



ABC of Research Methodology and Research Methods Repository

Introduction

The 'ABC of research methodology and research methods repository' aims to provide a set of introductory resources to support clinicians working in palliative care to better understand, undertake and utilise research. It is designed to facilitate the implementation of the core competences in research, as described in the RESPACC Framework. The 'ABC' builds upon the outputs of the RESPACC project, including the pre-recorded lectures on translating clinical ideas into research, and the lesson plans from these sessions.

The key resources listed here provide a foundation to guide clinicians. These resources are a starting point, and are not intended to be comprehensive or exhaustive, but presented to help you think about study design and methodology. We strongly urge you to seek further guidance on the areas highlighted and to seek support from your colleagues in local research/academic organisations, and engage with the wider literature.

Note about the listed resources:

We have endeavoured to identify contemporary resources that are most likely to be: easy to read, accessible (Open Access – free - where possible) and relevant for healthcare research contexts. As books and book chapters provide summaries and guidance on key topics, we have included them where appropriate, although most are not Open Access. For published journal papers and other online resources – we have provided direct links. Where appropriate, we have provided website links that were checked as correct in October 2022. The majority of resources are in English, but where possible we have identified material written in Spanish, Greek and Romanian.





Topic/session	Key resources
1.What is research? Identifying a Clinical problem; Research	RESPACC C2 What is research https://youtu.be/ajBCpfjXFdc
question, Aims, Objectives, Hypotheses	
	RESPACC O4 http://www.studiipaliative.ro/wp-content/uploads/2022/09/1.RESPACC-
This section provides resources to enable development of a clinical problem or concern into a researchable question and/or	O4_What-is-research.pdf
a study hypothesis. It seeks to help formulate study aims and	https://bastowestics.hmi.com/info/toollrit/loom.shm/hovy.to.glorify.c.glinical.gyaction/
objectives to address a clinical issue in palliative care. It clarifies	https://bestpractice.bmj.com/info/toolkit/learn-ebm/how-to-clarify-a-clinical-question/
the difference between 'aims' and 'objectives' within a research	Farrugia P, Petrisor B, Farrokhyar F, Bhandari M Research questions, hypotheses and objectives.
proposal.	Can J Surg 2010; 53(4): 278-281 Research questions, hypotheses and objectives - PMC (nih.gov)
	Ratan SK, Anand T and Ratan J. Formulation of research questions – Stepwise approach <i>J Indian</i>
	Assoc Pediatr Surg 2019; 24(1): 15-20 Formulation of Research Question – Stepwise Approach -
	PMC (nih.gov)
	Vandenbroucke J and Pearce N. From ideas to studies <i>Clin Epidemiol</i> 2018: 10: 253-264 From ideas
	to studies: how to get ideas and sharpen them into research questions - PMC (nih.gov)
	Skivington K, Matthews L, Simpson S A, Craig P, Baird J, Blazeby J M et al. A new framework for
	developing and evaluating complex interventions: update of Medical Research Council
	guidance BMJ 2021; 374 :n2061 doi:10.1136/bmj.n2061
	https://www.bmj.com/content/374/bmj.n2061
2.How to do a literature review	RESPACC C2 How to do a literature review_1 https://youtu.be/snuifC8qRPQ
The section provides resources to enable the accurate	RESPACC C2 How to do a literature review_2 https://youtu.be/zowP5Znp6M8
formulation of a literature review question, and provides	





guidance on how to select an appropriate method to undertake	Systematic Review Libguide https://lancaster.libguides.com/SystematicReviews
a review. There are many different types of literature review	
methods and it is essential that the selected method is	ISSG Search Filters https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/home
compatible with the aims of the review.	Cochrane Searching https://training.cochrane.org/handbook/current/chapter-04
	PubMed https://pubmed.ncbi.nlm.nih.gov/
	Rayyan.ai https://rayyan.ai/
	Aveyard, H., Payne, S. A., & Preston, N. J. (2021). A post-graduate's guide to doing a literature review in health and social care. 2 nd edition Oxford University Press: Oxford.
	Fink (2014) Conducting research literature reviews: from internet to paper. Sage: Thousand
	Oaks
3. What are, when and how to use quantitative methods?	RESPACC C2 What are, When and how to use quantitative research
	https://youtu.be/McZsJ9XnNa8
This section focuses on developing an understanding of the	
process of building statistical approaches to gather evidence to	RESPACC O4 What are, When and how to use quantitative research
make predictions about relationships between variables. This	http://www.studiipaliative.ro/wp-content/uploads/2022/09/3.RESPACC-O4What-are-when-
includes the use of basic descriptive analyses and the formal	and-how-to-use-quantitative-methods.pdf
evaluation of complex problems.	
	Hissong, A. N., Lape, J. E. and Bailey, D. M. (2014). Bailey's research for the health professional (3rd ed.).
	F.A. Davis Company.
4. Quantitative research approaches and study design.	RESPACC C2 Quantitative research approaches
	https://youtu.be/UzvHso4fRp8
This section outlines the differing approaches used in	
quantitative research, and encourages the student to explore	RESPACC O4 Quantitative research approaches
the merits of varying approaches to quantitative research in	http://www.studiipaliative.ro/wp-content/uploads/2022/09/4.RESPACC-O4quantitative-
palliative care. The materials will help you explore to understand	<u>research-approaches.pdf</u>
basic concepts in descriptive and inferential research, including:	
measures of central tendency (mean, median, mode,	Bowling, A. (2014). Research methods in health: investigating health and health services (Fourth
distribution and variance); and analyses such correlation and	edition.). Open University Press.





RESPACC C2 Making sense of data statistical analysis https://www.youtube.com/watch?v=kuoTZbpZpSk RESPACC O4 Making sense of data statistical analysis http://www.studiipaliative.ro/wp-content/uploads/2022/09/5.RESPACC-O4_Making-sense-of-data-statistical-analysis.pdf Walshe C and Brearley S.G. (2020). Introduction to the Handbook of Theory and Methods in Applied
Health Research. Edward Elgar Publishing. (Chap 13)
RESPACC C2 When and how to use qualitative research https://youtu.be/a5yrn4y4U9U RESPACC O4 When and how to use qualitative research http://www.studiipaliative.ro/wp-content/uploads/2022/09/6.RESPACC-O4 When-and-how-to-use-qualitative-researchvFinal.pdf http://www.studiipaliative.ro/wp-content/uploads/2022/09/7.RESPACC-O4_Methodology-and-data-collectionvFinal.pdf Richards, L., & Morse, J., M. (2013). Read me first for a user's guide to qualitative methods, (3rd ed.) Thousand Oaks: Sage. Walshe, C. & Brearley, S. (2020). Handbook of Theory and Methods in Applied Health Research: Questions, Methods and Choices. Edward Elgar. Cheltenham: United Kingdom. Arantzamendi, M.; Lopez-Dicastillo, O., Robinson.C, Carrasco, JM. Investigación cualitativa en Cuidados Paliativos. Un recorrido por los enfoques más habituales, Medicina Paliativa 2007; 24 (4): 219-226.
RESPACC C2 Methodology and data collection https://youtu.be/1qb_5xYPPZQ RESPACC O4 Methodology and data collection
http://www.studiipaliative.ro/wp-content/uploads/2022/09/7.RESPACC-O4_Methodology-and-data-collectionvFinal.pdf Creswell, J. W. (2012). Qualitative inquiry and research design: Choosing among five approaches. Sage: Thousand Oaks, CA.





ethnography, phenomenology, grounded theory, and how they	
may be used to address clinical research questions.	Kristjanson, L. & Coyle, N. (2003). Qualitative research in palliative care. In D. Doyle, G. Hanks, N. McDonald (Eds.) Oxford Textbook of Palliative Medicine, Oxford University Press, Oxford.
8. Qualitative analysis: common aspects of making meaning of data	RESPACC C2 Qualitative analysis common aspects of making meaning of data https://youtu.be/oK8Iv3Wd9Yg
These resources will enable understanding of the common aspects of qualitative data analysis.	RESPACC O4 Qualitative analysis common aspects of making meaning of data http://www.studiipaliative.ro/wp-content/uploads/2022/09/8.RESPACC-O4 Qualitative-analysis-common-aspects-of-making-meaning-of-datavFinal.pdf
	Richards, L., & Morse, J., M. (2013). Readme first for a user's guide to qualitative methods, (3 rd ed.) Thousand Oaks: Sage.
	Payne, S. Qualitative methods of data collection and analysis. IN: Addington-Hall, J.M., Bruera, E., Higginson, I.J., Payne, S. Research Methods in Palliative Care. (2007) Oxford: Oxford University Press.
	Lyons, E., & Coyle, A. (2016) Analysing Qualitative Data in Psychology. (3 rd ed.) London. SAGE Publications Ltd.
9. When and how to use mixed methods	RESPACC C2 When and how to use mixed methods https://youtu.be/xzdh3W46w0U
These resources introduce mixed methods with a focus on the use of case study methods in palliative care contexts.	RESPACC O4 When and how to use mixed methods http://www.studiipaliative.ro/wp-content/uploads/2022/09/9.RESPACC-O4_When-and-how-to-use-mixed-methods.pdf
	Walshe C (2020) The case for mixed methods in applied health research (chapter 16) In Walshe, C. & Brearley, S. (eds). Handbook of Theory and Methods in Applied Health Research: Questions, Methods and Choices. Edward Elgar. Cheltenham: United Kingdom.
10.Assessing the quality of research	RESPACC C2 Assessing quality of research https://youtu.be/s0XebJSAp_w
These resources highlight the importance of identifying the strengths and weaknesses of research methods, and suggests what to consider when appraising quantitative and qualitative research. It offers different tools that might assist with the	RESPACC O4 Assessing quality of research http://www.studiipaliative.ro/wp-content/uploads/2022/09/10RESPACC-O4Assessing-quality-of-research.pdf
process of critical appraisal.	https://casp-uk.net/casp-tools-checklists/





11.Research Ethical considerations	https://journals.sagepub.com/home/QHR - search "Appraising the Evidence" https://www.equator-network.org/ Aveyard, H., Payne, S. A., & Preston, N. J. (2021). A post-graduate's guide to doing a literature review in health and social care. 2 nd edition Oxford University Press: Oxford. Dodd A, Reilly S, Faraz A, Thomas C (2020) Critical appraisal: how to examine and evaluate research evidence In Walshe, C. & Brearley, S. (eds). Handbook of Theory and Methods in Applied Health Research: Questions, Methods and Choices. Edward Elgar. Cheltenham: United Kingdom. RESPACC C2 Research ethics 1 & 2
Research Ethics focuses on the application of ethical principles and legislation in the conduct of clinical research, aiming to protect participants, especially the more vulnerable. Ethical principles and procedures ensure that the study is likely contribute to improving clinical and social work practice, as well as safeguard the validity and quality of the scientific process per se.	https://youtu.be/7qwec8836aM RESPACC Research ethics 2 - YouTube RESPACC O4 Research ethics 1 & 2 http://www.studiipaliative.ro/wp-content/uploads/2022/09/11.RESPACC-04 Research-ethics- Part-1.pdf http://www.studiipaliative.ro/wp-content/uploads/2022/09/11.RESPACC-04 Research-ethics- Part-2.pdf Addington-Hall JM, Bruera E, Higginson I, Payne S (eds) Research Methods in Palliative Care. Oxford University 2007, Ch1, p.1-9 - see chapter 3, 10, 17 Sandra Martins Pereira and Pablo Hernández-Marrero. Research ethics in palliative care: A hallmark in Palliative Medicine. Editorial Palliative Medicine. https://journals.sagepub.com/doi/full/10.1177/0269216319827178 Gysels M et al, (2013) MORECare research methods guidance development: Recommendations for ethical issues in palliative and end-of-life care research. Palliative Medicine 27(10) 908–917 MORECare research methods guidance development: Recommendations for ethical issues in palliative and end-of-life care research (sagepub.com)
12. How to implement a research project	RESPACC C2 How to implement a research project https://youtu.be/RNh0Wfh9ALE





These resources explain different strategies required to implement a research project.	RESPACC O4 How to implement a research project http://www.studiipaliative.ro/wp-content/uploads/2022/09/12.RESPACC-O4_How-to-implement-a-research-project.pdf Bell J (2010) Doing your research project: A guide for first-time researchers in education, health and social science. (5 th ed) Open University Press Blum D, Inauen R, Binswanger J, Strasser F. Barriers to research in palliative care: A systematic literature review. Progress in Palliative Care. 2015;23(2):75-84. https://doi.org/10.1179/1743291X14Y.0000000100
13.Potential impact/benefit of research; dissemination of results	RESPACC C2 What does impact and dissemination mean https://youtu.be/l_8xA8ye1jM RESPACC O4 What does impact and dissemination mean
These resources introduce the notion of research impact and	http://www.studiipaliative.ro/wp-content/uploads/2022/09/13.RESPACC-O4 What-does-impact-and-
how it can be measured. It also highlights a range of strategies for research dissemination.	dissemination-mean.pdf
	Evidence-based Model for the Transfer & Exchange of Research Knowledge (EMTReK) (www.knowledgetransfer.ie)
	Developing & implementing a 'System' of structured network-wide dissemination & knowledge transfer activities Palliative Hub Pro (professionalpalliativehub.com)

DISCLAIMER

This project has been funded with support from the European Commission by ERASMUS+ agreement #: 2020-1-RO01-KA202-080128

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