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Evidence-based public health and information needs of public health workers: a systematic search and review

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¹ Research conducted as part of MPH thesis at London School of Hygiene & Tropical Medicine

Objective

This study aims to assess the information needs of public health workers based on a review of the literature using a systematic search strategy.

Methods

Screening

- ➤ Databases searched: PubMed, Web of Science, Library Literature, LISTA
- ➤ Inclusion criteria: English language, published between 2005-2015, primary data collection only, study population of PH workers
- ➤ After screening 1037 records, 12 qualitative studies and 21 quantitative studies (total= 33) were included in the final analysis.

Data extraction & critical appraisal

- ➤ What is critical appraisal?
- ➤ The process of carefully and systematically examining research to judge its **trustworthiness** and its **value** and **relevance** in a particular context¹.
- ➤ Data extraction and critical appraisal were conducted using CASP (qualitative) and STROBE (quantitative) checklists^{2,3}.

Example questions

- Was data analysis sufficiently rigorous? (CASP)
- Discuss generalizability of study results. (STROBE)
- Describe efforts to address potential sources of bias.
 (STROBE)

Results

- Critical appraisal revealed potential biases that affected the validity of studies.
- Five themes emerged in the analysis: defining information needs, defining evidence-based information, information-seeking behaviour and use, barriers to information needs, and public health-specific issues.



Fig. 1 Critical appraisal issues identified in the analysis of 33 studies.

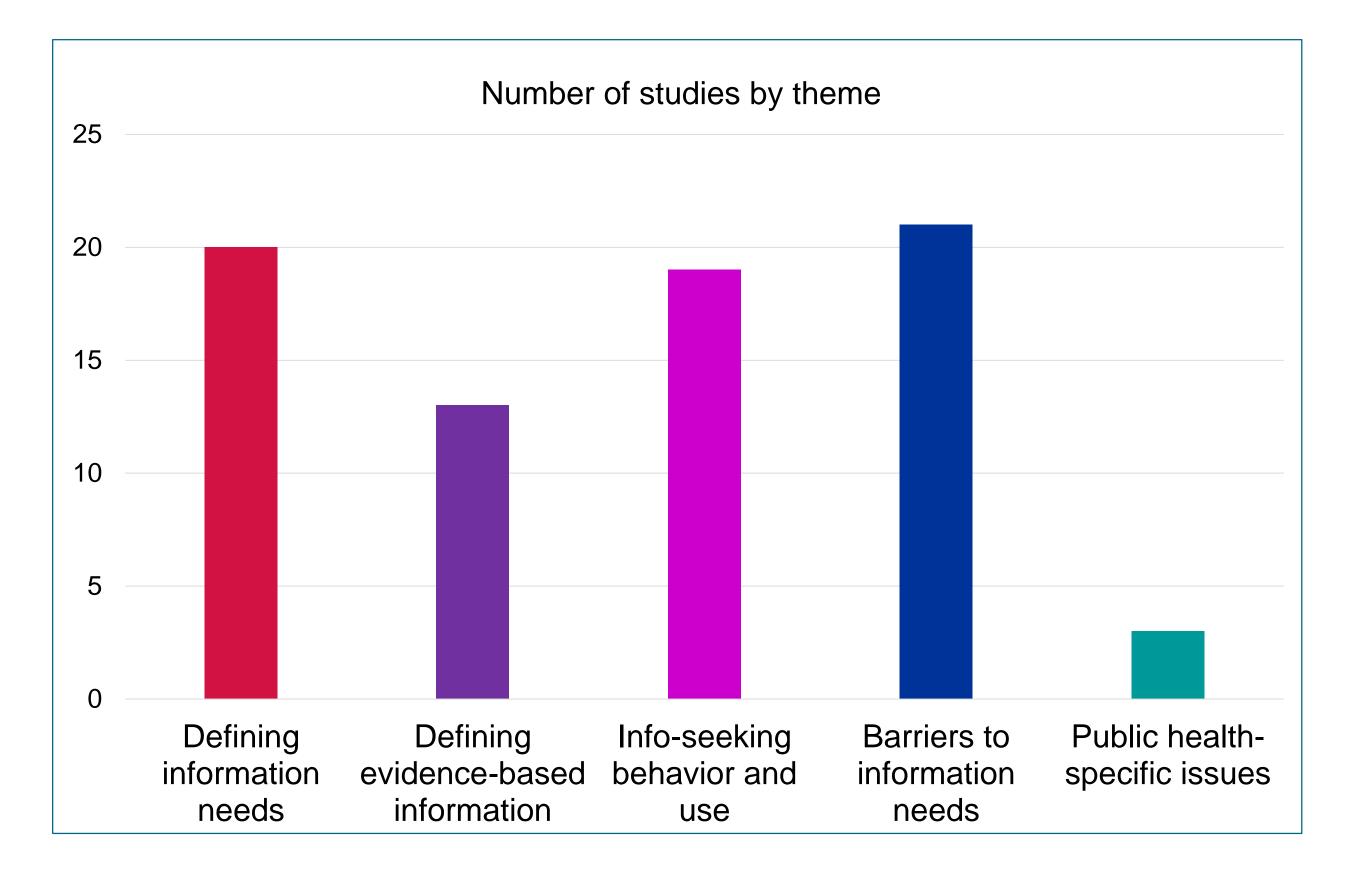


Fig. 2 Themes identified in the analysis of 33 studies.

Conclusions

- > PH workers do not have a clear understanding of evidence and how to apply it to PH practice
- > PH workers are unaware of library services including databases and librarians' expertise
- ➤ PH workers are interested in improving their skills in epidemiological research methods and finding & using information to inform practice
- Research studies conducted by librarians had low internal and external validity

Recommendations for librarians working with public health populations

- Teach evidence-based information basics (e.g. what is evidence, importance of peer-review)
- Increase awareness of library collections, services, and public health-specific resources
- Measure actual use of library services in addition to reported use to inform purchase decisions and outreach needs

Recommendations for librarians conducting research

- Increase sample size to increase generalizability
- Use multiple data collection methods
- Pilot surveys to increase face & content validity
- Analyze data; do not report primary data
- Acknowledge potential biases and confounders

References

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- 3. Institute of Social and Preventative Medicine at the University of Bern. (2007). STROBE statement. http://www.strobe-statement.org