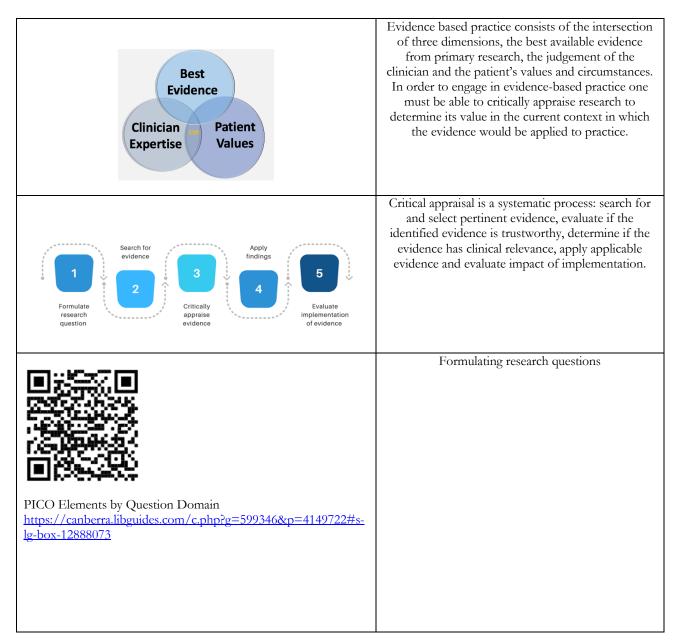
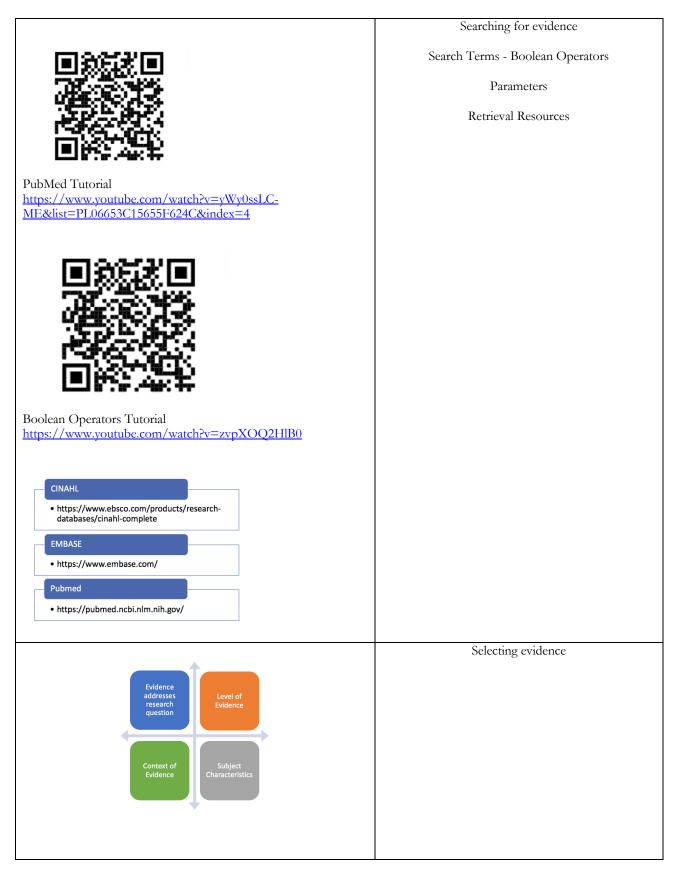


"Demystifying Critical Appraisal"

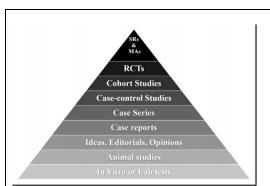
Presenters: Karen L. Gordes, PhD, PT, DSc and Joshua Anderson, MS, PA-C



All images copyrighted – Permission required for reproduction Karen L. Gordes, PhD, PT, DSc and Joshua Anderson, MS, PA-C



All images copyrighted – Permission required for reproduction Karen L. Gordes, PhD, PT, DSc and Joshua Anderson, MS, PA-C



Levels of evidence

https://pubmed.ncbi.nlm.nih.gov/28651753/

Mulimani P. S. (2017). Evidence-based practice and the evidence pyramid: A 21st century orthodontic odyssey. *American journal of orthodontics and dentofacial orthopedics: official publication of the American Association of Orthodontists, its constituent societies, and the American Board of Orthodontics, 152*(1), 1–8. https://doi.org/10.1016/j.ajodo.2017.03.020

Critical Appraisal Tools

AMSTAR

https://amstar.ca/Amstar Checklist.php

Critical Appraisal Skills Program: CASP (Critical Appraisal Checklists)

https://casp-uk.net/casp-tools-checklists/

Center for Evidence-Based Medicine: CEBM Critical Appraisal Worksheets

https://ebm-tools.knowledgetranslation.net/worksheet

COREQ (Consolidated criteria for Reporting Qualitative Research)

http://cdn.elsevier.com/promis misc/ISSM COREQ Checklist.pdf

JBI Critical Appraisal Tools

https://jbi.global/critical-appraisal-tools

University of South Australia Critical Appraisal Tools

https://www.unisa.edu.au/research/Health-Research/Research/Allied-Health-Evidence/Resources/CAT/

Lincoln and Guba's Qualitative Assessment

http://www.qualres.org/HomeLinc-3684.html

Critical Appraisal Tools No gold standard Based on research design

Critical Appraisal 3 components

- Internal Validity (study design appropriate, methodology addresses bias, statistical analysis appropriate, data justifies conclusions)
- Impact (statistical and clinical significance)
- External Validity (applicability to patient/population)

All images copyrighted – Permission required for reproduction Karen L. Gordes, PhD, PT, DSc and Joshua Anderson, MS, PA-C