

Optimisation of E-learning Interventions for Undergraduate Clinical Medical Education: A Systematic Review

L Halpenny, C Dunne, S Hyde, J O’Doherty, A O'Regan

- E-learning: use of the internet to enhance knowledge and performance*
- Now mainstream in medical education
- Systematic review: how/when to use them**

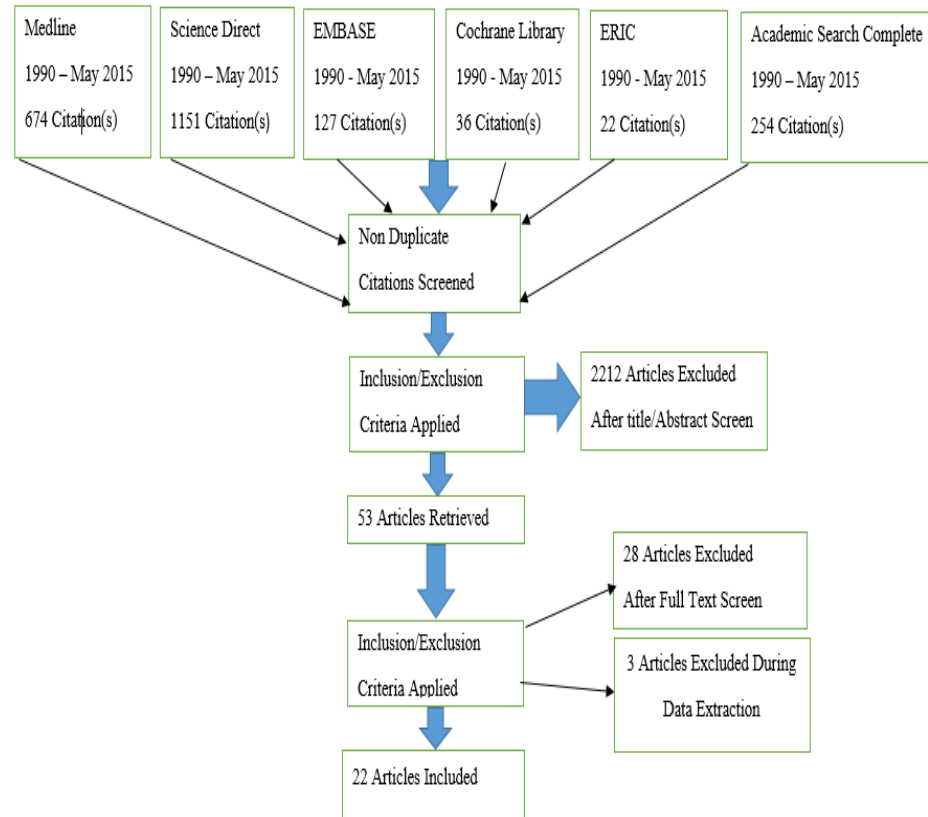
<p>Search terms</p> <p>‘e-learning’ or ‘digital resources’ or ‘internet learning resources’ AND ‘medical education’ AND ‘techniques’ or ‘programmes’ or ‘interventions’</p>	
<p>Database</p> <p>MEDLINE/PubMed, ScienceDirect, EMBASE, Cochrane Library, ERIC and Academic Search Complete, hand searches</p>	
<p>Inclusion criteria</p> <p>E-learning intervention Clinical subjects Reported in English</p>	<p>Exclusion criteria</p> <p>Preclinical sciences No focus on an intervention Reported in a language other than English</p>

*Ruiz et al. Academic medicine, 2006.

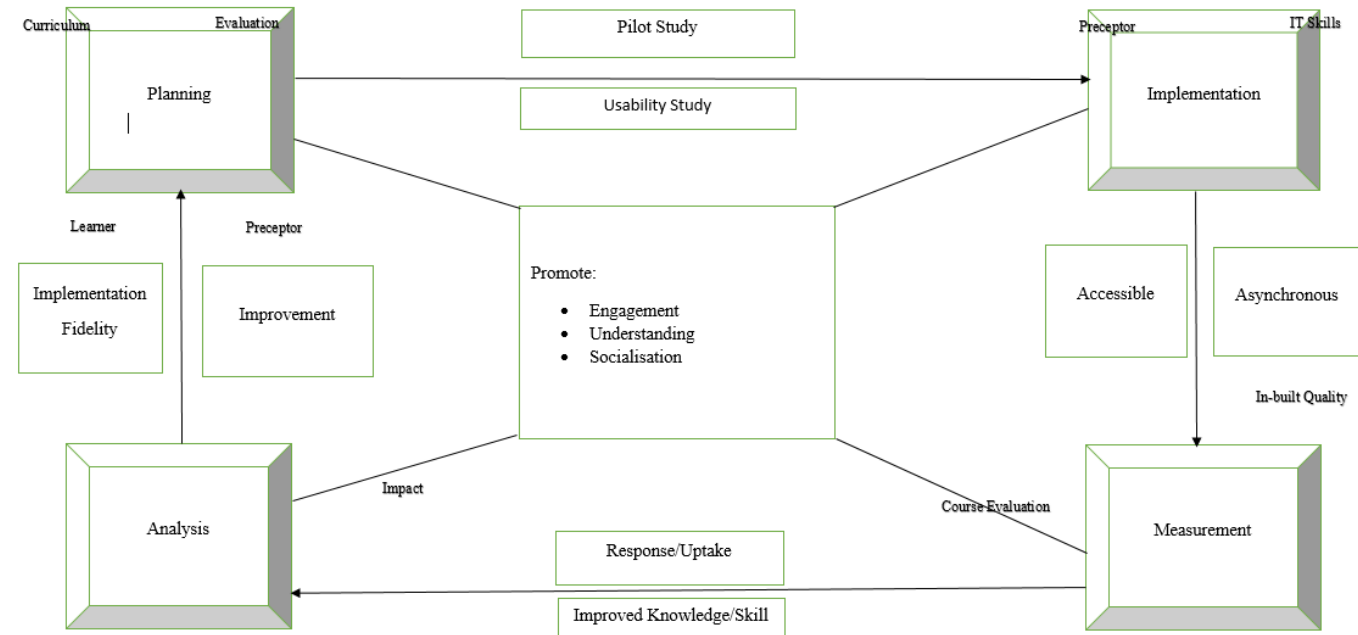
**Cook et al. Medical Education, 2010.

Optimisation of E-learning Interventions for Undergraduate Clinical Medical Education: A Systematic Review

• Prisma Flow Diagram



• Framework for an Intervention



Optimisation of E-learning Interventions for Undergraduate Clinical Medical Education: A Systematic Review

What this study adds

- A framework for optimising e-learning interventions

Limitations

- English language reports only, unpublished work (bias)

Future research

- Implementation fidelity