

Evidence Based Pyramid & 6S

Best Research Evidence: Best Clinical Experience: Consistent with Patient Values



HOW TO DETERMINE THE RIGHT LEVEL TO ANSWER A CLINICAL QUESTION

Quality of Evidence in Clinical Research Increases Up the Levels : Search Evidence Top Downwards

Search evidence with PICOT Framework

[Cochrane Library](#) – a core [EPOCH](#) resource offering systematic reviews across healthcare topics

[JBI \(Joanna Briggs Institute\)](#) Systematic Reviews

[PubMed Clinical Queries](#) – filters for systematic reviews and meta-analyses

[AHRQ Evidence Reports](#)

[Therapeutic Guidelines \[ETG\]](#) – concise, regularly updated summaries for clinical management.

[JBI](#) evidence summaries

[CINAHL Guidelines](#)

[UpToDate](#) and [BMJ Best Practice](#) Evidence summaries -

[PubMed](#) and [CINAHL](#) databases – access to primary research articles across medical and allied health disciplines

[PEDro](#) - physiotherapy trials

[Cochrane Library](#)

[MEDLINE](#)

[Embase](#)

[CINAHL](#)

[Medication Safety](#)

[OTseeker](#)

Occupational Therapy

[MEDLINE](#)

[Clinical Key Journals](#)

[Embase](#)

[CINAHL](#)

[Access Medicine](#)

[ClinicalTrials](#), registry of ongoing and completed clinical trials

[Clinical Key Guidelines](#)

[DynaMed Point of Care](#)

[ACORN Standards](#)

[NIHR Evidence](#)

[DETERMINE DOMAIN](#)

[Clinical Key - Elsevier](#)

[speechBITE](#)

[EBP 6S Pyramid Guided Search](#)

Unfiltered Research

Original Research

Primary

Systems
Decision-support systems that combine patient data with the best available evidence to guide clinical decisions in real time

Summaries
Evidence-based clinical guidelines and summaries that synthesize multiple sources into actionable recommendations

Syntheses
Concise summaries of systematic reviews and meta-analyses, offering key findings and clinical implications

Synopses
Systematic reviews and meta-analyses that combine results from multiple studies to provide high-level evidence

Studies
Summaries of individual high-quality studies, often peer-reviewed and critically appraised

Sources
Original research, including randomized controlled trials (RCTs), cohort studies, case-control studies, and case reports

Secondary

Critically Appraised Literature, Evidence Summaries & Guidelines
Pre-appraised, quality-checked evidence intended for direct clinical use - this level bridges research and practice

[THERAPY](#)

[ETIOLOGY/HARM](#)

[PROGNOSIS](#)

[DIAGNOSIS](#)

[ECONOMIC ANALYSIS](#)

Critical Appraisal

Filtered Research

Meta - Analysis
a pooled-estimate of effects across studies; that range in quality
Systematic Reviews
with summaries of high quality (e.g. RCTs) primary research studies typically conducted by experts

Synthesized Evidence

Secondary research over many time periods

Quantitative Research

Randomized Controlled Trials & Non Randomized Controlled Trials
Primary experimental studies evaluating interventions.
At least two groups randomly assigned to intervention or control group reducing bias

Prospective gold standard for observations

Cohort Studies & Case Control Studies
Observational analytical research,
Non - experimental studies of a homogeneous population

Single point in time snapshot

Retrospective by design

Cross-Sectional Studies, Case Reports & Case Series
Descriptive or exploratory research
Useful for rare conditions, early signals, adverse events.
Single group study describes a novelty or peculiarity.
Data can be qualitative, quantitative or mixed

Post-hoc reflection

Background Information, Expert Opinion & Data Sources
Textbooks, eBooks,
Patient's Electronic Records
- Not research based - High internal validity - Novel molecule or tool development

Qualitative Evidence
Considerations for assessing the quality of qualitative research

Researcher Reflexivity
Steps taken to mitigate bias and assumptions research methods include member checks or co-coding

Stakeholder Involvement
Involvement of patients and caregivers in defining research question, collecting data or analysing results

Descriptive Richness
Are methods , findings clear, credible and complete?
Enough information to relate findings to other contexts?

Methodology
Are study methods iterative, analysis and data collection inform each other?
Variants represented in sample. Methods logically follow selected theories.

Clinical Relevance
Do the finding make sense and add to knowledge base?
Are the findings applicable to clients and practice?

Qualitative Research

Single Studies

[Clinical Decision Support Tools](#) within [EPOCH](#) link evidence-based guidelines directly to clinical workflows, supporting point-of-care decision-making tools

[Trip Database](#) (Turning Research into Practice) -filtered to systematic reviews

Evidence-Based Summaries from sources like [DARE](#) (Database of Abstracts of Reviews of Effects) and [Cochrane Clinical Answers](#), which provide brief, clinically focused synopses of systematic reviews

[Embase](#) -systematic review publication types

[Campbell Collaboration](#)

[NICE Clinical Guidelines](#)

[EPOCH Speciality Guides](#)

[MEDLINE Guidelines](#)

[Sax Institute Evidence Checks](#)

[Trip Database](#) - filtered to guidelines & evidence summaries

[NHMRC](#) Australian Clinical Practice Guidelines Portal – provides access to national, evidence-based guidelines

[Tasmanian HealthPathways](#) integrates local clinical guidance with evidence summaries for system-level application

[UptoDate](#)

[Embase](#)

[Trip Database](#) - RCT filter

[MEDLINE](#) – comprehensive database for peer-reviewed biomedical research

[eMIMS](#) Key Resources Integrated into workflows
[Australian Injectable Guideline](#) [Mobile Apps](#)
[Therapeutic Guideline](#) [Dictionaries](#)
[AMH](#) [Drug Resources](#)
[Clinical Calculators](#)

Evidence-Based [Nursing](#) and Evidence-Based [Medicine](#) Journals – accessible via [BrowZine](#)
[LibKey Nomad](#)
[Zotero](#)