Teaching at the Bedside: Practical Strategies to Overcome Real-World Challenges

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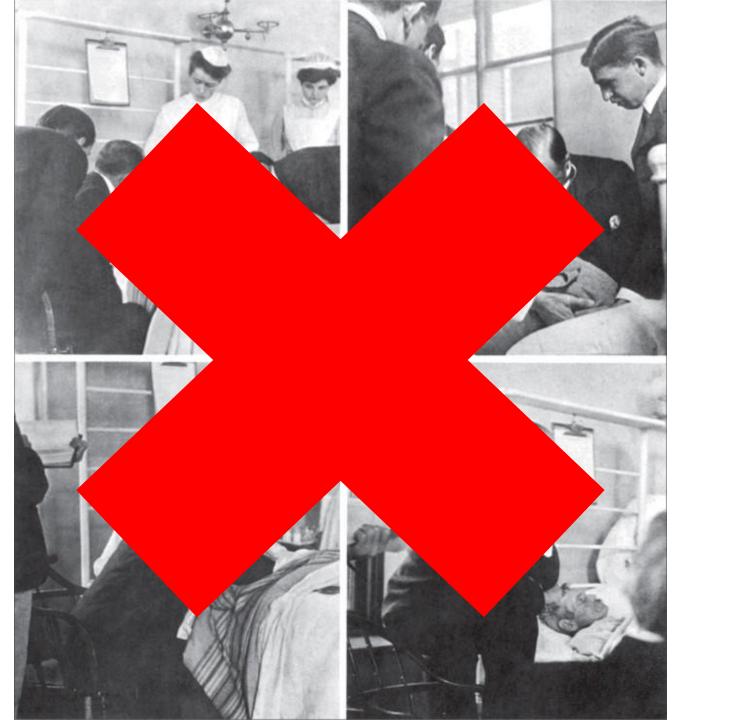
Twitter: @zahirkanjee





Disclosures

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- Honoraria: Oakstone Publishing (CME)
- Paid advisory board: Wolters Kluwer (medical education products)
- Research funding: Gordon and Betty Moore Foundation (artificial intelligence)













Objectives

By the end of this session, you will:

- Recognize and articulate the unique value of bedside teaching
- Address barriers to effective and efficient bedside teaching/rounding
- Be ready to implement several tips for better bedside teaching

Why teach at the bedside?

Educational Benefits

- Better feedback: assess reasoning, communication, examination
- Confirm/adjust history/physical early, efficiency
- Model clinical reasoning
- Model behavior (compassion, communication, professionalism)
- Teach physical examination

Nursing Benefits

Many nurses like it

Patient Benefits

- Many patients like it
- Perception of more time in care
- Involve patient in discussions
- Show patient how smart their team is and how hard they're working
- Fun

Potential barriers to effective bedside teaching/rounding

- 1. Time (yours, theirs)
- 2. Learner concerns: intimidating, corrections, autonomy
- 3. Structure: roles/position, computers
- 4. Patients: talk too much, sensitive issues, intrusive, confusing
- 5. Teacher concerns: knowledge, communication deficiencies
- 6. Not thought worthwhile

1. Time

Bedside rounding <u>does not</u> take longer

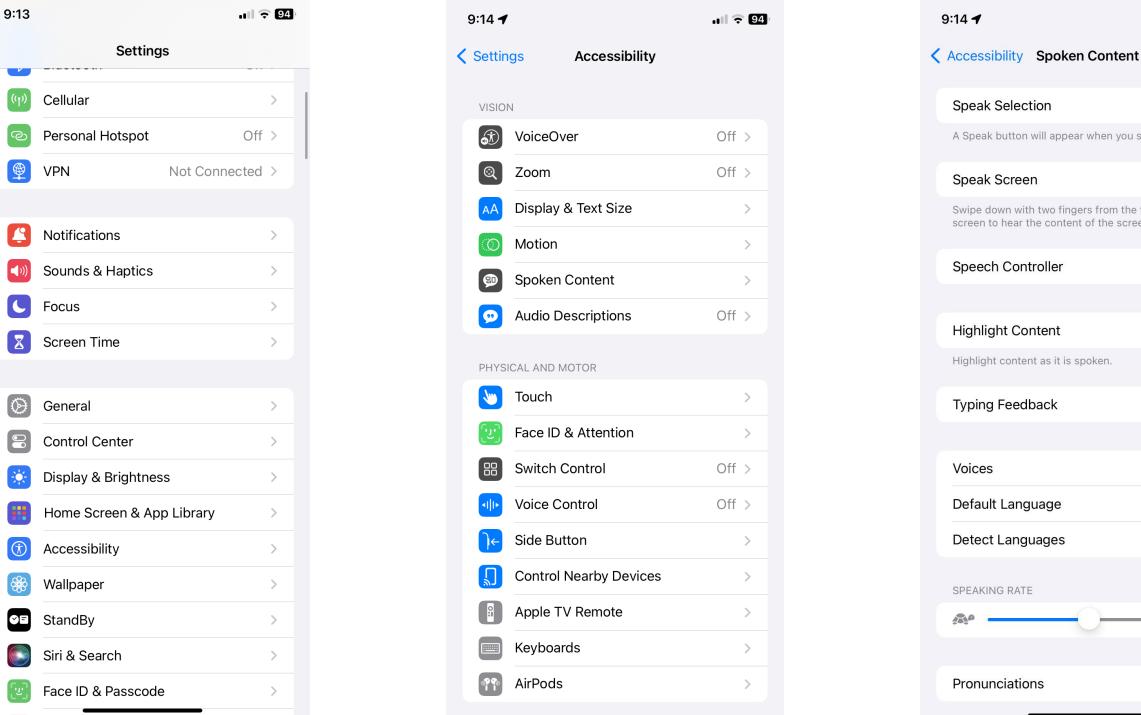
Bedside rounding takes <u>no more time</u> at BIDMC (Gonzalo JGIM 2010):

- Mean duration new patient encounters: 16 vs. 15 min (p=0.42)
- Mean duration team rounding per day: 95 min vs. 98 min (p=0.52)

But it must be done right.

1. Time

Read beforehand





ııl 🗢 94





Zahir Kanjee-Khoja, MD

Physician Telephone Encounter 👺

Internal Medicine Signed

Encounter Date: 9/17/2024

Tip: If needed, scroll horizontally

Chief Complaint: chest pain

History of Present Illness: This is a 99 y.o. female with a history of CAD who presents with fevers, chest pain and shortness of breath.

This is a sample note to demonstrate that notes can be dictated to you. This will allow you to "read" your notes before rounds so you can focus your time at the bedside with trainees on teaching and advancing patient care.

In the ED, initial triage vitals were T 101, BP 140/88, HR 90, RR 19, 88%RA.

On my history, she was fine until Wednesday, then had sudden onset chest pain and shortness of breath with fevers and chills.

PMH

CAD, managed medically

Meds:

ASA 81mg po qd Atorvastatin 80mg po qd Metoprolol succinate 100mg po qd

FΗ

Myoloma in father



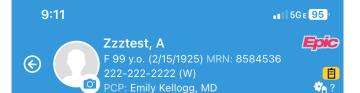




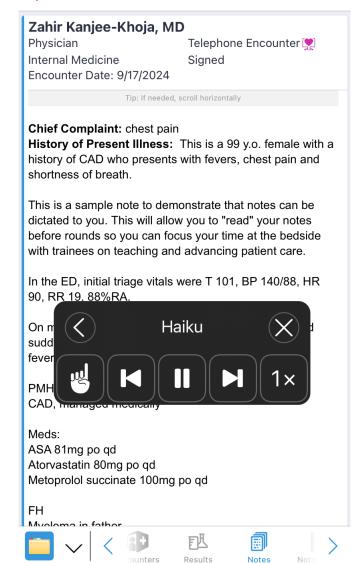








Notes



Disclaimers: please don't use this in a way that limits your attention while driving/doing activates requiring your attention. While Apple keeps text on device, do not play out loud in public.

1. Time

- Read beforehand
- Pre-set limits on time, teaching points
- Limit teaching points, check in regularly on time
- Be intentional about what gets read out loud
- Be intentional about what is discussed/decided on rounds versus later
- Separate by intern?
- Defer longer patient conversations to later in the day

2. Learner Concerns

Preparing a team for bedside rounding

What are your concerns about bedside rounding?

What can be learned best at the bedside?

 How can we conduct rounds so that we and patients benefit from the time we invest at their bedside?

Effective Socratic Teaching at Bedside

- Supportive atmosphere, know/use learner names
- Enthusiasm
- The right approach to the "wrong" answer
 - Avoid grilling
 - Reword problem/question to help "discover" the correct answer
 - Acknowledge effort, difficulty
 - Say "wrong" in a non-demeaning way
- Pause before asking another person
- Show own knowledge gaps and model good learning

Ask the right type of question

- 1. Factual How long has the patient had symptoms?
- 2. Broadening What are other potential causes of this patient's lower abdominal pain?
- 3. Justifying What supports your diagnosis?
- 4. Hypothetical If the patient were immunocompromised, how would this change your diagnosis?
- 5. Alternative What would be the advantage or disadvantage of surgery vs conservative treatment?

"Don't just stand there, do something."



"Don't just do something, stand there."



Other ways to address learner concerns

- Explicit acceptance that story may change
- Positive feedback, save negative feedback for later, correct with grace
- Phased approach to bedside rounding, demonstrate once?

3. Structure

Positioning



BEDSIDE2-R framework

Before

BED

- Brief team
- Engage patient
- Delineate roles

During

• SIDE2

- Summarize events
- Investigate data
- Demonstrate exam
- Explain plan
- Ensure understanding

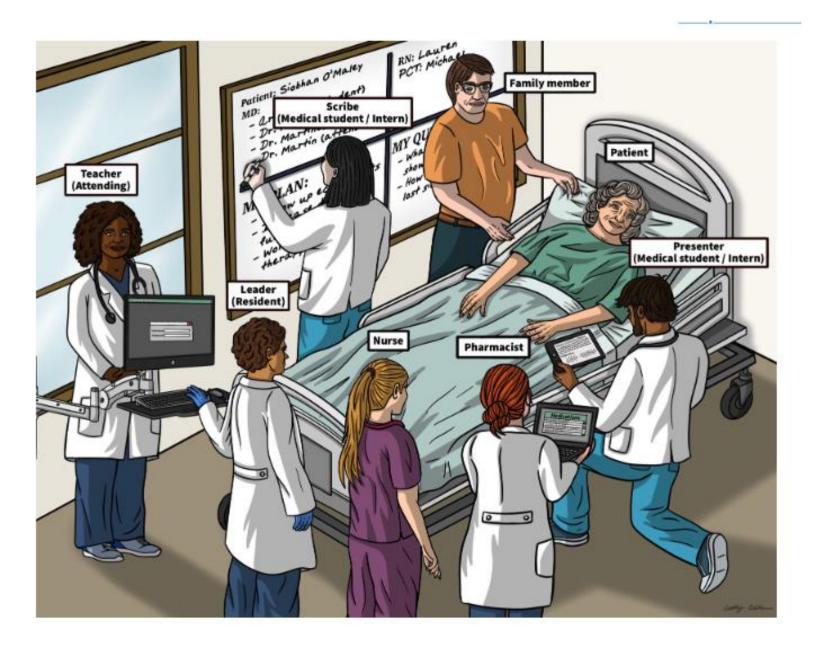
After

• R





Nelson, Kanjee, Freed, Cichon, Ricotta. J Hosp Med 2024



BOX 1. Sample script for introducing BEDSIDE₂-R to patients

Ms. O'Maley, we'd like to discuss your plan of care today using a style of rounding called bedside rounds. We'll start by summarizing the overnight events and any pertinent physical exam findings. Then, we will investigate data by reading aloud your vital signs, lab results, and any new reports since yesterday. Next, we will demonstrate a cardiac examination as a team to listen to your heart murmur. Finally, we will explain the problem-based plan of care for today. Throughout our discussion, you may hear some medical terminology, so we will make sure to ensure understanding and answer any questions you have at the end. How does that sound to you?



Nelson, Kanjee, Freed, Cichon, Ricotta. J Hosp Med 2024

4. Teacher Concerns

Actually teaching

Hidden curriculum: "You can't not teach."

 Communication skills: "Could I add something?"

Physical exam: multiple approaches



Actually teaching

Hidden curriculum: "You can't not teach."

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"You can't not teach."

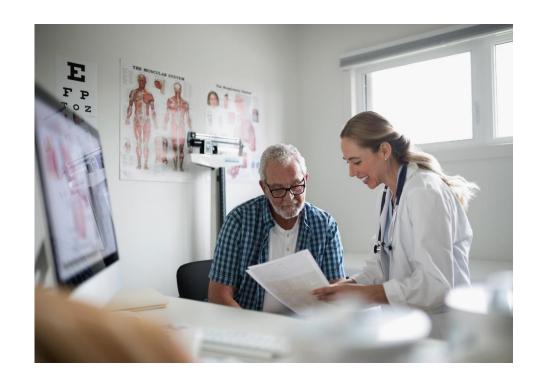
Charlie Hatem MD

Actually teaching

Hidden curriculum: "You can't not teach."

 Communication skills: "Could I add something?"

• Physical exam: multiple approaches







Teaching Communication Skills

"Could I Add Something?": Teaching Communication by Intervening in Real Time During a Clinical Encounter

Anthony L. Back, MD, Robert M. Arnold, MD, James A. Tulsky, MD, Walter F. Baile, MD, and Kelly Edwards, PhD

- 1. Prepare learner before going in the room.
- 2. Introduce yourself and your role to the patient.
- 3. Observe the learner's communication skills.



- 1. Prepare learner before going in the room.
- 2. Introduce yourself and your role to the patient.
- Observe the learner's communication skills.
- Decide if intervention needed.
 - Not recognizing patient's emotions and continuing would cause harm.
 - Emotions overwhelming learner.
 - (Egregiously incorrect information.)



- 1. Prepare learner before going in the room.
- 2. Introduce yourself and your role to the patient.
- 3. Observe the learner's communication skills.
- 4. Decide if intervention needed.
- 5. Frame the intervention as adding value.
 - Step in. "Could I add something here?"
 - Question is polite, role as supporter.
 - **Step out.** Give control back with "Dr. R, could I ask you to continue?" or "Dr. R, could I ask you to finish this up by talking about....?"

- 1. Prepare learner before going in the room.
- 2. Introduce yourself and your role to the patient.
- 3. Observe the learner's communication skills.
- 4. Decide if intervention needed.
- 5. Frame the intervention as adding value.
- 6. Include the reason for intervening in learner debrief.

Actually teaching

Hidden curriculum: "You can't not teach."

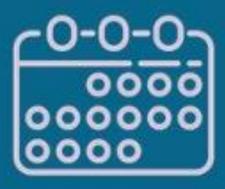
 Communication skills: "Could I add something?"

• Physical exam: multiple approaches



Incorporating Physical Exam Teaching at the Bedside on Rounds





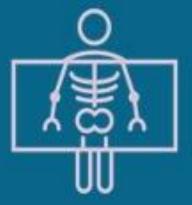




Diagnostically Relevant



Clinical Trend



Imaging Correlation

@MedEdTwagTeam







Ankle Reflexes¹,²

Narrative Section

HISTORICAL VIGNETTE - Did you know that the reflex hammer's history

is rooted in wine? The story of the reflex hammer dates back to 1761 when Josef Leopold Auenbrugger first described the art of percussion adapted from his father's method of tapping wine casks to measure the level of remaining wine. Percussion was initially performed with a hammer, but it fell out of use when the fingers were used as pleximeter and hammer. The hammer would later be adapted by physicians for the deep



tendon reflexes when Erb and Westhal described the diagnostic utility of the knee-jerk reflex, about 1875.

CLINICAL VIGNETTE AND USEFULNESS - Mr. Jones presented with progressive weakness in both legs and arms. The examination showed bilateral weakness in all 4 extremities. There was normal sensation below the clavicle, normal cranial nerves, and normal mentation. Deep tendon reflexes were very brisk, and there was ankle and patellar clonus. The Babinski and Hoffman reflexes were present with 3+ reflexes in all 4 extremities. The distinct constellation of findings suggested a transverse cord lesion. The differential would have been different had the reflexes been normal or absent.

Physical Manuever

Model Proper Technique - two techniques can help elicit the ankle reflex in a bed bound patient. The first involves both legs fully extended and the examiner placing two fingers across the plantar surface of the metatarsal heads. With the foot cocked up, strike the hammer against the two fingers, looking for the brisk ankle contraction. Alternatively, the patient can outwardly rotate the hip, flex the knee. The examiner positions two fingers on the metatarsal heads. This time, though, strike the Achilles tendon directly to observe the contraction. Finally, in a patient who is unable to relax their lower extremities, cross the foot being examined over the lower part of the other leg and strike the Achilles tendon as before.





In a seated patient, have the patient relax the ankle while the examiner applies slight tension to the Achilles tendon by lifting the under the foot. Strike over the Achilles tendon to see the tendon contraction (S1 level) and the resulting plantar flexion of the foot.



INTERPRETATION - An explanation of reflex grading: 0 absent, 1+ slight but clear response, 2+ brisk and normal response, 3+ very brisk exaggerated response, 4+ clonus.

CAVEAT AND COMMON ERRORS - When first using the reflex hammer, many learners tend to hold the hammer too high. This lowers the torque and can lead to a reflex that is falsely absent because adequate pressure is not applied quickly. Holding the hammer in too tight a fashion impairs the stroke.

Society of Bedside Medicine Society of Bedside Medicine

¹ Chi J et. al. "The Five Minute Moment." Am J Med. 2016 Aug; 129 (8): 792-795.

² Lanska, DJ. "The History of Reflex Hammers." Neurology. 1989 Nov; 39: 1542-1549.

Virchow's Node1

Narrative Section

HISTORICAL VIGNETTE / CASE STUDY -

A 72 year old man presented to the clinic with a 10 pound weight loss over the past year and swelling of the area of his left clavicle. He denied fever, chills, or night sweats. His examination was notable for being afebrile, a BP = 127/81, a pulse = 72, and respirations = 18. He had no cervical or axially adenopathy. His left supraclavicular fossa had a large. 2 cm. soft.



Clubbing¹,²

Narrative Section

HISTORICAL VIGNETTE - While convalescing from emergency aortic and mitral valve surgery due to endocarditis, South African cardiologist Leo Schamroth noticed a change in his swollen digits. A painless, lilac hue at the nail beds began to recede after surgery. "The 'window' [seen by holding his nail beds together] reappeared 2 months after the infection had been controlled," he wrote in his landmark reflection on his own illness. However, it took many more months before the bulbous slope of the distal nail returned to its baseline shape. For decades since, "Schamroth Sign" of digital clubbing has been



a marker for underlying disease, but a careful reading of the literature suggests that other bedside tests can indicate digital clubbing with both better inter-observer agreement and higher disease-specific reliability.

CONTEXT AND USEFULNESS - The presence of digital clubbing can help the aware clinician focus further work up. The "gold standard" diagnostic test to confirm clubbing, though, is an objective bedside measurement, not a lab test or radiograph. Clinicians should also recognized that clubbing has many causes (cardiac, hepatic, oncologic, pulmonary) and is not a part of the natural history of chronic lung disease. In these pulmonary patients, its presence predicts—but does not confirm—pathology. Most patients will not readily notice the change of their nails as the process of nail matrix hypertrophy is slow and painless.

1 Chi J et. al. "The Five Minute Moment." Am J Med. 2016 Aug; 129 (8): 792-795.

"Does This Patient Have Clubbing." JAMA. 2001 July; 286 (3): 341-347.

Society of Bedside Medicine

Physical Manuever

Model Proper (And Improper) Technique - Virchow's node lie junction of the thoracic duct and the left subclavian vein, where from most of the body drains into the systemic circulation. Tumor gastrointestinal cancers via the thoracic duct usually leads to the enlargement of the left supraclavicular node. Virchow's node (al as Troisier's node or Troisier's sign) can be the first clue to a C malignancy.² For this reason, they are also called sentinel or signals or the signal of the signal

A method for examination of the supraclavicular lymph nodes:

- Have patient seated upright and facing forward as you pal supraclavicular fossa
- Ask patient to perform the Valsalva during the examination
 can help bring out an otherwise unapparent lymph node
- Instruct the patient to tilt their head to the side being exa which can help in feeling deeper into the supraclavicular fos

Physical Manuever

Model Proper Technique - observation of the nail beds suggests clubbing with a "drumstick" or bulbous swelling of the distal phalanx. The nail bed often takes an erythematous hue. Nail angles can help bring objectivity to the

assessment of the misshapen nail. Observe the "profile angle" [ABC] at which the nail emerges from the nail bed (always more acute than a



straight-line 180°) and the "hyponychial angle" [ABD] at which the nail bed and clipped-edge appear.

The most objective measure of clubbing, however, comes in assessing finger-tip depth (phalangeal depth ratio). The depth



of the DIP joint [IPD] should always be greater than the depth of the DPD. Slide a tight ring on the finger and it should glide past the nail and stop at the knuckle. If it gets hung up on the nail first (if the ratio is reversed, or DPD:IPD >1:05), clubbing is present.

INTERPRETATION - Fingernails can present with many shapes and sizes. Careful examination of the nails of disease-free patients can often reassure them that clubbing is *not* present (i.e., if the depth ratio is <1.0). However, measures in patients with chronic lung disease confirming clubbing (>1.05 ratio) should also continue the quest for more sinister sources.

CAVEAT AND COMMON ERRORS - Remember: clubbing can rarely be hereditary (benign) or unilateral (indicative of a vascular source).

Society of Bedside Medicine

Cirrhosis¹,²

Narrative Section

HISTORICAL VIGNETTE - Hearts hold a place of prominence in the

world of love, but it wasn't always so. When Shakespeare wrote in his sixteenth century *Romeo and Juliet* that "young men's love lies not truly in their hearts, but in their eyes," his readers doubtlessly understood. But had that play been performed for an ancient Greco-Roman audience, or at a Babylonian theater, the listeners might have been perplexed. The seat of the soul, of love, and of human emotions in cultures before the modern era was thought to be the



"ay sculptures from 2000 BCE (FIGURE 1) guided priests and ists in understanding this vital organ. The names they gave to its es survive into modern anatomical terms. Indeed, even peare might have understood: reports indicate that Queen Elizabeth ixteenth century was not referred to as England's head of state—but This vital three-pound organ, holding over 10% of the body's blood from two separate sources, sends out distress signals when it is

Aortic Regurgitation 1,2

e Section

. VIGNETTE - WHY IS THIS PHOTO OF ABRAHAM LINCOLN ISIAI ?

e look at his left foot. It uggested since the Lincoln had Marfan and associated Aortic y / Aortic Regurgitation diagnosis of AR stems in blurred left foot in this ght to be due to Isation from a hyperilse, as found in aortic y; hence, Lincoln's Sign. odern understanding of nysiology of AR and the anifestations of this allow incoln's Sign in clinical not, what physical exam vide diagnostic value in assessment of AR?



ND USEFULNESS - A 2006 review cite 31 eponyms in the medical scribing the physical findings of aortic regurgitation. Many milar pathophysiologic signs and pulse characteristic in vascular shout the body. Remembering the underlying cause of these ins their usefulness: aortic insufficiency causes a regurgitant slood in the aorta. Pathologic conditions resulting in incompetent its can cause it (ie. bicuspid valve, aortopathy, calcific disease, leart disease, syphilis, and endocarditis).

The Five Minute Moment." Am J Med. 2016 Aug; 129 (8): 792-795.

Eponyms and the Diagnosis of Aortic Regurgitation: What Says the Evidence?" d. 2003; 138: 736-742.

BedsideMedicine.org

Physical Maneuver

Model Proper (And Improper) Technique³ - To properly assess the liver, place the patient in a recumbent position with the skin of the abdomen exposed. Note the presence or absence of dilated abdominal veins (caput medusa). In males, is body hair reduced? Is gynecomastia present? What about the presence of spider angiomas (FigURE 2) across the abdomen and chest? Each of these findings suggest estrogen excess as the byproduct of poor hepatic function. Next, search for the presence of ascites. When the abdomen is distended, the probability of ascites is increased most by discovering the presence of a fluid wave (LR = 5.0) and the presence of edema (LR = 3.8). Palpating a firm liver edge suggests cirrhosis in chronic liver disease (LR = 3.3). Finally, sit the patient up and evaluate for hepatic encephalopathy. In the studies of

FIGURE 2

evaluate for nepatic encephalopathy. In the studies of physical exam signs and cirrhosis, encephalopathy was defined as disordered consciousness plus asterixis. The conscious patient, with arms outstretched and fingers spread, can be assessed for asterixis by observing for the sudden "flap" of the hands. This occurs when the patient is unable to hold the fixed position. (If necessary, an elevated leg and flexed foot can achieve the same result). EMG studies have demonstrated a "negative myoclonus" occurring during asterixis—a transient interruption of electrical signal to the muscle.

INTERPRETATION - The dilated abdominal wall veins increase the likelihood of cirrhosis most (LR = 9.5), followed by equal measures of

Physical Manuever

Model Proper (And Improper) Technique - The first step in recognizing abnormal signs of AR is to practice normal technique. When listening for diastolic murmurs—the absence of silence—sit the patient forward, listen in end-expiration, and time diastole by palpating a central pulse (ie. a carotid). Train your ears on the normal to prepare them for the abnormal. Also, examining for collapsing pulses of AR is best done through the brachial artery, feeling for rapid drop-off. If listening for femoral arteries, position the patient supine, compress the artery with two fingers, and keep the stethoscope's diaphragm flat on the skin.

A 2003 review1 found these four signs have the most diagnostic value:

- Corrigan's pulse —the "water hammer" or "collapsing" is characterized by a rapidly swelling an falling arterial pulse.
- Duroziez's sign —a systolic and diastolic bruit heard when the femoral artery is partially compressed.
- Hill's sign lower extremity (foot) systolic pressure exceeding upper extremity (brachial) by more than 20 mmHg in the recumbent position. This test has a LR=17.3 if the foot-arm systolic gradient >60 mmHg.³
- 4) Austin Flint murmur a low-pitched, mid-to-late diastolic rumble heard at the apex. This murmur has been attributed to the effects of competing antegrade turbulent diastolic flow from the left atrium and the retrograde regurgitant flow from the aorta.

INTERPRETATION - Hill's sign has the strongest specificity (71-100%) and is more frequent with more severe AR. Of course, it must be taken in the context of other coexisting co-morbidies such as atherosclerosis. Rather than commit each eponym to memory, remember the principle that a column of blood is reversing. Some signs that directly reflect this (Duroziez's) are more reliable and accurate than indirect measures.

CAVEAT AND COMMON ERRORS - Know that these signs apply to *chronic* aortic regurgitation. Acute aortic regurgitation signs are less well described.

Special thanks to Dr. Junaid Zaman for submitting this 5M2.

³ McGee, Steven. Evidence-Based Physical Diagnosis, 4th ed. Philadelphia, PA: Elsevier; 2018.

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Demonstrate

Look

Reinforce

OPEN ACCESS | April 7, 2022

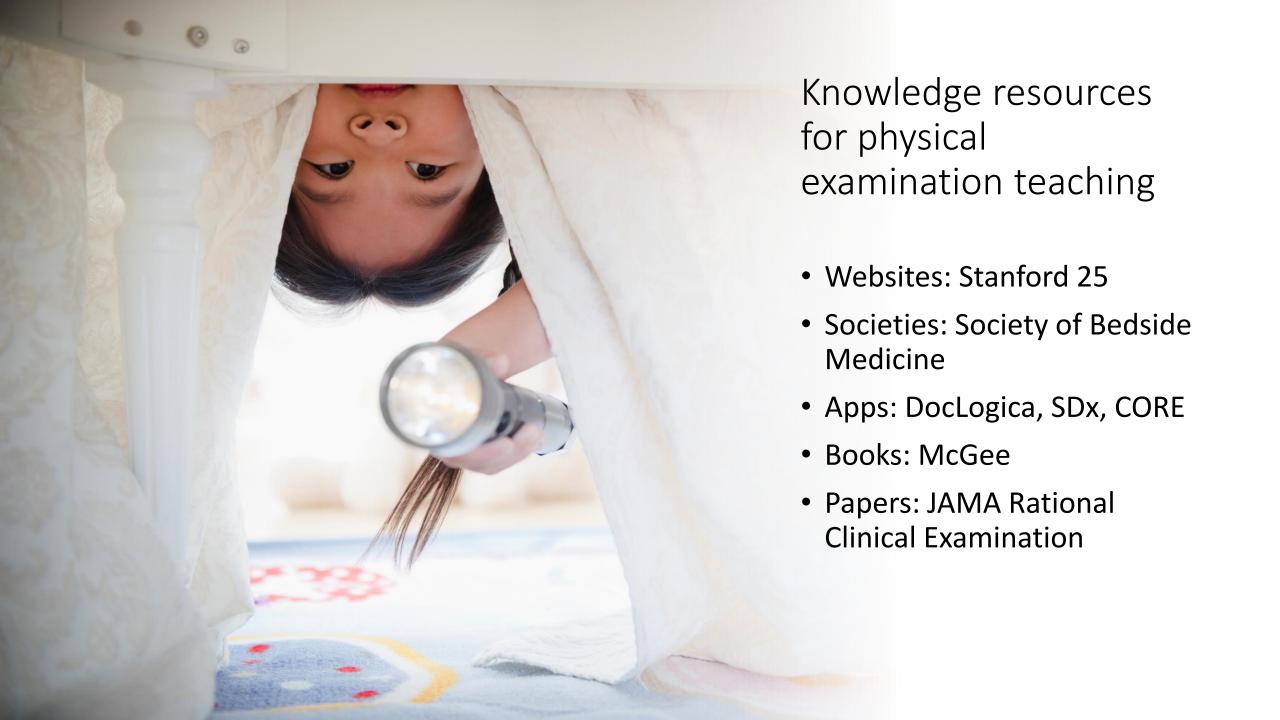
Teaching Evidence-Based Physical Diagnosis: A Workshop for Hospitalists

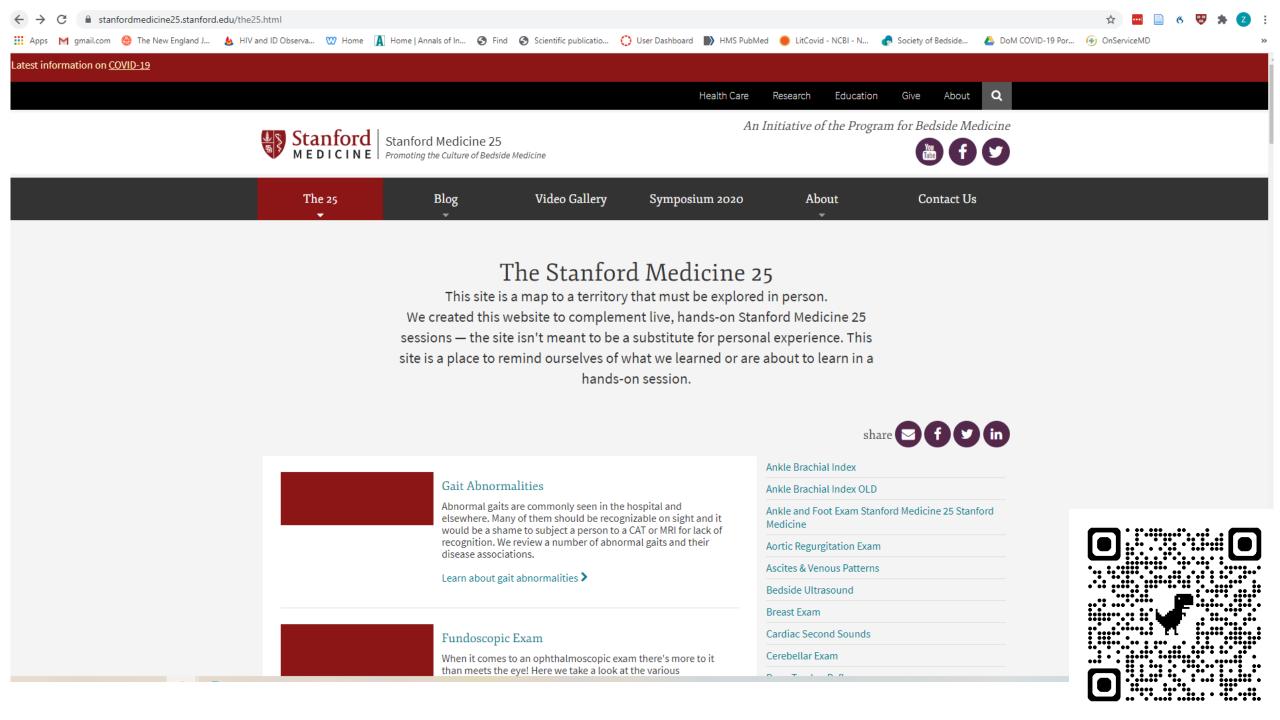
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□ D, Anjala V. Tess, MD
https://doi.org/10.15766/mep_2374-8265.11243

Sections













Stanford 25 YouTube Channel →

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Thyroid Exam

Women's Health (Breast & Pelvic Exam)

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Abdominal Examination







Ankle Brachial Index





Bedside Ultrasound

Introduction to Ultraso...











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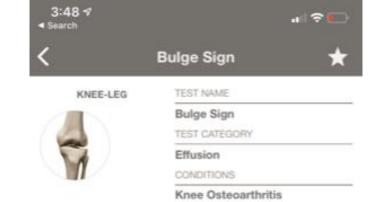


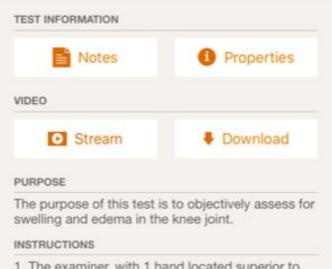
Pathology	Alphabetical	
Alignment	1 >	
Effusion	2 >	
Instability	37 >	
Mensicus	15 >	
Muscle-Tendinopathy	2 >	
Patellofemoral	4 >	

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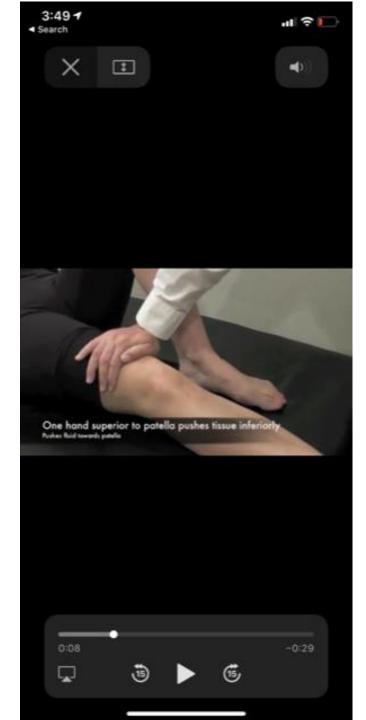
 The examiner, with 1 hand located superior to the patella, pushes the tissues (and possible fluid) inferiorly towards the patella.

- Keeping this hand in this position while holding pressure on these tissues, the examiner uses the other hand to press the medial aspect of the knee just posterior to the patellar edge to force any fluid within the joint laterally.
- While watching the medial joint area, the hand over this area is taken and used to press quickly along the lateral (ie, opposite) aspect of the knee, looking for a fluid wave to present medially.

CORE: Apple App Store



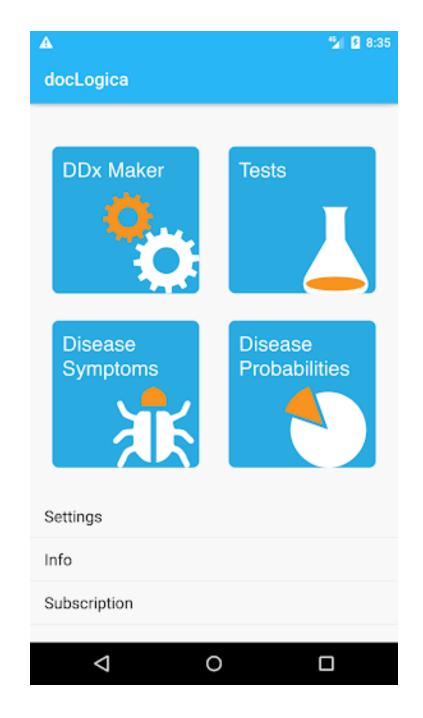




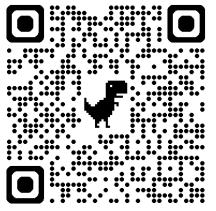
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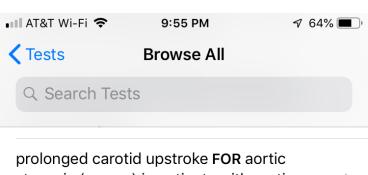
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prolonged carotid upstroke FOR aortic stenosis (severe) in patients with aortic systolic ejection murmur

A2 decreased or absent **FOR** aortic stenosis (severe) in patients with aortic systolic ejection murmur

reverse splitting of S2 **FOR** aortic stenosis (severe) in patients with aortic systolic ejection murmur

atrial fibrillation **FOR** aortic stenosis (severe) in patients with aortic systolic ejection murmur

murmur transmitted to carotid **FOR** aortic stenosis (severe) in patients with aortic systolic ejection murmur

late peaking murmur **FOR** aortic stenosis (severe) in patients with aortic systolic ejection murmur











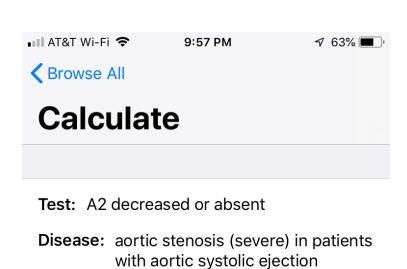
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+ -

Likelihood Ratio (95% CI):

5.74 (3.04-10.81)

Pre-Test Probability: 50%

murmur

Post-Test Probability (95% CI):

85% (75%-92%)











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- Does this patient with shoulder pain have rotator cuff disease?: The Rational Clinical Examination
- 2. <u>systematic review.</u>

Hermans J, Luime JJ, Meuffels DE, Reijman M, Simel DL, Bierma-Zeinstra SM.

JAMA. 2013 Aug 28;310(8):837-47. doi: 10.1001/jama.2013.276187. Review.

PMID: 23982370 Similar articles

- Does This Patient Have Infectious Mononucleosis?: The Rational Clinical Examination
- 3. Systematic Review.

Ebell MH, Call M, Shinholser J, Gardner J.

JAMA. 2016 Apr 12;315(14):1502-9. doi: 10.1001/jama.2016.2111. Review.

PMID: 27115266 Similar articles

- Does This Patient With Chest Pain Have Acute Coronary Syndrome?: The Rational Clinical
- 4. **Examination** Systematic Review.

Fanaroff AC, Rymer JA, Goldstein SA, Simel DL, Newby LK.

JAMA. 2015 Nov 10;314(18):1955-65. doi: 10.1001/jama.2015.12735. Review.

PMID: 26547467 Similar articles

- Does This Patient Have Acute Mountain Sickness?: The Rational Clinical Examination
- Systematic Review.

Meier D, Collet TH, Locatelli I, Cornuz J, Kayser B, Simel DL, Sartori C.

JAMA. 2017 Nov 14;318(18):1810-1819. doi: 10.1001/jama.2017.16192. Review. Erratum in: <u>JAMA</u>. 2018 Jun

<u>19;319(23):2443</u>.

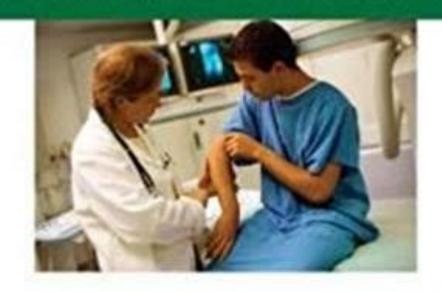
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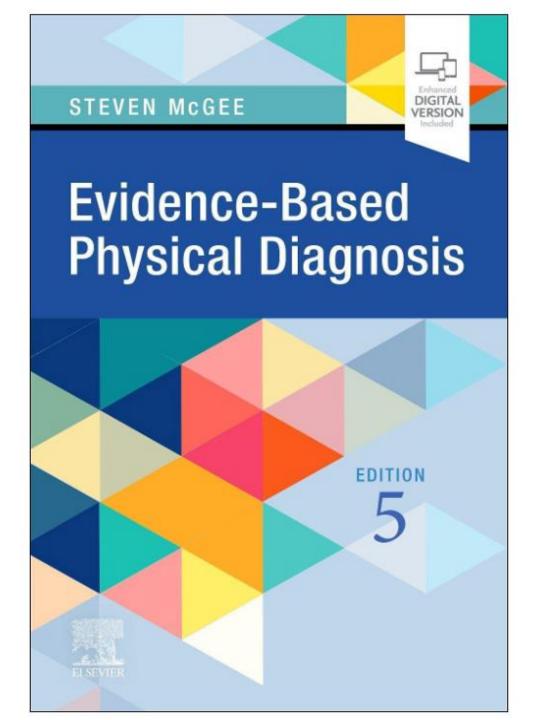
- The **rational clinical examination**. Does this adult patient have acute meningitis?
- 6. Attia J Hatala R Cook DJ Wong JG

UMINIMEVICENCE

THE RATIONAL CLINICAL EXAMINATION

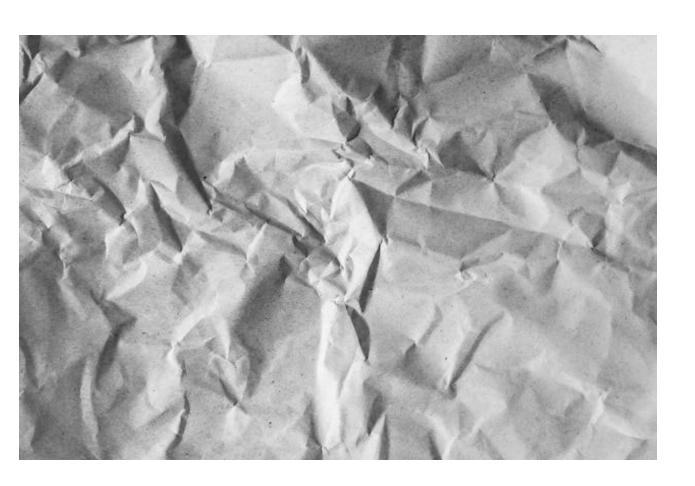
EVIDENCE-BASED CLINICAL DIAGNOSIS





Finding	Positive Likelihood Ratio (95% CI)	Negative Likelihood Ratio (95% CI)	Pre-Test Probability (Range)
EBM BOX 51.4 ASCITES			
Bulging flanks	1.9 (1.4, 2.6)	0.4 (0.2, 0.6)	24-33
Edema	3.8 (2.2, 6.6)	0.2 (0, 0.6)	24
Flank dullness	1.8 (0.9, 3.4)	0.3 (0.1, 0.7)	24-29
Shifting dullness	2.3 (1.5, 3.5)	0.4 (0.2, 0.6)	24-33
Fluid wave	5 (2.5, 9.9)	0.5 (0.3, 0.7)	24-33
CHAPTER 52 ABDOMINAL	PAIN AND TENDE	ERNESS	
Sonographic McBurney's point tenderness, detecting appendicitis	8.4 (2.9, 24.6)	0.1 (0.1, 0.3)	67
Sonographic Murphy's sign, detecting cholecystitis	9.9 (5.4, 18.3)	0.4 (0.3, 0.6)	21
Murphy's sign in patients with liver abscess, detecting bili- ary tract sepsis	2.8 (1.1, 6.9)	0.8 (0.6, 1)	40
Left lower quadrant tender- ness, detecting diverticulitis (surgery)	13.8 (6.3, 30)	0.8 (0.7, 0.9)	17
Left lower quadrant tender- ness, detecting diverticulitis (CT scan)	2.2 (1.7, 2.7)	0.4 (0.3, 0.5)	43
Loin tenderness, detecting ureterolithiasis	27.7 (10.7, 72)	0.9 (0.8, 0.9)	4
Renal tenderness, detecting ureterolithiasis	3.6 (3.1, 4.1)	0.2 (0.1, 0.3)	4
Microscopic hematuria, detect- ing ureterolithiasis	73.1 (41.7, 128)	0.3 (0.2, 0.4)	4
Positive abdominal wall tenderness test in chronic abdominal pain, predicting	7 (3.4, 14.3)	0.2 (0.1, 0.5)	35

Source: McGee, *Evidence-Based Physical Diagnosis*, 2018.





5. Patient concerns

- Defer longer conversations to later in day
- Defer certain sensitive issues to before/after
- Separation of "MD" and "patient" discussions, appropriate explanation

6. Not worthwhile?

- Focus on bedside teaching
- Be cognizant of time, situational awareness
- Enthusiasm
- Emphasize benefits in real-time
- "You can't not teach."

Barriers to Bedside Rounding	Potential Solutions
Time (yours, theirs)	Done well, shortens time Read beforehand, be intentional of what happens on rounds vs after Expectation setting, returning for longer conversations Pre-set limits on time, teaching points
Learner concerns: intimidation, autonomy	Huddle, debrief Safe learning environment, explicit acceptance that story may change Positive feedback, save negative feedback for later, correct with grace

Structure

confusing

Teacher concerns: knowledge,

Patients: too talkative, sensitive issues,

Not thought worthwhile
Sources: Gonzalo JGIM 2010, Ricotta JHM 2019, Lichstein&Atkinson Med Clin N America 2018,

Gonzalo Acad Med 2014, Ramani Med Teach 2003, Ramani Med Teach 2009, LaCombe Ann

communication deficiencies

Phased approach, demonstrate once?

"Don't just do something, stand there."

Tablets, computers in room, WOWs

return to preferred teaching topics

? defer sensitive issues to before/after

Enthusiasm, emphasize benefits in real time

"Can I add something?"

PE teaching resources

"You can't not teach."

Standardization: positions, roles, BEDSIDE2-R

Ask *how/why* rather than *what* questions, avoid factual questions

Prepare before: review topics/teaching points, develop/save scripts,

Separation of "MD" and "patient" discussions, appropriate explanation

Expectation setting, including patient (time, coming back)