Welcome!

This workshop is a collaboration between

MPFT PRIDE project and Keele University with support from the NIHR Research Design Service (West Midlands)







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Workshop facilitators

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Evidenced Based Public Health (EBPH) has made significant contributions; however at times there is no "best evidence" to draw from, or that available best evidence will not fit your



Context. Diagram courtesy of "Brownson et al. Evidence-based public health: a fundamental concept for public health practice. Annu Rev Public Health. 2009;30:175-201".



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EBPH

- *Is not EBM, it is much more complex!*
- A common issue in defining PH research is that it can be too broad, reflecting the complexity, leading to answers that are broad, complex, and difficult to interpret
- Aim: to help you to refine the research questions you wish to answer so that they are sufficiently clear, specific, detailed, and <u>testable</u>

<u>Table courtesy of "Brownson et al. Evidence-based public health: a fundamental concept for public health practice. Annu Rev Public Health. 2009;30:175-201".</u>

Category	Examples		
Individual	Education level		
	Basic human needs ^a		
	Personal health history		
Interpersonal	Family health history		
	Support from peers		
	Social capital		
Organizational	Staff composition		
	Staff expertise		
	Physical infrastructure		
	Organizational culture		
Sociocultural	Social norms		
	Values		
	Cultural traditions		
	History		
Political and economic	Political will		
	Political ideology		
	Lobbying and special interest		
	Costs and benefits		





Task 1 (whole group)

What are the public health priorities and issues for you and your team?





Task 2 (split off into groups) Each group to choose one priority to work on – write down everything you can about the priority or issue, noting the complexities





Task 3 – the Red Top tabloid editor From your description of the priority/issue create a "headline" of what <u>you want to do</u> using 7 words or less





Task 4

"To be or not to be, that is the research question"





- Refining your question using **PICO**
- P (Population, Problem)
 I (Intervention or Exposure)
 C (Comparison or Control)
 O (Outcome)





Refining your question using **PICO**

P

- Who is the population you want to study (whole, subcommunity, individuals)?
- Describe/define population age range, gender, background, where located





Refining your question using PICO

• What is the "intervention" or "exposure", essentially the factor that leads to a change?

• How will this factor be measured, what is the criteria?





Refining your question using PICO

C

- What is the "comparison", how will you know the intervention/exposure makes a change, what are the details/specifics?
- Will you compare to those without the intervention/exposure, will it be a before and after in a single group?





Refining your question using PICO

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• What is the "outcome" and how will it be measured, what are the specifics

• How strong is the linkage between intervention/exposure and outcome (might there be other reasons for change)?





Use your PICO to now write your research question

- Key points to consider –
- Can the question be written in a single sentence
- Does it specify the population
- Does it state the intervention/exposure
- Is there a comparison group
- Is there a clear outcome (specified)

Often written: The effectiveness/risk of (I/E) versus (C) for (O) in (P)





- Refining your research question using **FINER**
- F is it feasible
- I is it of interest
- N is it novel
- E is it ethical
- R is it relevant





<u>Useful resources</u>

- Richardson WS, Wilson MC, Nishikawa J, Hayward RSA. The well-built clinical question: a key to evidence-based decisions [Editorial]. ACP J Club 1995;123(3):A12-3.
- <u>http://ph.cochrane.org/sites/ph.cochrane.org/files/public/uploads/Unit_Five.pdf</u>
- Centre for Health Evidence: "Users' Guides to Evidence Based Practice" <u>http://www.cche.net/usersguides/start.asp#Questions</u>
- Guidelines for graduate students: "Choosing and refining a research topic" <u>http://www.fiu.edu/~kowert/topic.html</u>
- How to write Specific Aims: http://www.theresearchassistant.com/tutorial/4-4.asp
- https://libguides.cedarville.edu/picoquestion/what_is_pico



Are mass media interventions effective in preventing smoking in young people?

	Problem,	Intervention	Comparison	Outcome	Types of
	population				studies
mple	Young	1. Television	No	 objective 	1. RCT (and
-	people,	2. Radio	intervention	measures of	quasi-RCT)
	under 25	Newspapers		smoking	2. Controlled
	years of age	4. Billboards		self-reported	before and
		5. Posters		smoking	after
		6. Leaflets		behaviour	studies
		7. Booklets		3. Intermediate	3. Time series
				measures	designs
				(intentions,	
				attitudes,	
				knowledge)	
				4. Process	
				measures (eg.	
				media reach)	

Courtesy: http://ph.cochrane.org/sites/ph.cochrane.org/files/public/uploads/Unit_Five.pdf



Exqu





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O & A

