
56	((hypernatr\$ or hyperkal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	110
57	BLOOD GLUCOSE/	98405
58	ELECTROLYTES/	17349
59	SODIUM/bl, cf, df, ur	20887
60	POTASSIUM/bl, cf, ur	20605
61	POTASSIUM DEFICIENCY/	1461
62	CHLORIDES/bl, cf, df, ur	4277
63	UREA/bl, cf, df, ur	7622
64	BLOOD UREA NITROGEN/	9386
65	CREATININE/bl, cf, df, ur	29652
66	exp BLOOD GAS ANALYSIS/	25609
67	blood gas?.ti,ab.	16652
68	(total CO2 or TCO2).ti,ab.	583
69	BICARBONATES/bl, df	3685
70	CARBON DIOXIDE/bl	21652
71	ACID BASE EQUILIBRIUM/	14127
72	ACID BASE IMBALANCE/	1706
73	ACIDOSIS/bl, cf, ur	1457
74	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	36298
75	(acid base adj3 (balance or imbalance or equilibrium)).ti,ab.	5347
76	blood urea nitrogen.ti,ab.	4385
77	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	3323
78	or/52-77	268328
79	and/46,51	2602
80	and/78-79	391
81	SERUM ALBUMIN/	35129
82	HYPOTALBUMINEMIA/	272
83	hypoalbumin?emi?.ti,ab.	2945
84	PREALBUMIN/	3083
85	LEUKOCYTOSIS/	3997
86	LEUKOCYTE COUNT/	45989

87	(leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	12668
88	LYMPHOCYTE COUNT/	6976
89	((lymphocyte or white blood cell) adj2 (count or morpholog? or differential?)).ti,ab.	9487
90	PLATELET COUNT/	13747
91	(platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	11801
92	HEMOGLOBINS/	50267
93	HEMOGLOBINS, ABNORMAL/	6259
94	HEMOGLOBINURIA/	1033
95	((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	12380
96	BLOOD SEDIMENTATION/	8831
97	(erythrocyte sedimentation rate or blood sedimentation).ti,ab.	6720
98	C-REACTIVE PROTEIN/	16245
99	c-reactive protein.ti,ab.	19072
100	CALCITONIN/	12183
101	(procalcitonin or calcitonin).ti,ab.	18913
102	ACUTE PHASE REACTION/	2476
103	acute phase react\$.ti,ab.	3002
104	BIOLOGICAL MARKERS/	81084
105	exp RADIOGRAPHY, ABDOMINAL/	29211
106	((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	1405
107	exp ENDOSCOPY, DIGESTIVE SYSTEM/	58745
108	(endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	102187
109	base deficit?.ti,ab.	778
110	ACIDOSIS/	13403
111	exp ALKALOSIS/	4102
112	(alkalos?s or acidosis).ti,ab.	24918
113	ZINC/bl, cf, df, ur	8583
114	(zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	6882
115	URINALYSIS/	2688
116	(urinalys?s or urin\$ specific gravity).ti,ab.	4686
117	(urin\$ adj2 osmolarity).ti,ab.	277
118	or/81-117	501752
119	and/46,118	3080
120	or/80,119	3373
121	limit 120 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)" or "child (6 to 12 years)")	1267
122	and/40,121	27
123	limit 121 to ("costs (optimized)" or "economics (optimized)")	21
124	or/122-123	27

#### DNV\_assessment\_economics\_eedhta\_230508 (CLHTA, CLEED)

#	Searches	Results
1	GASTROENTERITIS/	29
2	gastroenteritis.ti,ab.	16
3	DIARRHEA/	56
4	DIARRHEA, INFANTILE/	10
5	(diarrh?ea? adj3 (acute or infect\$)).ti,ab.	4

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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6	or/1-5	88
7	DEHYDRATION/	5
8	dehydrat\$.ti,ab.	3
9	exp SHOCK/	38
10	shock.ti,ab.	43
11	or/7-10	83
12	HYPERNATREMIA/bl, di	1
13	HYPONATREMIA/bl, di	0
14	HYPERKALEMIA/bl, di	0
15	HYPOKALEMIA/bl, di	0
16	((hypernatr\$ or hyperkal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	0
17	BLOOD GLUCOSE/	116
18	ELECTROLYTES/	7
19	SODIUM/bl, cf, df, ur	1
20	POTASSIUM/bl, cf, ur	2
21	POTASSIUM DEFICIENCY/	0
22	CHLORIDES/bl, cf, df, ur	0
23	UREA/bl, cf, df, ur	3
24	BLOOD UREA NITROGEN/	6
25	CREATININE/bl, cf, df, ur	33
26	exp BLOOD GAS ANALYSIS/	28
27	blood gas?.ti,ab.	5
28	(total CO2 or TCO2).ti,ab.	0
29	BICARBONATES/bl, df	1
30	CARBON DIOXIDE/bl	1
31	ACID BASE EQUILIBRIUM/	1
32	ACID BASE IMBALANCE/	0
33	ACIDOSIS/bl, cf, ur	0
34	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	10
35	(acid base adj3 (balance or imbalance or equilibrium)).ti,ab.	0
36	blood urea nitrogen.ti,ab.	0
37	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	0
38	or/12-37	195
39	and/6,11	2
40	and/38-39	0
41	SERUM ALBUMIN/	17
42	HYPOALBUMINEMIA/	0
43	hypoalbumin?emi?.ti,ab.	0
44	PREALBUMIN/	2
45	LEUKOCYTOSIS/	0
46	LEUKOCYTE COUNT/	27
47	(leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	2
48	LYMPHOCYTE COUNT/	7
49	((lymphocyte or white blood cell) adj2 (count or morpholog? or differential?)).ti,ab.	2
50	PLATELET COUNT/	18
51	(platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	2

52 HEMOGLOBINS/	36
53 HEMOGLOBINS, ABNORMAL/	1
54 HEMOGLOBINURIA/	1
55 ((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	2
56 BLOOD SEDIMENTATION/	2
57 (erythrocyte sedimentation rate or blood sedimentation).ti,ab.	1
58 C-REACTIVE PROTEIN/	22
59 c-reactive protein.ti,ab.	13
60 CALCITONIN/	13
61 (procalcitonin or calcitonin).ti,ab.	6
62 ACUTE PHASE REACTION/	0
63 acute phase react\$.ti,ab.	0
64 BIOLOGICAL MARKERS/	71
65 exp RADIOGRAPHY, ABDOMINAL/	82
66 ((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	2
67 exp ENDOSCOPY, DIGESTIVE SYSTEM/	412
68 (endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	310
69 base deficit?.ti,ab.	0
70 ACIDOSIS/	2
71 exp ALKALOSIS/	0
72 (alkalos?s or acidos?s).ti,ab.	2
73 ZINC/bl, cf, df, ur	2
74 (zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	1
75 URINALYSIS/	29
76 (urinalys?s or urin\$ specific gravity).ti,ab.	6
77 (urin\$ adj2 osmolarity).ti,ab.	0
78 or/41-77	797
79 and/6,78	1
80 or/40,79	1

#### DNV\_assessment\_economics\_embase\_230508 (EMBASE 1980 to 2008 Week 21)

#	Searches	Results
1	ECONOMICS/	5570
2	HEALTH ECONOMICS/	10003
3	ECONOMIC EVALUATION/	4140
4	COST BENEFIT ANALYSIS/	28445
5	COST CONTROL/	16379
6	COST EFFECTIVENESS ANALYSIS/	54126
7	COST MINIMIZATION ANALYSIS/	1328
8	COST OF ILLNESS/	4502
9	COST UTILITY ANALYSIS/	2240
10	COST/	19905
11	HEALTH CARE COST/	58757
12	DRUG COST/	33082
13	HEALTH CARE FINANCING/	9092
14	HOSPITAL COST/	6212
15	SOCIOECONOMICS/	29881

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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16	ECONOMIC ASPECT/	69636
17	QUALITY-ADJUSTED LIFE YEARS/	3614
18	FINANCIAL MANAGEMENT/	22558
19	PHARMACOECONOMICS/	911
20	RESOURCE ALLOCATION/	7236
21	(financ\$ or fiscal\$ or funding).ti.	6097
22	(QALY\$ or life?year\$).ti.	146
23	(econom\$ or cost\$).ti.	51717
24	pharmacoeconomic\$.ti.	1267
25	or/1-24	292892
26	GASTROENTERITIS/	6572
27	ACUTE GASTROENTERITIS/	1052
28	INFANTILE GASTROENTERITIS/	156
29	VIRAL GASTROENTERITIS/	208
30	gastroenterit\$.tw.	6320
31	INFANTILE DIARRHEA/	361
32	diarrh?ea?.tw.	41162
33	or/26-32	49020
34	DEHYDRATION/	11154
35	dehydrat\$.tw.	15780
36	SHOCK/	11133
37	(shock or collapse?).ti,ab.	87412
38	or/34-37	112077
39	HYPERNATREMIA/di	186
40	HYPONATREMIA/di	693
41	HYPERKALEMIA/di	361
42	HYPOKALEMIA/di	478
43	((hypernatr\$ or hyperkal\$ or hyponatr\$ or hypokal\$) adj3 (test\$ or diagnos\$ or investigat\$)).ti,ab.	390
44	GLUCOSE BLOOD LEVEL/	55075
45	ELECTROLYTE/	10379
46	SODIUM BLOOD LEVEL/	3987
47	SODIUM DEFICIENCY/	133
48	POTASSIUM BLOOD LEVEL/	5212
49	POTASSIUM DEFICIENCY/	224
50	CHLORIDE BLOOD LEVEL/	592
51	CHLORIDE DEFICIENCY/	10
52	UREA BLOOD LEVEL/	2925
53	UREA BREATH TEST/	1086
54	UREA NITROGEN BLOOD LEVEL/	5183
55	CREATININE BLOOD LEVEL/	21730
56	CREATININE URINE LEVEL/	2687
57	BLOOD GAS ANALYSIS/	5010
58	blood gas??.ti,ab.	12991
59	(total CO2 or TCO2).ti,ab.	517
60	BICARBONATES/	17969
61	CARBON DIOXIDE/	25742
62	ACID BASE BALANCE/	5888
63	exp "DISORDERS OF ACID BASE BALANCE"/	34401



64	(acid base adj3 (balance or imbalance or equilibrium or disorder\$)).ti,ab.	2482
65	((electrolyte? or creatinine or urea or blood glucose or sodium or potassium or chloride) adj3 (test\$ or analys\$ or level?)).ti,ab.	31540
66	blood urea nitrogen.ti,ab.	3762
67	((electrolyte? or creatinine or urea or sodium or potassium or chloride) adj3 (deficit? or deficien\$ or disturbance?)).ti,ab.	2196
68	or/39-67	200879
69	and/33,38	2593
70	and/68-69	413
71	SERUM ALBUMIN/	5314
72	HYPOALBUMINEMIA/	2848
73	hypoalbumin?emi?.ti,ab.	2368
74	PREALBUMIN/	3440
75	LEUKOCYTOSIS/	6411
76	LEUKOCYTE COUNT/	20298
77	(leu?ocytos?s or leu?ocyte count or pleocytos?s).ti,ab.	9830
78	LYMPHOCYTE COUNT/	16535
79	((lymphocyte or white blood cell) adj2 (count? or morpholog? or differential?)).ti,ab.	12205
80	THROMBOCYTE COUNT/	15457
81	(platelet adj2 (count or morpholog\$ or differential?)).ti,ab.	10329
82	exp HEMOGLOBIN/	65049
83	HEMOGLOBINURIA/	582
84	((hemoglobin\$ or haemoglobin\$) adj2 (test\$ or analys\$ or abnormal\$ or level?)).ti,ab.	9898
85	ERYTHROCYTE SEDIMENTATION RATE/	9024
86	(erythrocyte sedimentation rate or blood sedimentation).ti,ab.	5580
87	C-REACTIVE PROTEIN/	25871
88	c-reactive protein.ti,ab.	17341
89	CALCITONIN/	12330
90	PROCALCITONIN/	1176
91	(procalcitonin or calcitonin).ti,ab.	16600
92	ACUTE PHASE RESPONSE/	3461
93	acute phase react\$.ti,ab.	2651
94	BIOLOGICAL MARKER/	28521
95	ABDOMINAL RADIOGRAPHY/	8181
96	((x ray? or radiograph\$) adj3 (abdomen\$ or pelvi?)).ti,ab.	1162
97	exp DIGESTIVE TRACT ENDOSCOPY/	53674
98	(endoscop\$ or colonoscop\$ or sigmoidoscop\$).ti,ab.	90958
99	base deficit?.ti,ab.	667
100	exp "DISORDERS OF ACID BASE BALANCE"/	34401
101	(alkalos?s or acidosis).ti,ab.	18409
102	ZINC BLOOD LEVEL/	2266
103	(zinc adj3 (deficien\$ or test\$ or level?)).ti,ab.	5730
104	URINE OSMOLARITY/	1706
105	urin\$ specific gravity.ti,ab.	269
106	(urin\$ adj2 osmolarity).ti,ab.	172
107	ZINC DEFICIENCY/	3026
108	or/71-107	388691
109	and/33,108	5487

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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110 or/70,109	5722
111 limit 110 to (infant or preschool child < 1 to 6 years >)	706
112 and/25,111	17
113 limit 111 to "economics (2 or more terms min difference)"	7
114 112 or 113	21

# 5 Fluid management

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*Clinical question*

Which is more cost effective, ORT or IV, in children under 5?

**DNV\_oral\_vs\_iv\_economic\_medline\_240907 (Ovid MEDLINE 1950 to September Week 2 2007)**

#	Search History	Results
1	ECONOMICS/	25129
2	"COSTS AND COST ANALYSIS"/	36078
3	COST ALLOCATION/	1824
4	COST-BENEFIT ANALYSIS/	41112
5	COST CONTROL/	17428
6	COST SAVINGS/	5805
7	COST OF ILLNESS/	9550
8	COST SHARING/	1306
9	HEALTH CARE COSTS/	15679
10	DIRECT SERVICE COSTS/	815
11	DRUG COSTS/	8200
12	EMPLOYER HEALTH COSTS/	974
13	HOSPITAL COSTS/	5339
14	HEALTH RESOURCES/	5984
15	"HEALTH SERVICES NEEDS AND DEMAND"/	27043
16	HEALTH PRIORITIES/	6395
17	HEALTH EXPENDITURES/	9640
18	CAPITAL EXPENDITURES/	1805
19	FINANCIAL MANAGEMENT/	14212
20	FINANCIAL MANAGEMENT, HOSPITAL/	6726
21	QUALITY-ADJUSTED LIFE YEARS/	3063
22	"DEDUCTIBLES AND COINSURANCE"/	1137
23	MEDICAL SAVINGS ACCOUNTS/	361
24	ECONOMICS, HOSPITAL/	8318
25	ECONOMICS, MEDICAL/	6865
26	ECONOMICS, NURSING/	3747
27	ECONOMICS, PHARMACEUTICAL/	1823
28	MODELS, ECONOMIC/	2886
29	MODELS, ECONOMETRIC/	2528
30	RESOURCE ALLOCATION/	5752
31	HEALTH CARE RATIONING/	8686
32	"FEES AND CHARGES"/	7222
33	BUDGETS/	7935
34	VALUE OF LIFE/	4893
35	(financ\$ or fiscal\$ or funding).tw.	50631
36	(QALY\$ or life?year\$).tw.	1775
37	(econom\$ or cost\$).tw.	263397

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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38 pharmaco-economic\$.tw.	1777
39 ec.fs.	232078
40 or/1-39	533164
41 exp INFANT/	747380
42 infan\$.tw.	236422
43 ((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	22583
44 ((postmature\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	65
45 neonat\$.tw.	135615
46 newborn\$.tw.	94494
47 infan\$.tw.	236422
48 (small adj2 gestational age).tw.	3290
49 (low adj birth adj weight).tw.	11751
50 (low adj birth?weight).tw.	4238
51 lbw.tw.	1266
52 vlbw.tw.	1445
53 (baby or babies).tw.	35149
54 CHILD, PRESCHOOL/	586463
55 toddler\$.tw.	3019
56 (child adj3 (preschool or pre?school)).tw.	526
57 or/41-55	1159320
58 DEHYDRATION/	8163
59 dehydrat\$.tw.	20112
60 HYPERNATREMIA/	1688
61 (hypernatremi\$ or hypernatraemi\$ or hypernatremi\$).tw.	1302
62 or/58-61	26021
63 GASTROENTERITIS/	8930
64 gastroenteritis.tw.	8632
65 or/63-64	12633
66 and/57,62,65	512
67 FLUID THERAPY/	10347
68 (fluid adj5 therap\$).tw.	2942
69 rehydrati\$.tw.	4020
70 ort\$.tw.	122809
71 or/67-70	137436
72 INFUSIONS, INTRAVENOUS/	37524
73 HOME INFUSION THERAPY/	480
74 (intravenous or IV or parenteral or infusion\$).tw.	495635
75 or/72-74	503680
76 and/71,75	7536
77 and/66,76	65
78 animal/ not (human/ or (human/ and animal/))	3181772
79 77 not 78	65
80 40 and 79	5
81 from 80 keep 1-5	5

**DNV\_oral\_vs\_iv\_economic\_embase\_240907 (EMBASE 1980 to 2007 Week 38)**

**# Search History**

**Results**

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1	ECONOMICS/	5396
2	HEALTH ECONOMICS/	9507
3	ECONOMIC EVALUATION/	3807
4	COST BENEFIT ANALYSIS/	27082
5	COST CONTROL/	15655
6	COST EFFECTIVENESS ANALYSIS/	50800
7	COST MINIMIZATION ANALYSIS/	1216
8	COST OF ILLNESS/	4105
9	COST UTILITY ANALYSIS/	2046
10	COST/	19453
11	HEALTH CARE COST/	54885
12	DRUG COST/	30875
13	HEALTH CARE FINANCING/	8777
14	HOSPITAL COST/	5900
15	SOCIOECONOMICS/	27749
16	ECONOMIC ASPECT/	68219
17	QUALITY-ADJUSTED LIFE YEARS/	3225
18	FINANCIAL MANAGEMENT/	21217
19	PHARMACOECONOMICS/	894
20	RESOURCE ALLOCATION/	6889
21	(financ\$ or fiscal\$ or funding).tw.	35920
22	(QALY\$ or life?year\$).tw.	1723
23	(econom\$ or cost\$).tw.	214662
24	pharmacoeconomic\$.tw.	2408
25	or/1-24	384029
26	PREMATURITY/	26815
27	((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	16520
28	POSTMATURITY/	181
29	((postmature\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	28
30	NEWBORN/	170468
31	neonat\$.tw.	110371
32	newborn\$.tw.	60304
33	exp INFANT/	162045
34	infan\$.tw.	160167
35	SMALL FOR DATE INFANT/	2354
36	(small adj2 gestational age).tw.	3047
37	LOW BIRTH WEIGHT/	10478
38	VERY LOW BIRTH WEIGHT/	3969
39	(low adj birth adj weight).tw.	9512
40	(low adj birth?weight).tw.	3441
41	lbw.tw.	977
42	vlbw.tw.	1271
43	(baby or babies).tw.	25527
44	PRESCHOOL CHILD/	98140
45	(child adj3 (preschool or pre?school)).tw.	238
46	toddler\$.tw.	2307
47	or/26-45	494253
48	GASTROENTERITIS/	6255

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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49 gastroenteritis.tw.	5960
50 or/48-49	8992
51 DEHYDRATION/	10464
52 dehydrati\$.tw.	10970
53 HYPERNATREMIA/	1602
54 (hypernatremi\$ or hypernatraemi\$ or hypernatrimi\$).tw.	951
55 or/51-54	17610
56 ORAL REHYDRATION THERAPY/	997
57 rehydrati\$.tw.	3132
58 (fluid adj5 therap\$).tw.	2126
59 ort.tw.	292
60 or/56-59	5836
61 INTRAVENOUS ADMINISTRATION/	1469
62 INFUSION/	5059
63 (intravenous or IV or parenteral or infusion\$).tw.	419783
64 or/61-63	421492
65 and/60,64	1158
66 and/50,55	534
67 and/65-66	55
68 (animal/ or nonhuman/) not (human/ or ((animal/ or nonhuman/) and human/))	2512580
69 67 not 68	55
70 25 and 69	9
71 from 70 keep 1-9	9

### **DNV\_oral\_vs\_iv\_economic\_cdsrdare\_240907 (CDSR (coch), DARE)**

<b># Search History</b>	<b>Results</b>
1 ECONOMICS.kw.	314
2 "COSTS AND COST ANALYSIS".kw.	24
3 COST ALLOCATION.kw.	0
4 COST-BENEFIT ANALYSIS.kw.	224
5 COST CONTROL.kw.	4
6 COST SAVINGS.kw.	5
7 COST OF ILLNESS.kw.	16
8 COST SHARING.kw.	1
9 HEALTH CARE COSTS.kw.	24
10 DIRECT SERVICE COSTS.kw.	1
11 DRUG COSTS.kw.	21
12 EMPLOYER HEALTH COSTS.kw.	0
13 HOSPITAL COSTS.kw.	9
14 HEALTH RESOURCES.kw.	3
15 "HEALTH SERVICES NEEDS AND DEMAND".kw.	17
16 HEALTH PRIORITIES.kw.	3
17 HEALTH EXPENDITURES.kw.	3
18 CAPITAL EXPENDITURES.kw.	0
19 FINANCIAL MANAGEMENT.kw.	0
20 FINANCIAL MANAGEMENT, HOSPITAL.kw.	0
21 QUALITY-ADJUSTED LIFE YEARS.kw.	34

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22 "DEDUCTIBLES AND COINSURANCE".kw.	0
23 MEDICAL SAVINGS ACCOUNTS.kw.	0
24 ECONOMICS, HOSPITAL.kw.	0
25 ECONOMICS, MEDICAL.kw.	0
26 ECONOMICS, NURSING.kw.	1
27 ECONOMICS, PHARMACEUTICAL.kw.	5
28 MODELS, ECONOMIC.kw.	6
29 MODELS, ECONOMETRIC.kw.	6
30 RESOURCE ALLOCATION.kw.	1
31 HEALTH CARE RATIONING.kw.	4
32 "FEES AND CHARGES".kw.	1
33 BUDGETS.kw.	0
34 VALUE OF LIFE.kw.	1
35 (financ\$ or fiscal\$ or funding).ti.	7
36 (QALY\$ or life?year\$).ti.	0
37 (econom\$ or cost\$).ti.	173
38 pharmaco-economic\$.ti.	1
39 or/1-38	428
40 Child.kw.	907
41 Preschool Child.kw.	0
42 child\$.tw.	3339
43 Infant.kw.	684
44 Newborn Infant.kw.	6
45 infan\$.tw.	1326
46 newborn\$.tw.	738
47 neonat\$.tw.	948
48 Very Low Birth Weight Infant.kw.	0
49 Low Birth Weight Infant.kw.	0
50 (low adj birth adj weight).tw.	249
51 lbw.tw.	60
52 vlbw.tw.	29
53 Small for Gestational Age Infant.kw.	0
54 (small adj5 gestational age).tw.	104
55 (large adj5 gestational age).tw.	12
56 Premature Infant.kw.	0
57 ((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	355
58 Postmature Infant.kw.	0
59 ((postmatur\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	0
60 (baby or babies).tw.	711
61 or/40-60	3692
62 GASTROENTERITIS.kw.	7
63 gastroenteritis.tw.	38
64 HYPERNATREMIA.kw.	0
65 (hypernatremi\$ or hypernatremia\$ or hypernatremi\$).tw.	4
66 or/62-65	40
67 and/61,66	34
68 FLUID THERAPY.kw.	39
69 (fluid adj5 therap\$).tw.	108

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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70 rehydrati\$.tw.	44
71 ort.tw.	8
72 or/68-71	137
73 INFUSIONS, INTRAVENOUS.kw.	55
74 HOME INFUSION THERAPY.kw.	0
75 (intravenous or IV or parenteral or infusion\$.tw.	2488
76 or/73-75	2488
77 and/72,76	94
78 and/67,77	13
79 remove duplicates from 78	13
80 39 and 79	0



*Clinical question*

Is oral rehydration therapy in children under five with dehydration due to gastroenteritis more effective and safer than IV in children with severe or hypernatremic dehydration?

**DNV\_oral\_vs\_iv\_severe\_hypernat\_medline\_221007 (Ovid MEDLINE 1950 to October Week 2 2007)**

# Search History	Results
1 infan\$.tw.	238292
2 neonat\$.tw.	136733
3 newborn\$.tw.	95022
4 (small adj2 gestational age).tw.	3332
5 (low adj birth adj weight).tw.	11814
6 (low adj birth?weight).tw.	4340
7 lbw.tw.	1274
8 vlbw.tw.	1474
9 (baby or babies).tw.	35478
10 toddler\$.tw.	3048
11 (child adj3 (preschool or pre?school)).tw.	529
12 INFANT/	506772
13 INFANT, NEWBORN/	399746
14 CHILD, PRESCHOOL/	590118
15 (pediatri\$ or paediatri\$).ti,ab.	126848
16 or/1-15	1219694
17 (dehydrat\$ adj3 (severe\$ or serious\$ or pronounced or critical\$ or grave\$)).ti,ab.	983
18 WATER-ELECTROLYTE IMBALANCE/	3365
19 HYPERNATREMIA/	1702
20 hypernatr\$.ti,ab.	1703
21 dysnatr\$.ti,ab.	34
22 or/17-21	6522
23 GASTROENTERITIS/	9002
24 gastroenterit\$.ti,ab.	8757
25 diarrh?ea?.ti,ab.	52049
26 or/23-25	62394
27 FLUID THERAPY/	10417
28 INFUSIONS, INTRAVENOUS/	37773
29 INFUSIONS, PARENTERAL/	24089
30 HOME INFUSION THERAPY/	483
31 REHYDRATION SOLUTIONS/	943
32 (fluid? adj5 therap\$).ti,ab.	3176
33 rehydrat\$.ti,ab.	4656
34 ORT.ti,ab.	454
35 (IV or intravenous\$).ti,ab.	394109
36 (parenteral\$ or infusion?).ti,ab.	195536
37 or/27-36	557492
38 letter.pt.	608008
39 editorial.pt.	210978
40 comment.pt.	344306
41 historical article.pt.	246228

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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42 or/38-41	1106126
43 and/16,22,26,37	241
44 43 not 42	234
45 limit 44 to humans	227
46 limit 45 to english language	190

### **DNV\_oral\_vs\_iv\_severe\_hyponat\_embase\_221007 (EMBASE 1980 to 2007 Week 42)**

<b># Search History</b>	<b>Results</b>
1 NEWBORN/	171036
2 neonat\$.tw.	110945
3 newborn\$.tw.	60567
4 exp INFANT/	162785
5 infan\$.tw.	160892
6 SMALL FOR DATE INFANT/	2384
7 (small adj2 gestational age).tw.	3072
8 LOW BIRTH WEIGHT/	10547
9 VERY LOW BIRTH WEIGHT/	3999
10 (low adj birth adj weight).tw.	9575
11 (low adj birth?weight).tw.	3456
12 lbw.tw.	981
13 vlbw.tw.	1287
14 (baby or babies).tw.	25662
15 PRESCHOOL CHILD/	98585
16 (child adj3 (preschool or pre?school)).tw.	239
17 toddler\$.tw.	2334
18 (pediatri\$ or paediatri\$).ti,ab.	106412
19 or/1-18	562737
20 GASTROENTERITIS/	6299
21 ACUTE GASTROENTERITIS/	984
22 INFANTILE GASTROENTERITIS/	152
23 VIRAL GASTROENTERITIS/	146
24 gastroenterit\$.ti,ab.	6035
25 diarrh?ea?.ti,ab.	39702
26 or/20-25	47106
27 (dehydrat\$ adj3 (severe\$ or serious\$ or pronounced or critical\$ or grave\$)).ti,ab.	690
28 hypernatr\$.ti,ab.	1241
29 dysnatr\$.ti,ab.	34
30 HYPERNATREMIA/	1614
31 ELECTROLYTE DISTURBANCE/	3321
32 or/27-31	5727
33 FLUID THERAPY/	5657
34 INFUSION/	5074
35 INFUSION FLUID/	3604
36 ORAL REHYDRATION SOLUTION/	1359
37 ORAL REHYDRATION THERAPY/	1003
38 REHYDRATION/	2430
39 (fluid? adj5 therap\$).ti,ab.	2316

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40	ORT.ti,ab.	294
41	(IV or intravenous\$.ti,ab.	332747
42	(parenteral\$ or infusion?).ti,ab.	167071
43	INTRAVENOUS DRUG ADMINISTRATION/	269618
44	or/33-43	617272
45	letter.sh,tw.	383869
46	note.tw,sh.	238071
47	editorial.tw,sh.	239866
48	abstract report.tw,sh.	71202
49	or/45-48	925521
50	and/19,26,32,44	142
51	50 not 49	139
52	limit 51 to human	130
53	limit 52 to english language	118

### DNV\_oral\_vs\_iv\_severe\_hypernat\_cinahl\_221007 (CINAHL 1982 to October Week 2 2007)

#	Search History	Results
1	infan\$.tw.	21503
2	neonat\$.tw.	10747
3	newborn\$.tw.	5354
4	(small adj2 gestational age).tw.	315
5	(low adj birth adj weight).tw.	1821
6	(low adj birth?weight).tw.	690
7	lbw.tw.	227
8	vlbw.tw.	276
9	(baby or babies).tw.	7781
10	toddler\$.tw.	1318
11	(child adj3 (preschool or pre?school)).tw.	93
12	INFANT/	41757
13	INFANT, NEWBORN/	32381
14	CHILD, PRESCHOOL/	46730
15	(pediatri\$ or paediatri\$).ti,ab.	21577
16	or/1-15	105302
17	(dehydrat\$ adj3 (severe\$ or serious\$ or pronounced or critical\$ or grave\$)).ti,ab.	48
18	FLUID-ELECTROLYTE IMBALANCE/	555
19	HYPERNATREMIA/	136
20	hypernatr\$.ti,ab.	90
21	dysnatr\$.ti,ab.	3
22	or/17-21	724
23	GASTROENTERITIS/	545
24	gastroenterit\$.ti,ab.	467
25	diarrh?ea?.ti,ab.	2339
26	or/23-25	2915
27	FLUID THERAPY/	1164
28	INFUSIONS, INTRAVENOUS/	1452
29	INFUSIONS, PARENTERAL/	140
30	HOME INTRAVENOUS THERAPY/	865

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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31 REHYDRATION SOLUTIONS/	95
32 (fluid? adj5 therap\$.ti,ab.	209
33 rehydrat\$.ti,ab.	317
34 ORT.ti,ab.	55
35 (IV or intravenous\$.ti,ab.	12555
36 (parenteral\$ or infusion?).ti,ab.	7081
37 or/27-36	20254
38 and/16,22,26,37	15
39 limit 38 to english	15

*Clinical question*

What strategies are effective in preventing dehydration in children with gastroenteritis?

- (a) Does oral fluid supplementation prevent dehydration?
- (b) Which oral fluid is most effective in preventing dehydration?
- (c) What oral fluid supplementation regime should be used?
- (d) What factors should be taken into consideration when giving oral fluid supplementation?

**DNV\_oral\_fluid\_prevent\_medline\_251007 (Ovid MEDLINE 1950 to October Week 3 2007)**

#	Search History	Results
1	infan\$.tw.	238490
2	neonat\$.tw.	136910
3	newborn\$.tw.	95112
4	(small adj2 gestational age).tw.	3344
5	(low adj birth adj weight).tw.	11836
6	(low adj birth?weight).tw.	4341
7	lbw.tw.	1275
8	vlbw.tw.	1475
9	(baby or babies).tw.	35551
10	toddler\$.tw.	3052
11	(child adj3 (preschool or pre?school)).tw.	529
12	INFANT/	507141
13	INFANT, NEWBORN/	400049
14	CHILD, PRESCHOOL/	590617
15	(pediatri\$ or paediatri\$).tw.	127060
16	or/1-15	1220720
17	GASTROENTERITIS/	9015
18	gastroenterit\$.tw.	8771
19	diarrh?ea?.tw.	52099
20	DIARRHEA/	30993
21	or/17-20	72793
22	FLUID THERAPY/	10430
23	INFUSIONS, PARENTERAL/	24089
24	HOME INFUSION THERAPY/	484
25	REHYDRATION SOLUTIONS/	945
26	exp BEVERAGES/	69964
27	exp FEEDING METHODS/	32659
28	((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	5984
29	DRINKING BEHAVIOR/	5062
30	(fluid? adj5 (supplement\$ or therap\$)).tw.	3757
31	rehydrat\$.tw.	4660
32	ORT.tw.	455
33	dioralyte.tw.	10
34	(beverage? or drink\$ or soda? or tea?).ti,ab.	128144
35	PARENTERAL NUTRITION, HOME/	646
36	(parenteral\$ or infusion?).tw.	195676
37	or/22-36	427657
38	DEHYDRATION/	8218
39	dehydrat\$.tw.	20274

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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40 HYPERNATREMIA/	1703
41 hypernatr??emi\$.tw.	1669
42 or/38-41	26309
43 and/16,21,37,42	895
44 prevent\$.ab.	482604
45 prevent\$.hw.	41726
46 prevent\$.ti.	148523
47 pc.fs.	705139
48 or/44-47	1114020
49 and/43,48	179
50 limit 49 to humans	175
51 limit 50 to english language	134

### DNV\_oral\_fluid\_prevent\_embase\_251007 (EMBASE 1980 to 2007 Week 42)

# Search History	Results
1 NEWBORN/	171036
2 neonat\$.tw.	110945
3 newborn\$.tw.	60567
4 exp INFANT/	162785
5 infan\$.tw.	160892
6 SMALL FOR DATE INFANT/	2384
7 (small adj2 gestational age).tw.	3072
8 LOW BIRTH WEIGHT/	10547
9 VERY LOW BIRTH WEIGHT/	3999
10 (low adj birth adj weight).tw.	9575
11 (low adj birth?weight).tw.	3456
12 lbw.tw.	981
13 vlbw.tw.	1287
14 (baby or babies).tw.	25662
15 PRESCHOOL CHILD/	98585
16 (child adj3 (preschool or pre?school)).tw.	239
17 toddler\$.tw.	2334
18 (pediatri\$ or paediatri\$).tw.	106461
19 or/1-18	562764
20 GASTROENTERITIS/	6299
21 ACUTE GASTROENTERITIS/	984
22 INFANTILE GASTROENTERITIS/	152
23 VIRAL GASTROENTERITIS/	146
24 gastroenterit\$.tw.	6035
25 diarrh?ea?.tw.	39702
26 or/20-25	47106
27 dehydrat\$.tw.	15216
28 DEHYDRATION/	10566
29 hypernatr\$.tw.	1241
30 dysnatr\$.tw.	34
31 HYPERNATREMIA/	1614
32 ELECTROLYTE DISTURBANCE/	3321

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33 or/27-32	24288
34 FLUID THERAPY/	5657
35 INFUSION/	5074
36 INFUSION FLUID/	3604
37 ORAL REHYDRATION SOLUTION/	1359
38 ORAL REHYDRATION THERAPY/	1003
39 REHYDRATION/	2430
40 (fluid? adj5 therap\$).tw.	2316
41 ORT.tw.	294
42 rehydrat\$.tw.	3580
43 (beverage? or drink\$ or soda? or tea?).tw.	103801
44 dioralyte.tw.	32
45 (parenteral\$ or infusion?).tw.	167084
46 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	4232
47 exp BEVERAGE/	46621
48 exp FOOD INTAKE/	86057
49 exp FEEDING BEHAVIOR/	32319
50 or/34-49	393317
51 and/19,26,33,50	534
52 prevent\$.ab.	425033
53 prevent\$.hw.	156222
54 prevent\$.ti.	91689
55 pc.fs.	350309
56 or/52-55	790392
57 and/51,56	105
58 limit 57 to human	95
59 limit 58 to english language	76

### DNV\_oral\_fluid\_prevent\_cinahl\_261007 (CINAHL 1982 to October Week 3 2007)

# Search History	Results
1 infan\$.tw.	21545
2 neonat\$.tw.	10769
3 newborn\$.tw.	5364
4 (small adj2 gestational age).tw.	315
5 (low adj birth adj weight).tw.	1822
6 (low adj birth?weight).tw.	690
7 lbw.tw.	227
8 vlbw.tw.	276
9 (baby or babies).tw.	7799
10 toddler\$.tw.	1320
11 (child adj3 (preschool or pre?school)).tw.	93
12 INFANT/	41835
13 INFANT, NEWBORN/	32425
14 CHILD, PRESCHOOL/	46820
15 (pediatri\$ or paediatri\$).tw.	21880
16 or/1-15	105659
17 dehydrat\$.tw.	888

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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18 FLUID-ELECTROLYTE IMBALANCE/	556
19 HYPERNATREMIA/	136
20 hypernatr\$.tw.	90
21 dysnatr\$.tw.	3
22 DEHYDRATION/	1087
23 or/17-22	2143
24 GASTROENTERITIS/	545
25 gastroenterit\$.tw.	468
26 diarrh?ea?.tw.	2342
27 DIARRHEA/	2119
28 or/24-27	3830
29 FLUID THERAPY/	1165
30 INFUSIONS, PARENTERAL/	140
31 HOME INTRAVENOUS THERAPY/	867
32 REHYDRATION SOLUTIONS/	95
33 (fluid? adj5 therap\$.tw.	209
34 rehydrat\$.tw.	317
35 ORT.tw.	55
36 (parenteral\$ or infusion?).tw.	7108
37 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	1468
38 exp FEEDING METHODS/	12178
39 exp BEVERAGES/	5537
40 DRINKING BEHAVIOR/	291
41 dioralyte.tw.	1
42 (beverage? or drink\$ or soda? or tea?).ti,ab.	22973
43 exp PARENTERAL NUTRITION/	1944
44 or/29-43	46570
45 and/16,23,28,44	86
46 pc.fs.	130087
47 prevent\$.tw.	61530
48 prevent\$.hw.	9056
49 or/46-48	165283
50 and/45,49	21
51 limit 50 to english	19



*Clinical question*

Is oral rehydration therapy in children under five with dehydration due to gastroenteritis more cost effective than IV in children with hyponatremic dehydration?

**DNV\_oral\_vs\_iv\_hyponat\_economics\_medline\_301007 (Ovid MEDLINE 1950 to October Week 3 2007)**

#	Search History	Results
1	ECONOMICS/	25190
2	"COSTS AND COST ANALYSIS"/	36212
3	COST ALLOCATION/	1827
4	COST-BENEFIT ANALYSIS/	41443
5	COST CONTROL/	17468
6	COST SAVINGS/	5831
7	COST OF ILLNESS/	9731
8	COST SHARING/	1315
9	HEALTH CARE COSTS/	15848
10	DIRECT SERVICE COSTS/	823
11	DRUG COSTS/	8308
12	EMPLOYER HEALTH COSTS/	977
13	HOSPITAL COSTS/	5376
14	HEALTH RESOURCES/	6027
15	"HEALTH SERVICES NEEDS AND DEMAND"/	27430
16	HEALTH PRIORITIES/	6458
17	HEALTH EXPENDITURES/	9693
18	CAPITAL EXPENDITURES/	1807
19	FINANCIAL MANAGEMENT/	14241
20	FINANCIAL MANAGEMENT, HOSPITAL/	6747
21	QUALITY-ADJUSTED LIFE YEARS/	3118
22	"DEDUCTIBLES AND COINSURANCE"/	1142
23	MEDICAL SAVINGS ACCOUNTS/	366
24	ECONOMICS, HOSPITAL/	8332
25	ECONOMICS, MEDICAL/	6913
26	ECONOMICS, NURSING/	3750
27	ECONOMICS, PHARMACEUTICAL/	1848
28	MODELS, ECONOMIC/	2913
29	MODELS, ECONOMETRIC/	2567
30	RESOURCE ALLOCATION/	5779
31	HEALTH CARE RATIONING/	8734
32	"FEES AND CHARGES"/	7251
33	BUDGETS/	7974
34	VALUE OF LIFE/	4903
35	(financ\$ or fiscal\$ or funding).tw.	51143
36	(QALY\$ or life?year\$).tw.	1822
37	(econom\$ or cost\$).tw.	265995
38	pharmacoeconomic\$.tw.	1800
39	ec.fs.	233874
40	or/1-39	537689
41	infan\$.tw.	238490

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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42 neonat\$.tw.	136910
43 newborn\$.tw.	95112
44 (small adj2 gestational age).tw.	3344
45 (low adj birth adj weight).tw.	11836
46 (low adj birth?weight).tw.	4341
47 lbw.tw.	1275
48 vlbw.tw.	1475
49 (baby or babies).tw.	35551
50 toddler\$.tw.	3052
51 (child adj3 (preschool or pre?school)).tw.	529
52 INFANT/	507141
53 INFANT, NEWBORN/	400049
54 CHILD, PRESCHOOL/	590617
55 (pediatri\$ or paediatric\$.tw.	127060
56 or/41-55	1220720
57 WATER-ELECTROLYTE IMBALANCE/	3368
58 HYPERNATREMIA/	1703
59 hypernatr\$.tw.	1704
60 dysnatr\$.tw.	34
61 or/57-60	5645
62 GASTROENTERITIS/	9015
63 gastroenterit\$.tw.	8771
64 diarrh?ea?.tw.	52099
65 or/62-64	62458
66 FLUID THERAPY/	10430
67 INFUSIONS, INTRAVENOUS/	37807
68 INFUSIONS, PARENTERAL/	24089
69 HOME INFUSION THERAPY/	484
70 REHYDRATION SOLUTIONS/	945
71 (fluid? adj5 therap\$.tw.	3183
72 rehydrat\$.tw.	4660
73 ORT.tw.	455
74 (IV or intravenous\$.tw.	394460
75 (parenteral\$ or infusion?).tw.	195676
76 or/66-75	557970
77 and/56,61,65,76	134
78 and/40,77	4
79 limit 78 to english language	3

### **DNV\_oral\_vs\_iv\_hypercentronics\_embase\_301007 (EMBASE 1980 to 2007 Week 43)**

#	Search History	Results
1	ECONOMICS/	5415
2	HEALTH ECONOMICS/	9591
3	ECONOMIC EVALUATION/	3848
4	COST BENEFIT ANALYSIS/	27292
5	COST CONTROL/	15785
6	COST EFFECTIVENESS ANALYSIS/	51340

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7	COST MINIMIZATION ANALYSIS/	1236
8	COST OF ILLNESS/	4177
9	COST UTILITY ANALYSIS/	2083
10	COST/	19531
11	HEALTH CARE COST/	55450
12	DRUG COST/	31205
13	HEALTH CARE FINANCING/	8823
14	HOSPITAL COST/	5948
15	SOCIOECONOMICS/	28075
16	ECONOMIC ASPECT/	68420
17	QUALITY-ADJUSTED LIFE YEARS/	3294
18	FINANCIAL MANAGEMENT/	21412
19	PHARMACOECONOMICS/	896
20	RESOURCE ALLOCATION/	6943
21	(financ\$ or fiscal\$ or funding).tw.	36199
22	(QALY\$ or life?year\$).tw.	1776
23	(econom\$ or cost\$).tw.	216424
24	pharmacoeconomic\$.tw.	2437
25	or/1-24	387087
26	NEWBORN/	171136
27	neonat\$.tw.	111072
28	newborn\$.tw.	60611
29	exp INFANT/	162912
30	infan\$.tw.	161062
31	SMALL FOR DATE INFANT/	2387
32	(small adj2 gestational age).tw.	3077
33	LOW BIRTH WEIGHT/	10568
34	VERY LOW BIRTH WEIGHT/	4010
35	(low adj birth adj weight).tw.	9598
36	(low adj birth?weight).tw.	3458
37	lbw.tw.	983
38	vlbw.tw.	1291
39	(baby or babies).tw.	25684
40	PRESCHOOL CHILD/	98676
41	(child adj3 (preschool or pre?school)).tw.	239
42	toddler\$.tw.	2338
43	(pediatri\$ or paediatri\$).tw.	106719
44	or/26-43	563374
45	GASTROENTERITIS/	6308
46	ACUTE GASTROENTERITIS/	989
47	INFANTILE GASTROENTERITIS/	152
48	VIRAL GASTROENTERITIS/	148
49	gastroenterit\$.tw.	6050
50	diarrh?ea?.tw.	39744
51	or/45-50	47166
52	hypernatr\$.tw.	1243
53	dysnatr\$.tw.	34
54	HYPERNATREMIA/	1617

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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55 ELECTROLYTE DISTURBANCE/	3326
56 or/52-55	5131
57 FLUID THERAPY/	5668
58 INFUSION/	5079
59 INFUSION FLUID/	3609
60 ORAL REHYDRATION SOLUTION/	1360
61 ORAL REHYDRATION THERAPY/	1007
62 REHYDRATION/	2433
63 (fluid? adj5 therap\$).tw.	2319
64 ORT.tw.	294
65 (IV or intravenous\$).tw.	333132
66 (parenteral\$ or infusion?).tw.	167211
67 INTRAVENOUS DRUG ADMINISTRATION/	269618
68 or/57-67	617761
69 and/44,51,56,68	87
70 and/25,69	8
71 limit 70 to english language	7

### DNV\_oral\_vs\_iv\_hyernat\_economics\_eed\_301007

	Search	Matching records
# 1	MESH Hybernatriemia	1
# 2	Hybernatri*	4
# 3	dysnatri*	0
# 4	MESH Gastroenteritis	31
# 5	Gastroenteritis	45
# 6	MESH Diarrhea	92
# 7	Diarrhea* OR diarrhoea*	349
# 8	#1 or #2	4
# 9	#4 or #5 or #6 or #7	379
# 10	#8 and #9	2

---

*Clinical question*

What is the effectiveness and safety of oral rehydration therapy compared with IV therapy for the treatment of dehydration in the following:

- (a) children with mild dehydration?
- (b) children with moderate dehydration?
- (c) children with severe dehydration?
- (d) children with hypernatremic dehydration?

**DNV\_oral\_vs\_IV\_medline\_290507 (Ovid MEDLINE(R) 1950 to September Week 3 2007)**

#	Search History	Results
1	exp INFANT/	747943
2	infan\$.tw.	236631
3	((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	22601
4	((postmature\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	65
5	neonat\$.tw.	135769
6	newborn\$.tw.	94564
7	infan\$.tw.	236631
8	(small adj2 gestational age).tw.	3301
9	(low adj birth adj weight).tw.	11768
10	(low adj birth?weight).tw.	4243
11	lbw.tw.	1269
12	vlbw.tw.	1446
13	(baby or babies).tw.	35189
14	CHILD, PRESCHOOL/	586964
15	toddler\$.tw.	3025
16	(child adj3 (preschool or pre?school)).tw.	526
17	or/1-15	1160264
18	DEHYDRATION/	8172
19	dehydrat\$.tw.	20133
20	HYPERNATREMIA/	1690
21	(hypernatremi\$ or hypernatraemi\$ or hypernatrimi\$).tw.	1303
22	or/18-21	26047
23	GASTROENTERITIS/	8942
24	gastroenteritis.tw.	8645
25	or/23-24	12648
26	and/17,22,25	512
27	FLUID THERAPY/	10359
28	(fluid adj5 therap\$).tw.	2944
29	rehydrati\$.tw.	4024
30	ort\$.tw.	123005
31	or/27-30	137647
32	INFUSIONS, INTRAVENOUS/	37564
33	HOME INFUSION THERAPY/	480
34	(intravenous or IV or parenteral or infusion\$).tw.	496126
35	or/32-34	504182
36	and/31,35	7550
37	and/26,36	65
38	animal/ not (human/ or (human/ and animal/))	3184360

**DNV\_oral\_vs\_IV\_embase\_290507 (EMBASE 1980 to 2008 Week 39)**

# Searches	Results
1 PREMATURITY/	28879
2 ((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	17590
3 POSTMATURITY/	185
4 ((postmature\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	29
5 NEWBORN/	176926
6 neonat\$.tw.	116655
7 newborn\$.tw.	63468
8 exp INFANT/	170747
9 infan\$.tw.	168844
10 SMALL FOR DATE INFANT/	2675
11 (small adj2 gestational age).tw.	3330
12 LOW BIRTH WEIGHT/	11314
13 VERY LOW BIRTH WEIGHT/	4230
14 (low adj birth adj weight).tw.	10216
15 (low adj birth?weight).tw.	3614
16 lbw.tw.	1066
17 vlbw.tw.	1368
18 (baby or babies).tw.	27149
19 PRESCHOOL CHILD/	103422
20 (child adj3 (preschool or pre?school)).tw.	253
21 toddler\$.tw.	2553
22 or/1-20	520550
23 GASTROENTERITIS/	6742
24 gastroenteritis.tw.	6446
25 or/23-24	9760
26 DEHYDRATION/	11477
27 dehydrati\$.tw.	11658
28 HYPERNATREMIA/	1759
29 (hypernatremi\$ or hypernatraemi\$ or hypernatrimi\$).tw.	1011
30 or/26-29	19083
31 ORAL REHYDRATION THERAPY/	1086
32 rehydrati\$.tw.	3283
33 (fluid adj5 therap\$).tw.	2279
34 ort.tw.	312
35 or/31-34	6220
36 INTRAVENOUS ADMINISTRATION/	1545
37 INFUSION/	5206
38 (intravenous or IV or parenteral or infusion\$).tw.	439803
39 or/36-38	441572
40 and/35,39	1245
41 and/25,30	595
42 and/40-41	61
43 (animal/ or nonhuman/) not (human/ or ((animal/ or nonhuman/) and human/))	2625543

44 42 not 43

61

**DNV\_oral\_vs\_IV\_cinahl\_290507 (CINAHL 1982 to September Week 4 2008)**

# Searches	Results
1 exp INFANT/	75769
2 infan\$.tw.	25601
3 ((premature\$ or preterm\$ or pre?term\$) adj (baby or babies or child\$ or infan\$)).tw.	3879
4 ((postmature\$ or postterm\$ or post?term\$) adj (baby or babies or child\$ or infan\$)).tw.	5
5 neonat\$.tw.	13078
6 newborn\$.tw.	6500
7 infan\$.tw.	25601
8 (small adj2 gestational age).tw.	432
9 (low adj birth adj weight).tw.	2225
10 (low adj birth?weight).tw.	810
11 lbw.tw.	267
12 vlbw.tw.	333
13 (baby or babies).tw.	9001
14 PRESCHOOL CHILD/	56763
15 (child adj3 (preschool or pre?school)).tw.	110
16 toddler\$.tw.	1558
17 or/1-16	114387
18 exp GASTROENTERITIS/	4864
19 gastroenteritis.tw.	569
20 or/18-19	5047
21 DEHYDRATION/	1267
22 dehydrat\$.tw.	1070
23 HYPONATREMIA/	631
24 (hypernatremi\$ or hypernatraemi\$ or hypernatrimi\$).tw.	94
25 or/21-24	2459
26 and/17,20,25	86
27 ORAL REHYDRATION THERAPY/	188
28 rehydrati\$.tw.	356
29 (fluid adj5 therap\$).tw.	234
30 ort.tw.	65
31 or/27-30	704
32 ADMINISTRATION, INTRAVENOUS/	2081
33 INFUSIONS, INTRAVENOUS/	2354
34 HOME INTRAVENOUS THERAPY/	946
35 (intravenous or IV or parenteral or infusion\$).tw.	23837
36 or/32,35	24834
37 and/31,36	169
38 and/26,37	16
39 animal/ not (human/ or (human/ and animal/))	11245
40 38 not 39	16

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

What strategies are cost effective in preventing dehydration in children with gastroenteritis?

(a) Which oral fluid is most cost effective in preventing dehydration?

(b) What oral fluid supplementation regime should be used?

(c) What factors should be taken into consideration when giving oral fluid supplementation?

### **DNV\_oral\_fluid\_prevent\_economics\_medline\_311007 (Ovid MEDLINE 1950 to October Week 3 2007)**

<b># Search History</b>	<b>Results</b>
1 ECONOMICS/	25190
2 "COSTS AND COST ANALYSIS"/	36212
3 COST ALLOCATION/	1827
4 COST-BENEFIT ANALYSIS/	41443
5 COST CONTROL/	17468
6 COST SAVINGS/	5831
7 COST OF ILLNESS/	9731
8 COST SHARING/	1315
9 HEALTH CARE COSTS/	15848
10 DIRECT SERVICE COSTS/	823
11 DRUG COSTS/	8308
12 EMPLOYER HEALTH COSTS/	977
13 HOSPITAL COSTS/	5376
14 HEALTH RESOURCES/	6027
15 "HEALTH SERVICES NEEDS AND DEMAND"/	27430
16 HEALTH PRIORITIES/	6458
17 HEALTH EXPENDITURES/	9693
18 CAPITAL EXPENDITURES/	1807
19 FINANCIAL MANAGEMENT/	14241
20 FINANCIAL MANAGEMENT, HOSPITAL/	6747
21 QUALITY-ADJUSTED LIFE YEARS/	3118
22 "DEDUCTIBLES AND COINSURANCE"/	1142
23 MEDICAL SAVINGS ACCOUNTS/	366
24 ECONOMICS, HOSPITAL/	8332
25 ECONOMICS, MEDICAL/	6913
26 ECONOMICS, NURSING/	3750
27 ECONOMICS, PHARMACEUTICAL/	1848
28 MODELS, ECONOMIC/	2913
29 MODELS, ECONOMETRIC/	2567
30 RESOURCE ALLOCATION/	5779
31 HEALTH CARE RATIONING/	8734
32 "FEES AND CHARGES"/	7251
33 BUDGETS/	7974
34 VALUE OF LIFE/	4903
35 (financ\$ or fiscal\$ or funding).tw.	51143
36 (QALY\$ or life?year\$).tw.	1822
37 (econom\$ or cost\$).tw.	265995
38 pharmaco-economic\$.tw.	1800
39 ec.fs.	233874
40 or/1-39	537689



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41 infan\$.tw.	238490
42 neonat\$.tw.	136910
43 newborn\$.tw.	95112
44 (small adj2 gestational age).tw.	3344
45 (low adj birth adj weight).tw.	11836
46 (low adj birth?weight).tw.	4341
47 lbw.tw.	1275
48 vlbw.tw.	1475
49 (baby or babies).tw.	35551
50 toddler\$.tw.	3052
51 (child adj3 (preschool or pre?school)).tw.	529
52 INFANT/	507141
53 INFANT, NEWBORN/	400049
54 CHILD, PRESCHOOL/	590617
55 (pediatri\$ or paediatri\$).tw.	127060
56 or/41-55	1220720
57 GASTROENTERITIS/	9015
58 gastroenterit\$.tw.	8771
59 diarrh?ea?.tw.	52099
60 DIARRHEA/	30993
61 or/57-60	72793
62 FLUID THERAPY/	10430
63 INFUSIONS, PARENTERAL/	24089
64 HOME INFUSION THERAPY/	484
65 REHYDRATION SOLUTIONS/	945
66 exp BEVERAGES/	69964
67 exp FEEDING METHODS/	32659
68 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	5984
69 DRINKING BEHAVIOR/	5062
70 (fluid? adj5 (supplement\$ or therap\$)).tw.	3757
71 rehydrat\$.tw.	4660
72 ORT.tw.	455
73 dioralyte.tw.	10
74 (beverage? or drink\$ or soda? or tea?).tw.	128144
75 PARENTERAL NUTRITION, HOME/	646
76 (parenteral\$ or infusion?).tw.	195676
77 or/62-76	427657
78 DEHYDRATION/	8218
79 dehydrat\$.tw.	20274
80 HYPERNATREMIA/	1703
81 hypernatr\$.tw.	1704
82 or/78-81	26343
83 and/56,61,77,82	895
84 prevent\$.ab.	482604
85 prevent\$.hw.	41726
86 prevent\$.ti.	148523
87 pc.fs.	705139
88 or/84-87	1114020

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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89 and/83,88	179
90 and/40,89	17
91 limit 90 to english language	14

### **DNV\_oral\_fluid\_prevent\_economics\_embase\_311007 (EMBASE 1980 to 2007 Week 43)**

<b># Search History</b>	<b>Results</b>
1 ECONOMICS/	5415
2 HEALTH ECONOMICS/	9591
3 ECONOMIC EVALUATION/	3848
4 COST BENEFIT ANALYSIS/	27292
5 COST CONTROL/	15785
6 COST EFFECTIVENESS ANALYSIS/	51340
7 COST MINIMIZATION ANALYSIS/	1236
8 COST OF ILLNESS/	4177
9 COST UTILITY ANALYSIS/	2083
10 COST/	19531
11 HEALTH CARE COST/	55450
12 DRUG COST/	31205
13 HEALTH CARE FINANCING/	8823
14 HOSPITAL COST/	5948
15 SOCIOECONOMICS/	28075
16 ECONOMIC ASPECT/	68420
17 QUALITY-ADJUSTED LIFE YEARS/	3294
18 FINANCIAL MANAGEMENT/	21412
19 PHARMACOECONOMICS/	896
20 RESOURCE ALLOCATION/	6943
21 (financ\$ or fiscal\$ or funding).tw.	36199
22 (QALY\$ or life?year\$).tw.	1776
23 (econom\$ or cost\$).tw.	216424
24 pharmaco-economic\$.tw.	2437
25 or/1-24	387087
26 NEWBORN/	171136
27 neonat\$.tw.	111072
28 newborn\$.tw.	60611
29 exp INFANT/	162912
30 infan\$.tw.	161062
31 SMALL FOR DATE INFANT/	2387
32 (small adj2 gestational age).tw.	3077
33 LOW BIRTH WEIGHT/	10568
34 VERY LOW BIRTH WEIGHT/	4010
35 (low adj birth adj weight).tw.	9598
36 (low adj birth?weight).tw.	3458
37 lbw.tw.	983
38 vlbw.tw.	1291
39 (baby or babies).tw.	25684
40 PRESCHOOL CHILD/	98676
41 (child adj3 (preschool or pre?school)).tw.	239

42 toddler\$.tw.	2338
43 (pediatri\$ or paediatri\$).tw.	106719
44 or/26-43	563374
45 GASTROENTERITIS/	6308
46 ACUTE GASTROENTERITIS/	989
47 INFANTILE GASTROENTERITIS/	152
48 VIRAL GASTROENTERITIS/	148
49 gastroenterit\$.tw.	6050
50 diarrh?ea?.tw.	39744
51 or/45-50	47166
52 dehydrat\$.tw.	15229
53 DEHYDRATION/	10583
54 hypernatr\$.tw.	1243
55 dysnatr\$.tw.	34
56 HYPERNATREMIA/	1617
57 ELECTROLYTE DISTURBANCE/	3326
58 or/52-57	24318
59 FLUID THERAPY/	5668
60 INFUSION/	5079
61 INFUSION FLUID/	3609
62 ORAL REHYDRATION SOLUTION/	1360
63 ORAL REHYDRATION THERAPY/	1007
64 REHYDRATION/	2433
65 (fluid? adj5 therap\$).tw.	2319
66 ORT.tw.	294
67 rehydrat\$.tw.	3583
68 (beverage? or drink\$ or soda? or tea?).tw.	103962
69 dioralyte.tw.	32
70 (parenteral\$ or infusion?).tw.	167211
71 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	4235
72 exp BEVERAGE/	46690
73 exp FOOD INTAKE/	86209
74 exp FEEDING BEHAVIOR/	32374
75 or/59-74	393798
76 and/44,51,58,75	534
77 prevent\$.ab.	425629
78 prevent\$.hw.	156348
79 prevent\$.ti.	91818
80 pc.fs.	350877
81 or/77-80	791426
82 and/76,81	105
83 and/25,82	18
84 limit 83 to english language	16

**DNV\_oral\_fluid\_prevent\_economics\_crd\_311007 (CRD (HTA, DARE, EED))**

	<b>Search</b>	<b>Matching records</b>
# 1	MESH GASTROENTERITIS	31

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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# 2	MESH DIARRHEA	92
# 3	Gastroenteritis	45
# 4	#1 or #2 or #3	130
# 5	MESH FLUID THERAPY	43
# 6	MESH INFUSIONS, PARENTERAL	36
# 7	MESH HOME INFUSION THERAPY	24
# 8	MESH REHYDRATION SOLUTIONS	7
# 9	MESH BEVERAGES	4
# 10	MESH FEEDING METHODS	9
# 11	MESH DRINKING BEHAVIOR	1
# 12	MESH PARENTERAL NUTRITION, HOME	12
# 13	rehydrat*	43
# 14	dioralyte	0
# 15	beverage* OR drink* OR soda OR tea	224
# 16	pedialyte	2
# 17	#5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16	373
# 18	MESH DEHYDRATION	13
# 19	MESH HYPERNATREMIA	1
# 20	dehydrat*	48
# 21	hypernatr*	4
# 22	#18 or #19 or #20 or #21	50
# 23	#4 and #17	17

Note: #18 to #22 not used as too narrow.

*Clinical question*

In children treated with oral fluid what strategy should be used?

- (a) Which oral fluid is most effective in treating dehydration
- (b) When ORS is being used which composition of ORS is the most effective?
- (c) What oral fluid regime should be used?
- (d) What factors should be taken into consideration when giving oral fluid supplementation?

**DNV\_oral\_fluid\_therapy\_medline\_141107 (Ovid MEDLINE 1950 to October Week 5 2007)**

#	Search History	Results
1	randomized controlled trial.pt.	245907
2	controlled clinical trial.pt.	76816
3	DOUBLE BLIND METHOD/	94569
4	SINGLE BLIND METHOD/	11551
5	RANDOM ALLOCATION/	59648
6	RANDOMIZED CONTROLLED TRIALS/	52231
7	or/1-6	416853
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	92176
9	clinical trial.pt.	443943
10	exp CLINICAL TRIALS/	199359
11	(clinic\$ adj5 trial\$).tw,sh.	120569
12	PLACEBOS/	26903
13	placebo\$.tw,sh.	119595
14	random\$.tw,sh.	518782
15	or/8-14	870924
16	or/7,15	879501
17	META ANALYSIS/	7873
18	meta analysis.pt.	17110
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	30410
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	15215
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1804
22	or/17-21	41962
23	review\$.pt.	1337731
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psychlit or "web of science" or "science citation" or scisearch).tw.	27742
25	((hand or manual\$) adj2 search\$).tw.	3114
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	4621
27	(pooling or pooled or mantel haenszel).tw,sh.	27640
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1264
29	or/24-28	57020
30	23 and 29	23609
31	or/22,30	56331
32	CASE-CONTROL STUDIES/	92806
33	RETROSPECTIVE STUDIES/	282871
34	PROSPECTIVE STUDIES/	232587
35	COHORT STUDIES/	78878
36	(case\$ adj2 series).ti,ab.	15653
37	(case\$ adj2 control\$).ti,ab.	49139

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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38 (compar\$ adj3 stud\$.tw.	167136
39 or/32-38	801990
40 or/16,31,39	1563388
41 letter.pt.	611050
42 comment.pt.	347127
43 editorial.pt.	212740
44 historical article.pt.	248161
45 or/41-44	1113238
46 40 not 45	1514894
47 infan\$.tw.	239448
48 neonat\$.tw.	137439
49 newborn\$.tw.	95422
50 (small adj2 gestational age).tw.	3367
51 (low adj birth adj weight).tw.	11877
52 (low adj birth?weight).tw.	4358
53 lbw.tw.	1279
54 vlbw.tw.	1481
55 (baby or babies).tw.	35740
56 toddler\$.tw.	3079
57 (child adj3 (preschool or pre?school)).tw.	533
58 INFANT/	508848
59 INFANT, NEWBORN/	401564
60 CHILD, PRESCHOOL/	592383
61 (pediatri\$ or paediatric\$.tw.	127644
62 or/47-61	1225135
63 GASTROENTERITIS/	9052
64 gastroenterit\$.tw.	8814
65 diarrh?ea?.tw.	52303
66 DIARRHEA/	31086
67 or/63-66	73070
68 FLUID THERAPY/	10467
69 INFUSIONS, PARENTERAL/	24147
70 HOME INFUSION THERAPY/	485
71 REHYDRATION SOLUTIONS/	951
72 exp BEVERAGES/	70215
73 exp FEEDING METHODS/	32771
74 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	6020
75 DRINKING BEHAVIOR/	5081
76 (fluid? adj5 (supplement\$ or therap\$)).tw.	3771
77 rehydrat\$.tw.	4676
78 ORT.tw.	457
79 dioralyte.tw.	10
80 pedialyte.tw.	14
81 (beverage? or drink\$ or soda? or tea?).ti,ab.	128665
82 PARENTERAL NUTRITION, HOME/	647
83 parenteral\$.tw.	35898
84 or/68-82	263038
85 DEHYDRATION/	8248

86 dehydrat\$.tw.	20340
87 HYPERNATREMIA/	1711
88 hypernatr\$.tw.	1710
89 dysnatr\$.tw.	34
90 or/85-89	26446
91 and/62,67,84,90	889
92 and/46,91	325
93 limit 92 to humans	323
94 limit 93 to english language	285

**DNV\_oral\_fluid\_therapy\_embase\_141107 (EMBASE 1980 to 2007 Week 45)**

#	Search History	Results
1	CLINICAL TRIALS/	480231
2	(clinic\$ adj5 trial\$.ti,ab,sh.	112460
3	SINGLE BLIND PROCEDURE/	7164
4	DOUBLE BLIND PROCEDURE/	67156
5	RANDOM ALLOCATION/	24345
6	CROSSOVER PROCEDURE/	19635
7	PLACEBO/	106269
8	placebo\$.ti,ab,sh.	155547
9	random\$.ti,ab,sh.	390184
10	RANDOMIZED CONTROLLED TRIALS/	150965
11	((single or double or triple or treble) adj (blind\$ or mask\$)).ti,ab,sh.	87775
12	randomi?ed control\$ trial\$.tw.	27464
13	or/1-12	790440
14	META ANALYSIS/	32402
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$).ti,ab,sh.	39989
16	(systematic\$ adj5 (review\$ or overview\$)).ti,sh,ab.	22390
17	(methodologic\$ adj5 (review\$ or overview\$)).ti,ab,sh.	1450
18	or/14-17	54118
19	review.pt.	838128
20	(medline or medlars or embase).ab.	19493
21	(scisearch or science citation index).ab.	568
22	(psychlit or psyclit or psychinfo or psycinfo or cinahl or cochrane).ab.	6121
23	((hand or manual\$) adj2 search\$.tw.	2243
24	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$.tw.	3541
25	(pooling or pooled or mantel haenszel).tw.	22377
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	681
27	or/20-26	45705
28	19 and 27	15286
29	or/18,28	62936
30	COMPARATIVE STUDY/	100679
31	(compar\$ adj5 stud\$.tw.	168112
32	CASE-CONTROL STUDY/	16952
33	RETROSPECTIVE STUDY/	83816
34	PROSPECTIVE STUDY/	70237

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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35	COHORT STUDY/	45294
36	(case\$ adj2 series).ti,ab.	14649
37	(case\$ adj2 control\$.ti,ab.	44426
38	or/30-37	471861
39	abstract report.tw,sh.	71202
40	note.tw,sh.	239011
41	short survey.tw,sh.	397734
42	letter.tw,sh.	385485
43	editorial.tw,sh.	240936
44	or/39-43	1323505
45	or/13,29,38	1183411
46	45 not 44	1091101
47	NEWBORN/	171342
48	neonat\$.tw.	111303
49	newborn\$.tw.	60773
50	exp INFANT/	163179
51	infan\$.tw.	161362
52	SMALL FOR DATE INFANT/	2397
53	(small adj2 gestational age).tw.	3085
54	LOW BIRTH WEIGHT/	10595
55	VERY LOW BIRTH WEIGHT/	4016
56	(low adj birth adj weight).tw.	9622
57	(low adj birth?weight).tw.	3464
58	lbw.tw.	985
59	vbw.tw.	1293
60	(baby or babies).tw.	25744
61	PRESCHOOL CHILD/	98842
62	(child adj3 (preschool or pre?school)).tw.	239
63	toddler\$.tw.	2344
64	(pediatri\$ or paediatri\$.tw.	107058
65	or/47-64	564498
66	GASTROENTERITIS/	6320
67	ACUTE GASTROENTERITIS/	994
68	INFANTILE GASTROENTERITIS/	152
69	VIRAL GASTROENTERITIS/	150
70	gastroenterit\$.tw.	6065
71	diarrh?ea?.tw.	39835
72	or/66-71	47274
73	dehydrat\$.tw.	15262
74	DEHYDRATION/	10618
75	hypernatr\$.tw.	1246
76	dysnatr\$.tw.	34
77	HYPERNATREMIA/	1620
78	or/73-77	21583
79	FLUID THERAPY/	5687
80	INFUSION/	5090
81	INFUSION FLUID/	3618
82	ORAL REHYDRATION SOLUTION/	1362



83	ORAL REHYDRATION THERAPY/	1010
84	REHYDRATION/	2436
85	(fluid? adj5 therap\$).tw.	2327
86	ORT.tw.	295
87	rehydrat\$.tw.	3588
88	(beverage? or drink\$ or soda? or tea?).tw.	104286
89	dioralyte.tw.	32
90	pedialyte.tw.	65
91	parenteral\$.tw.	28594
92	((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	4245
93	exp BEVERAGE/	46848
94	exp FOOD INTAKE/	86469
95	exp FEEDING BEHAVIOR/	32525
96	or/79-95	265822
97	and/65,72,78,96	527
98	and/46,97	210
99	limit 98 to human	205
100	limit 99 to english language	191

#### **DNV\_oral\_fluid\_therapy\_cinahl\_141107 (CINAHL 1982 to November Week 2 2007)**

<b>#</b>	<b>Search History</b>	<b>Results</b>
1	exp CLINICAL TRIALS/	48982
2	clinical trial.pt.	23767
3	(clinic\$ adj5 trial\$).tw,sh.	12450
4	SINGLE-BLIND STUDIES/	2510
5	DOUBLE-BLIND STUDIES/	9280
6	TRIPLE-BLIND STUDIES/	37
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	6810
8	RANDOM ASSIGNMENT/	16713
9	random\$.tw.	45787
10	RANDOMIZED CONTROLLED TRIALS/	37397
11	CLINICAL TRIALS/	37397
12	randomi?ed control\$ trial\$.tw.	10027
13	PLACEBOS/	3855
14	placebo\$.tw.	9502
15	or/1-14	81822
16	META ANALYSIS/	5827
17	((meta adj analys\$) or metaanalys\$ or meta-analy\$).tw.	4090
18	SYSTEMATIC REVIEW/	3408
19	systematic review.pt.	9972
20	(systematic\$ adj5 (review\$ or overview\$)).tw.	7807
21	LITERATURE REVIEW/	2480
22	or/16-21	18875
23	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	99318
24	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psyqlit or "web of science" or "science citation").tw.	8336
25	((hand or manual\$) adj2 search\$).tw.	945

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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26 (electronic database\$ or bibliographic database\$ or computerized database\$ or online database\$.tw.	1529
27 (pooling or pooled or mantel haenszel).tw.	2215
28 (peto or dersimonian or "der simonian" or fixed effect).tw.	379
29 or/24-28	10811
30 and/23,29	6291
31 or/22,30	20548
32 or/15,31	93492
33 COMPARATIVE STUDIES/	42720
34 (compar\$ adj5 stud\$.tw.	15444
35 CASE-CONTROL STUDIES/	12530
36 (case\$ adj2 series).ti,ab.	1614
37 (case\$ adj2 control\$.ti,ab.	4097
38 RETROSPECTIVE DESIGN/	24837
39 exp PROSPECTIVE STUDIES/	61226
40 RETROSPECTIVE PANEL STUDIES/	39
41 PRETEST-POSTTEST DESIGN/	10632
42 CROSS SECTIONAL STUDIES/	21774
43 or/33-42	154211
44 letter.pt.	48482
45 commentary.pt.	68975
46 editorial.pt.	78810
47 or/44-46	160975
48 or/32,43	221249
49 48 not 47	206100
50 infan\$.tw.	21678
51 neonat\$.tw.	10833
52 newborn\$.tw.	5420
53 (small adj2 gestational age).tw.	318
54 (low adj birth adj weight).tw.	1835
55 (low adj birth?weight).tw.	691
56 lbw.tw.	229
57 vlbw.tw.	278
58 (baby or babies).tw.	7850
59 toddler\$.tw.	1334
60 (child adj3 (preschool or pre?school)).tw.	94
61 INFANT/	42242
62 INFANT, NEWBORN/	32683
63 CHILD, PRESCHOOL/	47306
64 (pediatri\$ or paediatri\$.tw.	22106
65 or/50-64	106568
66 dehydrat\$.tw.	895
67 FLUID-ELECTROLYTE IMBALANCE/	559
68 HYPERNATREMIA/	136
69 hypernatr\$.tw.	91
70 dysnatr\$.tw.	3
71 DEHYDRATION/	1092
72 or/66-71	2156
73 GASTROENTERITIS/	549

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74 gastroenterit\$.tw.	473
75 diarrh?ea?.tw.	2358
76 DIARRHEA/	2127
77 or/73-76	3858
78 FLUID THERAPY/	1182
79 INFUSIONS, PARENTERAL/	140
80 REHYDRATION SOLUTIONS/	96
81 (fluid? adj5 therap\$.tw.	210
82 rehydrat\$.tw.	318
83 ORT.tw.	55
84 parenteral\$.tw.	2463
85 ((bottle? or tube? or cup? or spoon? or beaker? or syringe?) adj3 (fe?d\$ or nourish\$)).tw.	1482
86 exp FEEDING METHODS/	12275
87 exp BEVERAGES/	5601
88 DRINKING BEHAVIOR/	295
89 dioralyte.tw.	1
90 (beverage? or drink\$ or soda? or tea?).ti,ab.	23160
91 exp PARENTERAL NUTRITION/	1949
92 or/78-91	42082
93 and/65,72,77,92	87
94 and/49,93	30
95 limit 94 to english	29

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

In children being given IV therapy, what fluid regime should be used?

### DNV\_iv\_fluid\_regime\_medline\_131207 (Ovid MEDLINE 1950 to November Week 2 2007)

#	Search History	Results
1	infan\$.tw.	240194
2	neonat\$.tw.	137944
3	newborn\$.tw.	95703
4	(small adj2 gestational age).tw.	3382
5	(low adj birth adj weight).tw.	11912
6	(low adj birth?weight).tw.	4369
7	lbw.tw.	1285
8	vlbw.tw.	1485
9	(baby or babies).tw.	35840
10	toddler\$.tw.	3095
11	(child adj3 (preschool or pre?school)).tw.	533
12	INFANT/	510148
13	exp INFANT, NEWBORN/	404468
14	CHILD, PRESCHOOL/	594055
15	(pediatri\$ or paediatri\$).tw.	128069
16	or/1-15	1229275
17	GASTROENTERITIS/	9078
18	gastroenteritis.tw.	8800
19	DIARRHEA/	31147
20	DIARRHEA, INFANTILE/	6078
21	diarrh?ea?.tw.	52452
22	or/17-21	74608
23	DEHYDRATION/	8273
24	dehydrat\$.tw.	20396
25	HYPERNATREMIA/	1714
26	hypernatr\$.tw.	1715
27	dysnatr\$.tw.	34
28	or/23-27	26525
29	INFUSIONS, INTRAVENOUS/	38021
30	(IV or intravenous\$).tw.	397131
31	(drip\$ adj2 infusion?).tw.	1687
32	INJECTIONS, INTRAVENOUS/	69661
33	SALINE SOLUTION, HYPERTONIC/	3913
34	HYPOTONIC SOLUTION/	2721
35	((solution? or fluid? or rehydrat\$) adj3 (sodium or salt or NaCl)).tw.	16948
36	((isotonic\$ or hypertonic\$ or hypotonic\$) adj3 (solution? or fluid?)).tw.	6185
37	(crystalloid? adj3 (solution? or fluid?)).tw.	994
38	ISOTONIC SOLUTIONS/	6114
39	((hartmann's or hartmanns) adj3 (solution? or fluid?)).tw.	113
40	(sodium adj lactate?).tw.	643
41	(colloid? adj3 (solution? or fluid?)).tw.	778
42	((glucose or dextrose) adj3 (solution? or fluid?)).tw.	5619

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43 ((dextran? or gelatin?) adj3 (solution? or fluid?)).tw.	1545
44 Gelofusine.tw.	63
45 Haemaccel.tw.	239
46 saline?.tw.	94794
47 (ringer\$ adj2 lactate?).tw.	2776
48 (rapid rehydration adj3 (therap\$ or treatment?)).tw.	3
49 or/29-48	551441
50 and/16,22	23307
51 and/28,49	3093
52 and/50-51	363
53 editorial.pt.	213480
54 letter.pt.	612627
55 comment.pt.	348760
56 or/53-55	878940
57 52 not 56	356
58 limit 57 to (humans and english language)	276

#### **DNV\_iv\_fluid\_regime\_embase\_141207 (EMBASE 1980 to 2007 Week 50)**

<b># Search History</b>	<b>Results</b>
1 NEWBORN/	172017
2 neonat\$.tw.	111930
3 newborn\$.tw.	61078
4 exp INFANT/	164067
5 infan\$.tw.	162231
6 SMALL FOR DATE INFANT/	2421
7 (small adj2 gestational age).tw.	3110
8 LOW BIRTH WEIGHT/	10680
9 VERY LOW BIRTH WEIGHT/	4048
10 (low adj birth adj weight).tw.	9691
11 (low adj birth?weight).tw.	3480
12 lbw.tw.	993
13 vlbw.tw.	1306
14 (baby or babies).tw.	25916
15 PRESCHOOL CHILD/	99396
16 (child adj3 (preschool or pre?school)).tw.	240
17 toddler\$.tw.	2367
18 (pediatri\$ or paediatric\$).tw.	108196
19 or/1-18	568005
20 GASTROENTERITIS/	6374
21 ACUTE GASTROENTERITIS/	1006
22 INFANTILE GASTROENTERITIS/	153
23 VIRAL GASTROENTERITIS/	165
24 gastroenterit\$.tw.	6132
25 INFANTILE DIARRHEA/	354
26 diarrh?ea?.tw.	40122
27 or/20-26	47709
28 DEHYDRATION/	10728

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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29 dehydrat\$.tw.	15375
30 hypernatr\$.tw.	1247
31 dysnatr\$.tw.	34
32 HYPERNATREMIA/	1629
33 SHOCK/	10869
34 or/28-33	32515
35 INFUSION/	5110
36 INFUSION FLUID/	3657
37 (IV or intravenous\$.tw.	335417
38 (drip? adj2 infusion?).tw.	1456
39 infusion?.tw.	142288
40 INTRAVENOUS DRUG ADMINISTRATION/	269624
41 HYPERTONIC SOLUTION/	1782
42 HYPOTONIC SOLUTION/	782
43 ISOTONIC SOLUTION/	907
44 COLLOID/	6793
45 CRYSTALLOID/	2106
46 HARTMANN SOLUTION/	216
47 RINGER LACTATE SOLUTION/	2906
48 RINGER SOLUTION/	1115
49 ((solution? or fluid?) adj3 (sodium or salt or NaCl)).tw.	13671
50 ((isotonic\$ or hypertonic\$ or hypotonic\$) adj3 (solution? or fluid?)).tw.	4245
51 (crystalloid? adj3 (solution? or fluid?)).tw.	873
52 ((hartmann's or hartmanns) adj3 (solution? or fluid?)).tw.	101
53 (sodium lactate? adj2 (solution? or fluid?)).tw.	37
54 (colloid? adj3 (solution? or fluid?)).tw.	691
55 ((glucose or dextrose) adj3 (solution? or fluid?)).tw.	4309
56 ((dextran? or gelatin?) adj3 (solution? or fluid?)).tw.	1286
57 Gelofusine.tw.	159
58 Haemaccel.tw.	366
59 saline?.tw.	83628
60 (ringer\$ adj2 lactate?).tw.	2493
61 (rapid rehydration adj3 (therap\$ or treatment?)).tw.	3
62 or/35-61	678109
63 and/19,27	10371
64 and/34,62	5748
65 and/63-64	244
66 letter.sh,tw.	388781
67 note.tw,sh.	241073
68 editorial.tw,sh.	242991
69 abstract report.tw,sh.	71202
70 or/66-69	936456
71 65 not 70	240
72 limit 71 to (human and english language)	189

### DNV\_iv\_fluid\_regime\_cinahl\_141207 (CINAHL 1982 to December Week 1 2007)

# Search History

Results

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1	infan\$.tw.	21876
2	neonat\$.tw.	10922
3	newborn\$.tw.	5473
4	(small adj2 gestational age).tw.	321
5	(low adj birth adj weight).tw.	1846
6	(low adj birth?weight).tw.	696
7	lbw.tw.	230
8	vlbw.tw.	279
9	(baby or babies).tw.	7939
10	toddler\$.tw.	1349
11	(child adj3 (preschool or pre?school)).tw.	96
12	INFANT/	42683
13	INFANT, NEWBORN/	32999
14	CHILD, PRESCHOOL/	47867
15	(pediatri\$ or paediatri\$).tw.	22377
16	or/1-15	107724
17	DEHYDRATION/	1108
18	dehydrat\$.tw.	919
19	HYPERNATREMIA/	136
20	hypernatr\$.tw.	92
21	dysnatr\$.tw.	3
22	SHOCK/	708
23	or/17-22	2416
24	GASTROENTERITIS/	556
25	gastroenterit\$.tw.	474
26	DIARRHEA/	2148
27	diarrh?ea?.tw.	2421
28	or/24-27	3934
29	INFUSIONS, INTRAVENOUS/	1602
30	HOME INTRAVENOUS THERAPY/	871
31	(IV or intravenous\$).tw.	13797
32	(parenteral\$ or infusion?).tw.	7336
33	INJECTIONS, INTRAVENOUS/	526
34	SALINE SOLUTION, HYPERTONIC/	138
35	HYPOTONIC SOLUTION/	54
36	((solution? or fluid?) adj3 (sodium or salt or NaCl)).tw.	204
37	ISOTONIC SOLUTIONS/	112
38	((isotonic\$ or hypertonic\$ or hypotonic\$) adj3 (solution? or fluid?)).tw.	131
39	(crystalloid? adj3 (solution? or fluid?)).tw.	58
40	(hartmann\$ adj3 (solution? or fluid?)).tw.	5
41	(sodium adj lactate?).tw.	9
42	(colloid? adj3 (solution? or fluid?)).tw.	33
43	((glucose or dextrose) adj3 (solution? or fluid?)).tw.	127
44	((dextran? or gelatin?) adj3 (solution? or fluid?)).tw.	10
45	Gelofusine.tw.	5
46	Haemaccel.tw.	6
47	saline?.tw.	1981
48	(ringer\$ adj2 lactate?).tw.	140

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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49 (rapid rehydration adj3 (therap\$ or treatment?)).tw.	0
50 or/29-49	22419
51 and/16,23	450
52 and/28,50	245
53 and/51-52	28
54 limit 53 to english	28



*Clinical question*

What is the risk of recurrence of dehydration in children with gastroenteritis?

**DNV\_risk\_dehydration\_recurrence\_medline\_140108 (Ovid MEDLINE 1950 to January Week 1 2008)**

#	Searches	Results
1	infan\$.tw.	237603
2	neonat\$.tw.	136246
3	newborn\$.tw.	94559
4	(small adj2 gestational age).tw.	3376
5	(low adj birth adj weight).tw.	11931
6	(low adj birth?weight).tw.	4261
7	lbw.tw.	1287
8	vlbw.tw.	1480
9	(baby or babies).tw.	35254
10	toddler\$.tw.	3110
11	(child adj3 (preschool or pre?school)).tw.	530
12	INFANT/	503674
13	exp INFANT, NEWBORN/	399603
14	CHILD, PRESCHOOL/	587257
15	(pediatri\$ or paediatri\$).tw.	127448
16	or/1-15	1214502
17	GASTROENTERITIS/	8956
18	gastroenteritis.tw.	8693
19	DIARRHEA/	30653
20	DIARRHEA, INFANTILE/	6007
21	diarrh?ea?.tw.	51862
22	or/17-21	73615
23	DEHYDRATION/	8121
24	dehydrat\$.tw.	20017
25	HYPERNATREMIA/	1684
26	hypernatr\$.tw.	1682
27	dysnatr\$.tw.	35
28	((after or following or post) adj3 (rehydrat\$ or fluid? therap\$)).tw.	619
29	or/23-28	26348
30	and/16,22	23037
31	(recurren\$ or recur? or reoccur\$).tw.	235560
32	(reattendance? or re attendance?).tw.	91
33	(readmit\$ or readmission? or re admit\$ or re admission?).tw.	6946
34	((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2404
35	PATIENT READMISSION/	4545
36	RECURRENCE/	118588
37	LENGTH OF STAY/	37413
38	((length or duration) adj3 (admission? or stay?)).tw.	22001
39	or/31-38	354224
40	and/29-30	1933
41	39 and 40	93
42	limit 41 to (english language and humans)	80

**DNV\_risk\_dehydration\_recurrence\_embase\_140108 (EMBASE 1980 to 2008 Week 02)**

#	Search History	Results
1	NEWBORN/	172336
2	neonat\$.tw.	112292
3	newborn\$.tw.	61268
4	exp INFANT/	164594
5	infan\$.tw.	162749
6	SMALL FOR DATE INFANT/	2440
7	(small adj2 gestational age).tw.	3126
8	LOW BIRTH WEIGHT/	10727
9	VERY LOW BIRTH WEIGHT/	4057
10	(low adj birth adj weight).tw.	9728
11	(low adj birth?weight).tw.	3489
12	lbw.tw.	996
13	vlbw.tw.	1310
14	(baby or babies).tw.	26004
15	PRESCHOOL CHILD/	99683
16	(child adj3 (preschool or pre?school)).tw.	241
17	toddler\$.tw.	2379
18	(pediatri\$ or paediatric\$.tw.	108811
19	or/1-18	569967
20	GASTROENTERITIS/	6407
21	ACUTE GASTROENTERITIS/	1012
22	INFANTILE GASTROENTERITIS/	154
23	VIRAL GASTROENTERITIS/	173
24	gastroenterit\$.tw.	6155
25	INFANTILE DIARRHEA/	355
26	diarrh?ea?.tw.	40302
27	or/20-26	47927
28	DEHYDRATION/	10802
29	dehydrat\$.tw.	15449
30	hypernatr\$.tw.	1255
31	dysnatr\$.tw.	34
32	HYPERNATREMIA/	1647
33	((after or following or post) adj3 (rehydrat\$ or fluid? therap\$)).tw.	484
34	or/28-33	22178
35	HOSPITAL READMISSION/	1258
36	DISEASE RECURRENCE/	49095
37	LENGTH OF STAY/	21694
38	(recurren\$ or recur? or reoccur\$.tw.	206586
39	(reattendance? or re attendance?).tw.	94
40	(readmit\$ or readmission? or re admit\$ or re admission?).tw.	5951
41	((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2185
42	((length or duration) adj3 (admission? or stay?)).tw.	19358
43	or/35-42	256764
44	and/19,27	10410

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45 and/43-44	565
46 and/34,45	70
47 limit 46 to (human and english language)	58

### DNV\_risk\_dehydration\_recurrence\_cinahl\_140108 (CINAHL 1982 to December Week 1 2007)

# Search History	Results
1 infan\$.tw.	21876
2 neonat\$.tw.	10922
3 newborn\$.tw.	5473
4 (small adj2 gestational age).tw.	321
5 (low adj birth adj weight).tw.	1846
6 (low adj birth?weight).tw.	696
7 lbw.tw.	230
8 vlbw.tw.	279
9 (baby or babies).tw.	7939
10 toddler\$.tw.	1349
11 (child adj3 (preschool or pre?school)).tw.	96
12 INFANT/	42683
13 INFANT, NEWBORN/	32999
14 CHILD, PRESCHOOL/	47867
15 (pediatri\$ or paediatric\$).tw.	22377
16 or/1-15	107724
17 GASTROENTERITIS/	556
18 gastroenterit\$.tw.	474
19 DIARRHEA/	2148
20 diarrh?ea?.tw.	2421
21 or/17-20	3934
22 DEHYDRATION/	1108
23 dehydrat\$.tw.	919
24 HYPERNATREMIA/	136
25 hypernatr\$.tw.	92
26 dysnatr\$.tw.	3
27 ((after or following or post) adj3 (rehydrat\$ or fluid? therap\$)).tw.	22
28 or/22-27	1733
29 PATIENT READMISSION/	1470
30 RECURRENCE/	6888
31 LENGTH OF STAY/	7160
32 ((length or duration) adj3 (admission? or stay?)).tw.	4713
33 (recurren\$ or recur? or reoccur\$).tw.	9260
34 (reattendance? or re attendance?).tw.	17
35 (readmit\$ or readmission? or re admit\$ or re admission?).tw.	1365
36 ((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	127
37 or/29-36	24439
38 and/16,21	1154
39 and/37-38	68
40 and/28,39	11
41 limit 40 to english	11



*Clinical question*

What [oral fluid] interventions are safe and effective in preventing the recurrence of dehydration?

**DNV\_prevent\_dehydration\_recurrence\_medline\_150108 (Ovid MEDLINE 1950 to January Week 1 2008)**

#	Search History	Results
1	infan\$.tw.	237603
2	neonat\$.tw.	136246
3	newborn\$.tw.	94559
4	(small adj2 gestational age).tw.	3376
5	(low adj birth adj weight).tw.	11931
6	(low adj birth?weight).tw.	4261
7	lbw.tw.	1287
8	vlbw.tw.	1480
9	(baby or babies).tw.	35254
10	toddler\$.tw.	3110
11	(child adj3 (preschool or pre?school)).tw.	530
12	INFANT/	503674
13	exp INFANT, NEWBORN/	399603
14	CHILD, PRESCHOOL/	587257
15	(pediatri\$ or paediatri\$).tw.	127448
16	or/1-15	1214502
17	GASTROENTERITIS/	8956
18	gastroenteritis.tw.	8693
19	DIARRHEA/	30653
20	DIARRHEA, INFANTILE/	6007
21	diarrh?ea?.tw.	51862
22	or/17-21	73615
23	FLUID THERAPY/	10391
24	REHYDRATION SOLUTIONS/	938
25	exp BEVERAGES/	69317
26	DRINKING BEHAVIOR/	5032
27	((fluid? or liquid?) adj3 (supplement\$ or therap\$)).tw.	3258
28	((fluid? or liquid?) adj3 (volume? or amount? or quantit\$)).tw.	11880
29	rehydrat\$.tw.	4623
30	ORT.tw.	465
31	dioralyte.tw.	10
32	pedialyte.tw.	13
33	(beverage? or drink\$ or soda? or tea?).tw.	128607
34	ENTERAL NUTRITION/	12030
35	INTUBATION, GASTROINTESTINAL/	6860
36	(enteral\$ or gastric tube? or nasogastric tube? or ng tube?).tw.	13847
37	BOTTLE FEEDING/	2631
38	BREAST FEEDING/	18975
39	MILK, HUMAN/	12392
40	(breastfe?d\$ or breast fe?d\$ or milk).tw.	71737
41	INFANT FORMULA/	787
42	(bottlefe?d\$ or bottle fe?d\$).tw.	1503

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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43 or/23-42	279935
44 (recurren\$ or recur? or reoccur\$.tw.	235560
45 (reattendance? or re attendance?).tw.	91
46 (readmit\$ or readmission? or re admit\$ or re admission?).tw.	6946
47 ((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2404
48 PATIENT READMISSION/	4545
49 RECURRENCE/	118588
50 LENGTH OF STAY/	37413
51 ((length or duration) adj3 (admission? or stay?)).tw.	22001
52 or/44-51	354224
53 and/16,22	23037
54 and/43,52	6764
55 and/53-54	180
56 letter.pt.	604467
57 editorial.pt.	210835
58 comment.pt.	341568
59 or/56-58	865360
60 55 not 59	176
61 limit 60 to (english language and humans)	142

### **DNV\_prevent\_dehydration\_recurrence\_embase\_150108 (EMBASE 1980 to 2008 Week 02)**

<b># Searches</b>	<b>Results</b>
1 NEWBORN/	172336
2 neonat\$.tw.	112292
3 newborn\$.tw.	61268
4 exp INFANT/	164594
5 infan\$.tw.	162749
6 SMALL FOR DATE INFANT/	2440
7 (small adj2 gestational age).tw.	3126
8 LOW BIRTH WEIGHT/	10727
9 VERY LOW BIRTH WEIGHT/	4057
10 (low adj birth adj weight).tw.	9728
11 (low adj birth?weight).tw.	3489
12 lbw.tw.	996
13 vlbw.tw.	1310
14 (baby or babies).tw.	26004
15 PRESCHOOL CHILD/	99683
16 (child adj3 (preschool or pre?school)).tw.	241
17 toddler\$.tw.	2379
18 (pediatri\$ or paediatric\$.tw.	108811
19 or/1-18	569967
20 GASTROENTERITIS/	6407
21 ACUTE GASTROENTERITIS/	1012
22 INFANTILE GASTROENTERITIS/	154
23 VIRAL GASTROENTERITIS/	173
24 gastroenterit\$.tw.	6155
25 INFANTILE DIARRHEA/	355

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26 diarrh?ea?.tw.	40302
27 or/20-26	47927
28 FLUID THERAPY/	5761
29 ORAL REHYDRATION SOLUTION/	1379
30 ORAL REHYDRATION THERAPY/	1032
31 REHYDRATION/	2470
32 ((fluid? or liquid?) adj3 (supplement\$ or therap\$)).tw.	2416
33 ((fluid? or liquid?) adj3 (volume? or amount? or quantit\$)).tw.	9817
34 ORT.tw.	297
35 rehydrat\$.tw.	3634
36 (beverage? or drink\$ or soda? or tea?).tw.	105578
37 dioralyte.tw.	32
38 pedalyte.tw.	65
39 exp BEVERAGE/	47424
40 BREAST FEEDING/	13153
41 BREAST MILK/	8552
42 (breastfe?d\$ or breast fe?d\$ or milk).tw.	42329
43 BOTTLE FEEDING/	1004
44 ARTIFICIAL MILK/	4795
45 (bottlefe?d\$ or bottle fe?d\$).tw.	969
46 ENTERIC FEEDING/	7483
47 (enteral\$ or gastric tube? or nasogastric tube? or ng tube?).tw.	11982
48 or/28-47	203514
49 HOSPITAL READMISSION/	1258
50 DISEASE RECURRENCE/	49095
51 LENGTH OF STAY/	21694
52 (recurren\$ or recur? or reoccur\$).tw.	206586
53 (reattendance? or re attendance?).tw.	94
54 (readmit\$ or readmission? or re admit\$ or re admission?).tw.	5951
55 ((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2185
56 ((length or duration) adj3 (admission? or stay?)).tw.	19358
57 or/49-56	256764
58 and/19,27	10410
59 and/48,57	4990
60 and/58-59	128
61 letter.pt.	402537
62 editorial.pt.	203480
63 note.pt.	224579
64 or/61-63	830596
65 60 not 64	126
66 limit 65 to (human and english language)	97

### **DNV\_prevent\_dehydration\_recurrence\_cinahl\_150108 (CINAHL 1982 to December Week 1 2007)**

<b># Searches</b>	<b>Results</b>
1 infan\$.tw.	21876
2 neonat\$.tw.	10922
3 newborn\$.tw.	5473

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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4 (small adj2 gestational age).tw.	321
5 (low adj birth adj weight).tw.	1846
6 (low adj birth?weight).tw.	696
7 lbw.tw.	230
8 vlbw.tw.	279
9 (baby or babies).tw.	7939
10 toddler\$.tw.	1349
11 (child adj3 (preschool or pre?school)).tw.	96
12 INFANT/	42683
13 INFANT, NEWBORN/	32999
14 CHILD, PRESCHOOL/	47867
15 (pediatri\$ or paediatri\$).tw.	22377
16 or/1-15	107724
17 GASTROENTERITIS/	556
18 gastroenterit\$.tw.	474
19 DIARRHEA/	2148
20 diarrh?ea?.tw.	2421
21 or/17-20	3934
22 FLUID THERAPY/	1203
23 REHYDRATION SOLUTIONS/	96
24 exp BEVERAGES/	5708
25 DRINKING BEHAVIOR/	300
26 ((fluid? or liquid?) adj3 (supplement\$ or therap\$)).tw.	239
27 ((fluid? or liquid?) adj3 (volume? or amount? or quantit\$)).tw.	495
28 rehydrat\$.tw.	321
29 ORT.tw.	57
30 dioralyte.tw.	1
31 pedialyte.tw.	0
32 INTUBATION, GASTROINTESTINAL/	534
33 ENTERAL NUTRITION/	2877
34 BOTTLE FEEDING/	705
35 (enteral\$ or gastric tube? or nasogastric tube? or ng tube?).tw.	2125
36 (beverage? or drink\$ or soda? or tea?).tw.	23674
37 BREAST FEEDING/	6600
38 (breastfe?d\$ or breast fe?d\$ or milk).tw.	7318
39 (bottlefe?d\$ or bottle fe?d\$).tw.	379
40 or/22-39	42061
41 MILK, HUMAN/	1315
42 INFANT FORMULA/	1106
43 PATIENT READMISSION/	1470
44 RECURRENCE/	6888
45 LENGTH OF STAY/	7160
46 ((length or duration) adj3 (admission? or stay?)).tw.	4713
47 (recurren\$ or recur? or reoccur\$).tw.	9260
48 (reattendance? or re attendance?).tw.	17
49 (readmit\$ or readmission? or re admit\$ or re admission?).tw.	1365
50 ((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	127
51 or/43-50	24439



52 and/16,21	1154
53 and/40,51	1194
54 and/52-53	17
55 limit 54 to english	17

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

What [oral fluid] interventions are cost effective in preventing the recurrence of dehydration?

### **DNV\_prevent\_dehydration\_recurrence\_economics\_medline\_150108 (Ovid MEDLINE 1950 to January Week 1 2008)**

#	Search History	Results
1	ECONOMICS/	24883
2	"COSTS AND COST ANALYSIS"/	35793
3	COST ALLOCATION/	1822
4	COST-BENEFIT ANALYSIS/	41519
5	COST CONTROL/	17394
6	COST SAVINGS/	5846
7	COST OF ILLNESS/	9886
8	COST SHARING/	1331
9	HEALTH CARE COSTS/	15958
10	DIRECT SERVICE COSTS/	821
11	DRUG COSTS/	8243
12	EMPLOYER HEALTH COSTS/	977
13	HOSPITAL COSTS/	5396
14	HEALTH RESOURCES/	6046
15	"HEALTH SERVICES NEEDS AND DEMAND"/	27807
16	HEALTH PRIORITIES/	6458
17	HEALTH EXPENDITURES/	9702
18	CAPITAL EXPENDITURES/	1807
19	FINANCIAL MANAGEMENT/	14196
20	FINANCIAL MANAGEMENT, HOSPITAL/	6793
21	QUALITY-ADJUSTED LIFE YEARS/	3190
22	"DEDUCTIBLES AND COINSURANCE"/	1146
23	MEDICAL SAVINGS ACCOUNTS/	373
24	ECONOMICS, HOSPITAL/	8280
25	ECONOMICS, MEDICAL/	6754
26	ECONOMICS, NURSING/	3753
27	ECONOMICS, PHARMACEUTICAL/	1845
28	MODELS, ECONOMIC/	2959
29	MODELS, ECONOMETRIC/	2623
30	RESOURCE ALLOCATION/	5737
31	HEALTH CARE RATIONING/	8670
32	"FEES AND CHARGES"/	7168
33	BUDGETS/	7474
34	VALUE OF LIFE/	4881
35	(financ\$ or fiscal\$ or funding).tw.	51322
36	(QALY\$ or life?year\$).tw.	1885
37	(econom\$ or cost\$).tw.	266589
38	pharmacoeconomic\$.tw.	1815
39	ec.fs.	232982
40	or/1-39	536882
41	infan\$.tw.	237603

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42	neonat\$.tw.	136246
43	newborn\$.tw.	94559
44	(small adj2 gestational age).tw.	3376
45	(low adj birth adj weight).tw.	11931
46	(low adj birth?weight).tw.	4261
47	lbw.tw.	1287
48	vlbw.tw.	1480
49	(baby or babies).tw.	35254
50	toddler\$.tw.	3110
51	(child adj3 (preschool or pre?school)).tw.	530
52	INFANT/	503674
53	exp INFANT, NEWBORN/	399603
54	CHILD, PRESCHOOL/	587257
55	(pediatri\$ or paediatri\$).tw.	127448
56	or/41-55	1214502
57	GASTROENTERITIS/	8956
58	gastroenteritis.tw.	8693
59	DIARRHEA/	30653
60	DIARRHEA, INFANTILE/	6007
61	diarrh?ea?.tw.	51862
62	or/57-61	73615
63	FLUID THERAPY/	10391
64	REHYDRATION SOLUTIONS/	938
65	exp BEVERAGES/	69317
66	DRINKING BEHAVIOR/	5032
67	((fluid? or liquid?) adj3 (supplement\$ or therap\$)).tw.	3258
68	((fluid? or liquid?) adj3 (volume? or amount? or quantit\$)).tw.	11880
69	rehydrat\$.tw.	4623
70	ORT.tw.	465
71	dioralyte.tw.	10
72	pedialyte.tw.	13
73	(beverage? or drink\$ or soda? or tea?).tw.	128607
74	ENTERAL NUTRITION/	12030
75	INTUBATION, GASTROINTESTINAL/	6860
76	(enteral\$ or gastric tube? or nasogastric tube? or ng tube?).tw.	13847
77	BOTTLE FEEDING/	2631
78	BREAST FEEDING/	18975
79	MILK, HUMAN/	12392
80	(breastfe?d\$ or breast fe?d\$ or milk).tw.	71737
81	INFANT FORMULA/	787
82	(bottlefe?d\$ or bottle fe?d\$).tw.	1503
83	or/63-82	279935
84	(recurren\$ or recur? or reoccur\$).tw.	235560
85	(reattendance? or re attendance?).tw.	91
86	(readmit\$ or readmission? or re admit\$ or re admission?).tw.	6946
87	((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2404
88	PATIENT READMISSION/	4545
89	RECURRENCE/	118588

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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90	LENGTH OF STAY/	37413
91	((length or duration) adj3 (admission? or stay?)).tw.	22001
92	or/84-91	354224
93	and/56,62	23037
94	and/83,92	6764
95	and/93-94	180
96	letter.pt.	604467
97	editorial.pt.	210835
98	comment.pt.	341568
99	or/96-98	865360
100	95 not 99	176
101	and/40,100	16

## DNV\_prevent\_dehydration\_recurrence\_economics\_embase\_150108 (EMBASE 1980 to 2008 Week 02)

#	Searches	Results
1	ECONOMICS/	5485
2	HEALTH ECONOMICS/	9763
3	ECONOMIC EVALUATION/	3957
4	COST BENEFIT ANALYSIS/	27730
5	COST CONTROL/	16004
6	COST EFFECTIVENESS ANALYSIS/	52363
7	COST MINIMIZATION ANALYSIS/	1273
8	COST OF ILLNESS/	4304
9	COST UTILITY ANALYSIS/	2129
10	COST/	19683
11	HEALTH CARE COST/	56706
12	DRUG COST/	32056
13	HEALTH CARE FINANCING/	8939
14	HOSPITAL COST/	6052
15	SOCIOECONOMICS/	28753
16	ECONOMIC ASPECT/	68900
17	QUALITY-ADJUSTED LIFE YEARS/	3412
18	FINANCIAL MANAGEMENT/	21845
19	PHARMACOECONOMICS/	904
20	RESOURCE ALLOCATION/	7050
21	(financ\$ or fiscal\$ or funding).tw.	36815
22	(QALY\$ or life?year\$).tw.	1839
23	(econom\$ or cost\$).tw.	220129
24	pharmacoeconomic\$.tw.	2488
25	or/1-24	393812
26	NEWBORN/	172336
27	neonat\$.tw.	112292
28	newborn\$.tw.	61268
29	exp INFANT/	164594
30	infan\$.tw.	162749
31	SMALL FOR DATE INFANT/	2440
32	(small adj2 gestational age).tw.	3126

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33 LOW BIRTH WEIGHT/	10727
34 VERY LOW BIRTH WEIGHT/	4057
35 (low adj birth adj weight).tw.	9728
36 (low adj birth?weight).tw.	3489
37 lbw.tw.	996
38 vlbw.tw.	1310
39 (baby or babies).tw.	26004
40 PRESCHOOL CHILD/	99683
41 (child adj3 (preschool or pre?school)).tw.	241
42 toddler\$.tw.	2379
43 (pediatri\$ or paediatric\$).tw.	108811
44 or/26-43	569967
45 GASTROENTERITIS/	6407
46 ACUTE GASTROENTERITIS/	1012
47 INFANTILE GASTROENTERITIS/	154
48 VIRAL GASTROENTERITIS/	173
49 gastroenterit\$.tw.	6155
50 INFANTILE DIARRHEA/	355
51 diarrh?ea?.tw.	40302
52 or/45-51	47927
53 FLUID THERAPY/	5761
54 ORAL REHYDRATION SOLUTION/	1379
55 ORAL REHYDRATION THERAPY/	1032
56 REHYDRATION/	2470
57 ((fluid? or liquid?) adj3 (supplement\$ or therap\$)).tw.	2416
58 ((fluid? or liquid?) adj3 (volume? or amount? or quantit\$)).tw.	9817
59 ORT.tw.	297
60 rehydrat\$.tw.	3634
61 (beverage? or drink\$ or soda? or tea?).tw.	105578
62 dioralyte.tw.	32
63 pedialyte.tw.	65
64 exp BEVERAGE/	47424
65 BREAST FEEDING/	13153
66 BREAST MILK/	8552
67 (breastfe?d\$ or breast fe?d\$ or milk).tw.	42329
68 BOTTLE FEEDING/	1004
69 ARTIFICIAL MILK/	4795
70 (bottlefe?d\$ or bottle fe?d\$).tw.	969
71 ENTERIC FEEDING/	7483
72 (enteral\$ or gastric tube? or nasogastric tube? or ng tube?).tw.	11982
73 or/53-72	203514
74 HOSPITAL READMISSION/	1258
75 DISEASE RECURRENCE/	49095
76 LENGTH OF STAY/	21694
77 (recurren\$ or recur? or reoccur\$).tw.	206586
78 (reattendance? or re attendance?).tw.	94
79 (readmit\$ or readmission? or re admit\$ or re admission?).tw.	5951
80 ((repeat\$ or repetition?) adj3 (episode? or symptom? or dehydrat\$)).tw.	2185

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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81 ((length or duration) adj3 (admission? or stay?)).tw.	19358
82 or/74-81	256764
83 and/44,52	10410
84 and/73,82	4990
85 and/83-84	128
86 and/25,85	9
87 limit 86 to english language	7

### DNV\_prevent\_dehydration\_recurrence\_economics\_crd\_150108

	Search	Matching records
# 1	MESH GASTROENTERITIS	33
# 2	MESH DIARRHEA	94
# 3	MESH DIARRHEA, INFANTILE	15
# 4	diarrhoea OR diarrhea OR gastroenteritis	390
# 5	#1 or #2 or #3 or #4	390
# 6	MESH FLUID THERAPY	43
# 7	MESH REHYDRATION SOLUTIONS	7
# 8	MESH BEVERAGES	4
# 9	MESH DRINKING BEHAVIOR	1
# 10	MESH ENTERAL NUTRITION	113
# 11	MESH INTUBATION, GASTROINTESTINAL	22
# 12	MESH BOTTLE FEEDING	10
# 13	MESH BREAST FEEDING	55
# 14	MESH MILK, HUMAN	11
# 15	MESH INFANT FORMULA	9
# 16	rehydrat* OR ORT OR dioralyte	49
# 17	beverage* OR drink* OR soda* OR tea*	1880
# 18	enteral OR enteric	250
# 19	breastfe* OR bottlefe*	103
# 20	#6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19	2317
# 21	MESH PATIENT READMISSION	209
# 22	MESH RECURRENCE	635
# 23	MESH LENGTH OF STAY	2293
# 24	recurren* OR recur* OR reoccur*	2077
# 25	reattendance	2
# 26	readmit* OR readmission*	551
# 28	LOS	247
# 29	#21 or #22 or #23 or #24 or #25 or #26 or #28	4676
# 30	#5 and #20 and #29	15

*Clinical question*

Following rehydration, what feeding regimes are appropriate for children under 5 years?

**DNV\_post\_rehydration\_feeding\_medline\_290108 (Ovid MEDLINE 1950 to January Week 3 2008)**

#	Searches	Results
1	randomized controlled trial.pt.	246309
2	controlled clinical trial.pt.	76009
3	DOUBLE BLIND METHOD/	94156
4	SINGLE BLIND METHOD/	11521
5	RANDOM ALLOCATION/	59382
6	RANDOMIZED CONTROLLED TRIALS/	51740
7	or/1-6	415806
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	91633
9	clinical trial.pt.	439361
10	exp CLINICAL TRIALS/	0
11	(clinic\$ adj5 trial\$).tw,sh.	120743
12	PLACEBOS/	26504
13	placebo\$.tw,sh.	118790
14	random\$.tw,sh.	450329
15	or/8-14	815493
16	or/7,15	830887
17	META ANALYSIS/	247
18	meta analysis.pt.	17084
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	24347
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	15356
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1786
22	or/17-21	42094
23	review\$.pt.	1331732
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation" or scisearch).tw.	27585
25	((hand or manual\$) adj2 search\$).tw.	3091
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	4638
27	(pooling or pooled or mantel haenszel).tw,sh.	27556
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1233
29	or/24-28	56906
30	23 and 29	23390
31	CASE-CONTROL STUDIES/	93018
32	RETROSPECTIVE STUDIES/	283114
33	PROSPECTIVE STUDIES/	232864
34	COHORT STUDIES/	80085
35	(case\$ adj2 control\$).tw.	48691
36	(compar\$ adj3 stud\$).tw.	166293
37	or/31-36	793976
38	or/16,22,30,37	1513013
39	letter.pt.	605711
40	comment.pt.	342776

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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41	editorial.pt.	211521
42	historical article.pt.	241923
43	or/39-42	1098774
44	38 not 43	1472888
45	infan\$.tw.	238045
46	neonat\$.tw.	136587
47	newborn\$.tw.	94733
48	(small adj2 gestational age).tw.	3395
49	(low adj birth adj weight).tw.	11987
50	(low adj birth?weight).tw.	4269
51	lbw.tw.	1293
52	vlbw.tw.	1483
53	(baby or babies).tw.	35342
54	toddler\$.tw.	3122
55	(child adj3 (preschool or pre?school)).tw.	531
56	INFANT/	504454
57	exp INFANT, NEWBORN/	400271
58	CHILD, PRESCHOOL/	588325
59	(pediatri\$ or paediatric\$.tw.	127963
60	or/45-59	1216760
61	GASTROENTERITIS/	8980
62	gastroenteritis.tw.	8722
63	DIARRHEA/	30704
64	DIARRHEA, INFANTILE/	6012
65	diarrh?ea?.tw.	51986
66	or/61-65	73781
67	FLUID THERAPY/	10418
68	HOME INFUSION THERAPY/	488
69	REHYDRATION SOLUTIONS/	939
70	(fluid? adj3 (supplement\$ or therap\$)).tw.	2706
71	(rehydrat\$ or hydrat\$).tw.	27793
72	ORT.tw.	465
73	dioralyte.tw.	10
74	pedialyte.tw.	13
75	INFUSIONS, INTRAVENOUS/	37767
76	INFUSIONS, PARENTERAL/	23587
77	or/67-76	98356
78	BREAST FEEDING/	19001
79	MILK, HUMAN/	12406
80	(breastfe?d\$ or breast fe?d\$ or milk).tw.	71861
81	BOTTLE FEEDING/	2636
82	INFANT FORMULA/	797
83	(bottlefe?d\$ or bottle fe?d\$).tw.	1507
84	WEANING/	6646
85	wean\$.tw.	24943
86	INFANT FOOD/	8126
87	FOOD/	17561
88	(food\$ or feed? or fed or feeding? or eat\$).tw.	339634



89	DIET THERAPY/	8511
90	diet\$.tw.	254519
91	SOY MILK/	130
92	BEVERAGES/	5914
93	CARBONATED BEVERAGES/	992
94	(carbonated beverage? or soda? or fizzy drink? or fizzy beverage?).tw.	1689
95	MILK/	33461
96	MILK SUBSTITUTES/	35
97	TEA/	4194
98	(tea? or tisane?).tw.	64485
99	MINERAL WATERS/	3191
100	(drink adj3 water).tw.	560
101	FOOD FORMULATED/	4559
102	FOOD, FORTIFIED/	5855
103	((milk? or formula) adj3 (soy? or rice or protein\$ or hypoallergenic\$ or lactose or amino acid? or non dairy or nondairy)).tw.	7843
104	((earl\$ or late or delay\$) adj3 (re introduc\$ or reintroduc\$ or re feed\$ or refeed\$)).tw.	116
105	((restrict\$ or unlimited or limited or dilute? or full strength or undilute?) adj3 (fluid? or liquid?)).tw.	1770
106	(rice or yog?urt or banana? or pasta? or low sugar or low fat or complex carb\$ or bread? or toast or cookie? or biscuit?).tw.	27040
107	or/78-106	663783
108	and/60,66	23085
109	and/77,107	6122
110	and/108-109	640
111	and/44,110	237
112	limit 111 to (english language and humans)	209

**DNV\_post\_rehydration\_feeding\_embase\_290108 (EMBASE 1980 to 2008 Week 04)**

#	Searches	Results
1	CLINICAL TRIALS/	489101
2	(clinic\$ adj5 trial\$.tw,sh.	114832
3	SINGLE BLIND PROCEDURE/	7304
4	DOUBLE BLIND PROCEDURE/	67950
5	RANDOM ALLOCATION/	24899
6	CROSSOVER PROCEDURE/	19872
7	PLACEBO/	109093
8	placebo\$.tw,sh.	158691
9	random\$.tw,sh.	397030
10	RANDOMIZED CONTROLLED TRIALS/	153582
11	((single or double or triple or treble) adj (blind\$ or mask\$)).tw,sh.	88702
12	randomi?ed control\$ trial\$.tw.	28285
13	or/1-12	804121
14	META ANALYSIS/	32809
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw,sh.	40736
16	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	23148
17	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1487
18	or/14-17	55346
19	review.pt.	853160

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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20	(medline or medlars or embase).ab.	20057
21	(scisearch or science citation index).ab.	582
22	(psychlit or psyclit or psychinfo or psycinfo or cinahl or cochrane).ab.	6389
23	((hand or manual\$) adj2 search\$.tw.	2315
24	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$.tw.	3669
25	(pooling or pooled or mantel haenszel).tw.	22767
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	707
27	or/20-26	46778
28	19 and 27	15709
29	COMPARATIVE STUDY/	103338
30	(compar\$ adj5 stud\$.tw.	170579
31	CASE-CONTROL STUDY/	17339
32	RETROSPECTIVE STUDY/	86169
33	PROSPECTIVE STUDY/	71963
34	COHORT STUDY/	46607
35	(case\$ adj2 control\$.tw.	45281
36	or/29-35	470949
37	or/13,18,28,36	1196679
38	abstract report.tw,sh.	71202
39	note.tw,sh.	243143
40	short survey.tw,sh.	401704
41	letter.tw,sh.	392536
42	editorial.tw,sh.	245356
43	or/38-42	1342910
44	37 not 43	1102652
45	NEWBORN/	172598
46	neonat\$.tw.	112545
47	newborn\$.tw.	61429
48	exp CHILD/	596602
49	infan\$.tw.	163157
50	SMALL FOR DATE INFANT/	2447
51	(small adj2 gestational age).tw.	3135
52	LOW BIRTH WEIGHT/	10750
53	VERY LOW BIRTH WEIGHT/	4069
54	(low adj birth adj weight).tw.	9756
55	(low adj birth?weight).tw.	3490
56	lbw.tw.	1000
57	vlbw.tw.	1314
58	(baby or babies).tw.	26063
59	PRESCHOOL CHILD/	99902
60	child\$.tw.	459664
61	toddler\$.tw.	2385
62	(pediatri\$ or paediatri\$.tw.	109272
63	or/45-62	997050
64	GASTROENTERITIS/	6427
65	ACUTE GASTROENTERITIS/	1020
66	INFANTILE GASTROENTERITIS/	154

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67	VIRAL GASTROENTERITIS/	185
68	gastroenterit\$.tw.	6188
69	INFANTILE DIARRHEA/	355
70	diarrh?ea?.tw.	40421
71	or/64-70	48082
72	INFUSION/	5121
73	INFUSION FLUID/	3684
74	(IV or intravenous\$.tw.	337197
75	infusion?.tw.	142806
76	INTRAVENOUS DRUG ADMINISTRATION/	269626
77	FLUID THERAPY/	5783
78	ORAL REHYDRATION SOLUTION/	1384
79	ORAL REHYDRATION THERAPY/	1037
80	REHYDRATION/	2476
81	(fluid? adj3 (therap\$ or supplement\$)).tw.	1924
82	ORT.tw.	298
83	(rehydrat\$ or hydrat\$).tw.	24470
84	dioralyte.tw.	32
85	pedialyte.tw.	65
86	or/72-85	622619
87	BREAST FEEDING/	13184
88	BREAST MILK/	8572
89	(breastfe?d\$ or breast fe?d\$ or milk).tw.	42425
90	BOTTLE FEEDING/	1008
91	INFANT FEEDING/	2954
92	ARTIFICIAL MILK/	4809
93	SIMILAC/	51
94	(bottlefe?d\$ or bottle fe?d\$).tw.	972
95	BABY FOOD/	493
96	FOOD/	11994
97	WEANING/	4604
98	(food\$ or feed? or fed or feeding? or eat\$).tw.	254656
99	CEREAL/	3386
100	DIET THERAPY/	13251
101	FOOD RESTRICTION/	19776
102	diet\$.tw.	197224
103	MILK/	12765
104	SOYBEAN MILK/	160
105	BEVERAGE/	2565
106	CARBONATED BEVERAGES/	392
107	(carbonated beverage? or soda? or fizzy drink? or fizzy beverage?).tw.	1562
108	TEA/	4682
109	(tea? or tisane?).tw.	49168
110	MINERAL WATER/	976
111	(drink\$ adj3 water).tw.	21764
112	ELEMENTAL DIET/	565
113	DIET SUPPLEMENTATION/	27082
114	((milk? or formula) adj3 (soy? or rice or protein\$ or hypoallergenic\$ or lactose or amino acid? or	4584

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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non dairy or nondairy)).tw.	
115 ((early\$ or late or delay\$) adj3 (re introduc\$ or reintroduc\$ or re feed\$ or refeed\$)).tw.	106
116 ((restrict\$ or unlimited or limited or dilute? or full strength or undilute?) adj3 (fluid? or liquid?)).tw.	1584
117 (rice or yog?urt or banana? or pasta? or low sugar or low fat or complex carb\$ or bread? or toast or cookie? or biscuit?)).tw.	19334
118 wean\$.tw.	17504
119 or/87-118	521878
120 and/63,71	15332
121 and/86,119	32212
122 and/120-121	629
123 and/44,122	220
124 limit 123 to (human and english language)	198

### DNV\_post\_rehydration\_feeding\_cinahl\_290108 (CINAHL 1982 to December Week 1 2007)

#	Searches	Results
1	exp CLINICAL TRIALS/	50105
2	clinical trial.pt.	24633
3	(clinic\$ adj5 trial\$).tw,sh.	12795
4	SINGLE-BLIND STUDIES/	2554
5	DOUBLE-BLIND STUDIES/	9444
6	TRIPLE-BLIND STUDIES/	37
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	6949
8	RANDOM ASSIGNMENT/	16979
9	random\$.tw.	46842
10	RANDOMIZED CONTROLLED TRIALS/	38347
11	CLINICAL TRIALS/	38347
12	randomi?ed control\$ trial\$.tw.	10291
13	PLACEBOS/	3902
14	placebo\$.tw.	9720
15	or/1-14	83913
16	META ANALYSIS/	5947
17	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw.	4215
18	SYSTEMATIC REVIEW/	3456
19	systematic review.pt.	10264
20	(systematic\$ adj5 (review\$ or overview\$)).tw.	8021
21	LITERATURE REVIEW/	2503
22	or/16-21	19334
23	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	100805
24	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation").tw.	8521
25	((hand or manual\$) adj2 search\$).tw.	960
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	1557
27	(pooling or pooled or mantel haenszel).tw.	2264
28	(peto or dersimonian or "der simonian" or fixed effect).tw.	393
29	or/24-28	11039
30	and/23,29	6430
31	COMPARATIVE STUDIES/	43115

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32	(compar\$ adj5 stud\$).tw.	15772
33	CASE-CONTROL STUDIES/	12857
34	(case\$ adj2 control\$.ti,ab.	4184
35	RETROSPECTIVE DESIGN/	25599
36	exp PROSPECTIVE STUDIES/	62687
37	RETROSPECTIVE PANEL STUDIES/	39
38	PRETEST-POSTTEST DESIGN/	10765
39	CROSS SECTIONAL STUDIES/	22209
40	or/31-39	156561
41	or/15,22,30,40	225462
42	letter.pt.	49691
43	commentary.pt.	70142
44	editorial.pt.	79891
45	or/42-44	163544
46	41 not 45	209948
47	infan\$.tw.	21876
48	neonat\$.tw.	10922
49	newborn\$.tw.	5473
50	(small adj2 gestational age).tw.	321
51	(low adj birth adj weight).tw.	1846
52	(low adj birth?weight).tw.	696
53	lbw.tw.	230
54	vbw.tw.	279
55	(baby or babies).tw.	7939
56	toddler\$.tw.	1349
57	child.tw,hw.	134650
58	INFANT/	42683
59	INFANT, NEWBORN/	32999
60	CHILD, PRESCHOOL/	47867
61	(pediatri\$ or paediatri\$).tw.	22377
62	or/47-61	177869
63	GASTROENTERITIS/	556
64	gastroenterit\$.tw.	474
65	DIARRHEA/	2148
66	diarrh?ea?.tw.	2421
67	or/63-66	3934
68	INFUSIONS, INTRAVENOUS/	1602
69	HOME INTRAVENOUS THERAPY/	871
70	(IV or intravenous\$).tw.	13797
71	(parenteral\$ or infusion?).tw.	7336
72	INJECTIONS, INTRAVENOUS/	526
73	FLUID THERAPY/	1203
74	REHYDRATION SOLUTIONS/	96
75	(fluid? adj3 (supplement\$ or therap\$)).tw.	182
76	rehydrat\$.tw.	321
77	ORT.tw.	57
78	dioralyte.tw.	1
79	pedialyte.tw.	0

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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80	or/68-79	21908
81	BREAST FEEDING/	6600
82	MILK, HUMAN/	1315
83	(breastfe?d\$ or breast fe?d\$ or milk).tw.	7318
84	BOTTLE FEEDING/	705
85	INFANT FORMULA/	1106
86	(bottlefe?d\$ or bottle fe?d\$).tw.	379
87	WEANING/	486
88	wean\$.tw.	1413
89	INFANT FOOD/	227
90	FOOD/	2802
91	(food\$ or feed? or feeding? or fed or eat\$).tw.	29210
92	DIET THERAPY/	558
93	diet\$.tw.	20651
94	FASTING/	651
95	fasting.tw.	2685
96	(banana? or cereal? or yog?urt? or pasta? or rice?).tw.	1042
97	RESTRICTED DIET/	733
98	SOY MILK/	39
99	BEVERAGES/	848
100	CARBONATED BEVERAGES/	382
101	(carbonated beverage? or soda? or fizzy drink? or fizzy beverage?).tw.	169
102	MILK/	877
103	TEA/	694
104	(tea? or tisane?).tw.	17573
105	MINERAL WATERS/	23
106	(drink\$ adj3 water).tw.	523
107	FOOD FORMULATED/	758
108	FOOD, FORTIFIED/	775
109	((milk? or formula) adj3 (soy? or rice or protein\$ or hypoallergenic\$ or lactose or amino acid? or non dairy or nondairy)).tw.	268
110	((earl\$ or late or delay\$) adj3 (re introduc\$ or reintroduc\$ or re feed\$ or refeed\$)).tw.	13
111	((restrict\$ or unlimited or limited or dilute? or full strength or undilute?) adj3 (fluid? or liquid?)).tw.	144
112	(rice or yog?urt or banana? or pasta? or low sugar or low fat or complex carb\$ or bread? or toast or cookie? or biscuit?).tw.	1904
113	or/81-112	74080
114	and/62,67	1360
115	and/80,113	2154
116	and/114-115	50
117	limit 116 to english	48

# 6 Nutritional management

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*Clinical question*

Should children with gastroenteritis continue feeding during the rehydration phase of therapy?

**DNV\_feeding\_rehydration\_phase\_medline\_030108 (Ovid MEDLINE 1950 to November Week 2 2007)**

#	Searches	Results
1	randomized controlled trial.pt.	246761
2	controlled clinical trial.pt.	77022
3	DOUBLE BLIND METHOD/	94781
4	SINGLE BLIND METHOD/	11591
5	RANDOM ALLOCATION/	59778
6	RANDOMIZED CONTROLLED TRIALS/	52472
7	or/1-6	418296
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	92403
9	clinical trial.pt.	444490
10	exp CLINICAL TRIALS/	199910
11	(clinic\$ adj5 trial\$).tw,sh.	121169
12	PLACEBOS/	26956
13	placebo\$.tw,sh.	119903
14	random\$.tw,sh.	520862
15	or/8-14	874045
16	or/7,15	882795
17	META ANALYSIS/	7911
18	meta analysis.pt.	17222
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	30602
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	15366
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1812
22	or/17-21	42251
23	review\$.pt.	1342019
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psychlit or "web of science" or "science citation" or scisearch).tw.	27929
25	((hand or manual\$) adj2 search\$).tw.	3130
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	4661
27	(pooling or pooled or mantel haenszel).tw,sh.	27753
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1270
29	or/24-28	57345
30	23 and 29	23775
31	or/22,30	56696
32	letter.pt.	612627
33	case report.tw.	129971
34	comment.pt.	348760
35	editorial.pt.	213480
36	historical article.pt.	248519

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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37 or/32-36	1243797
38 16 not 37	849294
39 31 not 37	53492
40 or/38-39	876416
41 infan\$.tw.	240194
42 neonat\$.tw.	137944
43 newborn\$.tw.	95703
44 (small adj2 gestational age).tw.	3382
45 (low adj birth adj weight).tw.	11912
46 (low adj birth?weight).tw.	4369
47 lbw.tw.	1285
48 vlbw.tw.	1485
49 (baby or babies).tw.	35840
50 toddler\$.tw.	3095
51 (child adj3 (preschool or pre?school)).tw.	533
52 INFANT/	510148
53 exp INFANT, NEWBORN/	404468
54 CHILD, PRESCHOOL/	594055
55 (pediatri\$ or paediatri\$).tw.	128069
56 or/41-55	1229275
57 GASTROENTERITIS/	9078
58 gastroenteritis.tw.	8800
59 DIARRHEA/	31147
60 DIARRHEA, INFANTILE/	6078
61 diarrh?ea?.tw.	52452
62 or/57-61	74608
63 FLUID THERAPY/	10483
64 HOME INFUSION THERAPY/	486
65 REHYDRATION SOLUTIONS/	954
66 (fluid? adj5 (supplement\$ or therap\$)).tw.	3780
67 rehydrat\$.tw.	4686
68 ORT.tw.	457
69 dioralyte.tw.	10
70 pedialyte.tw.	14
71 INFUSIONS, INTRAVENOUS/	38021
72 INFUSIONS, PARENTERAL/	24210
73 (IV or intravenous\$).tw.	397131
74 (parenteral\$ or infusion?).tw.	196888
75 or/63-74	562105
76 BREAST FEEDING/	19228
77 MILK, HUMAN/	12595
78 (breastfe?d\$ or breast fe?d\$ or milk).tw.	72803
79 BOTTLE FEEDING/	2669
80 INFANT FORMULA/	805
81 (bottlefe?d\$ or bottle fe?d\$).tw.	1528
82 WEANING/	6769
83 wean\$.tw.	25302
84 INFANT FOOD/	8253



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85 FOOD/	18043
86 (food\$ or feed? or feeding or eat\$.tw.	282955
87 or/76-86	367982
88 and/56,62	23307
89 and/75,87	21000
90 and/88-89	622
91 and/40,90	140
92 limit 91 to (humans and english language)	127

**DNV\_feeding\_rehydration\_phase\_embase\_030108 (EMBASE 1980 to 2007 Week 52)**

#	Searches	Results
1	CLINICAL TRIALS/	485927
2	(clinic\$ adj5 trial\$.ti,ab,sh.	113965
3	SINGLE BLIND PROCEDURE/	7258
4	DOUBLE BLIND PROCEDURE/	67654
5	RANDOM ALLOCATION/	24752
6	CROSSOVER PROCEDURE/	19796
7	PLACEBO/	108111
8	placebo\$.ti,ab,sh.	157583
9	random\$.ti,ab,sh.	394617
10	RANDOMIZED CONTROLLED TRIALS/	152628
11	((single or double or triple or treble) adj (blind\$ or mask\$)).ti,ab,sh.	88367
12	randomi?ed control\$ trial\$.tw.	28004
13	or/1-12	799269
14	META ANALYSIS/	32663
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$).ti,ab,sh.	40471
16	(systematic\$ adj5 (review\$ or overview\$)).ti,sh,ab.	22875
17	(methodologic\$ adj5 (review\$ or overview\$)).ti,ab,sh.	1477
18	or/14-17	54915
19	review.pt.	848114
20	(medline or medlars or embase).ab.	19863
21	(scisearch or science citation index).ab.	575
22	(psychlit or psyclit or psychinfo or psycinfo or cinahl or cochrane).ab.	6296
23	((hand or manual\$) adj2 search\$.tw.	2289
24	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$.tw.	3623
25	(pooling or pooled or mantel haenszel).tw.	22630
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	696
27	or/20-26	46408
28	19 and 27	15566
29	or/18,28	63858
30	case study.tw,sh.	20889
31	abstract report.tw,sh.	71202
32	note.tw,sh.	241694
33	short survey.tw,sh.	400593
34	letter.tw,sh.	390103
35	case report.tw,sh.	977427

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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36	editorial.tw,sh.	243789
37	or/30-36	2224591
38	13 not 37	710244
39	29 not 38	27516
40	or/38-39	737760
41	NEWBORN/	172184
42	neonat\$.tw.	112110
43	newborn\$.tw.	61188
44	exp INFANT/	164351
45	infan\$.tw.	162539
46	SMALL FOR DATE INFANT/	2434
47	(small adj2 gestational age).tw.	3122
48	LOW BIRTH WEIGHT/	10704
49	VERY LOW BIRTH WEIGHT/	4056
50	(low adj birth adj weight).tw.	9713
51	(low adj birth?weight).tw.	3485
52	lbw.tw.	995
53	vlbw.tw.	1309
54	(baby or babies).tw.	25961
55	PRESCHOOL CHILD/	99537
56	(child adj3 (preschool or pre?school)).tw.	241
57	toddler\$.tw.	2370
58	(pediatri\$ or paediatri\$).tw.	108499
59	or/41-58	569004
60	GASTROENTERITIS/	6386
61	ACUTE GASTROENTERITIS/	1009
62	INFANTILE GASTROENTERITIS/	154
63	VIRAL GASTROENTERITIS/	169
64	gastroenterit\$.tw.	6145
65	INFANTILE DIARRHEA/	354
66	diarrh?ea?.tw.	40207
67	or/60-66	47808
68	INFUSION/	5113
69	INFUSION FLUID/	3662
70	(IV or intravenous\$.tw.	335903
71	infusion?.tw.	142432
72	INTRAVENOUS DRUG ADMINISTRATION/	269624
73	FLUID THERAPY/	5744
74	ORAL REHYDRATION SOLUTION/	1377
75	ORAL REHYDRATION THERAPY/	1030
76	REHYDRATION/	2464
77	(fluid? adj5 therap\$.tw.	2343
78	ORT.tw.	297
79	rehydrat\$.tw.	3629
80	dioralyte.tw.	32
81	pedialyte.tw.	65
82	or/68-81	602762
83	BREAST FEEDING/	13123

84	BREAST MILK/	8537
85	(breastfe?d\$ or breast fe?d\$ or milk).tw.	42260
86	BOTTLE FEEDING/	1002
87	INFANT FEEDING/	2940
88	ARTIFICIAL MILK/	4792
89	SIMILAC/	51
90	(bottlefe?d\$ or bottle fe?d\$).tw.	968
91	BABY FOOD/	491
92	FOOD/	11951
93	WEANING/	4589
94	(food\$ or feed? or feeding or eat\$).tw.	207823
95	or/83-94	245605
96	and/59,67	10395
97	and/82,95	14190
98	and/96-97	325
99	and/40,98	106
100	limit 99 to (human and english language)	97

**DNV\_feeding\_rehydration\_phase\_cinahl\_030108 (CINAHL 1982 to December Week 1 2007)**

#	Searches	Results
1	exp CLINICAL TRIALS/	50105
2	clinical trial.pt.	24633
3	(clinic\$ adj5 trial\$).tw,sh.	12795
4	SINGLE-BLIND STUDIES/	2554
5	DOUBLE-BLIND STUDIES/	9444
6	TRIPLE-BLIND STUDIES/	37
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	6949
8	RANDOM ASSIGNMENT/	16979
9	random\$.tw.	46842
10	RANDOMIZED CONTROLLED TRIALS/	38347
11	randomi?ed control\$ trial\$.tw.	10291
12	PLACEBOS/	3902
13	placebo\$.tw.	9720
14	or/1-13	83913
15	META ANALYSIS/	5947
16	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw.	4215
17	SYSTEMATIC REVIEW/	3456
18	systematic review.pt.	10264
19	(systematic\$ adj5 (review\$ or overview\$)).tw.	8021
20	LITERATURE REVIEW/	2503
21	or/15-20	19334
22	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	100805
23	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation").tw.	8521
24	((hand or manual\$) adj2 search\$).tw.	960
25	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	1557
26	(pooling or pooled or mantel haenszel).tw.	2264

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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27 (peto or dersimonian or "der simonian" or fixed effect).tw.	393
28 or/23-27	11039
29 and/22,28	6430
30 or/21,29	21021
31 letter.pt.	49691
32 commentary.pt.	70142
33 editorial.pt.	79891
34 or/31-33	163544
35 14 not 34	74342
36 30 not 34	18172
37 or/35-36	84979
38 infan\$.tw.	21876
39 neonat\$.tw.	10922
40 newborn\$.tw.	5473
41 (small adj2 gestational age).tw.	321
42 (low adj birth adj weight).tw.	1846
43 (low adj birth?weight).tw.	696
44 lbw.tw.	230
45 vlbw.tw.	279
46 (baby or babies).tw.	7939
47 toddler\$.tw.	1349
48 (child adj3 (preschool or pre?school)).tw.	96
49 INFANT/	42683
50 INFANT, NEWBORN/	32999
51 CHILD, PRESCHOOL/	47867
52 (pediatri\$ or paediatric\$).tw.	22377
53 or/38-52	107724
54 GASTROENTERITIS/	556
55 gastroenterit\$.tw.	474
56 DIARRHEA/	2148
57 diarrh?ea?.tw.	2421
58 or/54-57	3934
59 INFUSIONS, INTRAVENOUS/	1602
60 HOME INTRAVENOUS THERAPY/	871
61 (IV or intravenous\$.tw.	13797
62 (parenteral\$ or infusion?).tw.	7336
63 INJECTIONS, INTRAVENOUS/	526
64 FLUID THERAPY/	1203
65 REHYDRATION SOLUTIONS/	96
66 (fluid? adj5 (supplement\$ or therap\$)).tw.	250
67 rehydrat\$.tw.	321
68 ORT.tw.	57
69 dioralyte.tw.	1
70 pedialyte.tw.	0
71 or/59-70	21949
72 BREAST FEEDING/	6600
73 MILK, HUMAN/	1315
74 (breastfe?d\$ or breast fe?d\$ or milk).tw.	7318

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75 BOTTLE FEEDING/	705
76 INFANT FORMULA/	1106
77 (bottlefe?d\$ or bottle fe?d\$).tw.	379
78 WEANING/	486
79 wean\$.tw.	1413
80 INFANT FOOD/	227
81 FOOD/	2802
82 (food\$ or feed? or feeding or eat\$).tw.	28013
83 or/72-82	37178
84 and/53,58	1154
85 and/71,83	1104
86 and/84-85	32
87 and/37,86	8
88 limit 87 to english	7

# 7 Antibiotic therapy

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*Clinical question*

What is the incubation period or infectiousness of Shigella?

**DNV\_shigella\_medline\_080508 (Ovid MEDLINE 1950 to April Week 5 2008)**

#	Searches	Results
1	contagious\$.ti,ab.	3044
2	epidemic.ti,ab.	36615
3	incubation.ti,ab.	135682
4	infectious\$.ti,ab.	99997
5	infectiv\$.ti,ab.	33245
6	outbreak.ti,ab.	24011
7	transmi\$.ti,ab.	207838
8	or/1-7	506505
9	DYSENTERY, BACILLARY/	6291
10	exp SHIGELLA/	9195
11	(bacillary dysentery or shigella or shigellosis).ti,ab.	9332
12	(s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	1533
13	or/9-12	14722
14	and/8,13	1846
15	DYSENTERY, BACILLARY/ep, pc, tm	2109
16	Review.pt.	1380096
17	and/9,16	352
18	or/14-15,17	3479
19	limit 18 to yr= "2000 - 2008"	645
20	limit 19 to (english language and humans)	482
21	(letter or editorial or note).ti,ab.	90945
22	20 not 21	481
23	limit 22 to "all child (0 to 18 years)"	207

*Clinical question*

What is the incubation period or infectiousness of Campylobacter enteritis?

**DNV\_campylobacter\_medline\_080508 (Ovid MEDLINE 1950 to April Week 5 2008 )**

<b>#</b>	<b>Searches</b>	<b>Results</b>
1	CAMPYLOBACTER INFECTIONS/	4957
2	campylobacter.ti,ab.	9577
3	CAMPYLOBACTER JEJUNI/	2593
4	CAMPYLOBACTER COLI/	535
5	(c jejuni or c coli).ti,ab.	2584
6	or/1-5	10322
7	contagious\$.ti,ab.	3044
8	epidemic.ti,ab.	36615
9	incubation.ti,ab.	135682
10	infectious\$.ti,ab.	99997
11	infectiv\$.ti,ab.	33245
12	outbreak.ti,ab.	24011
13	transmi\$.ti,ab.	207838
14	or/7-13	506505
15	and/6,14	1411
16	CAMPYLOBACTER INFECTIONS/ep, pc, tm	1628
17	Review.pt.	1380096
18	and/1,17	563
19	or/15-16,18	2944
20	limit 19 to yr="2000 - 2008"	1060
21	limit 20 to (english language and humans)	695
22	(letter or editorial or note).pt.	845642
23	21 not 22	666
24	limit 23 to "all child (0 to 18 years)"	189

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

### *Clinical question*

What is the incubation period or infectiousness of salmonellosis?

### **DNV\_salmonellosis\_medline\_080508 (Ovid MEDLINE 1950 to April Week 5 2008 )**

<b>#</b>	<b>Searches</b>	<b>Results</b>
1	contagious\$.ti,ab.	3044
2	epidemic.ti,ab.	36615
3	incubation.ti,ab.	135682
4	infectious\$.ti,ab.	99997
5	infectiv\$.ti,ab.	33245
6	outbreak.ti,ab.	24011
7	transmi\$.ti,ab.	207838
8	or/1-7	506505
9	SALMONELLA INFECTIONS/	9268
10	SALMONELLA FOOD POISONING/	2417
11	salmonella.ti,ab.	44383
12	salmonellosis.ti,ab.	3446
13	exp SALMONELLA/	45347
14	or/9-13	60566
15	and/8,14	5817
16	review.pt.	1380096
17	and/9,16	711
18	SALMONELLA INFECTIONS/ep, pc, tm	2926
19	or/15,17-18	8439
20	limit 19 to "all child (0 to 18 years)"	2071
21	limit 20 to yr="2000 - 2008"	572
22	limit 21 to (english language and humans)	470
23	(letter or editorial or note).pt.	845642
24	22 not 23	454



*Clinical question*

What role, if any, does antibiotic therapy have in the treatment of children with gastroenteritis? What are the indications for administering antibiotics in children with the following bacterial forms of gastroenteritis?

**DNV\_antibiotic\_therapy\_medline\_160508 (Ovid MEDLINE 1950 to May Week 1 2008)**

#	Searches	Results
1	randomized controlled trial.pt.	256632
2	controlled clinical trial.pt.	78452
3	DOUBLE BLIND METHOD/	97854
4	SINGLE BLIND METHOD/	12110
5	RANDOM ALLOCATION/	61317
6	RANDOMIZED CONTROLLED TRIALS/	54568
7	or/1-6	433273
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	95389
9	clinical trial.pt.	451369
10	exp CLINICAL TRIAL/	546698
11	(clinic\$ adj5 trial\$).tw,sh.	127005
12	PLACEBOS/	27344
13	placebo\$.tw,sh.	123458
14	random\$.tw,sh.	541752
15	or/8-14	905053
16	or/7,15	909900
17	META ANALYSIS/	18371
18	meta analysis.pt.	18371
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	32591
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	16889
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1879
22	or/17-21	45356
23	review\$.pt.	1381694
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation" or scisearch).tw.	29612
25	((hand or manual\$) adj2 search\$).tw.	3311
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	5003
27	(pooling or pooled or mantel haenszel).tw,sh.	28741
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1307
29	or/24-28	60234
30	23 and 29	25221
31	CASE-CONTROL STUDIES/	98614
32	RETROSPECTIVE STUDIES/	299468
33	PROSPECTIVE STUDIES/	244638
34	COHORT STUDIES/	85426
35	(case\$ adj2 control\$).tw.	51054
36	(compar\$ adj3 stud\$).tw.	173479
37	or/31-36	835958
38	or/16,22,30	943045
39	letter.pt.	625940
40	comment.pt.	357185

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

41	editorial.pt.	220698
42	historical article.pt.	250776
43	or/39-42	1139223
44	38 not 43	915355
45	GASTROENTERITIS/	9340
46	gastroenteritis.ti,ab.	9094
47	DIARRHEA/	31666
48	DIARRHEA, INFANTILE/	6169
49	diarrh?ea?.ti,ab.	53769
50	or/45-49	76395
51	ANTI-INFECTIVE AGENTS/	27596
52	ANTI-BACTERIAL AGENTS/	174236
53	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$.tw.	201083
54	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).tw.	5442
55	microbicide?.tw.	894
56	(bactericide? or bacteriocidal agent?).tw.	37
57	ERYTHROMYCIN/	11620
58	(Erythromycin or Erythrocin or Abbotcin or Abomacetin or Benzamycin or Dotycin or Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	13775
59	CIPROFLOXACIN/	8159
60	(ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflux or Proquin XR or Septicide or Velomonit).ti,ab.	12261
61	exp TRIMETHOPRIM/	9055
62	(Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or Primsol or Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Timpex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	11735
63	GENTAMICINS/	14726
64	(Gentamicin or Alcomicin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	15534
65	CEFOTAXIME/	4561
66	(Cefotaxime or Cephotaxime).ti,ab.	5391
67	TETRACYCLINE/	16572
68	(Abrامycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambrامicina or Ambrامycin or Amycin or Bio-Tetra or Biocycline or Bristaciclin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or Lexacycline or Limecycline or Liquامycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegامycin or Orlycycline or Panمycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	23910

69	AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	2427
70	(Dirithromycin or Dynabac).ti,ab.	3475
71	AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Amipenix S or Ampen or Ampi or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobrittin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	133
72	(cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalitucsan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	11827
73	NALIDIXIC ACID/ FLUOROQUINOLONES/ CEFTRIAXONE/ (Cef?trixon? or Ceftriazone or Biotrakson or Rocephine).ti,ab.	14861
74	CHLORAMPHENICOL/ (Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyn or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetinor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Detreomycin or Detreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertilen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorous or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isophenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemiketina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or Viceton).ti,ab.	2593
75	ROXITHROMYCIN/ (Roxithromycin or Rulid or Rulide or surlid).ti,ab.	6848
76	COLISTIN/ (Colistin or Coly-mycin S or Polymyxin E).ti,ab.	3480
77		5124
78		17123
79		21234
80		655
81		958
82		1690
83		1365
84		

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

85	exp STREPTOMYCIN/	16492
86	(Streptomycin or kantrex).ti,ab.	12579
87	exp NEOMYCIN/	7659
88	(Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo-Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	35
89	or/51-88	398050
90	CAMPYLOBACTER INFECTIONS/	4959
91	CAMPYLOBACTER JEJUNI/	2595
92	CAMPYLOBACTER COLI/	535
93	campylobacter.ti,ab.	9583
94	(c jejuni or c coli).ti,ab.	2585
95	SALMONELLA INFECTIONS/	9271
96	SALMONELLA FOOD POISONING/	2418
97	salmonella.ti,ab.	44409
98	salmonellosis.ti,ab.	3449
99	exp SALMONELLA/	45369
100	exp SHIGELLA/	9198
101	DYSENTERY, BACILLARY/	6294
102	(bacillary dysentery or shigella or shigellosis).ti,ab.	9340
103	(s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	1533
104	YERSINIA INFECTIONS/	2766
105	exp YERSINIA/	7608
106	yersiniosis.ti,ab.	454
107	(yersinia or y pestis or y enterocolitica).ti,ab.	8386
108	ENTAMOEBIA HISTOLYTICA/	4332
109	(entamoeba histolytica or e histolytica).ti,ab.	4379
110	exp CRYPTOSPORIDIUM/	3510
111	(cryptosporidiosis or cryptosporidium).ti,ab.	5303
112	CRYPTOSPORIDIOSIS/	3401
113	ESCHERICHIA COLI O157/	3654
114	(escherichia coli O157\$ or e coli O157\$).ti,ab.	3878
115	GIARDIASIS/	3874
116	giardiasis.ti,ab.	1842
117	(travel?er\$ adj2 diarrh?ea?).ti,ab.	1011
118	ENTEROTOXIGENIC ESCHERICHIA COLI/	32
119	(enterotoxigenic Escherichia coli or ETEC).ti,ab.	2107
120	or/90-119	108324
121	and/50,89	8869
122	and/120-121	2624
123	limit 122 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)" or "child (6 to 12 years)")	1061
124	and/37,123	185
125	and/38,123	108

**DNV\_antibiotic\_therapy\_embase\_190508 (EMBASE 1980 to 2008 Week 20)**

#	Searches	Results
1	CLINICAL TRIALS/	501793
2	(clinic\$ adj5 trial\$.tw,sh.	118136
3	SINGLE BLIND PROCEDURE/	7535
4	DOUBLE BLIND PROCEDURE/	69208
5	RANDOM ALLOCATION/	25505
6	CROSSOVER PROCEDURE/	20249
7	PLACEBO/	113179
8	placebo\$.tw,sh.	163244
9	random\$.tw,sh.	407318
10	RANDOMIZED CONTROLLED TRIALS/	157553
11	((single or double or triple or treble) adj (blind\$ or mask\$)).tw,sh.	90152
12	randomi?ed control\$ trial\$.tw.	29560
13	or/1-12	823950
14	META ANALYSIS/	33329
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw,sh.	41840
16	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	24275
17	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1533
18	or/14-17	57175
19	review.pt.	872495
20	(medline or medlars or embase).ab.	20950
21	(scisearch or science citation index).ab.	609
22	(psychlit or psyclit or psychinfo or psycinfo or cinahl or cochrane).ab.	6805
23	((hand or manual\$) adj2 search\$).tw.	2402
24	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	3871
25	(pooling or pooled or mantel haenszel).tw.	23319
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	740
27	or/20-26	48414
28	19 and 27	16410
29	COMPARATIVE STUDY/	107429
30	(compar\$ adj5 stud\$).tw.	174365
31	CASE-CONTROL STUDY/	18010
32	RETROSPECTIVE STUDY/	89401
33	PROSPECTIVE STUDY/	74447
34	COHORT STUDY/	48646
35	(case\$ adj2 control\$).tw.	46769
36	or/29-35	485794
37	or/13,18,28	846804
38	abstract report.tw,sh.	71203
39	note.tw,sh.	248609
40	short survey.tw,sh.	406071
41	letter.tw,sh.	402599
42	editorial.tw,sh.	251764
43	or/38-42	1368998
44	37 not 43	766198

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

45	GASTROENTERITIS/	6565
46	ACUTE GASTROENTERITIS/	1050
47	INFANTILE GASTROENTERITIS/	156
48	VIRAL GASTROENTERITIS/	208
49	gastroenterit\$.tw.	6314
50	INFANTILE DIARRHEA/	361
51	diarrhea\$.tw.	41121
52	or/45-51	48969
53	ANTIINFECTIVE AGENT/	32620
54	ANTIBIOTIC AGENT/	115121
55	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$).ti,ab.	164569
56	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).ti,ab.	4956
57	microbicide?.ti,ab.	752
58	(bacteriocide? or bacteriocidal agent?).ti,ab.	25
59	ERYTHROMYCIN/	41408
60	(Erythromycin or Erythrocin or Abbotcin or Abomacetin or Benzamycin or Dotycin or Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	11642
61	CIPROFLOXACIN/	40347
62	(ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflux or Proquin XR or Septicide or Velomonit).ti,ab.	12732
63	TRIMETHOPRIM/	14360
64	(Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or Primsol or Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Trimplex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	9798
65	GENTAMICIN/	50355
66	(Gentamicin or Alcomicin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	12461
67	CEFOTAXIME/	23006
68	(Cefotaxim? or Cephотaxim? or Benaxima or Biosint or Cefradil or Claforan or Klaforan or Primafen or Fotexina or HR-756 or Kendrick or Ru-24756 or Taporin).ti,ab.	5907
69	TETRACYCLINE/	36909
70	(Abrامycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambrامicina or Ambrامycin or Amycin or Bio-Tetra or Biocycline or Bristacilin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or Lexacycline or Limecycline or Liquامycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegامycin or Orlycycline or Panمycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	16515
71	(Sustامycin or Tetrabid or 4 Epitetracycline).ti,ab.	19

72	AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	12342
73	(Azythromycin or Goxal or Toraseptol or Zentavion or Azadose or Azitrocin or Ultreon).ti,ab.	19
74	(Dirithromycin or Dynabac).ti,ab.	181
75	AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Amipenix S or Ampen or Ampi or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobrittin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	43797
76	(Aminobenzylpenicillin or Aminobenzyl penicillin or KS-R1 or Ukapen).ti,ab.	57
77	NALIDIXIC ACID/ (cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalitucsan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	8372
78	QUINOLONE DERIVATIVE/ (fluoroquinolone? or quinolone? or quinoline?).ti,ab.	2522
79	CEFTRIAXONE/ (Cef?triaxon? or Ceftriazone or Biotrakson or Rocephine or Benaxona or Cefaxona or Ceftrex or Lendacin or Longacef or Longaceph or Ro13-9904 or Ro 13-9904 or Rocephin or Rocefalin or Rocefim or Rocephine or Tacex or Terbac).ti,ab.	4456
80	CHLORAMPHENICOL/ (Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyln or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetinor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Dtreomycin or Dtreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertelen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isopenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or	22786
81	(Cef?triaxon? or Ceftriazone or Biotrakson or Rocephine or Benaxona or Cefaxona or Ceftrex or Lendacin or Longacef or Longaceph or Ro13-9904 or Ro 13-9904 or Rocephin or Rocefalin or Rocefim or Rocephine or Tacex or Terbac).ti,ab.	5484
82	CHLORAMPHENICOL/ (Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyln or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetinor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Dtreomycin or Dtreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertelen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isopenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or	29022
83	Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isopenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or	13565

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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	Viceton).ti,ab.	
87	(Kloramfenikol or Syntomycin).ti,ab.	1
88	ROXITHROMYCIN/ (Roxithromycin or Rulid or Rulide or surlid or Biaxsig or Claramid or Macrosil or Rotesan or Rotramin or Roxi 1A Pharma or Roxi Basics or Roxi TAD or roxi von ct or Roxi-Puren or Roxi-Q or Roxi-saar or Roxi-Wolff or Roxibeta or roxidura or Roxigamma or Roxihexal or Roxithro-Lich or RU 28965 or RU 965 or Infectoroxit).ti,ab.	3577
89	COLISTIN/ (Colistin or Coly-mycin S or Polymyxin E or Colimycin or Colisticin or Totazina).ti,ab.	1203
90	COLISTIN/ (Colistin or Coly-mycin S or Polymyxin E or Colimycin or Colisticin or Totazina).ti,ab.	4249
91	STREPTOMYCIN/ (Streptomycin? or kantrex or Estreptomicina or Strepto-Fatol or Strepto-Hefa).ti,ab.	977
92	STREPTOMYCIN/ (Streptomycin? or kantrex or Estreptomicina or Strepto-Fatol or Strepto-Hefa).ti,ab.	20362
93	NEOMYCIN/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	5478
94	NEOMYCIN/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	10671
95	or/53-95	38
96	CAMPYLOBACTER/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	384258
97	CAMPYLOBACTER JEJUNI/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	3199
98	CAMPYLOBACTER COLI/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	3904
99	campylobacter.ti,ab.	819
100	(c jejuni or c coli).ti,ab.	7314
101	SALMONELLOSIS/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	2067
102	SALMONELLA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	4515
103	salmonella.ti,ab.	9980
104	salmonellosis.ti,ab.	28315
105	SHIGELLA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	1491
106	SHIGELLOSIS/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	2878
107	(bacillary dysentery or shigella or shigellosis).ti,ab.	1565
108	(s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	5321
109	exp YERSINIA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	1096
110	YERSINIOSIS/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	6453
111	yersiniosis.ti,ab.	450
112	(yersinia or y pestis or y enterocolitica).ti,ab.	255
113	ENTAMOEBIA HISTOLYTICA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	5718
114	(entamoeba histolytica or e histolytica).ti,ab.	3970
115	CRYPTOSPORIDIUM/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	2934
116	CRYPTOSPORIDIOSIS/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	2242
117	(cryptosporidiosis or cryptosporidium).ti,ab.	2323
118	ESCHERICHIA COLI O157/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	4160
119	(escherichia coli O157\$ or e coli O157\$).ti,ab.	1447
120	GIARDIASIS/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	2546
121	GIARDIA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	1719
122	(giardia or giardiasis).ti,ab.	1009
123	TRAVELLER DIARRHEA/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	3772
124	(travel?er\$ adj2 diarrh?ea?).ti,ab.	1325
125	ENTEROTOXIGENIC ESCHERICHIA COLI/ (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo- Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	966
126	(enterotoxigenic Escherichia coli or ETEC).ti,ab.	130
127	or/97-127	1638
128		65498



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129 and/52,96	8690
130 and/128-129	2736
131 limit 130 to (infant or preschool child < 1 to 6 years> or school child < 7 to 12 years>)	382
132 and/36,131	48
133 and/37,131	41

**DNV\_antibiotic\_therapy\_cinahl\_190508 (CINAHL 1982 to May Week 3 2008)**

#	Searches	Results
1	exp CLINICAL TRIALS/	61830
2	clinical trial.pt.	32570
3	(clinic\$ adj5 trial\$.tw,sh.	15131
4	SINGLE-BLIND STUDIES/	2983
5	DOUBLE-BLIND STUDIES/	11407
6	TRIPLE-BLIND STUDIES/	39
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	8365
8	RANDOM ASSIGNMENT/	18192
9	random\$.tw.	54495
10	RANDOMIZED CONTROLLED TRIALS/	47777
11	CLINICAL TRIALS/	47777
12	randomi?ed control\$ trial\$.tw.	11867
13	PLACEBOS/	4410
14	placebo\$.tw.	11466
15	or/1-14	99852
16	META ANALYSIS/	6516
17	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw.	5112
18	SYSTEMATIC REVIEW/	3687
19	systematic review.pt.	11403
20	(systematic\$ adj5 (review\$ or overview\$)).tw.	9222
21	LITERATURE REVIEW/	2563
22	or/16-21	21787
23	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	110683
24	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation").tw.	9571
25	((hand or manual\$) adj2 search\$).tw.	1068
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	1784
27	(pooling or pooled or mantel haenszel).tw.	2709
28	(peto or dersimonian or "der simonian" or fixed effect).tw.	419
29	or/24-28	12627
30	and/23,29	7370
31	COMPARATIVE STUDIES/	44393
32	(compar\$ adj5 stud\$).tw.	18124
33	CASE-CONTROL STUDIES/	15388
34	(case\$ adj2 control\$).ti,ab.	4978
35	RETROSPECTIVE DESIGN/	31741
36	exp PROSPECTIVE STUDIES/	75980
37	RETROSPECTIVE PANEL STUDIES/	41
38	PRETEST-POSTTEST DESIGN/	11266

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

39	CROSS SECTIONAL STUDIES/	25656
40	or/31-39	181522
41	or/15,22,30	113264
42	letter.pt.	60042
43	commentary.pt.	80966
44	editorial.pt.	87517
45	or/42-44	185158
46	41 not 45	100734
47	GASTROENTERITIS/	628
48	gastroenterit\$.tw.	542
49	DIARRHEA/	2395
50	diarrh?ea?.tw.	2803
51	or/47-50	4491
52	ANTI-INFECTIVE AGENTS/	1148
53	ANTIBIOTICS/	8940
54	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$.ti,ab.	10583
55	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).ti,ab.	206
56	microbicide?.ti,ab.	170
57	(bactericide? or bacteriocidal agent?).ti,ab.	2
58	ERYTHROMYCIN/	363
59	(Erythromycin or Erythrocin or Abbotcin or Abomacetin or Benzamycin or Dotycin or Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	375
60	CIPROFLOXACIN/	445
61	(ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflor or Proquin XR or Septicide or Velomonit).ti,ab.	481
62	exp TRIMETHOPRIM/	367
63	(Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or Primsol or Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Trimpex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	319
64	GENTAMICINS/	324
65	(Gentamicin or Alcomicin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	390
66	CEFOTAXIME/	62
67	(Cefotaxime or Cephотaxime).ti,ab.	96
68	TETRACYCLINE/	149
69	(Abrامycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambrامicina or Ambrامycin or Amycin or Bio-Tetra or Biocycline or Bristacilin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or Lexacycline or Limecycline or Liquامycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegامycin or Orlycycline or Panمycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-	306

	CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	
70	AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	301
71	(Azythromycin or Goxal or Toraseptol or Zentavion or Azadose or Azitrocin or Ultreon).ti,ab.	1
72	(Dirithromycin or Dynabac).ti,ab.	5
74	AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Amipenix S or Ampen or Ampicil or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobritin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	149
75	(cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalitucsan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	257
76	ANTIINFECTIVE AGENTS, FLUOROQUINOLONE/ (fluoroquinolone? or quinolone? or quinoline?).ti,ab.	19
77	CEFTRIAXONE/ (Cef?trixon? or Ceftriazone or Biotrakson or Rocephine or Benaxona or Cefaxona or Ceftrex or Lendacin or Longacef or Longaceph or Ro13-9904 or Ro 13-9904 or Rocephin or Rocefalin or Rocefin or Rocephine or Tacex or Terbac).ti,ab.	487
78	CHLORAMPHENICOL/ (Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyin or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chlorical or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetin or Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Detreomycin or Detreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertilen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isophenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or	630
79		188
80		243
81		61
82		103

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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	Treomicetina or Tyfomycine or Unimycetin or Veticol or Viceton).ti,ab.	
83	(Roxithromycin or Rulid or Rulide or surlid or Biaxsig or Claramid or Macrosil or Rotesan or Rotramin or Roxi 1A Pharma or Roxi Basics or Roxi TAD or roxi von ct or Roxi-Puren or Roxi-Q or Roxi-saar or Roxi-Wolff or Roxibeta or roxidura or Roxigamma or Roxihexal or Roxithro-Lich or RU 28965 or RU 965 or Infectoroxit).ti,ab.	17
84	COLISTIN/	36
85	(Colistin or Coly-mycin S or Polymyxin E or Colimycin or Colisticin or Totazina).ti,ab.	45
86	STREPTOMYCIN/	52
87	(Streptomycin? or kantrex or Estreptomicina or Strepto-Fatol or Strepto-Hefa).ti,ab.	55
88	NEOMYCIN/	55
89	(Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo-Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	0
90	or/52-89	18261
91	CAMPYLOBACTER/	68
92	campylobacter.ti,ab.	171
93	(c jejuni or c coli).ti,ab.	29
94	CAMPYLOBACTER INFECTIONS/	147
95	SALMONELLA INFECTIONS/	337
96	salmonella.ti,ab.	396
97	salmonellosis.ti,ab.	64
98	exp SALMONELLA/	222
99	exp SHIGELLA/	82
100	DYSENTERY, BACILLARY/	33
101	(bacillary dysentery or shigella or shigellosis).ti,ab.	135
102	(s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	9
103	YERSINIA INFECTIONS/	37
104	yersiniosis.ti,ab.	3
105	(yersinia or y pestis or y enterocolitica).ti,ab.	69
106	AMEBIASIS/	81
107	(entamoeba histolytica or e histolytica).ti,ab.	36
108	CRYPTOSPORIDIUM/	66
109	(cryptosporidiosis or cryptosporidium).ti,ab.	148
110	CRYPTOSPORIDIOSIS/	126
111	ESCHERICHIA COLI INFECTIONS/	516
112	(escherichia coli O157\$ or e coli O157\$).ti,ab.	92
113	GIARDIASIS/	119
114	GIARDIA LAMBLIA/	31
115	(giardia or giardiasis).ti,ab.	135
116	(travel?er\$ adj3 diarrh?ea?).ti,ab.	141
117	(enterotoxigenic Escherichia coli or ETEC).ti,ab.	28
118	or/91-117	1945
119	and/51,90	644
120	and/118-119	132
121	limit 120 to (newborn infant or infant < 1 to 23 months > or preschool child < 2 to 5 years > or child < 6 to 12 years >)	34
122	and/40,121	11
123	and/41,121	7

*Clinical question*

What interventions, other than fluid therapy (if any) are cost-effective and safe for children with gastroenteritis?  
 B. What are the indications for administering antibiotics in children with the following bacterial forms of gastroenteritis?

**DNV\_alternative\_antibiotic\_therapies\_medline\_economics\_270508 (Ovid MEDLINE 1950 to May Week 2 2008)**

#	Searches	Results
1	ECONOMICS/	25664
2	"COSTS AND COST ANALYSIS"/	36861
3	COST ALLOCATION/	1853
4	COST-BENEFIT ANALYSIS/	43288
5	COST CONTROL/	17859
6	COST SAVINGS/	6000
7	COST OF ILLNESS/	10523
8	COST SHARING/	1390
9	HEALTH CARE COSTS/	16749
10	DIRECT SERVICE COSTS/	848
11	DRUG COSTS/	8552
12	EMPLOYER HEALTH COSTS/	988
13	HOSPITAL COSTS/	5597
14	HEALTH RESOURCES/	6302
15	"HEALTH SERVICES NEEDS AND DEMAND"/	29305
16	HEALTH PRIORITIES/	6771
17	HEALTH EXPENDITURES/	10178
18	CAPITAL EXPENDITURES/	1834
19	FINANCIAL MANAGEMENT/	14438
20	FINANCIAL MANAGEMENT, HOSPITAL/	6894
21	QUALITY-ADJUSTED LIFE YEARS/	3432
22	"DEDUCTIBLES AND COINSURANCE"/	1182
23	MEDICAL SAVINGS ACCOUNTS/	385
24	ECONOMICS, HOSPITAL/	8537
25	ECONOMICS, MEDICAL/	6986
26	ECONOMICS, NURSING/	3837
27	ECONOMICS, PHARMACEUTICAL/	1912
28	MODELS, ECONOMIC/	3130
29	MODELS, ECONOMETRIC/	2732
30	RESOURCE ALLOCATION/	5941
31	HEALTH CARE RATIONING/	8923
32	"FEES AND CHARGES"/	7353
33	BUDGETS/	7644
34	VALUE OF LIFE/	5035
35	(financ\$ or fiscal\$ or funding).ti.	13346
36	(QALY\$ or life?year\$).ti.	192
37	(econom\$ or cost\$).ti.	78577
38	pharmacoeconomic\$.ti.	1043
39	or/1-38	280317
40	GASTROENTERITIS/	9350

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

41	gastroenteritis.ti,ab.	9108
42	DIARRHEA/	31687
43	DIARRHEA, INFANTILE/	6171
44	diarrh?ea?.ti,ab.	53816
45	or/40-44	76460
46	ANTIEMETICS/	5610
47	(antiemetic? or anti emetic?).ti,ab.	4815
48	ANTIDIARRHEALS/	1276
49	ONDANSETRON/	2075
50	ondansetron.ti,ab.	2488
51	zofran.ti,ab.	65
52	GRANISETRON/	815
53	kytril.ti,ab.	34
54	granisetron.ti,ab.	975
55	tropisetron.ti,ab.	650
56	navoban.ti,ab.	48
57	DOPAMINE ANTAGONISTS/	7939
58	(antidopaminergic agent? or anti dopaminergic agent? or dopamine antagonist? or dopamine receptor antagonist? or dopamine receptor blocking).ti,ab.	3378
59	DOMPERIDONE/	1381
60	(domperidone or motilium or Nauzelin or Lopac D 122).ti,ab.	1684
61	DROPERIDOL/	1808
62	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?l or Vetkalm).ti,ab.	2083
63	CHLORPROMAZINE/	14864
64	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	9821
65	PROMETHAZINE/	2485
66	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	1579
67	(Procloperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	38
68	HISTAMINE H1 ANTAGONISTS/	12836
69	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	6632
70	CYCLIZINE/	217
71	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	1123
72	CINNARIZINE/	633
73	(cinnarizine or Abitate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or Katozeran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	525
74	(Mitronal or Olamin or Processine or Sedatromin or Sepan or Siptazin or Spaderizine).ti,ab.	2
75	HALOPERIDOL/	13532
76	(Aloperidin or Aloperidol? or Aloperidon or Apo-Haloperidol or Bioperidolo or Brotopon or Dozic or Dozix or Einalon S or Eukystol or Galoperidol or Hal?dol or haloperidol or Halojust or Halol or Halopal or Haloperido or Haloperidol Decanoate or Halopidol or Halopoidol or Halosten or Keselan or Lealgin Compositum or Linton or Mixidol or Novo-Peridol or Pekuces or Peluces or Peridol or Pernox or Pms Haloperidol or Serenace or Serenase or Serenelfi or Sernas or Sernel or Sigaperidol or Ulcolind or Uliolind or Vesalium).ti,ab.	14184
77	METHOTRIMEPRAZINE/	637

78	(Methotrimeprazine or Levomepromazine or No?inan or Levoprome or Neurocil or Neozine).ti,ab.	470
79	exp CHOLINERGIC ANTAGONISTS/ (cholinergic antagonist? or anticholinergic? or anti cholinergic? or Cholinolytic? or antimuscarinic? or anti muscarinic? or muscarinic antagonist? or atumin or Bentomine or Bently or Bently?? or Di-Syntramine or Diclloverina or Dicycloverin or Dicycloverine or Dicycloverinum or Diethylaminocarbethoxybicyclohexyl or Diocyl or Diocyl or Dyspas or Formulex or Kolantyl Hydrochloride or Mamiesan or Merbentyl or Oxityl-P or Procyclomin or Sawamin or Spasmoban or Wyovin).ti,ab.	66358
80	81 exp SCOPOLAMINE/ (scopolamine or Atro?uin or Atroscine or Beldavrin or Buscopan or Epoxytropine Tropate or Euscopol or Hydroscine Hydrobromide or Hyocine F Hydrobromide or Hyosceine or Hyoscine or Hyoscine Bromide or Hyoscine Hydrobromide or Hyoscyine Hydrobromide or Hyosol or Hysco or Isopto Hyoscine or Isoscopil or Kwells or L-Scopolamine).ti,ab. (Methscopolamine Bromide or Oscine or Scop or Scopamin or Scopine Tropate or Scopoderm-Tts or Scopolamine Bromide or Scopolamine Hydrobromide or Scopolamine Hydrobromide	12440
82	83 Trihydrate or Scopolamine Hyoscine or Scopolaminhydrobromid or Scopolaminium Bromide or Scopolammonium Bromide or Scopos or Sereen or Skopolamin or Tranaxine or Transcop or Transderm-Scop or Transderm-V or Triptone or scopine).ti,ab.	7475
83	84 PROPANTHELINE/ (Propantheline Bromide or Propanthelinium or Pro-Banthine or Propanthel).ti,ab.	5861
84	85 ADRENAL CORTEX HORMONES/ 86 STEROIDS/ (corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	914
85	87 BUDESONIDE/ (Trimethobenzamid\$ or Ametik hydrochloride or Benzacot or Nause-ton or Stemetec or Tebamide or Tigan or Tribenzagan or Trimazide).ti,ab.	520
86	88 GINGER/ (ginger or zingiber or z officinal\$).ti,ab.	169
87	89 Phosphorated carbohydrate solution.ti,ab.	42088
88	90 (emetrol or nausetrol).ti,ab.	23289
89	91 PROPOFOL/ (propofol or Diisopropylphenol or Diprivan or Disoprivan or Disoprofol or Rapinonet).ti,ab.	79094
90	92 exp MENTHA/ (mentha piperita or peppermint or menthol).ti,ab.	2635
91	93 muscimol.ti,ab.	70
92	94 MUSCIMOL/ 101 PARASYMPATHOLYTICS/ (spasmolytic? or anti spasmodic? or antispasmodic? or anti motility or antimotility or parasympatholytic?).ti,ab.	349
93	95 LOPERAMIDE/ (loperamid\$ or Diarr-Eze or Imodium or Kaopectate or Loperacap or Maalox Anti-Diarrheal or Pepto Diarrhea Control).ti,ab.	807
94	96 (motofen or lomotil).ti,ab.	3
95	97 exp CODEINE/ (codeine or Methylmorphine or Norcodeine or Codicept or Coducept).ti,ab.	0
96	98 PROTON PUMP INHIBITORS/ 109 OMEPRAZOLE/ 110 ESOMEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Aulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or	8177
97	99	9696
98	100	279
99	101	946
100	102	4405
101	103	3564
102	104	11610
103	105	3125
104	106	741
105	107	946
106	108	94
107	109	4109
108	110	2951
109	111	157
110		7247
111		7247
		7258

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

Elgam or Emeptron or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepral or Omeprazon or Omepral or Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulcesepp or Ulcometion or Ulcozol or Ulcsep or Ulsen or Ultop or Ulzol or Victrix or Zefxon or Zegerid or Zepral or Zimor or Zoltum).ti,ab.		
(Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or		
112	Lanzor or Lasoprol or Limpidex or Mesactol or Monoliton or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Aopton).ti,ab.	3146
113	(Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	28
114	(Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	99
115	(Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	47
116	smectite.ti,ab.	160
117	SILICATES/	2294
118	(polypyrrolidone or poly pyrrolidone).ti,ab.	12
119	PVPP.ti,ab.	52
120	smecta.ti,ab.	8
121	KAOLIN/	1602
122	kaolin.ti,ab.	1722
123	DIETARY FIBER/	10068
124	CHARCOAL/	5110
125	(activated adj2 charcoal).ti,ab.	2135
126	(charcodote or actidose or carbomix or norit).ti,ab.	76
127	METHYLCELLULOSE/	3127
128	(methylcellulose or cologel or celevac).ti,ab.	2811
129	THIOPHAN/	540
130	(Candoxatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	317
131	(Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsalsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	3482
132	kaopectate.ti,ab.	21
133	exp DIETARY SUPPLEMENTS/	18790
134	exp MICRONUTRIENTS/	406226
135	(vitamin? or micronutrient? or zinc).ti,ab.	156468
136	exp ANALGESICS/	351360
137	(acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	36319
138	(probiotics or lactobacillus or bifidobacterium).ti,ab.	12193
139	exp CULTURED MILK PRODUCTS/	1040
140	yog?urt.ti,ab.	1297
141	or/46-140	1127044
142	and/45,141	8707
143	ANTI-INFECTIVE AGENTS/	27620
144	ANTI-BACTERIAL AGENTS/	174396
145	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$).tw.	201271
146	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).tw.	5446
147	microbicide?.tw.	898



148	(bactericide? or bacteriocidal agent?).tw.	37
149	ERYTHROMYCIN/ (Erythromycin or Erythrocin or Abbotcin or Abomacetin or Benzamycin or Dotycin or Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	11622
150	150 CIPROFLOXACIN/ (ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflor or Proquin XR or Septicide or Velomonit).ti,ab.	13784
151	151 exp TRIMETHOPRIM/ (Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or Primsol or Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Trimpex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	8164
152	152 GENTAMICINS/ (Gentamicin or Alcomicin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	12272
153	153 CEFOTAXIME/ (Cefotaxime or Cephотaxime).ti,ab.	9058
154	154 TETRACYCLINE/ (Abrامycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambrامicina or Ambrامycin or Amycin or Bio-Tetra or Biocycline or Bristaciclin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or Lexacycline or Limecycline or Liquامycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegامycin or Orlycycline or Panمycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	11737
155	155 AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	14732
156	156 AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Ampipenix S or Ampen or Ampi or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobrittin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or	15543
157	157 (Dirithromycin or Dynabac).ti,ab.	4561
158	158 (Dirithromycin or Dynabac).ti,ab.	5391
159	159 (Dirithromycin or Dynabac).ti,ab.	16574
160	160 (Dirithromycin or Dynabac).ti,ab.	23933
161	161 (Dirithromycin or Dynabac).ti,ab.	2428
162	162 (Dirithromycin or Dynabac).ti,ab.	3477
163	163 (Dirithromycin or Dynabac).ti,ab.	133
164	164 (Dirithromycin or Dynabac).ti,ab.	11830
165	165 (Dirithromycin or Dynabac).ti,ab.	14873

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

	Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	
166	(cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalituksan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	3570
167	NALIDIXIC ACID/	2593
168	FLUOROQUINOLONES/	6855
169	CEFTRIAZONE/	3485
170	(Cef?trixon? or Ceftriazone or Biotrakson or Rocephine).ti,ab.	5129
171	CHLORAMPHENICOL/	17124
172	(Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetylin or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetinor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Detreomycin or Detreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertilen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isopenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or Viceton).ti,ab.	21239
173	ROXITHROMYCIN/	655
174	(Roxithromycin or Rulid or Rulide or surlid).ti,ab.	958
175	COLISTIN/	1692
176	(Colistin or Coly-mycin S or Polymyxin E).ti,ab.	1368
177	exp STREPTOMYCIN/	16493
178	(Streptomycin or kantrex).ti,ab.	12584
179	exp NEOMYCIN/	7661
180	(Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo-Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	35
181	or/143-180	398360
182	CAMPYLOBACTER INFECTIONS/	4969
183	CAMPYLOBACTER JEJUNI/	2606
184	CAMPYLOBACTER COLI/	538
185	campylobacter.ti,ab.	9600
186	(c jejuni or c coli).ti,ab.	2592
187	SALMONELLA INFECTIONS/	9277
188	SALMONELLA FOOD POISONING/	2419

189 salmonella.ti,ab.	44447
190 salmonellosis.ti,ab.	3449
191 exp SALMONELLA/	45399
192 exp SHIGELLA/	9201
193 DYSENTERY, BACILLARY/	6297
194 (bacillary dysentery or shigella or shigellosis).ti,ab.	9346
195 (s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	1535
196 YERSINIA INFECTIONS/	2768
197 exp YERSINIA/	7615
198 yersiniosis.ti,ab.	456
199 (yersinia or y pestis or y enterocolitica).ti,ab.	8393
200 ENTAMOEBIA HISTOLYTICA/	4334
201 (entamoeba histolytica or e histolytica).ti,ab.	4383
202 exp CRYPTOSPORIDIUM/	3512
203 (cryptosporidiosis or cryptosporidium).ti,ab.	5307
204 CRYPTOSPORIDIOSIS/	3402
205 ESCHERICHIA COLI O157/	3672
206 (escherichia coli O157\$ or e coli O157\$).ti,ab.	3897
207 GIARDIASIS/	3877
208 giardiasis.ti,ab.	1844
209 (travel?er\$ adj2 diarrh?ea?).ti,ab.	1011
210 ENTEROTOXIGENIC ESCHERICHIA COLI/	33
211 (enterotoxigenic Escherichia coli or ETEC).ti,ab.	2108
212 or/182-211	108413
213 and/181,212	16261
214 and/45,213	2628
215 or/142,214	11042
216 limit 215 to "all child (0 to 18 years)"	3591
217 and/39,216	41
218 limit 216 to ("costs (specificity)" or "economics (specificity)")	35
219 217 or 218	61

#### DNV\_alternative\_antibiotic\_therapies\_economics\_eedhta\_270508 (CLHTA, CLEED)

#	Searches	Results
1	GASTROENTERITIS/	29
2	gastroenteritis.ti,ab.	16
3	DIARRHEA/	56
4	DIARRHEA, INFANTILE/	10
5	diarrh?ea?.ti,ab.	32
6	or/1-5	93
7	ANTIEMETICS/	73
8	(antiemetic? or anti emetic?).ti,ab.	21
9	ANTIDIARRHEALS/	1
10	ONDANSETRON/	43
11	ondansetron.ti,ab.	33
12	zofran.ti,ab.	0
13	GRANISETRON/	13

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

14	kytril.ti,ab.	0
15	granisetron.ti,ab.	11
16	tropisetron.ti,ab.	3
17	navoban.ti,ab.	0
18	DOPAMINE ANTAGONISTS/	6
19	(antidopaminergic agent? or anti dopaminergic agent? or dopamine antagonist? or dopamine receptor antagonist? or dopamine receptor blocking).ti,ab.	2
20	DOMPERIDONE/	1
21	(domperidone or motilium or Nauzelin or Lopac D 122).ti,ab.	0
22	DROPERIDOL/	5
23	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?l or Vetkalm).ti,ab.	3
24	CHLORPROMAZINE/	4
25	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	2
26	PROMETHAZINE/	0
27	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	0
28	(Procloperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	0
29	HISTAMINE H1 ANTAGONISTS/	26
30	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	9
31	CYCLIZINE/	0
32	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	0
33	CINNARIZINE/	0
34	(cinnarizine or Abitrate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or Katoseran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	0
35	(Mitronal or Olamin or Processine or Sedatromin or Sepan or Siptazin or Spaderizine).ti,ab.	0
36	HALOPERIDOL/	39
37	(Aloperidin or Aloperidol? or Aloperidon or Apo-Haloperidol or Bioperidolo or Brotopon or Dozic or Dozix or Einalon S or Eukystol or Galoperidol or Hal?dol or haloperidol or Halojust or Halol or Halopal or Haloperido or Haloperidol Decanoate or Halopidol or Halopoidol or Halosten or Keselan or Lealgin Compositum or Linton or Mixidol or Novo-Peridol or Pekuces or Peluces or Peridol or Pernox or Pms Haloperidol or Serenace or Serenase or Serenelfi or Sernas or Sernel or Sigaperidol or Ulcolind or Uliolind or Vesalium).ti,ab.	20
38	METHOTRIMEPRAZINE/	0
39	(Methotrimeprazine or Levomepromazine or No?inan or Levoprome or Neurocil or Neozine).ti,ab.	0
40	exp CHOLINERGIC ANTAGONISTS/	75
41	(cholinergic antagonist? or anticholinergic? or anti cholinergic? or Cholinolytic? or antimuscarinic? or anti muscarinic? or muscarinic antagonist? or atumin or Bentomine or Bentlyl or Bentlyl?? or Di-Syntramine or Dicloverina or Dicycloverin or Dicycloverine or Dicycloverinum or Diethylaminocarbethoxybicyclohexyl or Diocyl or Diocyl or Dyspas or Formulex or Kolantyl Hydrochloride or Mamiesan or Merbentyl or Oxityl-P or Procyclomin or Sawamin or Spasmoban or Wyovin).ti,ab.	2
42	exp SCOPOLAMINE/	9
43	(scopolamine or Atro?uin or Atroscine or Beldavrin or Buscopan or Epoxytropine Tropate or Euscopol or Hydroscine Hydrobromide or Hyocine F Hydrobromide or Hyosceine or Hyoscine or Hyoscine Bromide or Hyoscine Hydrobromide or Hyoscyine Hydrobromide or Hyosol or Hysco or Isopto Hyoscine or Isoscopil or Kwells or L-Scopolamine).ti,ab.	0

44	(Methscopolamine Bromide or Oscine or Scop or Scopamin or Scopine Tropate or Scopoderm-Tts or Scopolamine Bromide or Scopolamine Hydrobromide or Scopolamine Hydrobromide Trihydrate or Scopolamine Hyoscine or Scopolaminhydrobromid or Scopolaminium Bromide or Scopolammonium Bromide or Scopos or Sereen or Skopolamin or Tranaxine or Transcop or Transderm-Scop or Transderm-V or Triptone or scopine).ti,ab.	0
45	PROPANTHELINE/	0
46	(Propantheline Bromide or Propanthelinium or Pro-Banthine or Propanthel).ti,ab.	0
47	ADRENAL CORTEX HORMONES/	97
48	STEROIDS/	19
49	(corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	81
50	BUDESONIDE/	35
51	(Trimethobenzamid\$ or Ametik hydrochloride or Benzacot or Nause-ton or Stemetec or Tebamide or Tigan or Tribenzagan or Trimazide).ti,ab.	0
52	GINGER/	0
53	(ginger or zingiber or z officinal\$).ti,ab.	0
54	Phosphorated carbohydrate solution.ti,ab.	0
55	(emetrol or nausea-trol).ti,ab.	0
56	PROPOFOL/	79
57	(propofol or Diisopropylphenol or Diprivan or Disoprivan or Disoprofol or Rapinovet).ti,ab.	51
58	exp MENTHA/	0
59	(mentha piperita or peppermint or menthol).ti,ab.	0
60	muscimol.ti,ab.	0
61	MUSCIMOL/	0
62	PARASYMPATHOLYTICS/	4
63	(spasmolytic? or anti spasmodic? or antispasmodic? or anti motility or antimotility or parasympatholytic?).ti,ab.	1
64	LOPERAMIDE/	2
65	(loperamid\$ or Diarr-Eze or Imodium or Kaopectate or Loperacap or Maalox Anti-Diarrheal or Pepto Diarrhea Control).ti,ab.	0
66	(motofen or lomitol).ti,ab.	0
67	exp CODEINE/	12
68	(codeine or Methyilmorphine or Norcodeine or Codicept or Coducept).ti,ab.	0
69	PROTON PUMP INHIBITORS/	0
70	OMEPRAZOLE/	113
71	ESOMEPRAZOLE/	113
72	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Aulcer or Belmazol or Ceyprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepal or Omeprazon or Omeprol or Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulcesep or Ulcometion or Ulcozol or Ulcsep or Ulsen or Uktop or Ulzol or Victrix or Zefxon or Zegerid or Zepal or Zimor or Zoltum).ti,ab.	40
73	(Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or Lanzor or Lasoprol or Limpidex or Mesactol or Monolitim or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Agopton).ti,ab.	8
74	(Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	0

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

75	(Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	0
76	(Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	0
77	smectite.ti,ab.	0
78	SILICATES/	0
79	(polypyrrolidone or poly pyrrolidone).ti,ab.	0
80	PVPP.ti,ab.	0
81	smecta.ti,ab.	0
82	KAOLIN/	0
83	kaolin.ti,ab.	0
84	DIETARY FIBER/	3
85	CHARCOAL/	0
86	(activated adj2 charcoal).ti,ab.	0
87	(charcodote or actidose or carbomix or norit).ti,ab.	0
88	METHYLCELLULOSE/	0
89	(methylcellulose or cologel or celevac).ti,ab.	0
90	THIOPHAN/	0
91	(Candoxatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	0
92	(Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsubsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	0
93	kaopectate.ti,ab.	0
94	exp DIETARY SUPPLEMENTS/	41
95	exp MICRONUTRIENTS/	139
96	(vitamin? or micronutrient? or zinc).ti,ab.	42
97	exp ANALGESICS/	673
98	(acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	47
99	(probiotics or lactobacillus or bifidobacterium).ti,ab.	2
100	exp CULTURED MILK PRODUCTS/	0
101	yog?urt.ti,ab.	0
102	or/7-101	1370
103	and/6,102	12
104	ANTI-INFECTIVE AGENTS/	145
105	ANTI-BACTERIAL AGENTS/	529
106	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$).tw.	1005
107	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).tw.	714
108	microbicide?.tw.	0
109	(bacteriocide? or bacteriocidal agent?).tw.	0
110	ERYTHROMYCIN/	26
111	(Erythromycin or Erythrocin or Abboticin or Abomacetin or Benzamycin or Dotycin or Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	6
112	CIPROFLOXACIN/	34
113	(ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflow or Proquin XR or Septicide or Velomonit).ti,ab.	15
114	exp TRIMETHOPRIM/	24
115	(Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or Primsol or	1

	Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Trimplex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	
116	GENTAMICINS/ (Gentamicin or Alcomycin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or	27
117	Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	10
118	CEFOTAXIME/	20
119	(Cefotaxime or Cephotoxime).ti,ab.	11
120	TETRACYCLINE/ (Abramycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambramicina or Ambramycin or Amycin or Bio-Tetra or Biocycline or Bristacilin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or Lexacycline or Limecycline or Liquamycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegamycin or Orlycycline or Panmycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	9
121		2
122	AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or	37
123	Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	13
124	(Dirithromycin or Dynabac).ti,ab.	0
125	AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Amipenix S or Ampen or Ampi or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobrittin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	17
126		9
127	(cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalitucsan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	0
128	NALIDIXIC ACID/	0
129	FLUOROQUINOLONES/	15
130	CEFTRIAZONE/	51
131	(Cef?triazon? or Ceftriazone or Biotrakson or Rocephine).ti,ab.	27
132	CHLORAMPHENICOL/ (Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyn or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or	2
133	Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or	2

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetinor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Detreomycin or Detreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertilen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isopenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemicetina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or Viceton).ti,ab.	
134 ROXITHROMYCIN/	5
135 (Roxithromycin or Rulid or Rulide or surlid).ti,ab.	5
136 COLISTIN/	3
137 (Colistin or Coly-mycin S or Polymyxin E).ti,ab.	0
138 exp STREPTOMYCIN/	1
139 (Streptomycin or kantrex).ti,ab.	0
140 exp NEOMYCIN/	4
141 (Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo-Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	0
142 or/104-141	1362
143 CAMPYLOBACTER INFECTIONS/	4
144 CAMPYLOBACTER JEJUNI/	0
145 CAMPYLOBACTER COLI/	1
146 campylobacter.ti,ab.	2
147 (c jejuni or c coli).ti,ab.	0
148 SALMONELLA INFECTIONS/	3
149 SALMONELLA FOOD POISONING/	2
150 salmonella.ti,ab.	3
151 salmonellosis.ti,ab.	1
152 exp SALMONELLA/	5
153 exp SHIGELLA/	2
154 DYSENTERY, BACILLARY/	1
155 (bacillary dysentery or shigella or shigellosis).ti,ab.	1
156 (s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	0
157 YERSINIA INFECTIONS/	0
158 exp YERSINIA/	0
159 yersiniosis.ti,ab.	0
160 (yersinia or y pestis or y enterocolitica).ti,ab.	0
161 ENTAMOEBIA HISTOLYTICA/	1
162 (entamoeba histolytica or e histolytica).ti,ab.	1
163 exp CRYPTOSPORIDIUM/	1
164 (cryptosporidiosis or cryptosporidium).ti,ab.	3



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165 CRYPTOSPORIDIOSIS/	3
166 ESCHERICHIA COLI O157/	4
167 (escherichia coli O157\$ or e coli O157\$).ti,ab.	2
168 GIARDIASIS/	3
169 giardiasis.ti,ab.	1
170 (travel?er\$ adj2 diarrh?ea?).ti,ab.	3
171 ENTEROTOXIGENIC ESCHERICHIA COLI/	0
172 (enterotoxigenic Escherichia coli or ETEC).ti,ab.	0
173 or/143-172	23
174 and/142,173	2
175 and/6,174	1
176 or/103,175	13
177 limit 176 to "all child (0 to 18 years)"	6

**DNV\_alternative\_antibiotic\_therapies\_economics\_embase\_270508 (EMBASE 1980 to 2008 Week 21)**

#	Searches	Results
1	ECONOMICS/	5570
2	HEALTH ECONOMICS/	10003
3	ECONOMIC EVALUATION/	4140
4	COST BENEFIT ANALYSIS/	28445
5	COST CONTROL/	16379
6	COST EFFECTIVENESS ANALYSIS/	54126
7	COST MINIMIZATION ANALYSIS/	1328
8	COST OF ILLNESS/	4502
9	COST UTILITY ANALYSIS/	2240
10	COST/	19905
11	HEALTH CARE COST/	58757
12	DRUG COST/	33082
13	HEALTH CARE FINANCING/	9092
14	HOSPITAL COST/	6212
15	SOCIOECONOMICS/	29881
16	ECONOMIC ASPECT/	69636
17	QUALITY-ADJUSTED LIFE YEARS/	3614
18	FINANCIAL MANAGEMENT/	22558
19	PHARMACOECONOMICS/	911
20	RESOURCE ALLOCATION/	7236
21	(financ\$ or fiscal\$ or funding).ti.	6097
22	(QALY\$ or life?year\$).ti.	146
23	(econom\$ or cost\$).ti.	51717
24	pharmacoeconomic\$.ti.	1267
25	or/1-24	292892
26	GASTROENTERITIS/	6572
27	ACUTE GASTROENTERITIS/	1052
28	INFANTILE GASTROENTERITIS/	156
29	VIRAL GASTROENTERITIS/	208
30	gastroenterit\$.tw.	6320
31	INFANTILE DIARRHEA/	361

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

32	diarrh?ea?.tw.	41162
33	or/26-32	49020
34	exp ANTIEMETIC AGENT/	89657
35	(antiemetic? or anti emetic?).ti,ab.	4766
36	ONDANSETRON/	7903
37	(ondansetron or zofran).ti,ab.	2801
38	GRANISETRON/	2991
39	(granisetron or kytril).ti,ab.	1105
40	TROPISETRON/	2480
41	(tropisetron or navoban).ti,ab.	722
42	DOPAMINE RECEPTOR BLOCKING AGENT/	4296
43	(dopamine antagonist? or antidopaminergic agent? or dopamine receptor antagonist?).ti,ab.	3094
44	DOMPERIDONE/	5442
45	(domperidone or motilium or Nauselin or Lopac D 122).ti,ab.	1730
46	DROPERIDOL/	5877
47	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?l or Vetkalm).ti,ab.	1584
48	CHLORPROMAZINE/	21840
49	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	5613
50	PROMETHAZINE/	7098
51	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	1263
52	(Procloperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	3
53	HISTAMINE H1 RECEPTOR ANTAGONIST/	3559
54	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	6178
55	CYCLIZINE/	812
56	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	854
57	CINNARIZINE/	1553
58	(cinnarizine or Abitrate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or Katoseran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	462
59	(Mitronal or Olamin or Processine or Sedatromin or Sepan or Siptazin or Spaderizine).ti,ab.	1
60	HALOPERIDOL/	33740
61	(Aloperidin or Aloperidol? or Aloperidon or Apo-Haloperidol or Bioperidolo or Brotopon or Dozic or Dozix or Einalon S or Eukystol or Galoperidol or Hal?dol or haloperidol or Halojust or Halol or Halopal or Haloperido or Haloperidol Decanoate or Halopidol or Halopoidol or Halosten or Keselan or Lealgin Compositum or Linton or Mixidol or Novo-Peridol or Pekuces or Peluces or Peridol or Pernox or Pms Haloperidol or Serenace or Serenase or Serenelfi or Sernas or Sernel or Sigaperidol or Ulcolind or Uliolind or Vesalium).ti,ab.	12686
62	METHOTRIMEPRAZINE/	3192
63	(Methotrimeprazine or Levomepromazine or No?inan or Levoprome or Neurocil or Neozine).ti,ab.	320
64	(antimuscarinic? or anti muscarinic? or muscarinic antagonist? or atumin or Bentomine or Bently or Bently?? or Di-Syntramine or Diccicloverina or Dicycloverin or Dicycloverine or Dicycloverinum or Diethylaminocarbethoxybicyclohexyl or Diocyl or Diocyl or Dyspas or Formulex or Kolantyl Hydrochloride or Mamiesan or Merbentyl or Oxityl-P or Procyclomin or Sawamin or Spasmoban or Wyovin).ti,ab.	3372

65	SCOPOLAMINE/ (scopolamine or Atro?uin or Atroscine or Beldavrin or Buscopan or Epoxytropine Tropate or Euscopol or Hydroscine Hydrobromide or Hyocine F Hydrobromide or Hyosceine or Hyoscine or Hyoscine Bromide or Hyoscine Hydrobromide or Hyoscyine Hydrobromide or Hyosol or Hysco or Isopto Hyoscine or Isoscopil or Kwell's or L-Scopolamine).ti,ab.	9130
66	(Methscopolamine Bromide or Oscine or Scop or Scopamin or Scopine Tropate or Scopoderm-Tts or Scopolamine Bromide or Scopolamine Hydrobromide or Scopolamine Hydrobromide Trihydrate or Scopolamine Hyoscine or Scopolaminhydrobromid or Scopolaminium Bromide or Scopolammonium Bromide or Scopos or Sereen or Skopolamin or Tranaxine or Transcop or Transderm-Scop or Transderm-V or Triptone or scopine).ti,ab.	5093
67	exp CHOLINERGIC RECEPTOR BLOCKING AGENT/	84451
69	PROPANTHELINE BROMIDE/ (Propantheline Bromide or Propanthelinium or Pro-Banthine or Propanthel).ti,ab.	1468
70	exp STEROID/ (corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	110
71	exp STEROID/ (corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	576688
72	BUDESONIDE/ (Trimethobenzamid\$ or Ametik hydrochloride or Benzacot or Nause-ton or Stemetec or Tebamide or Tigan or Tribenzagan or Trimazide).ti,ab.	60947
73	GINGER/ (ginger or zingiber or z officinal\$).ti,ab.	9142
74	Phosphorated carbohydrate solution.ti,ab.	37
75	BELIDRAL/ (emetrol or nasetrol).ti,ab.	938
76	PROPOFOL/ (propofol or Diisopropylphenol or Diprivan or Disoprivan or Disoprofol or Rapinonet).ti,ab.	818
77	mentha.hw.	3
78	(mentha or pepperment or menthol).ti,ab.	5
79	MUSCIMOL/ muscimol.ti,ab.	0
80	SPASMOLYTIC AGENT/ DIGESTIVE TRACT SPASMOLYTIC AGENT/ (spasmolytic? or anti spasmodic? or antispasmodic? or anti motility or antimotility or parasympatholytic?).ti,ab.	19643
81	LOPERAMIDE/ (loperamid\$ or Diarr-Eze or Imodium or Kaopectate or Loperacap or Maalox Anti-Diarrheal or Pepto Diarrhea Control).ti,ab.	10484
82	codeine.hw.	469
83	(codeine or MethyImorphine or Norcodeine or Codicept or Coducept).ti,ab.	1325
84	PROTON PUMP INHIBITOR/ OMEPRAZOLE/ ESOMEPRAZOLE/ LANSOPRAZOLE/ PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	70
85	codeine.hw.	2127
86	(codeine or MethyImorphine or Norcodeine or Codicept or Coducept).ti,ab.	4180
87	codeine.hw.	969
88	(codeine or MethyImorphine or Norcodeine or Codicept or Coducept).ti,ab.	29
89	codeine.hw.	10960
90	(codeine or MethyImorphine or Norcodeine or Codicept or Coducept).ti,ab.	2676
91	PROTON PUMP INHIBITOR/ OMEPRAZOLE/ ESOMEPRAZOLE/ LANSOPRAZOLE/ PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	10990
92	OMEPRAZOLE/ ESOMEPRAZOLE/ LANSOPRAZOLE/ PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	16445
93	OMEPRAZOLE/ ESOMEPRAZOLE/ LANSOPRAZOLE/ PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	1872
94	LANSOPRAZOLE/ PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	5031
95	PANTOPRAZOLE/ RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	2936
96	RABEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	1689
97	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	7987
98	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	
99	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	
100	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Ulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta 20 or Omed or Omegast or Omepreal or Omeprazon or Omeprol or	

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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	Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulcesepp or Ulcometion or Ulcozol or Ulcsep or Ulsen or Ultop or Ulzol or Victrix or Zefxon or Zegerid or Zepral or Zimor or Zoltum).ti,ab.	
	(Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or	
101	Lanzor or Lasoprol or Limpidex or Mesactol or Monolitum or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Agypton).ti,ab.	2387
102	(Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	28
103	(Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	103
104	(Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	43
105	SILICATE/	2010
106	(polypyrrolidone or poly pyrrolidone).ti,ab.	13
107	PVPP.ti,ab.	47
108	smecta.ti,ab.	15
109	KAOLIN/	1400
110	kaolin.ti,ab.	1455
111	DIETARY FIBRE/	5983
112	CHARCOAL/	2239
113	ACTIVATED CARBON/	6766
114	(activated adj2 charcoal).ti,ab.	1985
115	(charcodote or actidose or carbomix or norit).ti,ab.	74
116	METHYLCELLULOSE/	2400
117	(methylcellulose or cologel or celevac).ti,ab.	2680
118	THIOPHAN/	913
119	(Candoxatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	333
120	(Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsubsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	3071
121	kaopectate.ti,ab.	17
122	BISMUTH SALICYLATE/	1385
123	ANTIDIARRHEAL AGENT/	1929
124	exp SUPPLEMENTATION/	62407
125	TRACE ELEMENT/	9570
126	(vitamin? or micronutrient? or zinc).ti,ab.	121839
127	ANALGESIC AGENT/	28519
128	(acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	35458
129	PROBIOTIC AGENT/	5078
130	(probiotics or lactobacillus or bifidobacterium).ti,ab.	10209
131	DAIRY PRODUCT/	2490
132	yog?urt.ti,ab.	1082
133	or/34-132	1042336
134	and/33,133	9093
135	ANTIINFECTIVE AGENT/	32660
136	ANTIBIOTIC AGENT/	115272
137	(antimicrob\$ or anti microb\$ or antibiotic\$ or anti biotic\$).ti,ab.	164761
138	((anti-infective\$ or antiinfective\$ or antibacteria\$ or anti-bacteria\$) adj2 (agent\$ or drug\$)).ti,ab.	4960
139	microbicide?.ti,ab.	755

140	(bacteriocide? or bacteriocidal agent?).ti,ab.	25
141	ERYTHROMYCIN/ (Erythromycin or Erythrocin or Abbotcin or Abomacetin or Benzamycin or Dotycin or	41437
142	Dumotrycin or Eritrocina or Ermycin or Eryc?n or Erycette or Erycinum or Ilotycin or Mephامycin or Pantomicina or Pfizer-e or Propiocine or Robimycin or Sansac or Stiemycin or Taimoxin or Therامycin or Torlamicina or Wemid or Wyامycin).ti,ab.	11650
143	CIPROFLOXACIN/ (ciprofloxacin? or Bacquinor or Baycip or Bernoflox or Ciflox?? or Ciprinol or Cipro or Ciprobay or	40412
144	Ciprocinol or Ciprodar or Cipromycin or Ciproquinol or Ciprox?n or Flociprin or Floxin or Ocuflux or Proquin XR or Septicide or Velomonit).ti,ab.	12746
145	TRIMETHOPRIM/ (Abacin or Abaprim or Alprim or Apo-Sulfatrim or Bactin or Bactramin or Bactrim or Baktar or Chemotrim or Comox or Cotrim or Drylin or Eusaprim or Fectrim or Gantaprim or Gantrim or Idotrim or Imexim or Instalac or Ipral or Kepinol or Laratrim or Lidaprim or Linaris or Methoprim or Microtrim or Monoprim or Monotrim?? or Nopil or Oraprim or Priloprim or Primosept or	14370
146	Primsol or Proloprim or Septra or Septrin or Sigaprim or Sulfamethoprim or Sulfamethoxazole or Sulfatrim or Sulfotrim or Sulmeprim or Sulprim or Sumetrolim or Supracombin or Suprim or Syraprim or Teleprim or Thiocuran or Tiempe or Tmp-Ratiopharm or Trigonyl or Trimanyl or Trimesulf or Trimeth?Sulfa or Trimeth?opri?m or Trimetoprim or Trim?xazole or Trimogal or Trimopan or Trimpex or Triprim or Unitrim or Uretrim or Uro-Septra or Uroplus or Wellcoprim).ti,ab.	9810
147	GENTAMICIN/ (Gentamicin or Alcomicin or Apogen or Bristagen or G-Mycin or Garamycin or Genoptic or	50403
148	Gentacidin or Gentafair or Gentak or Gentamar or Jenamicin or Ocu-Mycin or Spectro-Genta or U-gencin).ti,ab.	12465
149	CEFOTAXIME/ (Cefotaxim? or Cephотaxim? or Benaxima or Biosint or Cefradil or Claforan or Klaforan or	23033
150	Primafen or Fotexina or HR-756 or Kendrick or Ru-24756 or Taporin).ti,ab.	5914
151	TETRACYCLINE/ (Abrامycin or Abricycline or Achromycin or Achromycin V or Actisite or Agromicina or Ambrامicina or Ambrامycin or Amycin or Bio-Tetra or Biocycline or Bristaciclin or Bristaciclina or Bristacycline or Cefracycline or Ciclibion or Copharlan or Criseociclina or Cyclopar or Cytome or Democracin or Deschlorobiomycin or Dumocyclin or enterocycline or Hostacyclin or	36951
152	Lexacycline or Limecycline or Liquامycin or Medocycline or Mericycline or Micycline or Neocycline or Oletetrin or Omegامycin or Orlycycline or Panمycin or Polycycline or Polyotic or Purocyclina or Resteclin or Retet or Robitet or Roviciclina or Tetracycline or Solvocin or Sumycin or TAC or Tetra-CO or Tetrabon or Tetrachel or Tetracycl or Tetracyn or Tetradecin or Tetrafil or Tetramed or Tetraverine or Tetrex or Topicycline or Tsiklomistsin or Tsiklomitsin or Veracin or Vetacyclinum).ti,ab.	16529
153	(Sustامycin or Tetrabid or 4 Epitetracycline).ti,ab.	19
154	AZITHROMYCIN/ (Azithramycine or Azithromycin? or Azenil or Azitromax or Aziwok or Aztrin or Hemomycin or	12360
155	Misultina or Mixoterin or Setron or Sumamed or Tobil or Tromix or Zeto or Zifin or Zithrax or Zithromax or Zitrim or Zitromax or Zitrotek or Vinzam or Zmax or Zitrocin or Azibiot or Azifine).ti,ab.	3673
156	(Azythromycin or Goxal or Toraseptol or Zentavion or Azadose or Azitrocin or Ultreon).ti,ab.	19
157	(Dirithromycin or Dynabac).ti,ab.	181
158	AMPICILLIN/ (Ampicillin? or Acillin or Adobacillin or Alpen or Amblosin or Amcill or Amfipen or Amipenix S or Ampen or Ampi or Ampichel or Ampicil or Ampicillin A or Ampicin or Ampifarm or Ampikel or Ampimed or Ampipenin or Ampipenin, Nt3 or Ampiscel or Ampisyn or Ampivax or Ampivet or	43833
159	Amplacilina or Amplin or Amplipenyl or Amplisom or Amplital or Ampy-Penyl or Austrapen or Binotal or Bonapicillin or Britacil or Campicillin or Cimex or Copharcilin or D-Cillin or Delcillin or Deripen or Divercillin or Doktacillin or Duphacillin or Geocillin or Grampenil or Guicitrin? or Lifeampil or Morepen or Norobrittin or Nuvapen or Olin Kid or Omnipen or Orbicilina or Pen A	11168

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

	or Pen Ampil or Penbristol or Penbritin or Penbritin-S or Penbrock or Penicline or Penimic or Pensyn or Pentrex?? or Pfizerpen A or Polycillin or Ponecil or Princillin or Principen or Qidamp or Racenacillin or Rosampline or Roscillin or Semicillin or Servicillin or Spectrobid or Sumipanto or Supen or Synpenin or Texcillin or Tokiocillin or Tolomol or Totacillin or Totalciclina or Totapen or Trifacilina or Ultrabion or Ultrabron or Vampen or Viccillin or Wypicil).ti,ab.	
160	(Aminobenzylpenicillin or Aminobenzyl penicillin or KS-R1 or Ukapen).ti,ab.	57
161	NALIDIXIC ACID/	8383
162	(cybis or Dixiben or Dixinal or Eucistin or Innoxalon or Jicsron or Nalidic acid or Nalidixan or Nalidixate or Nalidixic acid or Nalidixin or Nalidixinic acid or Nalituksan or Nalix or Nalurin or Naxuril or NegGram or Negram or Nevigramon or Nogram or Sicmylon or Unaserus or Urisal or Uronidix or Wintomylon or Wintron or naladixic acid).ti,ab.	2525
163	QUINOLONE DERIVATIVE/	4465
164	(fluoroquinolone? or quinolone? or quinoline?).ti,ab.	18710
165	CEFTRIAZONE/	22830
166	(Cef?triaxon? or Ceftriazone or Biotrakson or Rocephine or Benaxona or Cefaxona or Ceftrex or Lendacin or Longacef or Longaceph or Ro13-9904 or Ro 13-9904 or Rocephin or Rocefalin or Rocefin or Rocephine or Tacex or Terbac).ti,ab.	5489
167	CHLORAMPHENICOL/	29053
168	(Chloramphenicol? or Chloramfenikol or Ak-chlor or Alficetyn or Ambofen or Amphenicol or Amphicol or Amseclor or Anacetin or Aquamycetin or Austracil or Austracol or Biocetin or Biophenicol or Catilan or Chemicetin or Chemicetina or Chlomin or Chlomycol or Chlora-Tabs or Chloracol or Chloramex or Chloramficin or Chloramfilin or Chloramsaar or Chlorasol or Chloricol or Chlornitromycin or Chloro-25 vetag or Chlorocaps or Chlorocid or Chlorocid S or Chlorocide or Chlorocidin C or Chlorocidin C tetran or Chlorocol or Chlorofair or Chloroject L or Chloromax or Chloromycetin or Chloromycetny or Chloromyxin or Chloronitrin or Chloroptic or Chlorovules or Cidocetine or Ciplamycetininor Cloramfen or Cloramficin or Cloramicol or Cloramidina or Clorocyn or Cloromisan or Clorosintex or Comycetin or Cylphenicol or Desphen or Detreomycin or Detreomycine or Dextromycetin or Doctamicina or Econochlor or Elase-Chloromycetin or Embacetin or Emetren or Enicol or Enteromycetin or Erbaplast or Ertilen or Farmicetina or Farmitcetina or Fenicol or Globenicol or Glorious or Halomycetin or Hortfenicol or Intramycetin or Isicetin or Ismicetina or Isophenicol or Isopto fenicol or Juvamycetin or Kamaver or Kemicetina or Kemicetine or Klorita or Klorocid S or Leukamycin or Leukomyan or Leukomycin or Levomicetina or Levomitsetin or Levomycetin or Loromisan or Loromisin or Mastiphen or Mediamycetine or Medichol or Micloretin or Micochlorine or Micochlorina or Microcetina or Mychel or Mychel-Vet or Mycinol or Normimycin V or Novochlorocap or Novomycetin or Novophenicol or Oftalent or Oleomycetin or Opclor or Opelcor or Ophthochlor or Ophthocort or Optomycin or Otachron or Otophen or Pantovernil or Paraxin or Pentamycetin or Quemiketina or Rivomycin or Romphenil or Ronphenil or Septicol or Sificetina or Sintomicetina or Sintomicetine R or Sno-Phenicol or Sopamycetin or Spectro-Chlor or Stanomycetin or Synthomycetin or Synthomycetine or Synthomycine or Tega-Cetin or Tevcocin or Tevcosin or Tifomycin or Tifomycine or Tiromycetin or Treomicetina or Tyfomycine or Unimycetin or Veticol or Viceton).ti,ab.	13573
169	(Kloramfenikol or Syntomycin).ti,ab.	1
170	ROXITHROMYCIN/	3582
171	(Roxithromycin or Rulid or Rulide or surlid or Biaxsig or Claramid or Macrosil or Rotesan or Rotramin or Roxi 1A Pharma or Roxi Basics or Roxi TAD or roxi von ct or Roxi-Puren or Roxi-Q or Roxi-saar or Roxi-Wolff or Roxibeta or roxidura or Roxigamma or Roxihexal or Roxithro-Lich or RU 28965 or RU 965 or Infectoroxit).ti,ab.	1206
172	COLISTIN/	4257
173	(Colistin or Coly-mycin S or Polymyxin E or Colimycin or Colisticin or Totazina).ti,ab.	978
174	STREPTOMYCIN/	20385
175	(Streptomycin? or kantrex or Estreptomicina or Strepto-Fatol or Strepto-Hefa).ti,ab.	5481
176	NEOMYCIN/	10677
177	(Biosol or Bykomycin or Endomixin or Fradiomycin or Fradiomycin Sulfate or Fraquinol or Lidamycin Creme or Myacine or Myacyne or Mycifradin or Myciguent or Neo-Fradin or Neo-	38

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Mantle Creme or Neo-Rx or Neobiotic or Neobrettin or Neofracin or Neolate or Neomix or Neosulf or Nivemycin or Tuttomycin or Vonamycin Powder V).ti,ab.	
178 or/135-177	384674
179 CAMPYLOBACTER/	3204
180 CAMPYLOBACTER JEJUNI/	3908
181 CAMPYLOBACTER COLI/	820
182 campylobacter.ti,ab.	7322
183 (c jejuni or c coli).ti,ab.	2068
184 SALMONELLOSIS/	4522
185 SALMONELLA/	9998
186 salmonella.ti,ab.	28349
187 salmonellosis.ti,ab.	1492
188 SHIGELLA/	2880
189 SHIGELLOSIS/	1565
190 (bacillary dysentery or shigella or shigellosis).ti,ab.	5325
191 (s dysenteriae or s flexneri or s boydii or s sonnei).ti,ab.	1096
192 exp YERSINIA/	6460
193 YERSINIOSIS/	450
194 yersiniosis.ti,ab.	255
195 (yersinia or y pestis or y enterocolitica).ti,ab.	5722
196 ENTAMOEBIA HISTOLYTICA/	3973
197 (entamoeba histolytica or e histolytica).ti,ab.	2936
198 CRYPTOSPORIDIUM/	2246
199 CRYPTOSPORIDIOSIS/	2327
200 (cryptosporidiosis or cryptosporidium).ti,ab.	4168
201 ESCHERICHIA COLI O157/	1448
202 (escherichia coli O157\$ or e coli O157\$).ti,ab.	2551
203 GIARDIASIS/	1721
204 GIARDIA/	1010
205 (giardia or giardiasis).ti,ab.	3775
206 TRAVELLER DIARRHEA/	1326
207 (travel?er\$ adj2 diarrh?ea?).ti,ab.	967
208 ENTEROTOXIGENIC ESCHERICHIA COLI/	130
209 (enterotoxigenic Escherichia coli or ETEC).ti,ab.	1640
210 or/179-209	65568
211 and/178,210	14111
212 and/33,211	2739
213 or/134,212	11153
214 limit 213 to (infant or preschool child <1 to 6 years> or school child <7 to 12 years> or adolescent <13 to 17 years>)	1824
215 and/25,214	65
216 limit 214 to "economics (2 or more terms min difference)"	40
217 215 or 216	79

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# 8 Other therapies

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*Clinical question*

What interventions, other than fluid therapy (if any) are effective and safe for children with gastroenteritis? Are any of the following effective and safe for children under 5, with gastroenteritis?

**DNV\_alternative\_therapies\_medline\_220408 (Ovid MEDLINE 1950 to April Week 2 2008)**

#	Searches	Results
1	randomized controlled trial.pt.	254671
2	controlled clinical trial.pt.	78053
3	DOUBLE BLIND METHOD/	97156
4	SINGLE BLIND METHOD/	11987
5	RANDOM ALLOCATION/	60879
6	RANDOMIZED CONTROLLED TRIALS/	53828
7	or/1-6	429697
8	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	94669
9	clinical trial.pt.	449571
10	exp CLINICAL TRIAL/	542475
11	(clinic\$ adj5 trial\$).tw,sh.	125725
12	PLACEBOS/	27235
13	placebo\$.tw,sh.	122393
14	random\$.tw,sh.	536972
15	or/8-14	897288
16	or/7,15	902103
17	META ANALYSIS/	18023
18	meta analysis.pt.	18023
19	(metaanaly\$ or meta-analy\$ or (meta adj analy\$)).tw,sh.	32029
20	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	16538
21	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1851
22	or/17-21	44536
23	review\$.pt.	1372562
24	(medline or medlars or embase or cinahl or cochrane or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation" or scisearch).tw.	29012
25	((hand or manual\$) adj2 search\$).tw.	3260
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw,sh.	4912
27	(pooling or pooled or mantel haenszel).tw,sh.	28466
28	(peto or dersimonian or der simonian or fixed effect).tw,sh.	1271
29	or/24-28	59369
30	23 and 29	24655
31	CASE-CONTROL STUDIES/	97206
32	RETROSPECTIVE STUDIES/	297127
33	PROSPECTIVE STUDIES/	242858
34	COHORT STUDIES/	84297
35	(case\$ adj2 control\$).tw.	50539



36	(compar\$ adj3 stud\$).tw.	172205
37	or/31-36	828850
38	or/16,22,30,37	1596848
39	letter.pt.	623241
40	comment.pt.	354750
41	editorial.pt.	218994
42	historical article.pt.	249999
43	or/39-42	1133545
44	38 not 43	1554654
45	GASTROENTERITIS/	9307
46	gastroenteritis.ti,ab.	9048
47	DIARRHEA/	31577
48	DIARRHEA, INFANTILE/	6163
49	diarrh?ea?.ti,ab.	53531
50	or/45-49	76088
51	ANTIEMETICS/	5577
52	(antiemetic? or anti emetic?).ti,ab.	4791
53	ANTIDIARRHEALS/	1269
54	ONDANSETRON/	2063
55	ondansetron.ti,ab.	2477
56	zofran.ti,ab.	64
57	GRANISETRON/	813
58	kytril.ti,ab.	34
59	granisetron.ti,ab.	973
60	tropisetron.ti,ab.	649
61	navoban.ti,ab.	48
62	DOPAMINE ANTAGONISTS/	7893
63	(antidopaminergic agent? or anti dopaminergic agent? or dopamine antagonist? or dopamine receptor antagonist? or dopamine receptor blocking).ti,ab.	3362
64	DOMPERIDONE/	1370
65	(domperidone or motilium or Nauzelin or Lopac D 122).ti,ab.	1672
66	DROPERIDOL/	1800
67	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?l or Vetkalm).ti,ab.	2074
68	CHLORPROMAZINE/	14810
69	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	9773
70	PROMETHAZINE/	2479
71	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	1572
72	(Procloperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	38
73	HISTAMINE H1 ANTAGONISTS/	12795
74	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	6595
75	CYCLIZINE/	217
76	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	1114
77	CINNARIZINE/	626
78	(cinnarizine or Abitrate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or	520

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

	Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or Katoseran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	
79	(Mitronal or Olamin or Processine or Sedatromin or Sepan or Siptazin or Spaderizine).ti,ab.	2
80	HALOPERIDOL/ (Aloperidin or Aloperidol? or Aloperidon or Apo-Haloperidol or Bioperidolo or Brotopon or Dozic or Dozix or Einalon S or Eukystol or Galoperidol or Hal?dol or haloperidol or Halojust or Halol or Halopal or Haloperido or Haloperidol Decanoate or Halopidol or Halopoidol or Halosten or Keselan or Lealgin Compositum or Linton or Mixidol or Novo-Peridol or Pekuces or Peluces or Peridol or Pernox or Pms Haloperidol or Serenace or Serenase or Serenelfi or Sernas or Sernel or Sigaperidol or Ulcolind or Uliolind or Vesalium).ti,ab.	13366
81	METHOTRIMEPRAZINE/ (Methotrimeprazine or Levomepromazine or No?inan or Levoprome or Neurocil or Neozine).ti,ab.	14042
82	exp CHOLINERGIC ANTAGONISTS/ (cholinergic antagonist? or anticholinergic? or anti cholinergic? or Cholinolytic? or antimuscarinic? or anti muscarinic? or muscarinic antagonist? or atumin or Bentomine or Bently or Bently?? or Di-Syntramine or Diclloverina or Dicycloverin or Dicycloverine or Dicycloverinum or Diethylaminocarbethoxybicyclohexyl or Diocyl or Diocyl or Dyspas or Formulex or Kolantyl Hydrochloride or Mamiesan or Merbentyl or Oxityl-P or Procyclomin or Sawamin or Spasmoban or Wyovin).ti,ab.	636
83	exp SCOPOLAMINE/ (scopolamine or Atro?uin or Atroscine or Beldavrin or Buscopan or Epoxytropine Tropate or Euscopol or Hydroscine Hydrobromide or Hyocine F Hydrobromide or Hyosceine or Hyoscine or Hyoscine Bromide or Hyoscine Hydrobromide or Hyoscyine Hydrobromide or Hyosol or Hysco or Isopto Hyoscine or Isoscopil or Kwell's or L-Scopolamine).ti,ab.	469
84	(Methscopolamine Bromide or Oscine or Scop or Scopamin or Scopine Tropate or Scopoderm-Tts or Scopolamine Bromide or Scopolamine Hydrobromide or Scopolamine Hydrobromide Trihydrate or Scopolamine Hyoscine or Scopolaminhydrobromid or Scopolaminium Bromide or Scopolammonium Bromide or Scopos or Sereen or Skopolamin or Tranaxine or Transcop or Transderm-Scop or Transderm-V or Triptone or scopine).ti,ab.	66162
85	PROPANTHELINE/ (Propantheline Bromide or Propanthelinium or Pro-Banthine or Propanthel).ti,ab.	12376
86	ADRENAL CORTEX HORMONES/ STEROIDS/ (corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	7440
87	BUDESONIDE/ (Trimethobenzamid\$ or Ametik hydrochloride or Benzacot or Nause-ton or Stemetec or Tebamide or Tigan or Tribenzagan or Trimazide).ti,ab.	5836
88	GINGER/ (ginger or zingiber or z officinal\$).ti,ab.	905
89	Phosphorated carbohydrate solution.ti,ab.	520
90	(emetrol or nausetrol).ti,ab.	169
91	PROPOFOL/ (propofol or Diisopropylphenol or Diprivan or Disoprivan or Disoprofol or Rapinivet).ti,ab.	41916
92	exp MENTHA/ (mentha piperita or peppermint or menthol).ti,ab.	23192
93	muscimol.ti,ab.	78712
94	MUSCIMOL/ PARASYMPATHOLYTICS/ (spasmolytic? or anti spasmodic? or antispasmodic? or anti motility or antimotility or parasympatholytic?).ti,ab.	2617
95		70
96		344
97		799
98		3
99		0
100		8096
101		9607
102		276
103		938
104		4392
105		3554
106		11569
107		3110

108	LOPERAMIDE/	739
109	(loperamid\$ or Diarr-Eze or Imodium or Kaopectate or Loperacap or Maalox Anti-Diarrheal or Pepto Diarrhea Control).ti,ab.	944
110	(motofen or lomotil).ti,ab.	94
111	exp CODEINE/	4092
112	(codeine or Methylmorphine or Norcodeine or Codicept or Coducept).ti,ab.	2934
113	PROTON PUMP INHIBITORS/	125
114	OMEPRAZOLE/	7219
115	ESOMEPRAZOLE/	7219
	(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Aulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or	
116	Omapren or Omebeta 20 or Omed or Omegast or Omepral or Omeprazon or Omepral or Omeprazol or Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulcesep or Ulcometion or Ulcozol or Ulcsep or Ulsen or Ultop or Ulzol or Victrix or Zefxon or Zegerid or Zepral or Zimor or Zoltum).ti,ab.	7222
	(Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or	
117	Lanzor or Lasoprol or Limpidex or Mesactol or Monolitum or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Agopton).ti,ab.	3131
118	(Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	27
119	(Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	98
120	(Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	47
121	smectite.ti,ab.	158
122	SILICATES/	2268
123	(polypyrrolidone or poly pyrrolidone).ti,ab.	12
124	PVPP.ti,ab.	51
125	smecta.ti,ab.	7
126	KAOLIN/	1596
127	kaolin.ti,ab.	1713
128	DIETARY FIBER/	10026
129	CHARCOAL/	5089
130	(activated adj2 charcoal).ti,ab.	2127
131	(charcodote or actidose or carbomix or norit).ti,ab.	76
132	METHYLCELLULOSE/	3114
133	(methylcellulose or cologel or celevac).ti,ab.	2800
134	THIORPHAN/	535
135	(Candexatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	315
136	(Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsubsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	3472
137	kaopectate.ti,ab.	21
138	exp DIETARY SUPPLEMENTS/	18508
139	exp MICRONUTRIENTS/	404202
140	(vitamin? or micronutrient? or zinc).ti,ab.	155546
141	exp ANALGESICS/	349644

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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142 (acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	36098
143 (probiotics or lactobacillus or bifidobacterium).ti,ab.	12048
144 exp CULTURED MILK PRODUCTS/	1026
145 yog?urt.ti,ab.	1290
146 or/51-145	1121160
147 and/50,146	8649
148 limit 147 to "all child (0 to 18 years)"	2488
149 and/44,148	976

### DNV\_alternative\_therapies\_embase\_220408 (EMBASE 1980 to 2008 Week 16)

#	Searches	Results
1	CLINICAL TRIALS/	498424
2	(clinic\$ adj5 trial\$.tw,sh.	117258
3	SINGLE BLIND PROCEDURE/	7481
4	DOUBLE BLIND PROCEDURE/	68905
5	RANDOM ALLOCATION/	25330
6	CROSSOVER PROCEDURE/	20161
7	PLACEBO/	112118
8	placebo\$.tw,sh.	162076
9	random\$.tw,sh.	404672
10	RANDOMIZED CONTROLLED TRIALS/	156531
11	((single or double or triple or treble) adj (blind\$ or mask\$)).tw,sh.	89810
12	randomi?ed control\$ trial\$.tw.	29233
13	or/1-12	818681
14	META ANALYSIS/	33195
15	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw,sh.	41560
16	(systematic\$ adj5 (review\$ or overview\$)).tw,sh.	23971
17	(methodologic\$ adj5 (review\$ or overview\$)).tw,sh.	1521
18	or/14-17	56698
19	review.pt.	867046
20	(medline or medlars or embase).ab.	20703
21	(scisearch or science citation index).ab.	603
22	(psychlit or psyclit or psychinfo or psycinfo or cinahl or cochrane).ab.	6690
23	((hand or manual\$) adj2 search\$).tw.	2382
24	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	3823
25	(pooling or pooled or mantel haenszel).tw.	23181
26	(peto or dersimonian or "der simonian" or fixed effect).tw.	728
27	or/20-26	47987
28	19 and 27	16225
29	COMPARATIVE STUDY/	106176
30	(compar\$ adj5 stud\$).tw.	173424
31	CASE-CONTROL STUDY/	17820
32	RETROSPECTIVE STUDY/	88491
33	PROSPECTIVE STUDY/	73734
34	COHORT STUDY/	48066
35	(case\$ adj2 control\$).tw.	46368

36	or/29-35	481639
37	or/13,18,28,36	1220526
38	abstract report.tw,sh.	71203
39	note.tw,sh.	247053
40	short survey.tw,sh.	404804
41	letter.tw,sh.	399870
42	editorial.tw,sh.	250015
43	or/38-42	1361774
44	37 not 43	1124435
45	GASTROENTERITIS/	6526
46	ACUTE GASTROENTERITIS/	1039
47	INFANTILE GASTROENTERITIS/	156
48	VIRAL GASTROENTERITIS/	207
49	gastroenterit\$.tw.	6288
50	INFANTILE DIARRHEA/	361
51	diarrh?ea?.tw.	40927
52	or/45-51	48733
53	exp ANTIEMETIC AGENT/	89241
54	(antiemetic? or anti emetic?).ti,ab.	4744
55	ONDANSETRON/	7850
56	(ondansetron or zofran).ti,ab.	2793
57	GRANISETRON/	2979
58	(granisetron or kytril).ti,ab.	1103
59	TROPISETRON/	2474
60	(tropisetron or navoban).ti,ab.	722
61	DOPAMINE RECEPTOR BLOCKING AGENT/	4275
62	(dopamine antagonist? or antidopaminergic agent? or dopamine receptor antagonist?).ti,ab.	3088
63	DOMPERIDONE/	5410
64	(domperidone or motilium or Nauzelin or Lopac D 122).ti,ab.	1725
65	DROPERIDOL/	5868
66	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?l or Vetkalm).ti,ab.	1582
67	CHLORPROMAZINE/	21775
68	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	5603
69	PROMETHAZINE/	7073
70	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	1259
71	(Prochlorperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	3
72	HISTAMINE H1 RECEPTOR ANTAGONIST/	3546
73	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	6148
74	CYCLIZINE/	809
75	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	847
76	CINNARIZINE/	1545
77	(cinnarizine or Abitate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or	459

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

	Katoseran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	
78	(Mitronal or Olamin or Processine or Sedatromin or Sepan or Siptazin or Spaderizine).ti,ab.	1
79	HALOPERIDOL/ (Aloperidin or Aloperidol? or Aloperidon or Apo-Haloperidol or Bioperidolo or Brotopon or Dozic or Dozix or Einalon S or Eukystol or Galoperidol or Hal?dol or haloperidol or Halojust or Halol or Halopal or Haloperido or Haloperidol Decanoate or Halopidol or Halopoidol or Halosten or Keselan or Lealgin Compositum or Linton or Mixidol or Novo-Peridol or Pekuces or Peluces or Peridol or Pernox or Pms Haloperidol or Serenace or Serenase or Serenelfi or Sernas or Sernel or Sigaperidol or Ulcolind or Uliolind or Vesalium).ti,ab.	33605
80		12658
81	METHOTRIMEPRAZINE/ (Methotrimeprazine or Levomepromazine or No?inan or Levoprome or Neurocil or Neozine).ti,ab.	3180
82		318
83	(antimuscarinic? or anti muscarinic? or muscarinic antagonist? or atumin or Bentomine or Bentyll or Bentyll?? or Di-Syntramine or Diczloverina or Dicycloverin or Dicycloverine or Dicycloverinum or Diethylaminocarbethoxybicyclohexyl or Diocyl or Diocyl or Dyspas or Formulex or Kolantyl Hydrochloride or Mamiesan or Merbentyll or Oxityl-P or Procyclomin or Sawamin or Spasmoban or Wyovin).ti,ab.	3357
84	SCOPOLAMINE/ (scopolamine or Atro?uin or Atroscine or Beldavrin or Buscopan or Epoxytropine Tropate or Euscopol or Hydroscine Hydrobromide or Hyocine F Hydrobromide or Hyosceine or Hyoscine or Hyoscine Bromide or Hyoscine Hydrobromide or Hyoscyine Hydrobromide or Hyosol or Hysco or Isopto Hyoscine or Isoscopil or Kwells or L-Scopolamine).ti,ab.	9104
85		5079
86	(Methscopolamine Bromide or Oscine or Scop or Scopamin or Scopine Tropate or Scopoderm-Tts or Scopolamine Bromide or Scopolamine Hydrobromide or Scopolamine Hydrobromide Trihydrate or Scopolamine Hyoscine or Scopolaminhydrobromid or Scopolaminium Bromide or Scopolammonium Bromide or Scopos or Sereen or Skopolamin or Tranaxine or Transcop or Transderm-Scop or Transderm-V or Triptone or scopine).ti,ab.	709
87	exp CHOLINERGIC RECEPTOR BLOCKING AGENT/	84089
88	PROPANTHELINE BROMIDE/ (Propantheline Bromide or Propanthelinium or Pro-Banthine or Propanthel).ti,ab.	1462
89		110
90	exp STEROID/ (corticosteroid? or corticoid? or hydrocortisone or cortisone or budesonide).ti,ab.	573040
91		60629
92	BUDESONIDE/ (Trimethobenzamid\$ or Ametik hydrochloride or Benzacot or Nause-ton or Stemetec or Tebamide or Tigan or Tribenzagan or Trimazide).ti,ab.	9053
93		37
94	GINGER/ (ginger or zingiber or z officinal\$).ti,ab.	927
95		803
96	Phosphorated carbohydrate solution.ti,ab.	3
97	BELIDRAL/ (emetrol or nausetrol).ti,ab.	5
98		0
99	PROPOFOL/ (propofol or Diisopropylphenol or Diprivan or Disoprivan or Disoprofol or Rapinovet).ti,ab.	19465
100		10413
101	mentha.hw.	461
102	(mentha or peppermint or menthol).ti,ab.	1307
103	MUSCIMOL/ muscimol.ti,ab.	5041
104		4194
105	SPASMOLYTIC AGENT/ DIGESTIVE TRACT SPASMOLYTIC AGENT/ (spasmolytic? or anti spasmodic? or antispasmodic? or anti motility or antimotility or parasympatholytic?).ti,ab.	2800
106		70
107		2107
108	LOPERAMIDE/ (loperamid\$ or Diarr-Eze or Imodium or Kaopectate or Loperacap or Maalox Anti-Diarrheal or	4150
109		963

Pepto Diarrhea Control).ti,ab.	
110 (motofen or lomotil).ti,ab.	29
111 codeine.hw.	10899
112 (codeine or Methyilmorphine or Norcodeine or Codicept or Coducept).ti,ab.	2667
113 PROTON PUMP INHIBITOR/	10859
114 OMEPRAZOLE/	16328
115 ESOMEPRAZOLE/	1839
116 LANSOPRAZOLE/	4976
117 PANTOPRAZOLE/	2896
118 RABEPRAZOLE/	1669
(omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Aulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepral or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or	
119 Omapren or Omebeta 20 or Omed or Omegast or Omepral or Omeprazon or Omepral or Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulceseep or Ulcometion or Ulcozol or Ulcsep or Ulsen or Uktop or Ulzol or Victrix or Zefxon or Zegerid or Zepral or Zimor or Zoltum).ti,ab.	7947
(Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or	
120 Lanzor or Lasoprol or Limpidex or Mesactol or Monolitum or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Aopton).ti,ab.	2371
121 (Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	28
122 (Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	103
123 (Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	43
124 SILICATE/	1992
125 (polypyrrolidone or poly pyrrolidone).ti,ab.	10
126 PVPP.ti,ab.	45
127 smecta.ti,ab.	15
128 KAOLIN/	1390
129 kaolin.ti,ab.	1446
130 DIETARY FIBRE/	5950
131 CHARCOAL/	2229
132 ACTIVATED CARBON/	6695
133 (activated adj2 charcoal).ti,ab.	1979
134 (charcodote or actidose or carbomix or norit).ti,ab.	74
135 METHYLCELLULOSE/	2386
136 (methylcellulose or cologel or celevac).ti,ab.	2670
137 THIORPHAN/	910
138 (Candoxatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	333
139 (Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsubsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	3059
140 kaopectate.ti,ab.	17
141 BISMUTH SALICYLATE/	1376
142 ANTIDIARRHEAL AGENT/	1913
143 exp SUPPLEMENTATION/	61812

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5 years

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144 TRACE ELEMENT/ 145 (vitamin? or micronutrient? or zinc).ti,ab.	9495 121136
146 ANALGESIC AGENT/ 147 (acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	28304 35246
148 PROBIOTIC AGENT/ 149 (probiotics or lactobacillus or bifidobacterium).ti,ab.	4991 10124
150 DAIRY PRODUCT/ 151 yog?urt.ti,ab.	2467 1069
152 or/53-151	1035943
153 and/52,152	9015
154 limit 153 to (infant or preschool child < 1 to 6 years> or school child < 7 to 12 years> or adolescent < 13 to 17 years>)	1398
155 and/44,154	556

### DNV\_alternative\_therapies\_cinahl\_220408 (CINAHL 1982 to April Week 3 2008)

#	Searches	Results
1	exp CLINICAL TRIALS/	60853
2	clinical trial.pt.	32112
3	(clinic\$ adj5 trial\$).tw,sh.	14906
4	SINGLE-BLIND STUDIES/	2953
5	DOUBLE-BLIND STUDIES/	11258
6	TRIPLE-BLIND STUDIES/	39
7	((single or double or triple or treble) adj5 (blind\$ or mask\$)).tw,sh.	8259
8	RANDOM ASSIGNMENT/	17889
9	random\$.tw.	53725
10	RANDOMIZED CONTROLLED TRIALS/	46949
11	CLINICAL TRIALS/	46949
12	randomi?ed control\$ trial\$.tw.	11640
13	PLACEBOS/	4305
14	placebo\$.tw.	11298
15	or/1-14	98368
16	META ANALYSIS/	6405
17	((meta adj analy\$) or metaanalys\$ or meta-analy\$).tw.	4994
18	SYSTEMATIC REVIEW/	3638
19	systematic review.pt.	11155
20	(systematic\$ adj5 (review\$ or overview\$)).tw.	9019
21	LITERATURE REVIEW/	2560
22	or/16-21	21388
23	("review" or "review studies" or "review academic" or "review tutorial").ti,ab,sh,pt.	109527
24	(medline or medlars or embase or cochrane or scisearch or psycinfo or psychinfo or psychlit or psyclit or "web of science" or "science citation").tw.	9381
25	((hand or manual\$) adj2 search\$).tw.	1057
26	(electronic database\$ or bibliographic database\$ or computeri?ed database\$ or online database\$).tw.	1740
27	(pooling or pooled or mantel haenszel).tw.	2660
28	(peto or dersimonian or "der simonian" or fixed effect).tw.	412
29	or/24-28	12380
30	and/23,29	7236



31	COMPARATIVE STUDIES/	44053
32	(compar\$ adj5 stud\$).tw.	17891
33	CASE-CONTROL STUDIES/	15247
34	(case\$ adj2 control\$).ti,ab.	4914
35	RETROSPECTIVE DESIGN/	31303
36	exp PROSPECTIVE STUDIES/	74956
37	RETROSPECTIVE PANEL STUDIES/	39
38	PRETEST-POSTTEST DESIGN/	11155
39	CROSS SECTIONAL STUDIES/	25292
40	or/31-39	179312
41	or/15,22,30,40	259682
42	letter.pt.	59121
43	commentary.pt.	79476
44	editorial.pt.	86478
45	or/42-44	182315
46	41 not 45	242137
47	GASTROENTERITIS/	624
48	gastroenterit\$.tw.	538
49	DIARRHEA/	2372
50	diarrh?ea?.tw.	2779
51	or/47-50	4448
52	exp ANTIEMETICS/	3474
53	(antiemetic? or anti emetic?).ti,ab.	509
54	ONDANSETRON/	202
55	(ondansetron or zofran).ti,ab.	179
56	GRANISETRON/	80
57	(granisetron or kytril).ti,ab.	76
58	(tropisetron or navoban).ti,ab.	11
59	DOPAMINE ANTAGONISTS/	85
60	(dopamine antagonist? or antidopaminergic agent? or dopamine receptor antagonist?).ti,ab.	33
61	(domperidone or motilium or Nauzelin or Lopac D 122).ti,ab.	30
62	DROPERIDOL/	113
63	(Deh?drobenzperidol? or droperidol or Dridol or Droleptan or Halkan or Inap?in? or Innovan or Innovar or Inopsin or Inoval or leptanal or Leptofen or McN-JR 4749 or Sintodril or Sintosian or Thalam?n?! or Vetkalm).ti,ab.	99
64	CHLORPROMAZINE/	83
65	(Chlorpromazine or Chlorpromanyl or Largactil or Thorazine Spansule).ti,ab.	78
66	(Promethazine or Lilly 1516 or Isopromethazine or Proaza?mine or Promazinamide or Prometh?azin? or Promezathine or Prothazin?).ti,ab.	65
67	(Procloperazin? or Prochlorpromazine or Prochloroperazine or Prochlorpemazine or Proclo?perazine or Chlorperazine or Chlormeprazine).ti,ab.	0
68	exp HISTAMINE H1 ANTAGONISTS/	1111
69	(histamine H1 antagonist? or antihistamine? or anti histamine?).ti,ab.	541
70	(cyclizine or cyclizina or cyclizinum or Emoquil or Mar?zine or Nautazine or Ne?-Devomit or Reis-Fit or valloid or wellcome).ti,ab.	71
71	(cinnarizine or Abitrate or Aplactan or Aplexal or Apotomin or Artate or Carecin or Cerebolan or Cerepar or Cinaperazine or Cinazyn or Cinnacet or Cinnageron or Corathiem or Denapol or Dimitron or Dimitronal or Eglen or Folcodal or Giganten or Glanil or Hilactan or Ixertol or Katoseran or Labyrin or Lazeta or Marisan or Midronal).ti,ab.	7



105	ESOMEPRAZOLE/ (omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole or Audazol or Aulcer or Belmazol or Ceprandal or Danlox or Demeprazol or Desec or Dizprazol or Dudencer or Elgam or Emeproton or Epirazole or Erbolin or Exter or Gasec or Gastrimut or Gastroloc or Gibancer or Indurgan or Inhibitron or Inhipump or Lensor or Logastric or Lomac or Losec or Mepal or Miol or Miracid or Mopral or Morecon or Nilsec or Nopramin or Ocid or Olexin or Omapren or Omebeta	39
106	20 or Omed or Omegast or Omepral or Omeprazon or Omeprol or Omesek or Omezol or Omezolan or Omid or Omisec or Omizac or Ompanyt or Ortanol or Osiren or Ozoken or Paprazol or Parizac or Pepticum or Pepticus or Peptilcer or Prazentol or Prazidec or Prazolit or Prilosec or Procelac or Proclor or Prysma or Ramezol or Regulacid or Sanamidol or Secrepina or Ulceral or Ulcesep or Ulcometion or Ulcozol or Ulcsep or Ulsen or Ultop or Ulzol or Victrix or Zefxon or Zegerid or Zepral or Zimor or Zoltum).ti,ab. (Amarin or Aprazol or Bamalite or Biuret or Blason or Compraz or Dakar or Ilsatec or Ketian or Lancid or Lanproton or Lansopep or Lansoprazol\$ or Lanston or Lanz or Lanzol-30 or Lanzopral or	428
107	Lanzor or Lasoprol or Limpidex or Mesactol or Monolitum or Ogast or Ogastro or Opiren or Prevacid or Prevpac or Prezal or Pro Ulco or Promp or Prosogan or Suprecid or Takepron or Ulpax or Zoprol or Zoton or Agopton).ti,ab.	126
108	(Nexiam or Nexium or Lucen or Esopral or Axagon).ti,ab.	9
109	(Pantoprazol? Pantoloc or Protonix or Pantopan or Protium or Pantozol or Pantor or Astropan).ti,ab.	8
110	(Irsogladine Maleate or Rebeprazole sodium or AcipHex or Pariet).ti,ab.	3
111	smectite.ti,ab.	3
112	(polypyrrolidone or poly pyrrolidone).ti,ab.	0
113	PVPP.ti,ab.	0
114	smecta.ti,ab.	1
115	KAOLIN/	7
116	kaolin.ti,ab.	30
117	DIETARY FIBER/	1800
118	CHARCOAL/	270
119	(activated adj2 charcoal).ti,ab.	125
120	(charcodote or actidose or carbomix or norit).ti,ab.	3
121	(methylcellulose or cologel or celevac).ti,ab.	19
122	(Candoxatril or enkephalinase inhibitor? or racecadotril or dexecadotril).ti,ab.	4
123	(Bismuth or Pepto-bismol or Spiromak forte or Stabisol or Vismut or Wismutsubsalicylat or Bismed or Bismatrol or Bismutum or Bismuthi).ti,ab.	70
124	kaopectate.ti,ab.	0
125	exp DIETARY SUPPLEMENTS/	2747
126	MICRONUTRIENTS/	555
127	(vitamin? or micronutrient? or zinc).ti,ab.	7832
128	exp ANALGESICS/	9919
129	(acetaminophen or paracetamol or ibuprofen or aspirin).ti,ab.	3167
130	(probiotics or lactobacillus or bifidobacterium).ti,ab.	545
131	exp CULTURED MILK PRODUCTS/	107
132	yog?urt.ti,ab.	150
133	exp ANTIDIARRHEALS/	239
134	or/52-133	47893
135	and/51,134	657
136	limit 135 to (newborn infant or infant <1 to 23 months> or preschool child <2 to 5 years> or child <6 to 12 years> or adolescence <13 to 18 years>)	255
137	and/46,136	129

# 9 Escalation of care

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*Clinical question*

What key symptoms and signs of gastroenteritis indicate the need for referral to specialist care?

**DNV\_referral\_medline\_290208 (Ovid MEDLINE 1950 to February Week 3 2008)**

#	Searches	Results
1	exp COHORT STUDIES/	648011
2	CROSS-SECTIONAL STUDIES/	84179
3	(cross-section\$ adj3 stud\$).tw.	33842
4	(observational adj3 stud\$).tw.	20046
5	(cohort? adj3 stud\$).tw.	41603
6	or/1-5	744670
7	letter.pt.	609021
8	comment.pt.	345736
9	editorial.pt.	213417
10	historical article.pt.	244092
11	or/7-10	1106726
12	6 not 11	725917
13	GASTROENTERITIS/	9062
14	gastroenteritis.tw.	8814
15	DIARRHEA/	30900
16	DIARRHEA, INFANTILE/	6060
17	(acute adj2 diarrh?ea?).tw.	3592
18	or/13-17	47295
19	PRIMARY HEALTH CARE/	35818
20	(primary adj2 care).tw.	48389
21	FAMILY PRACTICE/	52275
22	PHYSICIANS, FAMILY/	11522
23	((family or general) adj2 (practice or practitioner?)).tw.	51721
24	(secondary adj2 care).tw.	1979
25	gastroenterologist?.tw.	2363
26	gastroenterology unit?.tw.	151
27	specialist?.tw.	34362
28	(tertiary adj2 care).tw.	12653
29	exp HOSPITALIZATION/	108218
30	(hospitaliz\$ or hospitalis\$).tw.	90619
31	CHILD, HOSPITALIZED/	5064
32	DAY CARE/	4124
33	AMBULATORY CARE/	28958
34	(ambulatory adj2 care).tw.	6355
35	((outpatient or inpatient) adj2 (care or health service?)).tw.	5805
36	TELEMEDICINE/	5872
37	(NHS direct or remote care or telemedicine).tw.	3715
38	(out of hours adj2 care).tw.	128

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39 EMERGENCY SERVICE, HOSPITAL/	26827
40 (emergency adj2 (department? or service?)).tw.	29672
41 HOUSE CALLS/	1632
42 ((house or home) adj2 call?).tw.	520
43 HOSPITAL UNITS/	7177
44 observation unit?.tw.	270
45 ((pediatric\$ or paediatric\$) adj2 (department? or unit?)).tw.	5887
46 (doctor? adj2 (office? or surgery or surgeries or clinic?)).tw.	937
47 (home adj2 (care or service?)).tw.	14371
48 HOME CARE SERVICES/	22208
49 COMMUNITY HEALTH SERVICES/	21737
50 COMMUNITY HEALTH NURSING/	16089
51 (community adj2 (care or service?)).tw.	9671
52 health visitor?.tw.	1793
53 PHARMACEUTICAL SERVICES/	2937
54 COMMUNITY PHARMACY SERVICES/	1536
55 (pharma\$ adj2 (care or service?)).tw.	3647
56 or/19-55	479636
57 PATIENT ADMISSION/	13442
58 PATIENT READMISSION/	4596
59 "REFERRAL AND CONSULTATION"/	38553
60 referral?.tw.	38669
61 (admission? or admitted or readmit\$ or readmission?).tw.	148400
62 TRIAGE/	5035
63 triage.tw.	4744
64 "SIGNS AND SYMPTOMS"/	407
65 (sign? or symptom\$ or syndrom\$ or profile? or manifest\$ or severe or severity).tw.	1729971
66 LENGTH OF STAY/	37893
67 length of stay.tw.	13784
68 or/57-67	1904172
69 and/18,56	3473
70 and/68-69	1933
71 limit 70 to ("all infant (birth to 23 months)" or "preschool child (2 to 5 years)")	1209
72 and/6,72	280
73 limit 72 to (english language and humans)	240

#### **DNV\_referral\_embase\_290208 (EMBASE 1980 to 2008 Week 08)**

<b># Searches</b>	<b>Results</b>
1 COHORT STUDY/	47179
2 COHORT ANALYSIS/	47179
3 CROSS-SECTIONAL STUDY/	1579
4 OBSERVATIONAL STUDY/	5219
5 OBSERVATIONAL METHOD/	315
6 (cohort adj2 stud\$).tw.	35711
7 (cross-sectional adj2 stud\$).tw.	26538
8 (observational adj2 stud\$).tw.	18420
9 or/1-8	109297

## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5: evidence tables

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10 abstract report.tw,sh.	71202
11 note.tw,sh.	244699
12 short survey.tw,sh.	402780
13 letter.tw,sh.	395444
14 editorial.tw,sh.	247116
15 or/10-14	1350167
16 9 not 15	104197
17 GASTROENTERITIS/	6463
18 ACUTE GASTROENTERITIS/	1029
19 INFANTILE GASTROENTERITIS/	156
20 VIRAL GASTROENTERITIS/	198
21 gastroenterit\$.tw.	6224
22 INFANTILE DIARRHEA/	357
23 (acute adj3 diarrh?ea?).tw.	2932
24 or/17-23	12629
25 PRIMARY HEALTH CARE/	10189
26 (primary adj2 care).tw.	38026
27 GENERAL PRACTICE/	21535
28 GENERAL PRACTITIONER/	28278
29 ((family or general) adj2 (practice or practitioner?)).tw.	36831
30 (secondary adj2 care).tw.	1888
31 MEDICAL SPECIALIST/	29801
32 gastroenterologist?.tw.	2350
33 gastroenterology unit?.tw.	160
34 specialist?.tw.	26482
35 (tertiary adj2 care).tw.	11790
36 CHILD HOSPITALIZATION/	2356
37 HOSPITALIZATION/	59536
38 (hospitaliz\$ or hospitalis\$).tw.	77035
39 DAY CARE/	2963
40 AMBULATORY CARE/	6585
41 ((outpatient or inpatient) adj2 (care or health service?)).tw.	4512
42 TELEMEDICINE/	784
43 (NHS direct or telemedicine).tw.	1942
44 (remote care or remote consultation?).tw.	54
45 (out of hours adj2 care).tw.	112
46 TELECONSULTATION/	458
47 EMERGENCY WARD/	19357
48 (emergency adj2 (department? or service?)).tw.	24208
49 ((house or home) adj2 call?).tw.	231
50 PEDIATRIC WARD/	330
51 observation unit?.tw.	212
52 ((pediatric\$ or paediatric\$) adj2 (department? or unit?)).tw.	4835
53 (doctor? adj2 (office? or surgery or surgeries or clinic?)).tw.	877
54 (home adj2 (care or service?)).tw.	5889
55 HOME CARE/	12840
56 COMMUNITY CARE/	16992
57 (community adj2 (care or service? or nursing)).tw.	6418

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58 health visitor?.tw.	588
59 PHARMACEUTICAL CARE/	6433
60 (pharma\$ adj2 (care or service?)).tw.	4288
61 or/25-60	323138
62 HOSPITAL ADMISSION/	46401
63 HOSPITAL READMISSION/	1339
64 HOSPITAL UTILIZATION/	742
65 HOSPITAL BED UTILIZATION/	752
66 PATIENT REFERRAL/	24477
67 referral?.tw.	32977
68 (admission? or admitted or readmit\$ or readmission?).tw.	129356
69 triage.tw.	3736
70 (sign? or symptom\$ or syndrom\$ or profile? or manifest\$ or severe or severity).tw.	1461322
71 "LENGTH OF STAY"/	22096
72 length of stay.tw.	11881
73 or/62-72	1598457
74 and/24,61	1714
75 and/73-74	978
76 limit 75 to (infant or preschool child < 1 to 6 years >)	435
77 and/16,76	32
78 limit 77 to english language	25

#### **DNV\_referral\_cinahl\_290208 (CINAHL 1982 to February Week 3 2008)**

<b># Searches</b>	<b>Results</b>
1 CROSS SECTIONAL STUDIES/	22996
2 PROSPECTIVE STUDIES/	66464
3 OBSERVATIONAL METHODS/	5512
4 (cohort adj2 stud\$).tw.	7596
5 (cross-sectional adj2 stud\$).tw.	5007
6 (observational adj2 stud\$).tw.	3644
7 or/1-6	94783
8 letter.pt.	52662
9 commentary.pt.	73291
10 editorial.pt.	81733
11 or/8-10	169270
12 7 not 11	90224
13 GASTROENTERITIS/	573
14 gastroenterit\$.tw.	492
15 DIARRHEA/	2200
16 (acute adj3 diarrh?ea?).tw.	172
17 or/13-16	2867
18 PRIMARY HEALTH CARE/	14523
19 (primary adj2 care).tw.	17227
20 FAMILY PRACTICE/	4701
21 PHYSICIANS, FAMILY/	3733
22 ((family or general) adj2 (practice or practitioner?)).tw.	6783
23 gastroenterologist?.tw.	172

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## Diarrhoea and vomiting caused by gastroenteritis in children younger than 5: evidence tables

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24 gastroenterology unit?.tw.	11
25 specialist?.tw.	10260
26 (tertiary adj2 care).tw.	2478
27 HOSPITALIZATION/	5131
28 (hospitaliz\$ or hospitalis\$).tw.	13930
29 CHILD, HOSPITALIZED/	1839
30 INFANT, HOSPITALIZED/	156
31 DAY CARE/	1111
32 exp PATIENT CARE/	216248
33 ((outpatient or inpatient) adj2 (care or health service?)).tw.	1583
34 TELEMEDICINE/	1580
35 (NHS direct or telemedicine).tw.	1124
36 (remote care or remote consultation? or teleconsultation?).tw.	47
37 (out of hours adj2 care).tw.	47
38 REMOTE CONSULTATION/	250
39 EMERGENCY SERVICE/	11067
40 (emergency adj2 (department? or service?)).tw.	10744
41 HOME VISITS/	1943
42 ((house or home) adj2 (visit? or call?)).tw.	1627
43 exp HOSPITAL UNITS/	24392
44 observation unit?.tw.	126
45 ((pediatric\$ or paediatric\$) adj2 (department? or unit?)).tw.	926
46 (doctor? adj2 (office? or surgery or surgeries or clinic?)).tw.	157
47 (home adj2 (care or service?)).tw.	10436
48 HOME HEALTH CARE/	9605
49 COMMUNITY HEALTH SERVICES/	6690
50 COMMUNITY HEALTH NURSING/	13494
51 (community adj2 (care or service?)).tw.	4652
52 health visitor?.tw.	1974
53 PHARMACY SERVICE/	1084
54 (pharma\$ adj2 (care or service?)).tw.	521
55 OBSERVATION UNITS/	296
56 or/18-55	299182
57 PATIENT ADMISSION/	3276
58 PATIENT READMISSION/	1523
59 "REFERRAL AND CONSULTATION"/	7924
60 referral?.tw.	7972
61 GATEKEEPING/	125
62 (admission? or admitted or readmit\$ or readmission?).tw.	18978
63 TRIAGE/	2773
64 triage.tw.	2184
65 SYMPTOMS/	2208
66 (sign? or symptom\$ or syndrom\$ or profile? or manifest\$ or severe or severity).tw.	125969
67 LENGTH OF STAY/	7420
68 length of stay.tw.	3692
69 or/57-68	160079
70 and/17,56	719
71 and/69-70	310



72 limit 71 to (infant <1 to 23 months> or preschool child <2 to 5 years>)	133
73 limit 72 to english	130

*Clinical question*

When should a child under 5 be considered to have gastroenteritis?

**DNV\_clinical\_features\_medline\_210907 (Ovid MEDLINE 1950 to September Week 2 2007)**

#	Search History	Results
1	CHILD, PRESCHOOL/	586463
2	INFANT/	503479
3	INFANT, NEWBORN/	397193
4	(infant? or newborn? or neonat\$ or toddler? or baby or babies).ti,ab.	368755
5	or/1-4	1144092
6	(diarrh?ea? adj3 (acute\$ or infective\$)).ti,ab.	3956
7	gastroenteritis?.ti,ab.	8632
8	GASTROENTERITIS/	8930
9	or/6-8	16211
10	(symptom\$ or presentation?).ti,ab.	575648
11	(present\$ adj3 (histor\$ or feature? or characteristic? or factor?)).ti,ab.	32162
12	(clinical\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	140295
13	(diagnos\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	22678
14	((physical\$ or examin\$) adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	40418
15	(other diagnos?s or alternat\$ diagnos?s).ti,ab.	2065
16	DIAGNOSIS, DIFFERENTIAL/	296768
17	or/10-16	999375
18	5 and 9	7513
19	17 and 18	1206

**DNV\_clinical\_features\_embase\_210907 (EMBASE 1980 to 2007 Week 37)**

#	Search History	Results
1	INFANT/	161375
2	NEWBORN/	170364
3	PRESCHOOL CHILD/	98056
4	(infant? or newborn? or neonat\$ or toddler? or baby or babies).ti,ab.	261367
5	or/1-4	471839
6	GASTROENTERITIS/	6245
7	(diarrh?ea? adj3 (acute\$ or infective\$)).ti,ab.	2906
8	gastroenteritis?.ti,ab.	5949
9	or/6-8	11565
10	(symptom\$ or presentation?).ti,ab.	513123
11	(present\$ adj3 (histor\$ or feature? or characteristic? or factor?)).ti,ab.	27781
12	(clinical\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	120411
13	(diagnos\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	19195
14	((physical\$ or examin\$) adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	34260
15	(other diagnos#s or alternat\$ diagnos#s).ti,ab.	1969
16	different\$ diagnos#s.ti,ab.	47371
17	or/10-16	693768
18	5 and 9	3376
19	17 and 18	664

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20 limit 19 to human	589
21 limit 20 to english language	490

**DNV\_clinical\_features\_cinahl\_210907 (CINAHL 1982 to September Week 2 2007)**

# Search History	Results
1 CHILD, PRESCHOOL/	46359
2 INFANT/	41456
3 INFANT, NEWBORN/	32161
4 (infant? or newborn? or neonat\$ or toddler? or baby or babies).ti,ab.	34851
5 or/1-4	93224
6 GASTROENTERITIS/	534
7 gastroenteritis?.ti,ab.	462
8 (diarrh?ea? adj3 (acute\$ or infective\$)).ti,ab.	168
9 or/6-8	845
10 (symptom\$ or presentation?).ti,ab.	50872
11 (present\$ adj3 (histor\$ or feature? or characteristic? or factor?)).ti,ab.	1824
12 (clinical\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	7319
13 (diagnos\$ adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	1418
14 ((physical\$ or examin\$) adj3 (feature? or factor? or characteristic? or finding?)).ti,ab.	5005
15 (other diagnos#s or alternat\$ diagnos#s).ti,ab.	202
16 DIAGNOSIS, DIFFERENTIAL/	10622
17 or/10-16	70646
18 5 and 9	373
19 17 and 18	57
20 limit 19 to english	56



Other NICE guidelines produced by the National Collaborating Centre for Women's and Children's Health include:

- Antenatal care: routine care for the healthy pregnant woman
- Fertility: assessment and treatment for people with fertility problems
- Caesarean section
- Type 1 diabetes: diagnosis and management of type 1 diabetes in children and young people
- Long-acting reversible contraception: the effective and appropriate use of long-acting reversible contraception
- Urinary incontinence: the management of urinary incontinence in women
- Heavy menstrual bleeding
- Feverish illness in children: assessment and initial management in children younger than 5 years
- Urinary tract infection in children: diagnosis, treatment and long-term management
- Intrapartum care: care of healthy women and their babies during childbirth
- Atopic eczema in children: management of atopic eczema in children from birth up to the age of 12 years
- Surgical management of otitis media with effusion in children
- Diabetes in pregnancy: management of diabetes and its complications from preconception to the postnatal period
- Induction of labour
- Surgical site infection: prevention and treatment of surgical site infection

Guidelines in production include:

- When to suspect child maltreatment
- Hypertensive disorders in pregnancy
- Neonatal jaundice
- Constipation in children
- Bacterial meningitis and meningococcal septicaemia in children
- Pregnant women with complex social factors
- Autism in children and adolescents
- Multiple pregnancy

Enquiries regarding the above guidelines can be addressed to:

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A version of this guideline for parents, carers and the public is available from the NICE website ([www.nice.org.uk/CG84](http://www.nice.org.uk/CG84)) or from NICE publications on 0845 003 7783; quote reference number N1845.

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