

Review Evidence

Supplementary Report to Review 1 and Review 2 on:

The effectiveness and cost effectiveness of health appraisal processes currently in use to address health and wellbeing during project and plan appraisal

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1. Introduction

This report aims at supplementing the evidence identified through the National Institute for Clinical Excellence (NICE) process of systematic review in relation to the incorporation of health into the appraisal of projects and plans.

During the systematic literature review for Reviews1 (projects) and 2 (plans) a number of citations that were identified that did not meet the inclusion criteria for the individual project or plan appraisal, as they did contain sufficient detailed information. Some of these citations were however, reviews or summaries of case series of relevant appraisals¹. Although reviews do not normally form part of the evidence base submitted to a Planning Development Group, in discussion with NICE it was agreed that it would be beneficial to consider articles that included a series of primary case studies that would not otherwise be included in R1 and R2. (This would normally be because the level of detail available on each case study made it impossible to extract the data systematically in sufficient detail to include the study in R1 or R2.)

2. Methodology

The following inclusion criteria were used:

- The article had been identified using the search strategy agreed for R1 and R2
- The article had been considered at the full text screening stage for R1 and R2
- The article reported on a series of primary case studies that were not published elsewhere in full.

Critical Appraisal

Included citations were critically appraised (see critical appraisal tool at Appendix 1).

Data Extraction

A data extraction template was designed to take account of the special nature of the review findings (see data extraction tool for reviews at Appendix 2).

¹ One citation found to be review material (Kørnøv, 2009) was also included in Review 2 as it met that Review's inclusion criteria. It is therefore included in both.

3. Results

The inclusion criteria led to the identification of nine citations which were critically assessed on quality (see critical appraisal tool at Appendix 1). Following further full text review, four studies were discounted as they either did not refer to spatial planning, or they merely reviewed appraisal methodology rather than effectiveness in influencing spatial planning. Two citations merited a quality score of [++], with the remaining three receiving [+]. The five citations that have been included are listed in Table 1. Copies of the data Extraction Tables are included in Appendix 3.

Table 1 Summary of 'included' reviews

Study identification Author, year of publication	Country	Internal validity score ++/+/-	Externa I validity score ++/+/-	Appraisa I type reviewed	Subject of Review
Bronson, J & Noble, B. (2006)	Canada	+	+	EIA	Reports on a study of the nature and use of health determinants in northern Canadian environmental impact assessment of spatial planning (ten oil or mining projects). Authors discuss the key challenges to, and opportunities for, improved practice.
Davenport, C., Mathers, J., Parry, J. (2006)	N/R	++	++	HIA	Review of 32 commentary papers and 88 case study reports of HIA.
Kørnøv, L (2009)	Denmark	+	++	SEA	Based on 100 environmental reports, examines the inclusion of health as a formal component in SEA
Taylor, L & Quigley, R. (2002)	N/R	++	++	HIA	Review & appraisal of available systematic review level evidence (14 citations) of whether and how HIA informs decision-making processes (relating to projects and plans).
York Health Economics Consortium (2006)	UK	+	++	HIA	Prospective study of 15 case studies (three relevant, i.e. completed and related to spatial planning) where HIA undertaken with retrospective analysis of control areas.

4. Findings: Outcomes summary table for Reviews

Author, date	Title	Quality	Significant Comments
Bronson, J., & Noble, B. (2006)	Health determinants in Canadian northern environmental impact assessment	+	Health determinants are not well integrated throughout the EIA process, providing little follow-up and monitoring of actual health outcomes and the effectiveness of health impact management programmes.
Davenport, C., Mathers, J., Parry, J. (2006)	Use of health impact assessment in incorporating health considerations in decision making.	++	"HIAs have 'successfully' influenced decision making relating to PPPs when (1) key decision makers are involved in the design and conduct of the HIA; (2) there is organisational commitment to HIA; and/or (3) where statutory frameworks provide legitimacy for HIA within the policy process. They have had influence where HIA recommendations are realistic (read achievable) and echo political drivers." We may wish to widen "success" to include bringing about greater consideration of health into policymaking via less tangible routes—for example, by encouraging inter-sect oral working, by raising awareness of the wider determinants of health and so forth.
Kørnøv, L (2009)	Strategic Environmental Assessment as a catalyst of healthier spatial planning: The Danish guidance and practice	+	Health is included in planning assessment practice, but it is interpreted in a broader sense than national guidance, assessing both negative and positive impacts. Aspects often included include: noise, drinking water, air pollution, recreation/outdoor life and traffic safety, but no reference to equity. Assessment of human health is qualitative.

Taylor L., Quigley R. (2002)	Health Impact Assessment, A review of reviews	++	"There is currently no review-level evidence available to demonstrate if and how the HIA approach informs the decision making process and, in particular, if it improves health and reduces health inequalities".
York Health Economics Consortium (2006)	Cost Benefit Analysis of Health Impact Assessment Final Report	+	"The majority of HIAs had a positive impact on the decision making process by increasing consideration given to health impacts, but difficult to attribute changes in the planned projects or plans specifically to HIA. The benefits of HIA outweighed the costs."

5. Findings: Commentary on Individual Studies

Bronson 2006

This paper is the third in a series examining "northern EIA". It particularly sought to understand ("get a sense of") the extent to which health determinants are considered in project impact assessment practices by gaining the views of those who had been part of the individual EIAs or had acted as consultees (federal and provincial authorities, and Aboriginals).

The study found that whilst health and quality of life is a main issue for Canadian EIA, more emphasis is given to physical environments as opposed to other, in particular social, determinants of health. Of nine identified health determinants, social support networks, working conditions and physical environments were considered more important than the rest.

The results on the perceived performance of these EIAs varied depending on the health determinant and the consultee, with Aboriginals giving a score of "very poor", but other respondents scoring them "average" or "above average".

The study emphasises the lack of understanding on the effect of these major projects on the indigenous population's culture and livelihoods. Post-approval monitoring of the projects only occurred in 20% of EIAs.

The authors' conclusions are that new frameworks for EIA in these northern areas need shaping to take account of the different circumstances.

Davenport, 2006

This paper sets out to identify "enables and barriers to HIAs having influence on the decision making process". The results are categorised into two: "decision makers and the policy process and environment" and "conduct and reporting of an HIA".

In terms of the former, the authors set out the particular politico-administrative environment for successful HIAs:

- 1. where key decision makers are involved in the design and conduct of the HIA
- 2. where there is organisational commitment to HIA; and/or
- 3. where statutory frameworks provide legitimacy for HIA within the policy process.

In terms of conduct and reporting, the authors summarise other views that:

- 1. the HIA must be undertaken within a time frame concordant with the decision making process
- 2. the lack of a standard methodology may be a barrier, and conversely that a consistent approach may facilitate the use of HIAs
 - 3. institutionalising the HIA process within decision making organisations is key.

The authors conclude by suggesting that it is the HIA process (as an education to non-health professionals, or supporting intersectoral working for example) that possibly has more effectiveness that merely identifying health impacts.

Kørnøv, L (2009)

This is a straightforward study consisting of a review of 100 environmental reports of municipal and local spatial plans to understand how health is incorporated into them. It was found that health was included in all but seven of the 100 assessments and often interpreted in a broader sense than national guidance.

The author does not address the issue of implementation of the incorporated health issues. Health issues often included are noise, drinking water, air pollution, recreation/outdoor life and traffic safety, but equity or distributional aspects are rarely considered.

The author criticises the fact that health is usually not promoted in the assessments by the health sector.

Taylor (2002)

This paper used the HDA methodology for systematic review to identify evidence for the preparation of its attached Briefing Paper on how HIA informs the decision-making process and in particular how it improves health and reduces health inequalities.

The systematic review & strict critical appraisal and inclusion criteria only identified one document: McIntyre, L. and Petticrew, M. (1999). *Methods of Health Impact Assessment: a literature review.* MRC Social and Public Health Sciences Unit, Occasional paper No 2.

This paper did not provide the evidence to the authors that the HIA approach informs the decision making process and, in particular, if it improves health and reduces health inequalities.

Twelve other papers were excluded, but the authors used these to extract key points/recommendations:

- 1. To determine the effectiveness of the HIA approach, and to ensure quality, it is necessary to monitor and evaluate how the HIA process is undertaken (process), whether its recommendations were implemented (impact) and the effect on the health of the local population, for example, did it make a difference and were the outcomes as expected (health outcome)? Does the HIA process add value to the decision-making process, over and above other approaches?
- 2. Proponents of HIA advocate its use to help raise awareness and address health inequalities. It is suggested that this can be achieved by not only assessing how the proposal affects a population but more specifically, how these effects are distributed between the different subgroups of the population concerned. It is also recognised there is a tension when trade-offs are required between improving average health and improving the health of the most disadvantaged to reduce inequalities in health.
- 3. The evidence base was lacking in how interventions assessed by HIA impact on health outcomes. It is recognised that the evidence is often complex because of the interrelationship between health determinants and their causal pathways. The isolation of influences of particular interventions is not easy.
- 4. The potential for universally acceptable HIA methodologies is noted, as is the need for thought to be given to the best way to involve and work with local communities in HIA.
 - 5. An understanding of the policy-making process.

York Health Economics Consortium (2006)

In looking for evidence of cost-benefit of HIA, this study considered the effectiveness of the various HIA studied. The study disappointed because of the short timescale for reporting, which ruled out many of the 15 HIAs studied. This, added to the fact that only three of the HIAs were related to spatial planning, offered up limited evidence of effectiveness.

In summary (and of relevance) the study concluded that:

- 1. The benefits of HIA outweighed the costs, as it appeared that the HIA did have a degree of influence on decision making.
- 2. The timing of the HIA was crucial in ensuring that the health impacts were at very least mitigated.
- 3. There was a danger that HIA was just used as a validation tool to confirm existing beliefs.
- 4. Identification of practical challenges and difficulties in conducting HIA; capacity and capability within organisations; changes in scope or timeframe of proposal, project or plan; non-statutory nature of HIA.
- 5. It might be beneficial to determine whether HIA is more appropriate in assessing plans, programmes and policies, leaving EIA to deal with the project level assessments.

6. Evidence Statement

Five citations reported on various appraisal methods conducted in three countries:

EIA in Northern Canada – Bronson (2006): project appraisal

HIA in UK – Davenport (2006): project & plan appraisal

HIA in UK – Taylor (2002) and York Health Economics Consortium (2006: project & plan appraisal

SEA in Denmark – Kørnøv (2009): plan appraisal.

Two citations had quality scores of [++] (Davenport (2006) and Taylor (2002)), with the remainder scoring [+]. Only the York Health Economics Consortium study is not from a peer-reviewed journal.

All the citations reported that some health issues were addressed in the appraisal process studied. However, Bronson, Kørnøv and Taylor point out that the key issues of health equity and the distributional effects of policy are conspicuous by their absence.

All except Kørnøv (2009) consider that to some degree the appraisal process studied was effective in influencing health outcomes, though there was generally a lack of

clear and unambiguous evidence – due in part (Taylor observes) to complex and multi-dimensional causal pathways. One citation reported changes being made to a proposal following the appraisal (Taylor, 2002) and one of implementation of health recommendations and subsequent evaluation (Bronson, 2006). The York study, taking an economic standpoint, concluded that the benefits justified the costs of appraisal – though also highlights the difficulties of achieving good HIAs – lack of technical capacity, the evaluation of proposals that change and evolve.

In relation to method, Davenport and the York study stress the importance of aligning the HIA process with the decision-making process and the involvement of decision-makers. All four HIA reviews suggested that there would be potential benefits of adopting a more standard methodology and some raise the issue as to whether HIA should become a statutory requirement in some situations. Bronson (reviewing EIA – which is of course statutory) suggests new frameworks are needed to take better account of cultural difference.

All the citations are applicable to the UK's spatial planning processes however Bronson's (2006) Northern Canadian case studies are less relevant to the UK population.

7. References of included studies in this supplementary report

Bronson, J & Noble, B. (2006). *Health Determinants in Canadian Northern Environmental Impact Assessment*. Polar Record 42 (223): 315-324.

Davenport, C., Mathers, J., and Parry, J. (2006) *Use of health impact assessment in incorporating health considerations in decision making*. Journal of Epidemiol Community Health; 60: 196-201

Kørnøv, L. (2009) Strategic Environmental Assessment as a catalyst of healthier spatial planning: The Danish guidance and practice. Environmental Impact Assessment Review 29, 60–65.

Taylor, L & Quigley, R. (2002). *Health Impact Assessment - A Review of Reviews*. Health Development Agency.

York Health Economics Consortium (2006). *Cost Benefit Analysis of Health Impact Assessment*. YHEC, University of York 2006.

Appendix 1: Critical Appraisal Tool

Methodology checklist: systematic reviews and meta-analyses

Study	identification		
Include	e author, title, reference, year of publication		
Aim of	Study:		
Check	list completed by:		
SECTI	ON 1: INTERNAL VALIDITY		
In a we	ell-conducted systematic review:	In this study this c	riterion is:
		(√ one option for e	each question)
1.1	The study addresses an appropriate and	Well covered	Not addressed
	clearly focused question.	Adequately addressed	Not reported
		Poorly addressed	Not applicable
1.2	A description of the methodology used is	Well covered	Not addressed
	included.	Adequately addressed	Not reported
		Poorly addressed	Not applicable
1.3	The literature search is sufficiently	Well covered	Not addressed
	rigorous to identify all the relevant	Adequately addressed	Not reported
	studies.	Poorly addressed	Not applicable
1.4	Study quality is assessed and taken into	Well covered	Not addressed
1.7	account.	Adequately addressed	
	account.	Poorly addressed	Not applicable

1.5	There are enough similarities between	Well covered	Not addressed
	the studies selected to make combining	Adequately addressed	Not reported
	them reasonable.	Poorly addressed	Not applicable

SECTION	ON 2: OVERALL ASSESSMENT OF THE S	TUDY		
2.1	How well was the study done to minimise			
	bias? Code ++, + or –			
2.2	If coded as + or – what is the likely			
	direction in which bias might affect the			
	study results?			
SECTION	ON 3: DESCRIPTION OF THE STUDY Plea	se print a	nswers	clearly
3.1	What types of study are included in the	RCT	CCT	Cohort
	review? (Highlight all that apply)	Case-con	trol Oth	ner
3.2	How does this review help to answer your			
	key question?			

Appendix 2: Data Extraction Tool

Data extraction form - Articles that review a series of primary case studies.

Title:

Study details	Population and	Project details and	Outcomes	Results	Notes
	setting	method of appraisal	assessed*		
Authors	Country:	Inclusion criteria:	Outcomes measured:		Limitations identified
			Outcomes measured:		by author(s):
			Process outcomes		
Year:			Y/N/NR		
			<u>Details</u>		Limitations identified
					by review team:
Citation:	Setting (e.g.	Exclusion criteria			
	urban/rural)		Specific Health Issues		
			Y/N/NR		Evidence gaps &/or
Aim of study:	.		<u>Details</u>		recommendations for
	Population:	Method of data			future research:
Ctuality along laws		extraction/collection:	Kanadadan satasan		
Study design:			Knowledge outcome		Course of funding.
			Y/N/NR Details		Source of funding:
Quality score:			<u>Details</u>		
Quality score:					
			Other: Y/N/NR		
External validity			Details:		
score:			Dotano.		
555.01					

Where information is 'Not reported' or 'Not applicable' this should be recorded

^{*} Only record outcomes relevant to this review (i.e., physical activity, mental health/ wellbeing, unintentional injury, environmental measures that affect health including air quality, water quality, noise pollution or land contamination, other health outcome, health knowledge or skills of planners, health outcomes included in the assessment process, recommendations about health outcomes included following appraisal, health recommendations acted upon / implemented, evidence of participation / engagement of communities in discussion on health outcomes)

^{**} Only record results relevant to the outcomes in this review

Appendix 3: Data Extraction Tables

(Set out on the following pages)

Health determinants in Canadian northern environmental impact assessment.

Study details	Population and setting	Project details and method of appraisal	Outcomes assessed*	Results	Notes
Authors Bronson, J & Noble, B. Year: 2006 Citation: Polar Record 42 (223): 315-324 Aim of study: Reports on a study of the nature and use of health determinants in Canadian northern environmental impact assessment, and discusses the key challenges to, and opportunities for, improved practice. Study design: The primary instrument used in this research was a mail-out survey, supplemented by semistructured telephone and face-to-face	Country: Northern Canada Setting (e.g. urban/rural) North of the southern limit of the discontinuous permafrost zone Population: Largely indigenous populations	Inclusion criteria: Based on respondents to purposive survey. Exclusion criteria Not reported Method of data extraction/collection: Mail out survey supplemented by semistructured telephone and face-to-face interviews.	Outcomes measured: Process outcomes Y •determinants of health are invariably considered in EIA •some implementation of recommendations • evaluation only rarely completed in less than 20% of cases Specific Health Issues Y • Income and social status • Education • Physical health • Personal health practices and coping skills • Social support networks • Working conditions • Physical environments • Healthy childhood development • Health services Knowledge outcome NR	1. Bias towards consideration of physical environments as the principal determinant of human health. 2. Health determinants not well integrated throughout the EIA process, providing little follow-up and monitoring of actual health outcomes and the effectiveness of health impact management programmes. 3. There exist different understanding and expectations of the nature and role of health determinants, particularly within the Aboriginal context. No one-size-fits-all framework of health determinants	Limitations identified by author(s): Limited to knowledge & experiences of participants Limitations identified by review team: Limited to remote areas of northern Canada Evidence gaps &/or recommendations for future research: Identify mechanisms to improve upon past practices, and to provide guidance to practitioners on the selection and scope of health determinants Source of funding: Social Sciences and Humanities Research Council of Canada

interviews.	Other: Y	
	Socio-cultural stress	
Quality score:	• Racism	
+	Personal development	
	• Self esteem	
External validity	Mental health	
score:	Assistance to families	
	left with one or no	
	parents as a result of	
	employment	
	opportunities outside	
	the community	

Title: Use of health impact assessment in incorporating health considerations in decision making.

Study details	Population and	Project details and	Outcomes	Results	Notes
	setting	method of appraisal	assessed*		
Authors	Country:	Inclusion criteria:	Outcomes measured:	The review highlights	Limitations identified
Davenport, C., Mathers,	Not specified	Published &	Process outcomes Y	the current lack of	by author(s):
J., Parry, J.		unpublished HIA case		empirical	Articles reviewed by
		studies.	- Role of decision-	evidence available	only one person.
Year:		Reviews of	maker	concerning the	
2006	Setting (e.g.	commentaries.	- Timing of HIA	effectiveness of HIAs in	Limitations identified
	urban/rural)	Reviews and discussion	- Methods of reporting	influencing decision	by review team:
Citation:	Not specified	papers.		making processes	Difficult to see where
Journal of Epidemiol					evidence on
Community	Population:		Specific Health Issues	"HIAs have	effectiveness is from.
Health;60:196-201	Not specified		<u>N</u>	'successfully'	
		Exclusion criteria		influenced decision	Evidence gaps &/or
Aim of study:		If not linked to a		making relating to PPPs	recommendations for
To identify from a range		decision/set of		when (1) key decision	future research:
of sources the factors		decisions	Knowledge outcome N	makers are involved in	
associated with the				the design and conduct	
success of HIA in				of the HIA; (2) there is	Source of funding:
integrating health		Method of data		organisational	Not reported
considerations into the		extraction/collection:	Other: N	commitment to HIA;	
final decision and		To list HIA		and/or (3) where	
implementation of a		characteristics & author		statutory frameworks	
planned policy,		perceptions.		provide legitimacy for	
programme, or project.				HIA within the policy	
				process. They have had	
Study design:				influence where HIA	
(a) a review of HIA case				recommendations are	
studies; (b) a review of				realistic (read	
commentaries, reviews				achievable) and echo	
and discussion papers				political drivers."	
relating to HIA and				and a later than	
decision making; and				"We should reflect on	
, .				whether it is possible to	

(c) an email survey of a purposive sample of HIA academics & practitioners, and policymakers. Information was captured on the following characteristics: information on the year undertaken; geopolitical level; setting; sector; HIA type; methods and techniques used; identification of assessors Quality score: ++ External validity score: ++				link the characteristics of HIA to success, if we define "success" in terms of evidence of a change in/influence on a specific policy action or decision. HIA may bring about greater consideration of health into policymaking via less tangible routes—for example, by encouraging intersectoral working, by raising awareness of the wider determinants of health and so forth."	
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Title of paper: SEA as catalyst of healthier spatial planning

Study details F	Population and	Project details and	Outcomes	Results	Notes
S	setting	method of appraisal	assessed*		
Kørnøv, L	Country: Denmark	Inclusion criteria: Environmental Reports	Outcomes measured: Process outcomes	In Denmark, municipal practice of SEA demonstrates:	Limitations identified by author(s): None
Aim of study: Examines inclusion of	Setting (e.g. urban/rural) Not specified Population: Not specified	Environmental Reports which: - Include environmental assessment of spatial plans - municipal & local levels Exclusion criteria N/R Method of data extraction/collection: Document analysis.	Process outcomes NR Specific Health Issues Y Details - Physical activity - Environmental Health - Unintentional injury - Other e.g. shadowing & visual impact Knowledge outcome N Other: N	- Health is included in planning assessment practice - Health is interpreted in a broader sense than national guidance - Aspects often included include: noise, drinking water, air pollution, recreation/outdoor life and traffic safety - Both negative and positive impacts on health are assessed - Assessment of human health is qualitative - No reference to equity The presentation of human health impacts is lacking in environmental reports (i.e. no separate heading in reports)	Limitations identified by review team: None Evidence gaps &/or recommendations for future research: N/R Source of funding: not known

Health Impact Assessment A review of reviews

Study details	Population and	Project details and	Outcomes	Results	Notes
	setting	method of appraisal	assessed*		
Authors	Country:	Inclusion criteria:	Outcomes measured:	Out of a total of 13	Limitations identified
Taylor, L & Quigley, R.	Not identified		Process outcomes	documents, only one	by author(s):
		 English language only 	<u>Y</u>	met the inclusion	 Limiting evidence
Year:		 1996 to January 2002 	Case study evidence	criteria:	only to reviews.
2002		 Systematic reviews, 	that Manchester Airport		 Limited to HIA
		syntheses, meta-	HIA contributed to	McIntyre, L. and	 Limitation of only
Citation:	Setting (e.g.	analyses and literature	proposal changes.	Petticrew M. (1999).	including published
Health Development	urban/rural)	reviews		Methods of Health	material
Agency	Not identified	The effectiveness of		Impact Assessment: a	 Subjectivity of the
		the HIA	Specific Health Issues	literature review. MRC	critical appraisal
Aim of study:		methodology/approach/	<u>NR</u>	Social and Public	process
If and how the HIA	Population:	process (if and how the		Health Sciences Unit,	
approach informs the	No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	HIA approach informs		Occasional Paper No 2.	
decision making	Not identified	the decision making			Limitations identified
process and, in		process and, in	Knowledge outcome	Other documents were	by review team:
particular, if it improves		particular, if it improves	<u>NR</u>	excluded on the basis	
health and reduces		health and reduces		of their quality.	
health inequalities.		health inequalities).		The south and sounds	Evidence gaps &/or
Ctudy decions			Othory	The authors conclude	recommendations for
Study design: Review & appraisal of		Exclusion criteria	Other: NR	that "there is currently no review-level	future research:
available systematic		If the document	INK	evidence available	Monitoring and
review level evidence.		provided:		to demonstrate if and	evaluation
review level evidence.		• an overview and/or		how the HIA approach	• Inequalities
Quality score:		critical appraisal of HIA		informs the decision	Evidence
•		developments		making process and, in	Methodology.
++		within a		particular, if it improves	Course of from the st
		country/region/locality,		health and reduces	Source of funding:
External validity		or		health inequalities".	Hardy Daniel Control
score:		an individual HIA		moduli moquanioo .	Health Development
++		case study, or			Agency
		descriptive account of			
		a tools/resources			

development. In addition papers that focused on other forms of impact assessment, for example environmental, were excluded.		
Method of data extraction/collection: Not recorded.		

Title of paper: Cost Benefit Analysis of Health Impact Assessment Final Report November 2006

Study details	Population and	Review details and	Outcomes	Results	Notes
	setting	method of appraisal	assessed*		
Authors	Country:	Inclusion Criteria	Outcomes measured:	-Benefits of HIA	Limitations identified
York Health Economics	England	HIAs identified from key	Process outcomes Y	outweighed the costs	by author(s):
Consortium		respondents in	Process Evaluation:	- identification of	
	Setting	government offices,	-Barriers to	practical challenges	-The sample of HIAs
Year:	Range of 8 projects and	public health	development/process	and difficulties in	considered may not be
2006	7 strategies including	observatories,	of HIA	conducting HIA;	representative due to
	economic development	universities, HIANET	-Costs involved in	capacity and capability	the need for a
Citation:	strategy, spatial	mailing list, Local	undertaking HIA	within organisations;	pragmatic approach to
Cost Benefit Analysis of	planning and economic	Strategic Partnerships;		changes in scope or	sampling to fit in with
Health Impact	development strategy,	final selection based on	Impact Evaluation:	timeframe of proposal,	timeframe for
Assessment. YHEC,	older people's strategy,	pragmatic selection with	-Identify qualitative	project or plan; non-	completing research
University of York 2006	health care delivery	HIA included if the	benefits of HIA	statutory nature of HIA	- not possible to
	project (3) and plan (1),	assessment would be	-Value of perceived	- monitoring and	determine whether
Aim of study:	regeneration project (1)	concluded by April	benefits of HIA	evaluation influences	outcomes predicted by
To undertake a cost-	and strategy (1), winter	2006.		by lack of resources	HIA and mitigating
benefit of HIA	heating project, health		Outcome evaluation:	- majority of HIAs had a	steps put in place to
Of the last time	promotion project,	For the state of the state	-Value the impact of	positive impact on the	address them were
Study design:	healthy school meal	Exclusion criteria	HIA of public health	decision making	realised in practice
Prospective study of 15	proposal, transport	HIA not completed by	0 25 - 11 10 - 1	process by increasing	due to length of study.
case studies (3	strategy, child care	April 2006	Specific Health Issues	consideration given to	Limitation o identifical
relevant, i.e. completed	project.	Mother of of data	<u>NR</u>	health impacts, but	Limitations identified
and related to spatial	Damidation.	Method of data		difficult to attribute	by review team:
planning) where HIA	Population:	extraction/collection:	Kanada dan sakaran	changes in the planned	Timeframe for research
undertaken with	Varied UK locations;	Preliminary meeting	Knowledge outcome	projects or plans	unhelpful
retrospective analysis of		with HIA and research	<u>NR</u>	specifically to HIA	Fridance want 9/am
control areas.		team.	Othor V		Evidence gaps &/or recommendations for
Quality score:		End of stage survey with HIA leads	Other Y Costs		future research:
		Questionnaires	C0515		Longer term studies
+		provided to other			need to assess whether
External validity		stakeholders, including			outcomes predicted by
score:		decision makers			HIA and mitigating
		uccioion makers			The and miligating

Timesheets capturing resources allocated to HIA activities Willingness to pay questionnaires with decision makers and other stakeholders Qualitative interviews assessing impact.	steps were realised in practice. Source of funding: Dept of Health, England
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