**Healthcare Information & Decision Equation: Information🡺Decision 🡺Action🡺Outcome**

 **Is it true🡺Is it useful 🡺Is it usable?**

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| **Delfini on Evidence-based Practice and the 5 Hallmarks:** "Evidence-based medicine is the use of the scientific method and application of valid and useful science to inform health care provision, practice, evaluation and decisions. The use of science is required to help reduce medical uncertainty, increase predictability and inform about the probability of benefit or harm to whom.”  |

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| **The 5 “A”s of Evidence-based Practice** |
| **ASK** |  Create highly specific and focused key questions to frame the work. Consider PICO: patient/population, intervention, comparator, outcomes.  |
| **ACQUIRE** | Apply time-saving filters. Type of clinical question drives appropriateness of study type.  |
| **APPRAISE** | EVIDENCE REVIEW* Population
* Selection Bias
	+ Generation sequence
	+ Concealment of allocation
	+ Baseline characteristics
* Performance Bias
	+ Successful execution
	+ Comparator
	+ Blinding
	+ Similar treatments & care experience both arms
* Data Collection Bias
	+ Measurement methods
	+ How much, when, why, how missing data managed
* Assessment Bias
	+ Blinding
	+ Analysis
* Other issues that could explain or distort results
* Efficacy and Safety Results
	+ Mortality, morbidity, symptom relief, QOL, functioning
	+ Size of benefits
	+ Confidence intervals
* Synthesis/Strength or Level of the Evidence
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| **APPLY** |  **TRIANGULATING DECISIONS** |
| 1. **Evidence**
2. **Patient Perspective**
* Benefits
* Harms
* Risks
* Costs
* Uncertainties
* Alternatives
* Applicability
* Satisfaction,
* Clinical considerations (eg tolerability, ease of use, dependency or abuse potential)
* Unmet needs
* Special populations
1. **Clinician Perspective**
* Satisfaction, acceptability, etc.
 | 1. **Other Decision Considerations**
* Accreditation issues
* Community standards
* Cost
* Ethical considerations
* Liability and risk management issues
* Marketing
* Media or press issues
* Medical community impacts
* Medical‐legal
* Public relations
* Purchasing issues
* Regulatory
* Research realities (eg, no evidence will be able to answer clinical questions, etc.)
* Utilization and capacity issues
* Overall impact on the health care organization
* Other
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| **AGAIN** | Update and improve |