



About me

- Worked in the EPPI-Centre, UCL for a long time
- Systematic reviews mostly for Department of Health & Social Care / PHE
 - Addressing questions beyond effectiveness
 - Methodological development
- Evidence synthesis methods
- Long-standing area of work in making the review process more efficient using new technologies



Authors of RAISE

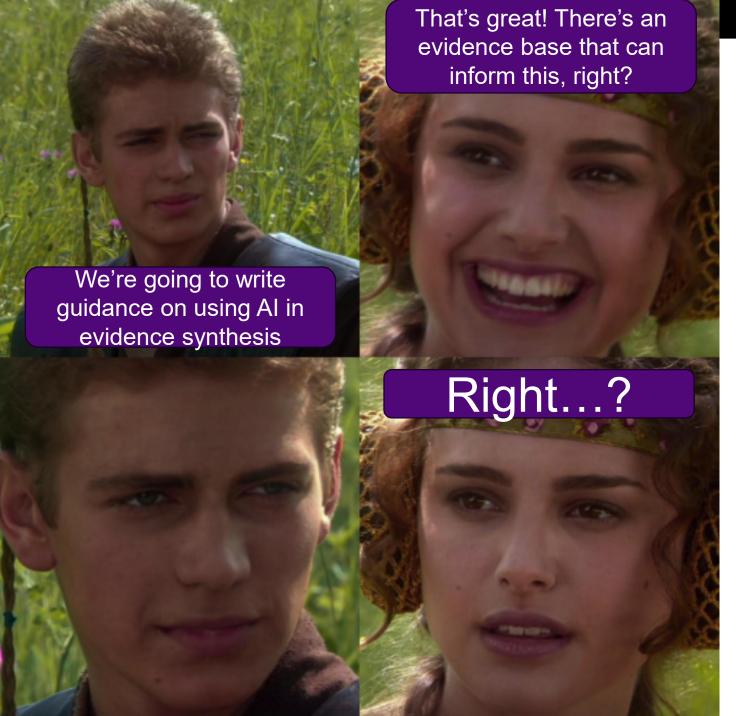
James Thomas [1,8], Ella Flemyng [2], Anna Noel-Storr [2], Will Moy [3], Iain J Marshall [4], Raouf Hajji [5], Zoe Jordan [6], Edoardo Aromataris [6], Samer Mheissen [7] A Justin Clark [8, 9], Paweł Jemioło [10] Ashrita Saran [11], tbc [8,12], Michelle Angrish [13], Biljana Macura [14, 15], Rene Spijker [16], Neal Haddaway [17], Wojciech Kusa [18], Yuan Chi [12, 20], Isabel Fletcher [21], tbc [22] Jan Minx [23], Emma McFarlane [24], Claudia Kapp [25], Kaitlyn Hair [1], Marion Spring [24], Isabel Kempner, [26] Lisa Askie, [27], Birte Snilstveit [28], Joerg J Meerpohl [29, 30], Gerald Gartlehner [30, 31], tbc [12], Laurenz Mahlanza-Langer [32], Declan Devane [33], Rigmor C Berg [34, 35], Justine Karpusheff [36] Jonas Goretzko [25]



Outline

- Why RAISE is needed
- What RAISE is
- What's next?





Where the work came from

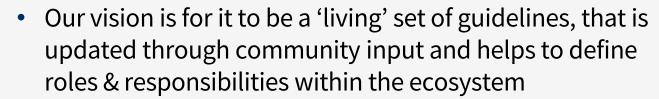
- A number of us were asked repeatedly for guidance about which tool to use, and when
- But found we couldn't!
- The evidence base on which to base our advice was very limited
- Al tools were being developed that were not engineered to be fit-for-purpose

Vision: RAISE guidance for the responsible use of AI in evidence synthesis

() Cochrane



A draft of the guidance and recommendations is now online for consultation



 Should the ecosystem develop in this well-organized way, we hope to see the development of AI tools that adhere to the principles of research integrity, and so enable evidence accessibility in equitable and rigorous

















ways



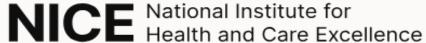














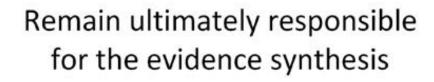
Roles-based ecosystem

- We need to support the wider adoption of AI to overcome the increasing burden of doing timely and cost-effective evidence synthesis
- We need cross-field standards to support the development of appropriate and responsible Al
- We anticipate an ecosystem made up of individuals, collaborations, and organisations which each have a role to play in developing and using Al in a responsible way
- (one person / organisation may play multiple roles)



Evidence Synthesists





Report Al use in your evidence synthesis manuscript transparently

Ensure ethical, legal, and regulatory standards are adhered to when using AI

Be transparent about when the AI works best, its limitations, and any interests.

Commit to continued learning, development, and monitoring.



Al development teams



Adhere to open science practices when designing, building, testing, and validating tools.

Be transparent about when the Al works best, its limitations, and any interests.

Commit to continued learning, development, and monitoring.

Al development teams

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Encourage the responsible use of Beneriisability othe products they Funders of evidence Synthesis testing, and validating tools.

Be transparent about when the AI works best, its limitations, and any interests.

Commit to continued learning, development, and monitoring.



Al development teams

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Ensure best practice standard for responsible AI use are clear and integrated into policies and guidelines

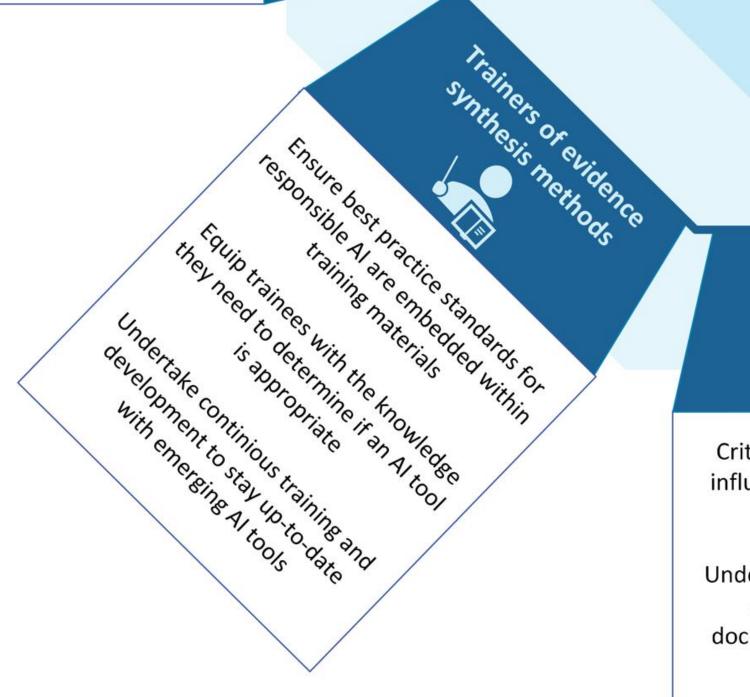
Promote, guide, and support responsible AI use in your evidence synthesis activities

Monitor the development and use of Al within your organisation



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Users of evidence synthesis



Critically consider the potential influence of AI use in a synthesis before use

Of Al use in downstream documents and decision making processes

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Users of evidence synthesis



Critically consider the potential influence of AI use in a synthesis before use

Of Al use in downstream documents and decision making processes

Communicate the need for transparent reporting of tool accuracy and biases

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Users of evidence synthesis

Critically consider the potential influence of AI use in a synthesis before use

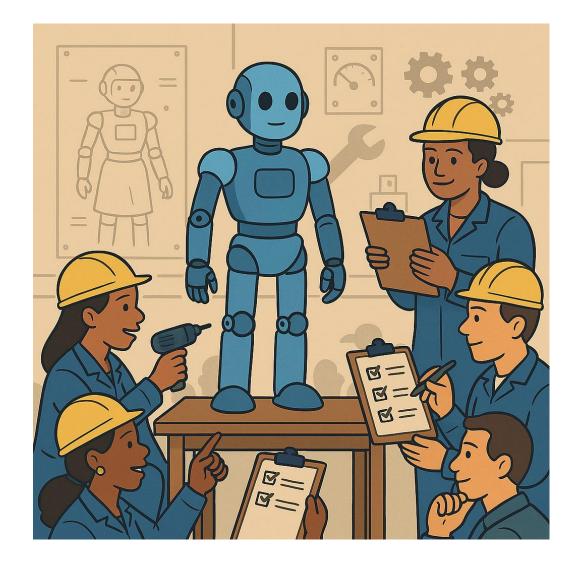
Underscore the potential impacts of AI use in downstream documents and decision making processes

evidence synthesis Ensure best pratice standards for responsible Aluse are clear and integrated into policies and Reduest transparency and honesty from authors on their use of Alinevidence synthesis



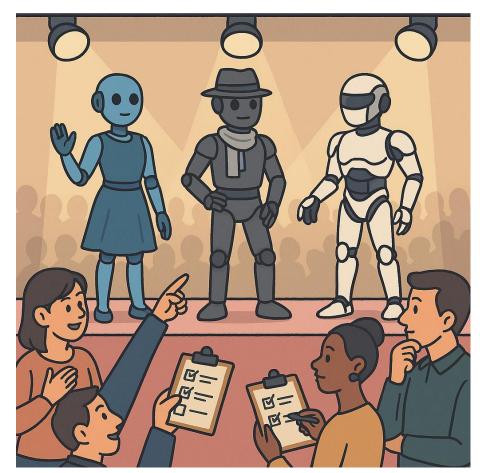
RAISE II: building and evaluating

- Building an AI tool
 - The build phase
 - The validation phase
- Conducting an evaluation
 - Considerations for each phase of the review
- Performance and accuracy metrics
- How to report the building and/ or evaluation of an AI tool



RAISE III: selecting & using Al evidence synthesis tools

- The current state of the art
- Selecting and using AI tools
 - Is there a tool to suit my current needs?
 - Does your team have the resources to use it?
 - Is it validated and appropriate?
 - Guidance for
 - Using an AI tool
 - After using the tool
- Ethical, legal and regulatory considerations when using an AI tool
- Al tool assessment considerations
 - How to make a decision about a tool postassessment



How you can get involved

- The link: https://osf.io/fwaud/
- Timetable for development
 - The latest version is now online
 - Will move to journal publication soon
- Three documents:
 - Roles-based recommendations for practice
 - Guidance on building and evaluating AI tools
 - Guidance on selecting and using AI tools
- Do take a look and let us know what you think!





Thank you!