

- Institute of Medicine:
 - Safe
 - Effective
 - Patient Centered
 - Timely
 - Efficient
 - Equitable



- World Health Organization:
 - Optimal health for all
 - Responsiveness
 - Fairness in financing



- Bamako Initiative
 - Effectiveness
 - Efficiency
 - Financial Viability
 - Equity



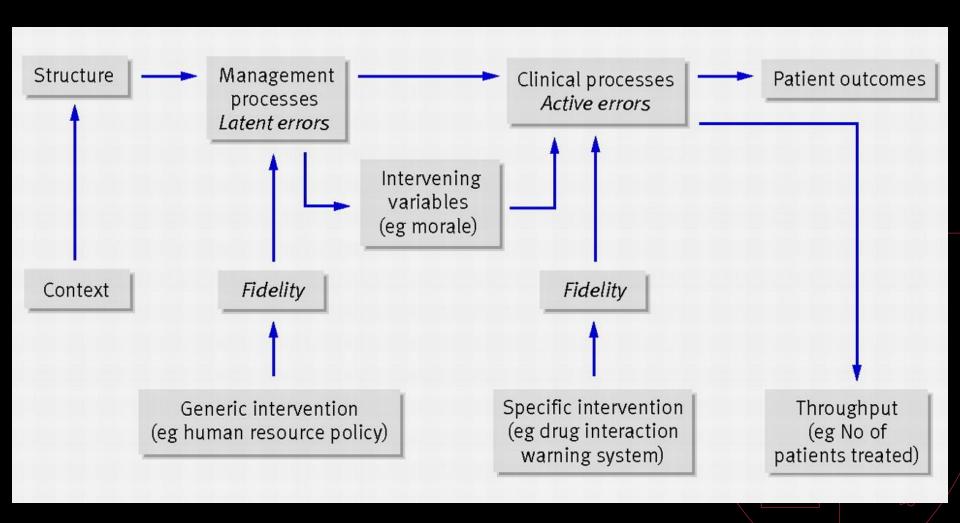
- IOM: empiric, goals-based approach
- WHO: philosophical, right-based approach
- Bamako: economic, community engagement approach

Donabedian's Framework for Evaluating Quality

- Structure context in which care is delivered, includes hospital buildings, staff, financing, and equipment
- Process transactions between patients and providers throughout delivery of healthcare
- Outcome effects of healthcare on the health status of patients and populations

Organizational, foundation for health systems research

Causal chain linking interventions to outcomes



How can quality be measured?

- Context and programming matters
 - What are you evaluating?
 - A service line, an intervention, an interaction
 - Where is the service being delivered?
 - Home based, community based, office based, hospital based

Study designs

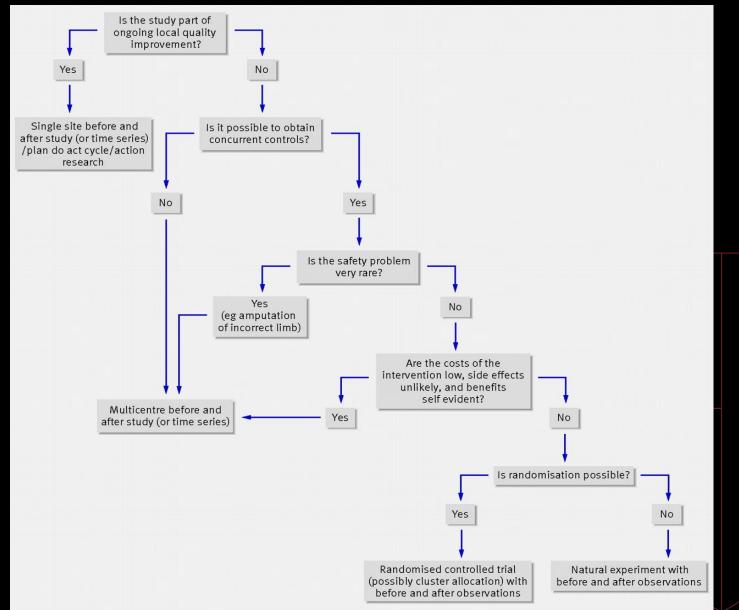
Pre/Post designs without concurrent controls

 Evaluate large effects, policy implementations, or rare events

Studies with concurrent controls

Timing and randomization are known (but not necessarily controlled)

Framework for selection of study design



Levels of observation

- Patient outcomes
- Fidelity
- Intervening variables
- Clinical process
- Qualitative evaluation



Techniques for measuring providerpatient interaction

- Direct Observation cons: Hawthorne effect
- Provider Interviews cons: bias if knowledge levels are good
- Patient Exit Interviews cons: timing of interview, dependent on outcome and patient expectation
- Chart Reviews and Audits cons: dependent on documentation

Techniques for measuring providerpatient interaction

- Group Evaluation (360° feedback) cons: cultural and hierarchical structures
- Standardized Patients cons: requires sophisticated "patient"
- Household Surveys cons: dependent on timing, recall bias
- Preexisting Data Sources cons: not tailored to intervention or outcome

Promising New Methods

- Technology Based
 - EMR, video, telemedicine
 - cons: expensive, tech based
- Clinical Decision Support Tools
 - Checklists, care algorithms, registration processes
 - data elements embedded within the tool itself
 - measurement statistics usually not obvious to the end user
 - cons: no forcing function

Conclusions

No perfect solutions...
but lots of options

