



The Traditional Approach



Development of systematic reviews and meta-analyses



Creation, by experts, of clinical decision guidelines ("rules") for non-intuitive scenarios



Selection of the best research studies



Decision Making Process

Patient has diarrhea, no relevant history, no blood in stool, with a low-grade fever, but otherwise with no systemic symptoms.

Should the physician prescribe an antibiotic?

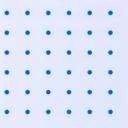


The 800-Pound Gorilla

Whether findings from average results in clinical studies inform decisions about real patients who:



- Seldom fit the textbook description of disease
- Differ from those in research trials





Clinicians Often Deviate From Effective Rules

Reasons



Institutional Inertia



Deference to Authority



Personal Heuristics



Evidenced Based Medicine Revisited

A single journal

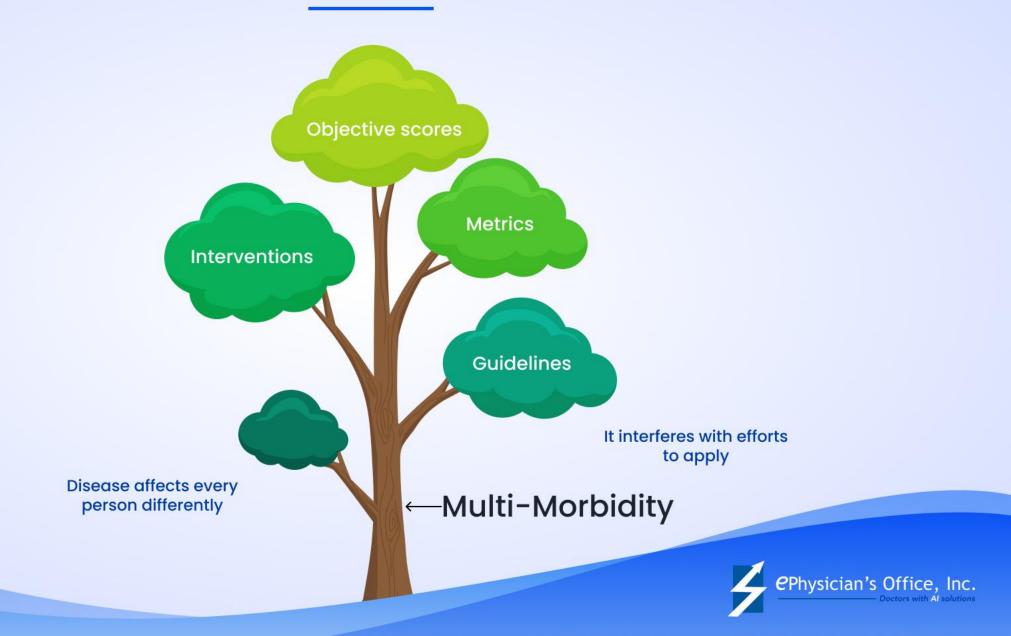
Journal of Bone and Joint Surgery 1988 - 2000



PMC 3124652



CLINICAL DECISION RULES PITFALLS



Crisis In Evidence-based Medicine



- O1 The evidence based "QUALITY MARK" has been, to some degree, misappropriated by vested interests.
- **O2** The volume of evidence, **ESPECIALLY CLINICAL GUIDLINES**, has become unmanageable.
- O3 Statistically significant benefits may be marginal in clinical practice.

PMC 4056639



Crisis In Evidence-based Medicine

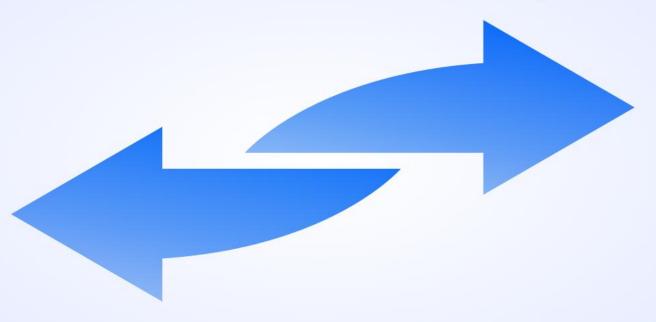
Inflexible rules and technology driven prompts may produce care that is MANAGEMENT driven rather than PATIENT centered.

Evidence based GUIDELINES often map poorly to complex co-morbidity





Is not Bound by Rules



Real Evidence Based Medicine

