

# Data management

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# Data management in a review



# Data management

- Large volume of paper, decisions- need to avoid being overwhelmed
- Keep careful records of decisions and progress to date
  - What papers have been screened, appraised
  - Who is to do what
  - Minor decisions about amendments

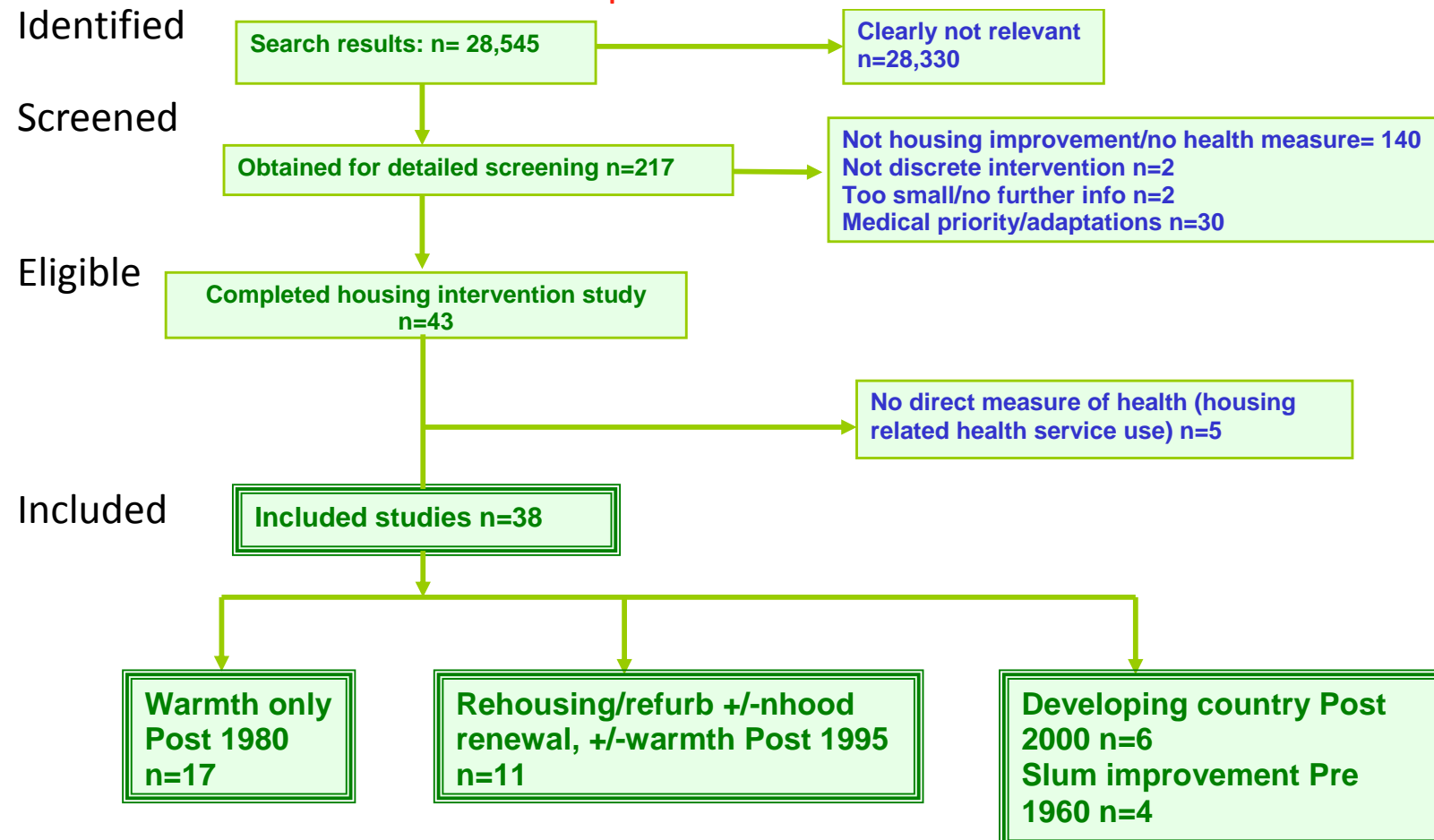
# Data management

- Transparent process of selection of studies
  - For reviewer and reader
  - Systematic reviews should be replicable
- Need to keep record to meet reporting standards for publication: PRISMA

# Review flowchart showing study selection:

## Identification; screening; eligibility; included

Essential for publication of review



Also provide full list of excluded studies as appendix

# List of excluded studies

- **Not housing intervention (most often reports of associations at single time point) (n=4)**
- What is the impact of environmental housing conditions on the health and well-being of children? (SCARE briefing) (<http://www.scie.org.uk/publications/briefings/files/scare19.pdf>, accessed 14/08/06). London, Social Care Institute for Excellence.
- Bornehag, C. G., J. Sundell, et al. (2005). "Association between ventilation rates in 390 Swedish homes and allergic symptoms in children." Indoor Air **15**(4): 275-80.
- Kamien, M. (1978). "Housing and health in an aboriginal community in Australia." Ekistics **45**(267): 65-69.
- Nayar, K. R. (1997). "Housing amenities and health improvement: some findings." Econ. Polit. Week. **32**(22): 1275-1279.
  
- **No assessment of changes in health outcomes (n=6)**
- (1977). ".. as healthy as all the others". Living in concrete buildings. Bauwirtschaft. Ausgabe B **31**(6): 207-208.
- (1978). An exploratory project on heating for the elderly. United Kingdom, Department of the Environment.
- Aldakheel, R. M. (1996). "Residents' satisfaction with public housing: The case of Buraidah Public Housing Development in Saudi Arabia." Dissertation Abstracts International Section A: Humanities & Social Sciences **56**(8-A): 2907.
- Altus, D. E. and R. M. Mathews (2002). "Comparing the satisfaction of rural seniors with housing co-ops and congregate apartments: is home ownership important?" Journal of Housing for the Elderly **16**(1/2): 39-50.
- Bordet, J. (1994). Evaluation du projet local de maintien dans le milieu de vie, SH/CSTB. Paris, France: 130.
- Lawrence, R. J. (1981). "Postoccupancy evaluation of medium density housing in Cherry Hinton, UK." Ekistics **48**(287): 157-165.
  
- **Not primary study of housing improvement (includes reviews & commentaries) (n=1)**
- (2003). "Recommendations to promote healthy social environments." American Journal of Preventive Medicine **24**(Suppl3): 21-24.

# PRISMA

- **P**referred **R**eporting **I**tems for **S**ystematic reviews and **M**eta-**A**nalysis (replaces QUORUM)
- Evidence-based checklist of 27 items & flow chart
- To improve the reporting of systematic reviews and meta-analyses.
- Journals increasingly require this as a reporting standard before publication
- See <http://www.prisma-statement.org/>

# Data management tools

- Reference management
  - Bibliographic software- Endnote, RefMan, Refworks, Excel
  - Use custom fields to label as included or excluded
- Enter data onto a database, e.g. Excel, Access
  - Much more manageable than paper
  - Makes cross-study comparison easy
- Initially need two records for each study to allow two reviewers to assess studies
  - Make sure two reviewers cannot overwrite each other in data extraction database
  - Try to keep reviewers blinded to other reviewer



# Data management tools

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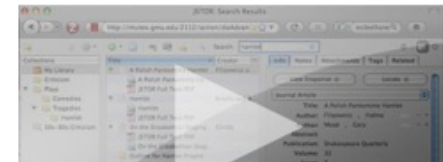
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# Cochrane & Campbell resources

- Review Management software
  - RevMan (Cochrane- free download)
  - EPPI reviewer- not free
  - Open source version of Endnote
- Standardised effect size calculator
  - [http://www.campbellcollaboration.org/resources/effect\\_size\\_input.php](http://www.campbellcollaboration.org/resources/effect_size_input.php)
  - Also in RevMan

M.	Rec...	Author	Year	Title	Label	Cu...
	377	Altena		Effective Interventions for Homeless Youth: A Systematic Review		
(397)	411	Altena	2010	Effective Interventions for Homeless Youth A Systematic Review		
(390)	421	Altman	2011	How to obtain the confidence interval from a P value		
... (0)	422	Altman	2011	How to obtain the P value from a confidence interval		
My ...	424	Anderson	2011	Using logic models to capture complexity in systematic reviews		
	341	Armstrong	2008	Reviews in public health and health promotion		
(7)	362	Bambra	2008	Tackling the wider social determinants of health and health inequalities: evidence from syste...		
	366	Bambra	in press	Tackling the wider social determinants of health and health inequalities: evidence from syste...		
Onl...	412	Bassil	2010	Effectiveness of Public Health Interventions in Reducing Morbidity and Mortality during Heat E...		
(0)	423	Bentley	2011	Association Between Housing Affordability and Mental Health: A Longitudinal Analysis of a N...		
(0)	285	Best	1999	Health inequalities: the place of housing		
(0)	275	Bland	2000	Statistics Notes: The odds ratio		
(0)	261	Bonnefoy	2003	Housing and health in Europe: preliminary results of a Pan-European study		
(0)	137	Baba	1994	Research into the achievement and impact of 'Assistance Programme for Healthy Housing' of...	?MPR review, adaptations to pro...	, el
m...	21	Blackman	2003	Change in adult health following medical priority rehousing: a longitudinal study.[see comment]	?MPR review, although some mo...	Med
	19	Batcheller	2004	Boston Health Homes Initiative: Final report	?MPR review, equipment and im...	, nc
En...	15	Altus	2002	Evaluating the impact of elder cottage housing on residents and their hosts	?MPR review, no indication of im...	Psy
co...	18	Attewell	2003	The housing environment in a green-scape perspective: a review of Danish studies	Exclude nov05	, nc
	12	Aldakheel	1996	Residents' satisfaction with public housing: The case of Buraidah Public Housing Developme...	Exclude nov05,	Psy
Fin...	8	Adams	2003	Healthy homes, healthier lives: linking health, housing and social care services for older people	Exclude nov05,	Cin
	9	Adekolu-...	1988	Housing and health of a resettlement exercise in Nigeria	Exclude nov05,	, el
	10	Ahlstrand	1990	Cost-effectiveness of improved housing for the elderly. An example on the use of a model to p...	Exclude nov05,	Med
	11	Ahrentzen	2003	Double Indemnity or Double Delight? The Health Consequences of Shared Housing and "Do...	Exclude nov05,	Soc
	13	Allen	2000	Housing renewal - doesn't it make you sick?	Exclude nov05,	Ass
	14	Altus	2002	Comparing the satisfaction of rural seniors with housing co-ops and congregate apartments: i...	Exclude nov05,	Cin
	17	Anderson	2003	Providing affordable family housing and reducing residential segregation by income. A syste...	Exclude nov05,	Med
	16	Anderson	2002	Community interventions to promote healthy social environments: early childhood developme...	Exclude nov05,	Med
	20	Baum	1980	Reducing the stress of high-density living: An architectural intervention	Exclude nov05,	Psy
	190	Ambrose	2002	Second best value: The central Stepney SRB. How non-joined-up government policies under...	exclude, aug06	
	22	Bordet	1994	Evaluation du projet local de maintien dans le milieu de vie	Exclude, nov05	Icor
	248	Barton	2007	The Watcombe Housing Study: the short term effect of improving housing conditions on the h...	Include	
	183	Armstrong	2006	Impediments to policy implementation: The offer of free installation of central heating to an eld...	Include May 06	
	133	Ambrose	1996	'I mustn't laugh too much': housing and health on the Limehouse Fields and Ocean estates in ...	Include nov05,	, el
	134	Ambrose	2000	A drop in the ocean; the health gain from the Central Stepney SRB in the context of national h...	Include nov05,	, el
	135	Ambrose	2001	For richer, for poorer? Counting the costs of regeneration in Stepney	Include nov05,	, el
	136	Armstrong		central heating protocol	Include nov05,	, nc
	138	Barnes	2003	Housing and health uncovered ( <a href="http://www.sbhg.co.uk/NR/rdonlyres/3291AD65-81F9-4409-B...">http://www.sbhg.co.uk/NR/rdonlyres/3291AD65-81F9-4409-B...</a> )	Include nov05,	, nc
	139	Basham	2004	Central heating: Uncovering the impact on social relationships in household management (htt...	Include nov05,	, nc
	140	Blackman	2001	Housing renewal and mental health: a case study	Include nov05,	Cin
	141	Blackman	2001	Neighbourhood renewal and health: Evidence from a local case study	Include nov05,	Em
	131	Allen	2003	Evaluation of the housing for healthier hearts project: September 2000- January 2003	include nov06	, nc
	132	Allen	2005	Private sector housing improvement in the UK and the chronically ill: implications for collabora...	include nov06	, nc
	225	Allen	2005	Evaluation of the housing for healthier hearts project April 2003-March 2005	include nov 06	, nc
	129	Aiga	1999	Impact of improvement of water supply on reduction of diarrheal incidence in a squatter area ...	Include, no before measures or ...	Em

# Tips for Endnote

- Use “groups” at left hand side of screen
- Use “change field” tool
- View reference with abstract in viewing pane at bottom (may need to create new reference style)



Unique	Short Int Cat	Reviewer	Author	Publication Yr	Country	Title	Secondary Publicati	Include	Individuals likely to be	% and number of selected individuals
26		HT	Aiga et al	2002	Phillipin es	?EXCLUDE as only to do with provision of private water faucets- or include at the moment but exclude from	102	?devel	Very likely	97.6% (201/206) in int group and 98.5% (201/204) 32 excluded from analysis as impossible to assess water consumption as 170,000
319	Provision of basic housing needs/developing country conditions	Combined	Aiga et al	2002	Phillipin es	?EXCLUDE as only to do with provision of private water faucets- or include at the moment but exclude from	102	?devel	Very likely	97.6% (201/206) in int group and 98.5% (201/204) 32 excluded from analysis as impossible to assess water consumption as 170,000
254		ES	Aiga et al	2002	Philippin es	#103 Impact of improvement of Water supply on household economy in a squatter area of Manila	Impact of improvement of Water supply on reduction of	?devel	Yes	97.6% (201/206) in intervention and 98.5% (201/204) in controlgroup
474		ST	Allen							71/90 but DISAGREE with HT comment: completed questionnaires: 61% self completed; 24% by interviewee 11% by relative 96%
269		HT	Allen	2005	UK	Evaluation of the housing for health project April 2003- March2005			somewhat likely	49/56 88%
264		ES	Allen	2005	UK	Evaluation of the Housing for Health Project			Very likely	87.5%; 49/56 (resident quest); 50% 28/56 (health quest)
29		HT	Allen	2005	UK	Private sector housing improvement in the UK and the chronically ill: Implications for collaborative working	104- full report		very likely	71/90+ referrals to scheme but full baseline data available on 64 individuals does this equal the 61% who completed health
304	Warmth/energy efficiency measures	Combined	Allen	2005	UK	Evaluation of the housing for health project April 2003- March2005			somewhat likely- referrals were not as common as expected. Likely that	49/56 87.5% (resident quest); 50% 28/56 (health quest)
301	Warmth/energy efficiency measures	Combined	Allen (1st)	2005	UK	Private sector housing improvement in the UK and the chronically ill: Implications for collaborative working	104- full report		very likely	71/90+ referrals to scheme but full baseline data available on 64 individuals (not all numbers tally) : 61% self-completed; 24% by
263		ES	Allen T.	2005	UK	Private sector housing improvement in the UK and the chronically ill: Implications for collaborative working	#104. Evaluation of the housing for healthier hearts project		somewhat likely	71/90 respondents at baseline
253		ES	Ambrose	2000	UK	A drop in the ocean	#106 Ambrose P. I mustn't laugh too much. #108 Ambrose P. For		very likely	93% (107/115 households; n= 525)
30		HT	Ambrose	1999	UK	Drop in the ocean	For richer for poorer- 108 I mustn't laugh too much. 106		Very likely	Baseline 107/120 randomly selected households (525/227 people before/after) from three estate tower blocks. At phase 2, 15 economic
302	Rehousing/refurbishment +/- neighbourhood regeneration +/- selection	Combined	Ambrose	1999	UK	Drop in the ocean	For richer for poorer- 108, I mustn't laugh too much. 106	Include	Very likely	Baseline 107/120 randomly selected households (525/227 people before/after) from three estate tower blocks. At phase 2, 15 economic
260		ES	Baba	1994	Japan	Research into the achievement and impact of Assistance Programme for Healthy Housing		No	yes	100% 447 householdds
249		ES	Barnes	2003	UK	Housing & Health Uncovered /Central Heating			Somewhat likely	n=11. Original sample not reported