

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

Secondary Sources

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

<http://ebd.ada.org/en/evidence/guidelines>

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

<http://www.ncbi.nlm.nih.gov/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?

Contact: Gene.C.Stevenson@uth.tmc.edu

*Centre for Evidence-based Medicine 2014