EVIDENCE-BASED DENTISTRY

“The central and simple message of evidence-based practice is that best research evidence needs to be combined with patient values and circumstances, along with practitioner expertise.”

The goal is using best evidence to improve patient care.

FIVE STEPS OF EBD

1. Asking Focused Questions
   Use PICO to Create a Search Question
   Population / Intervention / Comparison / Outcome

2. Finding the Evidence
   Best – Systematic Reviews & Randomized Controlled Trials.
   3 key steps: *
   1. Identify terms for your PICO question
   2. Look for Secondary Sources
   3. Search for Primary Sources

3. Critically Appraising the Evidence
   Use pre-appraised Secondary Sources
   Critical Appraisal tools for Primary Sources:
   www.cebm.net/critical-appraisal/

4. Making a Decision
   Translation of Evidence into Practice Based on Clinical Expertise & Patient Concerns

5. Evaluation of Performance
   How do you evaluate it?
   What does your patient think?
   How could you do it better next time?

FINDING GOOD EVIDENCE QUICKLY

Specialized clinical search engines designed to allow users to quickly and easily find evidence-based source material (articles, systematic reviews, guidelines, and structured abstracts) to support their practice and/or care

HIERARCHY OF SEARCHING

Filtered Search Engine
TRIP Database
www.tripdatabase.com

Secondary Research
Cochrane Library
www.thecochranelibrary.com

DARE (Database of Abstracts of Review of Ethics)
www.cochrane.org/editorial-and-publishing-policy-resource/database-abstracts-reviews-effects-dare

Guidelines
ADA Center for Evidence-Based Dentistry

US National Guideline Clearinghouse
www.guideline.gov

Clinical Queries
PubMed: Clinical Queries
www.ncbi.nlm.nih.gov/pubmed/clinical

CATs – Critically Appraised Topics (EBD)
https://cats.uthscsa.edu/

Primary Sources

Search strategies for bibliographic healthcare databases:
thesaurus searching and text word searching. Use methodological filters to target the right type of study.*

PubMed

Generic Search Engines / Directories
Google, Google Scholar, Yahoo

HELPFUL EBD WEBSITES

Systematic Reviews and EBD Tutorials
ADA Center for Evidence-Based Dentistry
http://ebd.ada.org

Critical Appraisals, Evidence-based Tools & Resources
Centre for Evidence-based Medicine at the University of Oxford
http://www.cebm.net

Teaching, Learning, Practice & Evaluation of EBD
The Centre for Evidence-based Dentistry
www.cebd.org

Assessing Methodological Quality of Systematic Reviews
AMSTAR
http://www.nccmt.ca/registry/view/eng/97.html

Randomized Controlled Trials
CONSORT
www.consort-statement.org/

Information & History about Fair Tests of Healthcare Treatment
James Lind Library
www.jameslindlibrary.org

QUESTIONS?

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