Step Three Making a Diagnosis	
Stop Times Harming a Braginosis	
	-
Component 2/Unit 4a3 Health 1T Worldorce Curriculum Version 1.0/Fall 2010 1	
· version i Juran 2010	
Diagnostic Thinking	
51	
weight gain + edema Edema – entire DDx exertional dyspnea but Heart- HTN, but lungs clear	
clear lungs – Liver – no stigmata	
pallor high BP + Hx HTN Roneys - not anasarca Nutrition - rare in US	
tachycardia tachycardia	
S4 gallop	
RFs for CAD Anemia (pallor) ex smoker Restriction (abdomen)	
- Deconditioning	
Tachycardia Component 2/Unit 4a3 Health 1T Workforce Curriculum Version 1:0Fall 2010 2	
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Some Techniques for Diagnosis	
Contamatic	
Systematic - e.g. VINDICATE, organ - when you hear hoofbeats,	
system look for horses, not zebras	
e.g. chest anatomy Mathematics	
Pathophysiologic – Baye's Theorem – e.g. bilirubin metabolism – SpIN, SnOUT	
Pattern recognition Temporal patterns	
e.g. NDMacute, subacute, etcMnemonic	
– PT Barnum Loves Kids	
Component 2/Unit 4a3 Health IT Workforce Curriculum Version 1.0/Fall 2010 3	

Systematic Approach Brainstorming To Expand Differential

VINDICATE (processes)

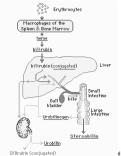
Organ (systems) - Neuro

- vascularinfectiousneoplastic
- CV – Pulmonary – Renal
- drugsinflammatory/ idiopathic,
 - Renal athic, – Heme – GI
- congenitalautoimmunetraumaendocrine/metabolic)
- BonesJoints
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Anatomic Approach The structure provides structure for DDx

Pathophysiologic Approach All the causes of jaundice



- Erythrocyte
 - erythropoiesis
 - hemolysis
- Live
 - uptake- Gilbert's
 - conjugate- Crigler-Najer
 - secretion: Dubin-Johnson
- Biliary obstruction
- intrahepatic cholestasis
- bile duct clonorchis
- pancreas cancer

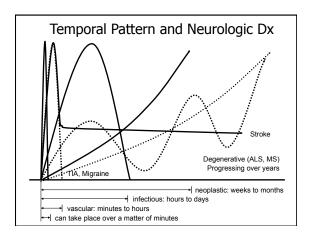
Patterns of Data in Diagnosis Especially Neurologic Diagnosis

- · Topographic pattern
 - locate lesion in nervous system
 - peripheral nerves, plexus, spine, brain
- Temporal pattern
 - pace of appearance and resolution of symptoms
 - pathophysiologic process
- · Clinical context the company it keeps
 - other symptoms (e.g. fever)
 - comorbidities (e.g. valvular heart disease)
 - past Hx (e.g. smoking)

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Topography and Neurologic Diannesis Peacered gens of the Control of Secretary and motor inferrent log part (a) Sendosensory corbex [Figure 4.21. Approximate representation of secesy and motor inferrent log part (a) (b) Each location in the sonatorensory corber representation of secesy and motor inferrent log part (a) (b) Each location in the sonatorensory corber represents a sessible finar alfertent log part (a) Each location in the notor cortex regulates movement of a different body part. (Source After Period & Basinessen, 1960) http://mywebpages.comcast.net/epoliak/PSY255_pix/homunculus.jpg Health IT Workforce Curriculum Health IT Workforce Curriculum B 8



Heuristics: Rules of Thumb

- · Err on the side of life
- When you hear hoofbeats, think of horses, not zebras (unless you're at the zoo...)
- You are more likely to see an uncommon case of a common disease than an uncommon disease
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Weaknesses

- cognitive errors
- heuristics and biases
- Strength:
 - "fast and frugal heuristics"

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Mathematical Approaches

- · Bayes' theorem
 - SpIN & SnOUT
 - PPV and LR+
 - ROC curves
- · Decision Rules
 - Well's criteria for PE
 - strep throat, sinusitis
- · Decision Analysis
- Utility of Dx/Tx

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