





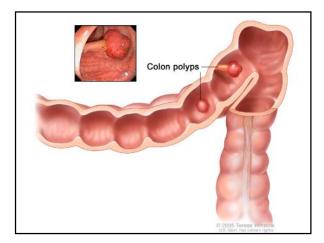


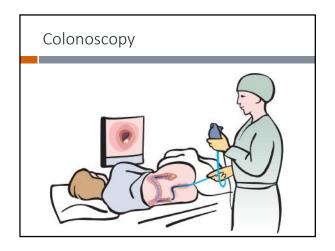




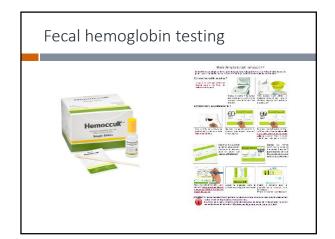


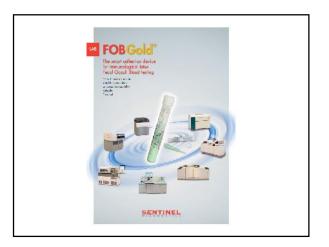
Evaluating Medical Tests







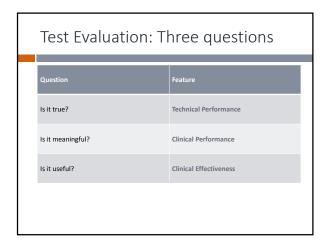


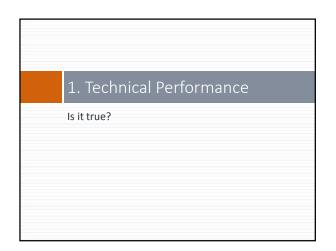


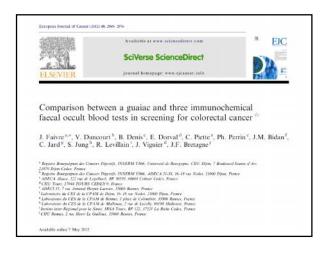
Test Evaluation: Three questions		
Question	Feature	

Test Evaluation	Test Evaluation: Three questions		
Question	Feature		
Is it true?	Technical Performance		

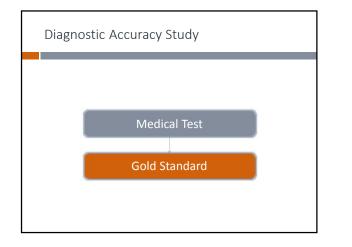
Test Evaluation: T	Test Evaluation: Three questions		
Question	Feature		
Is it true?	Technical Performance		
Is it meaningful?	Clinical Performance		

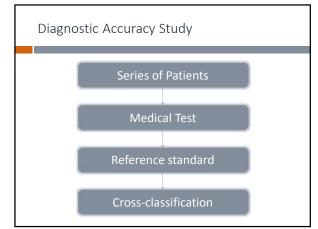


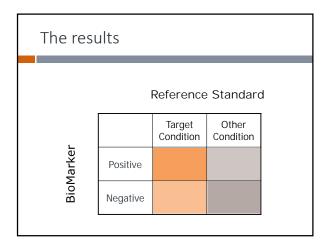


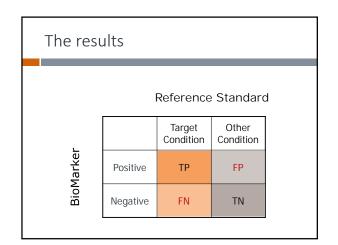


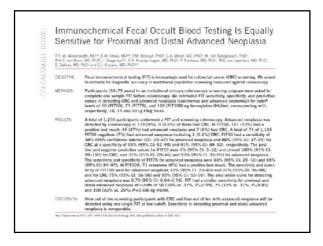
2. Clinical Performance
Is it meaningfull?

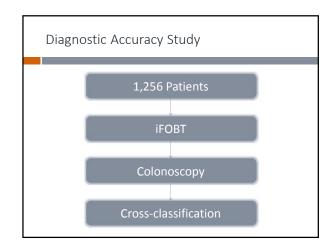


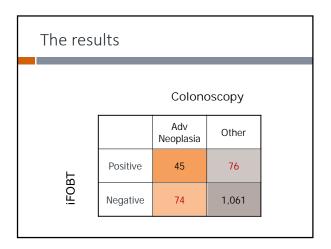


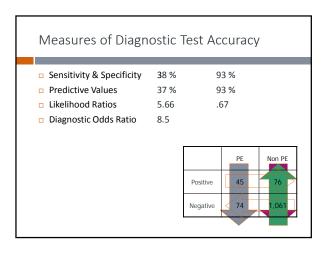




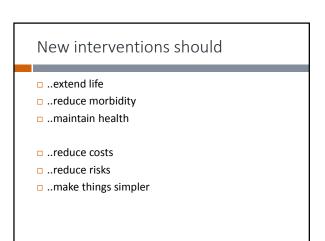


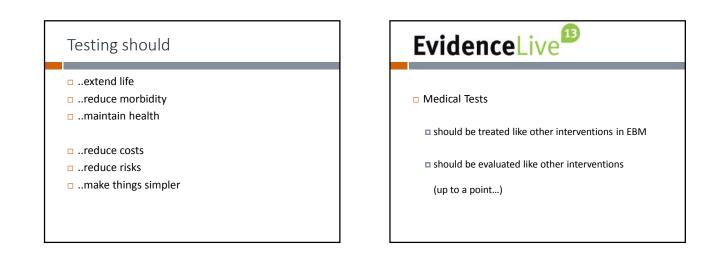


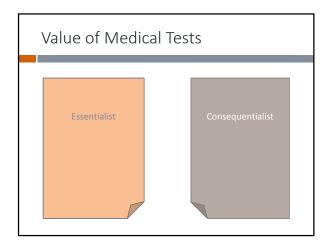










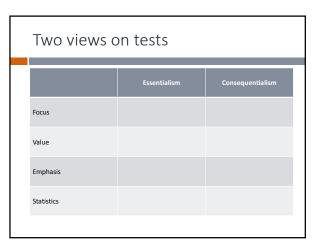


Essentialism

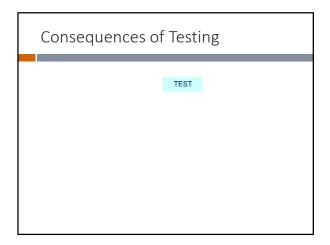
the theory that the value of a marker or a medical test should be judged by the 'trueness' of its results

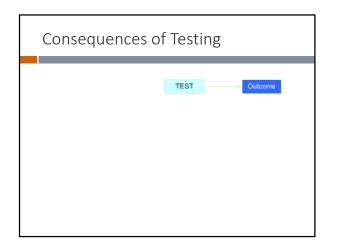
Consequentialism

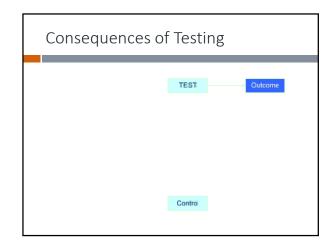
the theory that the value of a marker or a medical test should be judged by the value of its consequences

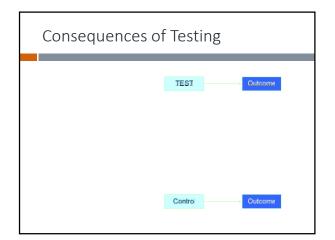


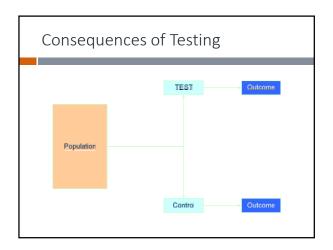
Two views on tests				
	Essentialism	Consequentialism		
Focus	Results	Consequences		
Value	Truth	Usefulness		
Emphasis	Validity	Utility		
Statistics	Accuracy	Effectiveness		

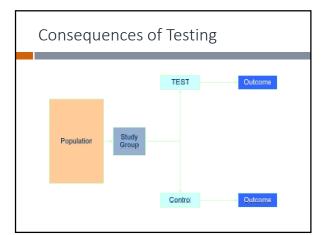


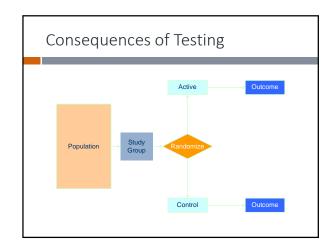


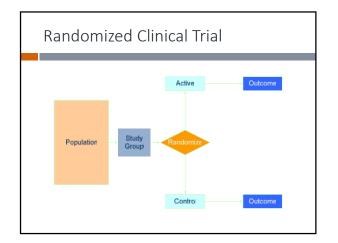


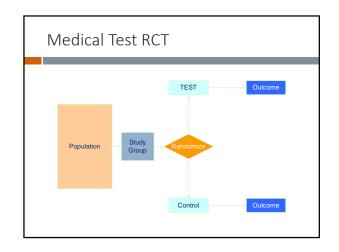


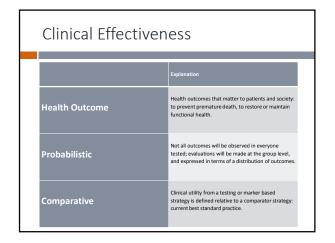


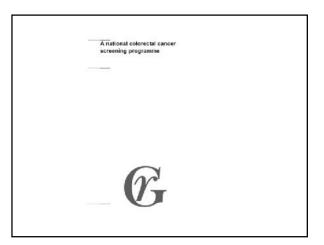


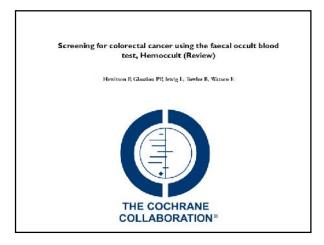


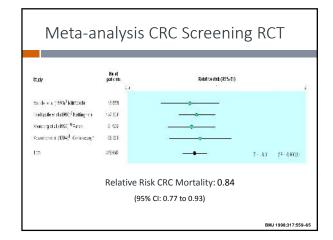








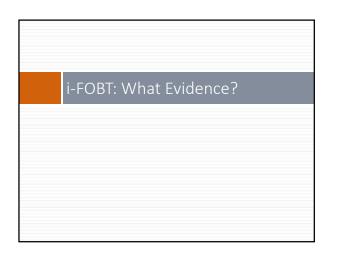








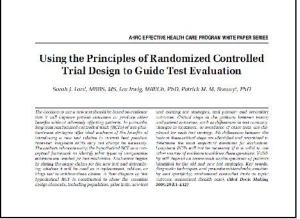


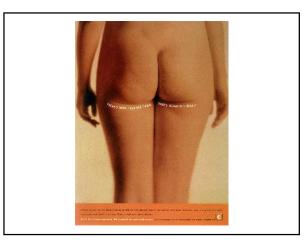


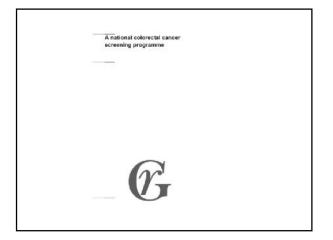
Three questions		
Question	Feature	
ls it true?	Technical Performance	
Is it meaningful?	Clinical Performance	
Is it useful?	Clinical Effectiveness	

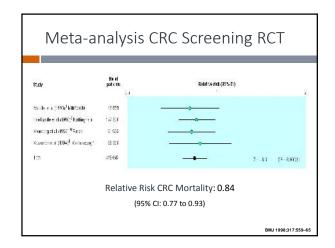
Decisions about Tests

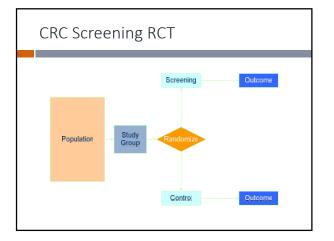
- Guided by consequences
- Technical and Clinical Performance not sufficient
- But...
- Often can be redefined as necessary (and sufficient) conditions for effectiveness



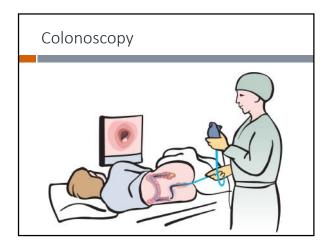


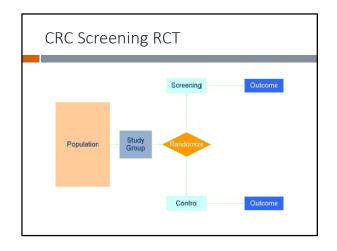


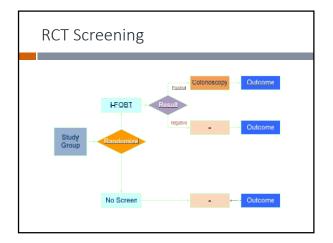


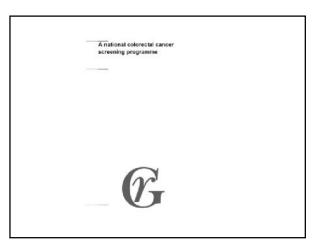


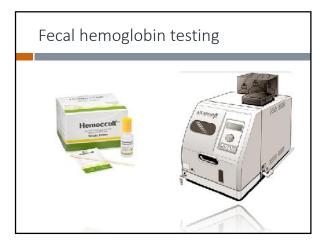


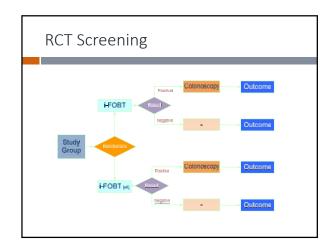


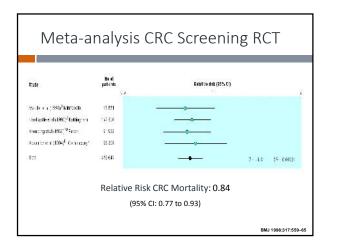


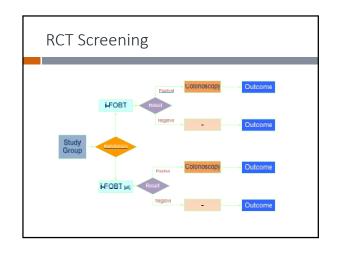




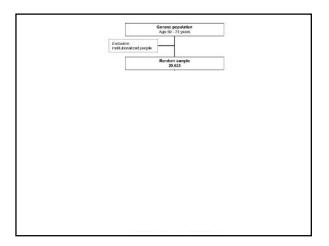




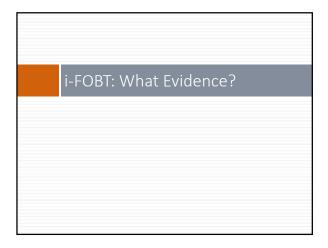


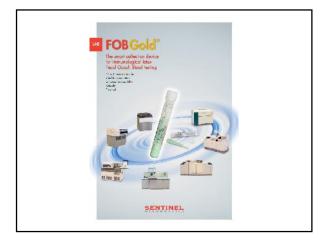




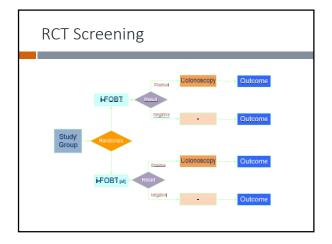


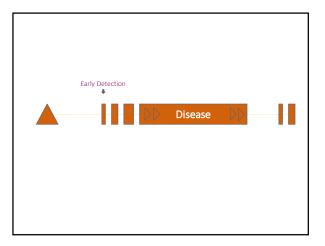


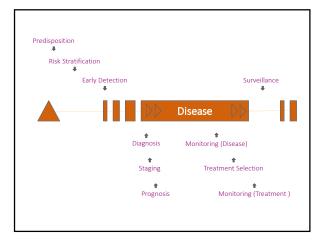


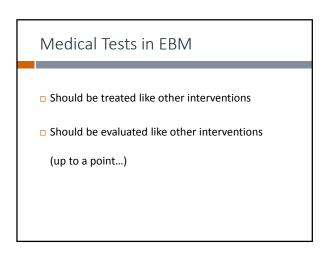












Take Home Messages

- Technical Performance, Clinical Performance, Clinical Effectiveness
- Decisions about medical tests are based on consequences, not on performance (only).
- Performance requirements can and should be defined as necessary conditions for effectiveness.

