

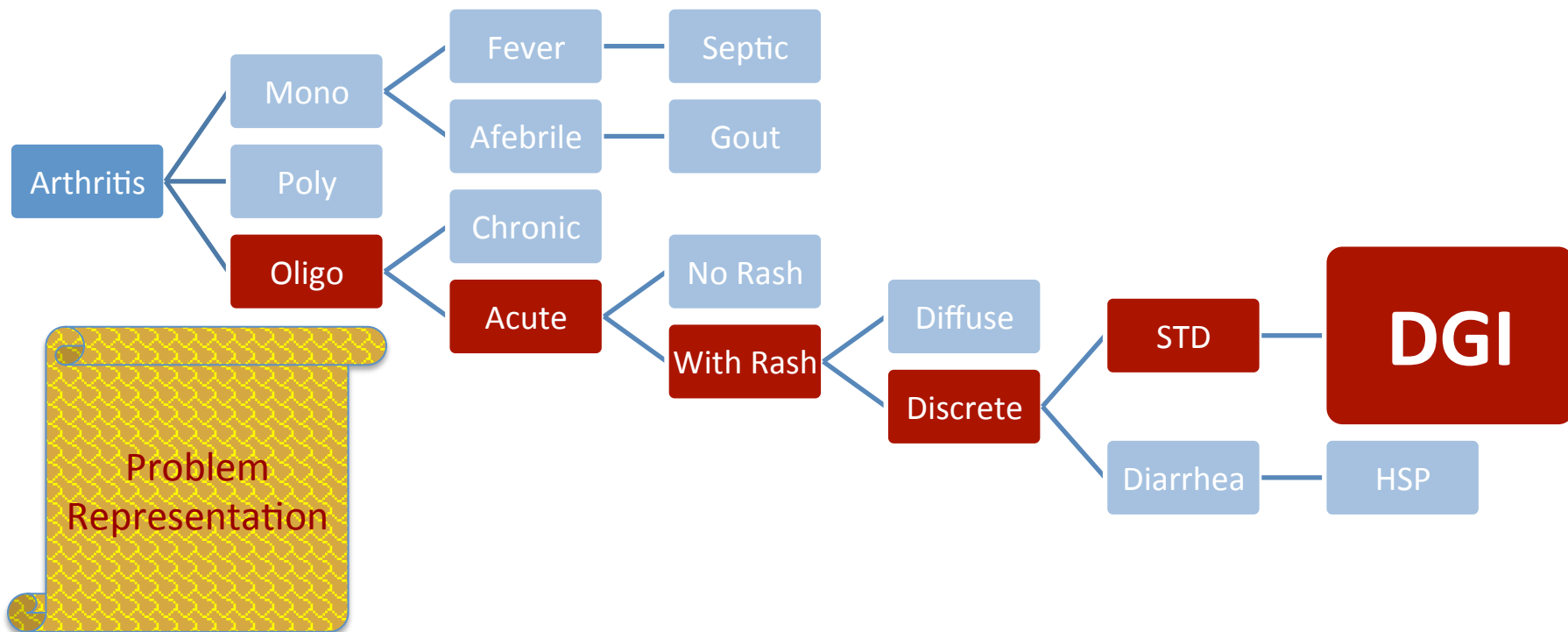
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Pattern Recognition: More precise problem representation

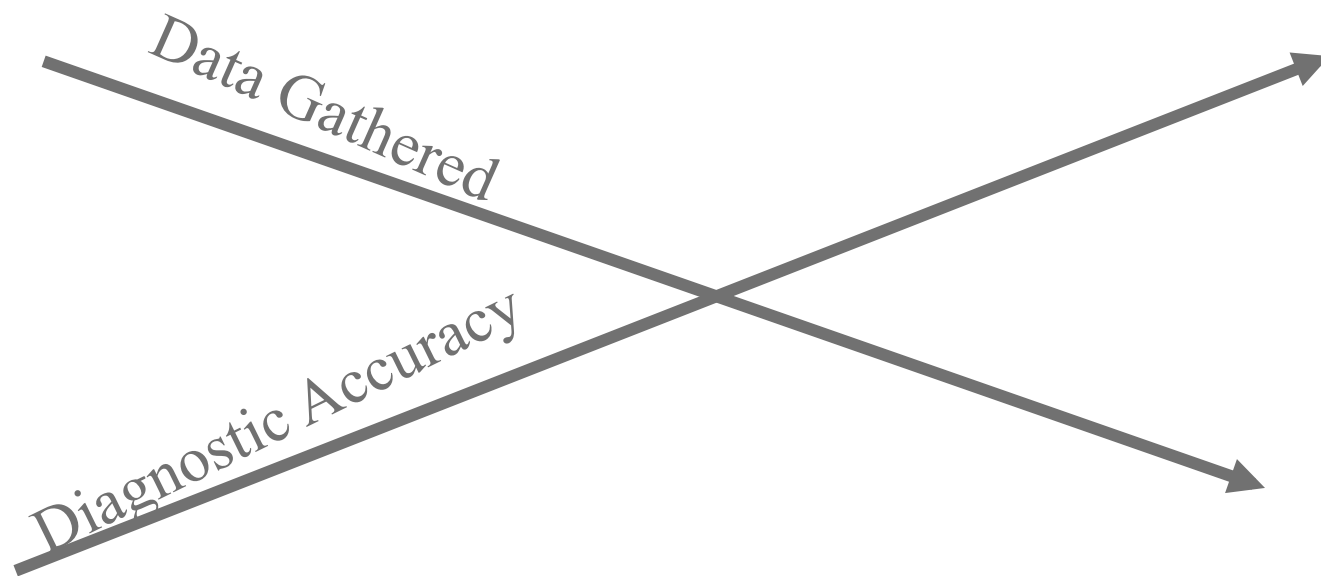
Pattern Recognition

- Problem Representation: The DISEASE
- Instantaneous or near instantaneous recognition that all elements of a disease are present.
 - Essentially, rapid, externally invisible forward thinking
- Key skills
 - Ability to process and develop problem representation
 - Knowledge of disease illness scripts
 - Compare and contrast between diseases that present similarly

Pattern Recognition



Clinical Problem Solving: A paradox



Novice

Expert

Quiz 2.4

Compared with hypothesis testing, forward thinking

1. Takes more time
2. Constructs a syndrome for problem representation.
3. Ignores all but one of the patient's symptoms

Key Take Home Points

- Clinicians use a spectrum of decision making tools: hypothesis testing, forward thinking and pattern recognition
- Experts predominantly (but not exclusively) use forward thinking and pattern recognition
- Processing, or translating the patient's complaints into medical language is the building block to problem representation.
- Forward Thinking and Pattern recognition rely on carefully constructed problem representations.

Next week

- Creating a patient illness script and using it to prioritize differential diagnoses.
- Understanding how the prioritized differential diagnosis helps us with interpretation of diagnostic tests.

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End of Module 2