





The changing nature of EBM (Hersh, 1999)

- Initial approach (aka, "first generation") was for clinician to find and critically appraise evidence
 Takes too much time, clinicians lack expertise
- More recent approach (aka, "next generation") is synthesis and synopsis of evidence for clinician

 Access to on-line, up-to-date information makes easier
- Slawson (2005) argues we should put more emphasis on teaching information management (seeking) than the techniques of EBM

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Another viewpoint concerning evidence (Haynes, 1999)

Can it work?

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- Efficacy studies take place under "ideal" circumstances
- This unit looks mainly at such studies
- Does it work?
 - Effectiveness studies ascertain whether something works in the "real world"
 - Sometimes called "outcomes research" (Clancy, 1998)
- Is it worth it?

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 Cost-benefit or cost-effectiveness studies determine whether benefits worthwhile in relation to cost or other resources

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Overview of the application of EBM

Steps include

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- Phrasing a clinical question that is pertinent and answerable
- Identifying evidence to address the question
- Critically appraising the evidence to determine if it applies to the patient

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Four categories of foreground questions

 Intervention (or Therapy) – benefit of treatment or prevention

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- Diagnosis test diagnosing disease
- · Harm etiology or cause of disease

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Prognosis – outcome of disease course



Hierarchy of study designs – increasing validity of designs

Level	Design	Comment
Ι	Randomized	Equal probability of
	controlled trials	assignment of subjects
П	Cohort studies	Defined by exposure to factor
Ш	Case-control studies	Defined by outcome of
		interest
IV	Case series	Systematic observation
		without controls
۷	Expert opinion,	Only as good as the expert
	physiologic studies	
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