### - CASE STUDY

## Factors relating to the uptake of interventions for smoking cessation amongst pregnant women:

## a systematic review and qualitative synthesis

Work funded by the National Institute for Health and Clinical Excellence

Research Fellow Excelle Section of Public Health School of Health and Related Research University of Sheffield

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#### Choices and challenges:

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- Focusing the question
- Searching
- Data extraction
- Quality assessment
- Analysis and synthesis

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Same Same

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Dr Susan Baxter

## Focusing the question

OR

There must be a ton of stuff out there how am I going do something useful and fit the review into the time available?

# Underpinned by PICO(s) or SPICE

- Factors relating to the uptake of interventions for smoking cessation amongst pregnant women
- Pregnant women
- Just pregnant women and/or recently pregnant women (within one year of birth)?
- Partners?

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#### Same.

Factors relating to the uptake of interventions for smoking cessation amongst pregnant women

All smoking cessation interventions?

Just some? Nicotine replacement therapy Cognitive Behavioural Therapy Group support interventions Counselling Include brief advice provided by a health professional

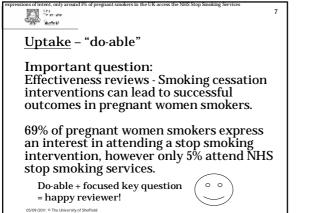
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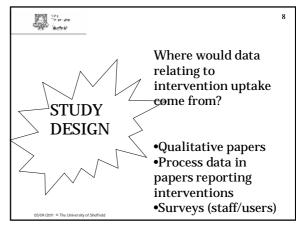
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Factors relating to the uptake of interventions for smoking cessation amongst pregnant women

All interventions – potentially large volume of literature Barriers and facilitators to attending, views of interventions - large volume of literature

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#### Qualitative synthesis = combining of data from primary qualitative studies

Or can it include any textual data? Qualitative = analysis of words/text rather than numbers Sec.

## Searching and sifting

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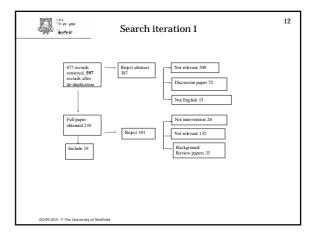
Why on earth did we decide to do uptake, we must be mad thinking of including all study designs

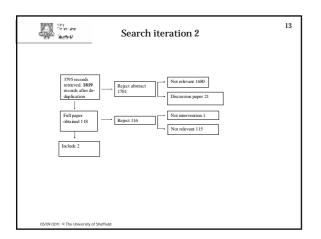
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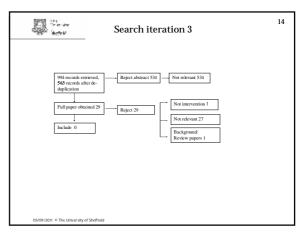
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#### Iterative searching process

- 3 waves of database searching
- Retrieved citations used to inform further key word, author, citation searches
- Checking of reference lists and relevant reviews
- Process continues until little/no new material







15 Sin and Sin an 16 鳳谷 (Anti smoking or antismoking).ti. AND Science Citation Index and Social Science Citation (Pregnan\* or prenatal or pre natal or antenatal or ante natal or post natal or postnatal).ti. Index via Web of Knowledge (no limits applied); (smoking adj (cessation or intervention)).ti. Maternity and Infant Care via OVID SP (no limits AND applied); PsycINFO via OVID SP (1990-2009); (Pregnan\* or prenatal or pre natal or antenatal or ante natal or post natal or postnatal).ti. Embase via OVID SP (1990-2009, English); (tobacco adj (cessation or intervention)).ti. Medline via OVID SP (1990-2009, English); AND CINAHL via EBSCOhost (1990-2009); (Pregnan\* or prenatal or pre natal or antenatal or ante natal or post natal or postnatal).ti. ASSIA via CSA (1990-2009, English); ((quit\* or stop\*) adj (smoking or smoker)).ti. British Nursing Index via OVID SP (no limits). AND (Pregnan\* or prenatal or pre natal or antenatal or ante natal or post natal or postnatal).ti. 05/09/2011 © The University of Sheffield 05/09/2011 © The University of Sheffield

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The focus of the review question on the delivery and uptake of services rather than the interventions themselves required scrutiny of many intervention studies, searching for those aspects describing delivery.

These aspects were not reported in the paper abstracts, and often represented only a very small section of data.

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#### RESULTS

Database of 2979 citations 23 included papers

10 qualitative papers 10 survey papers 3 narrative descriptions in papers reporting RCTs 18

11 papers reported staff perspectives 11 papers reported pregnant or recently pregnant women perspectives 1 reported both

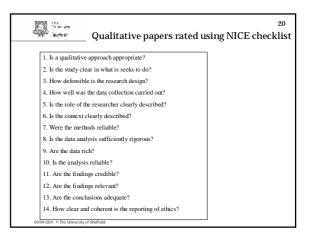
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## Quality appraisal and extraction

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How the heck do we deal with these different designs?



21 22 Sec. Surveys All or nearly all criteria fulfilled = high No NICE tool quality Quality indicators identified – e.g. Design and Most criteria fulfilled = good quality piloting of survey instrument, sample size, recruitment process, analysis. Few criteria fulfilled = poor quality Narrative data - limited quality but added insights 05/09/2011 © The University of Sheffield 05/09/2011 © The University of Sheffield

	P1				23
1. Study reference 2. Research question 3. Funding	1.Sampling strategy 2.Sample achieved 3. Method of allocation	Population characteristics	I. Details of intervention     2. Details of any comparator     3. Data collection method for qual studies	<ol> <li>Outcome</li> <li>Method of analysis</li> </ol>	Study findings key themes
Abrahammson et al. (2005) What are the experiences of midwives approaching women smokers in antenatal care? Funding	Purposive sampling for variation in interests, participation in specific training, geographical location of work, age and duration in the position. 24 participants of 27 invited.	N=24. Midwives. 2-24 years experience in antenatal work. All female. Age 27-61. All had been involved in recent training as part of a smoke free project including motivational interviewing training.	Qualitative interview study. 20 conducted in person, 4 via telephone.	Phenomenograp hic approach. Developing a set of story types to make sense of individual experiences.	Avoiding the issue of smaking link ed to previous experiences of persuansion or information gringing the second second second second second second link of competences to idea with the initiation. Insportance of information gene women to better burghening of all our persuant women, or the burgh welbening fills or ever experience was that that "informing" and an or work. Martail extensionships even as a took that would find the second
Anderson (2002) What are pregnant women's experiences with their care provider? No funding declared.	No detai Is provided regarding sampling strategy	N=26 Pregnant women who weres moking. Described as primarily lower income, lower educated women, most in their 20s. Nearly half had other children.	Qualitative focus group study. 3 focus groups run.	No details regarding analysis of data.	Variation is whether smoking crossion had here drosseed by physicians. None of the participants described a theoregit arternet to explain who smoking was doing to the hady, how quatting lowers risks, and how to go about Some worsen, insulted by condecernding tones and hit feeling cressful. To Description of pracching, augging in Description of pracking augging at the procession of a section of a section of a section of a section of the Description of pracking augging at the government of the section of the section of a section of the sectio

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## Synthesis

OR Now that we've got it we have to do something with it

#### **國** 計畫

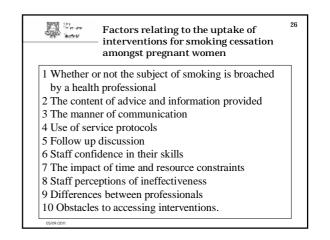
•Principles of thematic synthesis (Thomas & Harden, 2008) used

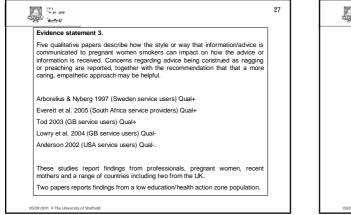
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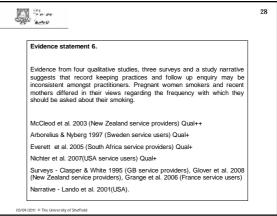
•Each study was read and line-by-line coded according to its meaning and content to establish core themes

•Themes were then compared and contrasted to further develop key themes across the studies.

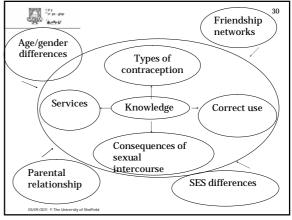
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### Writing it up

OR This work is so great everyone has to hear about it

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#### Publication

• Word count

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- What to do with the extraction table
- Reviewers used to effectiveness reviews and meta-analysis

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34

• Going beyond stating the obvious

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## End of the study

OR

I am going to think very carefully before doing that again

OR maybe Can't wait until I do the next one! Ser and a series of the series

Baxter, S., Everson-Hock, E., Messina, J., Guillaume, L., Burrows, J., Goyder, E. (2010). Factors relating to the uptake of interventions for smoking cessation among pregnant women: a systematic review and qualitative synthesis. Nicotine & Tobacco Research, Volume 12, Issue 7, pp 685-694.

Baxter, S., Blank, L., Messina, J., Guillaume, L., Everson-Hock, E., Burrows, J. (2009) Systematic review of how to stop smoking in pregnancy and following childbirth. National Institute for Health and Clinical Excellence, London.

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