Rapid Evidence Synthesis to support decision making in health and care

Evaluation Theme Gill Norman & Chunhu Shi



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Evidence summaries driven by decision-makers needs

Ensure decisions about innovation adoption are evidence-informed

Use a transparent approach based on systematic review methods

Offer a flexible approach to questions

Take into account certainty and relevance of evidence

Provide a "good-enough" answer even when evidence is limited

Are accessible to non-researchers

NIHR Applied Research Collaboration Greater Manchester

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Systematic Reviews

METHODOLOGY

Open Acces

Rapid evidence synthesis to enable innovation and adoption in health and social care

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Abstract

Background: The rapid identification and adoption of effective innovations in healthcare is a known challenge. The strongest evidence base for innovations can be provided by evidence synthesis, but this is frequently a lengthy process and even rapid versions of this can be time-consuming and complex. In the UK, the Accelerated Access Review and Academic Health Science Network (AHSN) have provided the impetus to develop a consistently rapid process to support the identification and adoption of high-value innovations in the English NHS.

Methods: The Greater Manchester Applied Research Collaboration (ARC-GM) developed a framework for a rapid evidence synthesis (RES) approach, which is highly integrated within the innovation process of the Greater Manchester AHSN and the associated healthcare and research ecosystem. The RES uses evidence synthesis approaches and draws on the GRADE Evidence to Decision framework to provide rapid assessments of the existing evidence and its relevance to specific decision problems. We implemented this in a real-time context of decision-making around adoption of innovative health technologies

Results: Key stakeholders in the Greater Manchester decision-making process for healthcare innovations have found that our approach is both timely and flexible; it is valued for its combination of rigour and speed.

Our RES approach rapidly and systematically identifies, appraises and contextualises relevant evidence, which can then be transparently incorporated into decisions about the wider adoption of innovations. The RES also identifies limitations in existing evidence for innovations and this can inform subsequent evaluations. There is substantial interest from other ARCs and AHSNs in implementing a similar process. We are currently exploring methods to make completed RES publicly available. We are also exploring methods to evaluate the impact of using RES as more implementation decisions are made

Conclusions: The RES framework we have implemented combines transparency and consistency with flexibility and rapidity. It therefore maximises utility in a real-time decision-making context for healthcare innovations

Introduction

Rapid evidence synthesis

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Whilst evidence synthesis can represent the strongest evidence base for innovations, conventional systematic reviews may often take up to 2 years to produce [1, 2], whilst even rapid reviews have a timeframe which may range up to a year [3], with the extent to which methods differ from those of systematic reviews varying widely [4]. Evidence summaries or evidence briefings are a form

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Feedback on Rapid Evidence Synthesis (RES)

"The RES was a really interesting read and seems to suggest we are on the right track with our interventions....." Mary Aziz, Programme Development Lead

"Very, very useful and interesting as always there's some very helpful findings." Bradley Quinn, Associate Director of Insight

"The review was extremely helpful in its objectivity and I have already sent over to the commercial team at HInM who are working with the company." Paula Bennett, Chief Nurse



Impact example: Virtual Wards

"a safe and efficient alternative to NHS bedded care that is enabled by technology"



Next steps

Undertaking evaluations informed by RES

Making completed RES publicly available

Working with other partners to provide RES

Exploring the impact RES has on decisions

The RES ...[is] helping us to distinguish (and prioritise) which elements of an evaluation will be most valuable....

OC Theme Deputy Lead

The aim is to incorporate the moderate strength findings into our planning. HInM Chief Nurse

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Norman G, Wilson P, Dumville J, Bower P, Cullum N. Rapid evidence synthesis to enable innovation and adoption in health and social care. Systematic Reviews 2022; 11, 250.

Norman G, Bennett P, Vardy E. Virtual wards: A rapid evidence synthesis and implications for the care of older people. Age and Ageing 2023; 52 (I) <u>https://doi.org/10.003/accom/alco30</u>

British Geriatrics Society. Bringing hospital care home: Virtual Wards and Hospital at Home for older people. August 2022. https://www.bcs.org.uk/virtual.wards

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