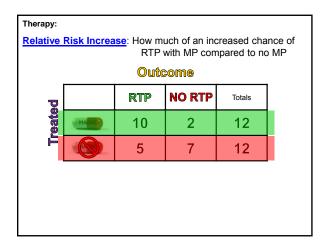
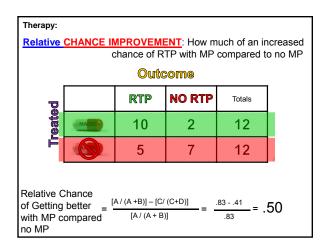
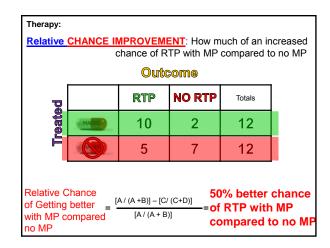


Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill
Relative Risk Increase:





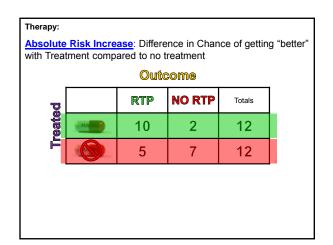


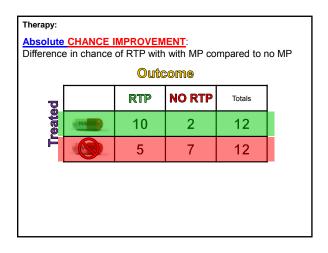
Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

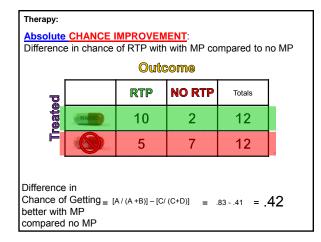
Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill compared to no magic pill

Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill compared to no magic pill
Absolute Risk Increase:







Therapy:					
	CHANCE I		MENT: n with MP co	mpared to r	no MP
Outcome					
9		RTP	NO RTP	Totals	
Treated	MAGIC	10	2	12	
Ţ		5	7	12	
Difference in Chance of Getting = [A/(A+B)] - [C/(C+D)] = between MP & no MP					

Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill
compared to no magic pill

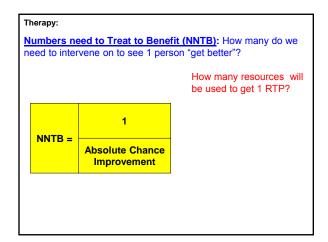
Absolute Risk Increase: ABSOLUTE CHANCE IMPROVEMENT = .42
Chance of RTP increases by 42% with magic pill

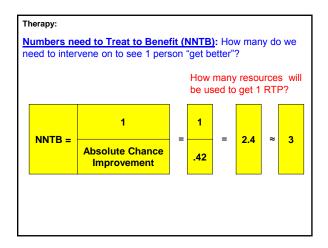
Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill
compared to no magic pill

Absolute Risk Increase: ABSOLUTE CHANCE IMPROVEMENT = .42
Chance of RTP increases by 42% with magic
pill

Numbers Needed to Treat to Benefit: =





Therapy:

Numbers need to Treat to Benefit (NNTB): How many do we need to intervene on to see 1 person "get better"?

How many resources will be used to get 1 RTP?

If we give 3 people the MP, 1 will RTP

The BEST NNTB: 1 (It takes 1 person taking a MP to Return 1 person to play)

The WORST NNTB: ∞ (It takes an infinite number of MP treatments to Return 1 to play)

Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill compared to no magic pill

Absolute Risk Increase: ABSOLUTE CHANCE IMPROVEMENT = .42
Chance of RTP increases by 42% with magic pill

Numbers Needed to Treat to Benefit: = 2.4 ≈ 3

If we give 3 people the magic pill, 1 will RTP

Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill
compared to no magic pill

Absolute Risk Increase: ABSOLUTE CHANCE IMPROVEMENT = .42
Chance of RTP increases by 42% with magic pill

Numbers Needed to Treat to Benefit: = 2.4 ≈ 3
If we give 3 people the magic pill, 1 will RTP

These are the treatment effects in an ideal situation, without taking the patient into account...

Relative Risk: RELATIVE CHANCE = 2.0
2x rate of RTP with magic pill

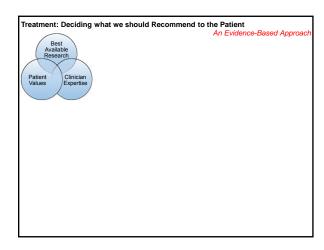
Relative Risk Increase: RELATIVE CHANCE IMPROVEMENT = .50
50% increased chance of RTP with magic pill
compared to no magic pill

Absolute Risk Increase: ABSOLUTE CHANCE IMPROVEMENT = .42
Chance of RTP increases by 42% with magic pill

Numbers Needed to Treat to Benefit: = 2.4.
If we give 3 people the magic pill, 1 will RTP

These are the treatment effects in an ideal situation, without taking the patient into account...
What shifts these probabilities?





Treatment: Deciding what we should Recommend to the Patient

An Evidence-Based Approach

Novice vs. Expert on that particular diagnosis

What do you know about...?

...the Diagnosis / Injury

...the Patient's Population to which they belong (age, sex, etc.)

...the Patient (knowledge, attitude, culture (sporting or ethnic), previous experience with this injury, previous experience with any injury, patient's activities & activities & activities & activities a colivinations, patient's participation restrictions, etc.

...typical Rehabilitation Protocols for that injury

...typical Prognosis (Time & Event Outcomes), even after appropriate treatment

Treatment: Deciding what we should Recommend to the Patient

An Evidence-Based Approach

Novice vs. Expert on that particular diagnosis

What do you know about...?

...the Diagnosis / Injury

...the Patient Expertise

Internal

Evidence

Limitanal

Evidence

Where the Internal Evidence is lacking, you must either:

Ask more questions of your patient

Go to the External Evidence (Bast Available Research)

Treatment: Deciding what we should Recommend to the Patient

Critical Appraisal of the Methods
Bias (internal validity)

Critical Appraisal of the Results
Patient Values

Critical Appraisal of the Results
Results with continuous data: ES & Cls (or similar)
Results with dichotomous events data: Odds, Risk, & Cls (or similar)

Internal
Evidence

External
Evidence

For the Best Available Evidence & Critical Appraisal of the Methods & Results:

Are the results Meaningful?

Probability shift that is substantial (based on research, clinically-oriented and/or patient-oriented results)

Are the results Valid? Little chance of bias in the way the study was conducted

Are the results likely to apply to My Patient? Generalizability AND...

PATIENT VALUES

Treatment: Deciding what we should Recommend to the Patient

Critical Appraisal of the Methods
Bias (internal validity)
Generalizability (external validity)
Critical Appraisal of the Results
Results with continuous data: ES & Cls (or similar)
Results with continuous data: ES & Cls (or similar)
Results with dichotomous events data: Odds, Risk, & Cls (or similar)

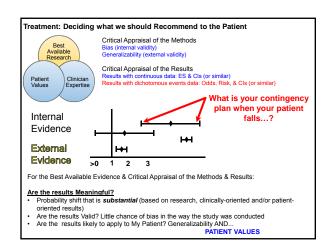
Internal
Evidence
External
Evidence

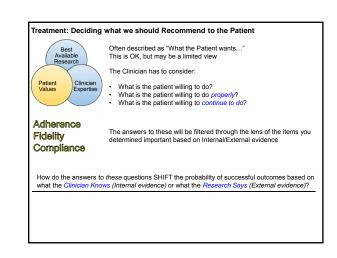
External
For the Best Available Evidence & Critical Appraisal of the Methods & Results:

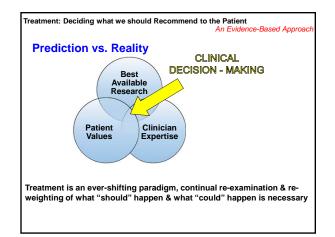
Are the results Meaningful?
Probability shift that is substantial (based on research, clinically-oriented and/or patient-oriented results)

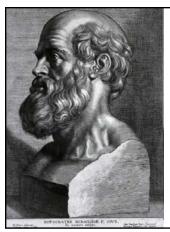
Are the results Valid? Little chance of bias in the way the study was conducted
Are the results likely to apply to My Patient? Generalizability AND...

PATIENT VALUES









It is more important to know what sort of person has a disease than what sort of disease a person has.

-Hippocrates

