

# Teaching With Our Learners' Questions

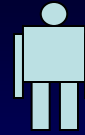
**W. Scott Richardson, MD**

**Mark C. Wilson, MD, MPH**

**Thomas G. McGinn, MD, MPH**

# Process of EBCP

Patient dilemma



Ask

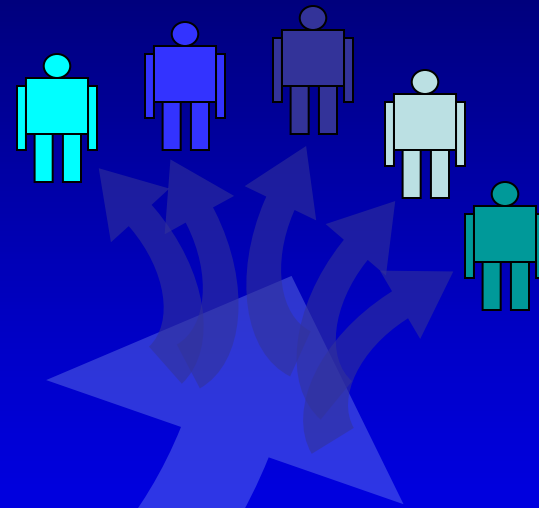
Acquire

Appraise

Apply

Act & Assess

Principles of evidence-based Clinical practice



*Hierarchy of evidence*

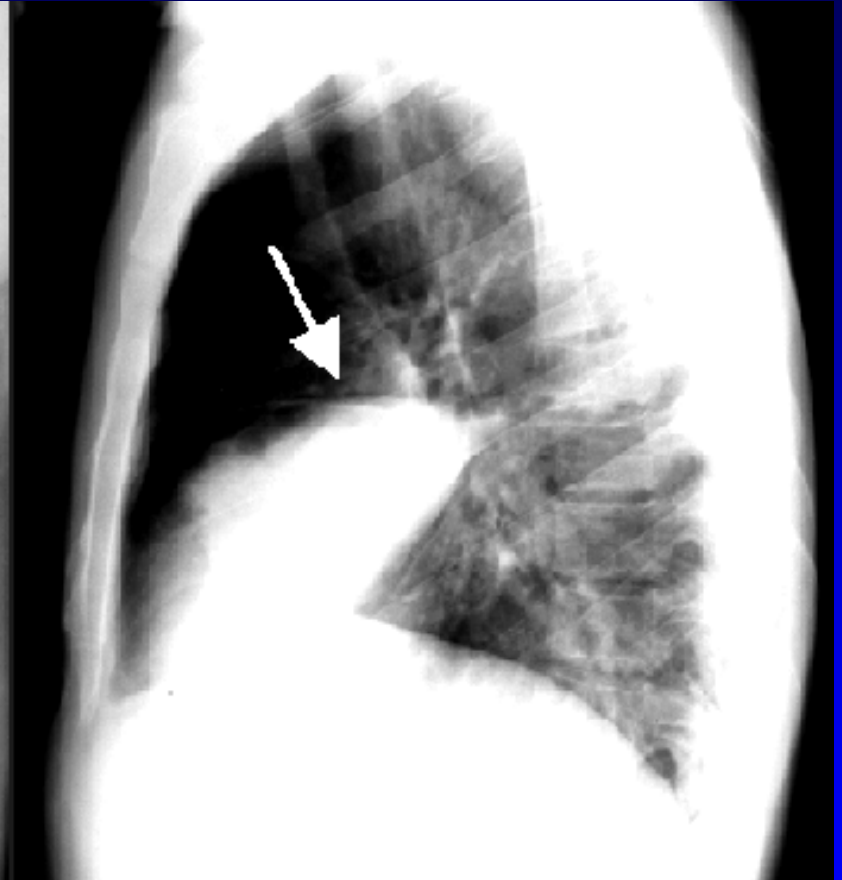
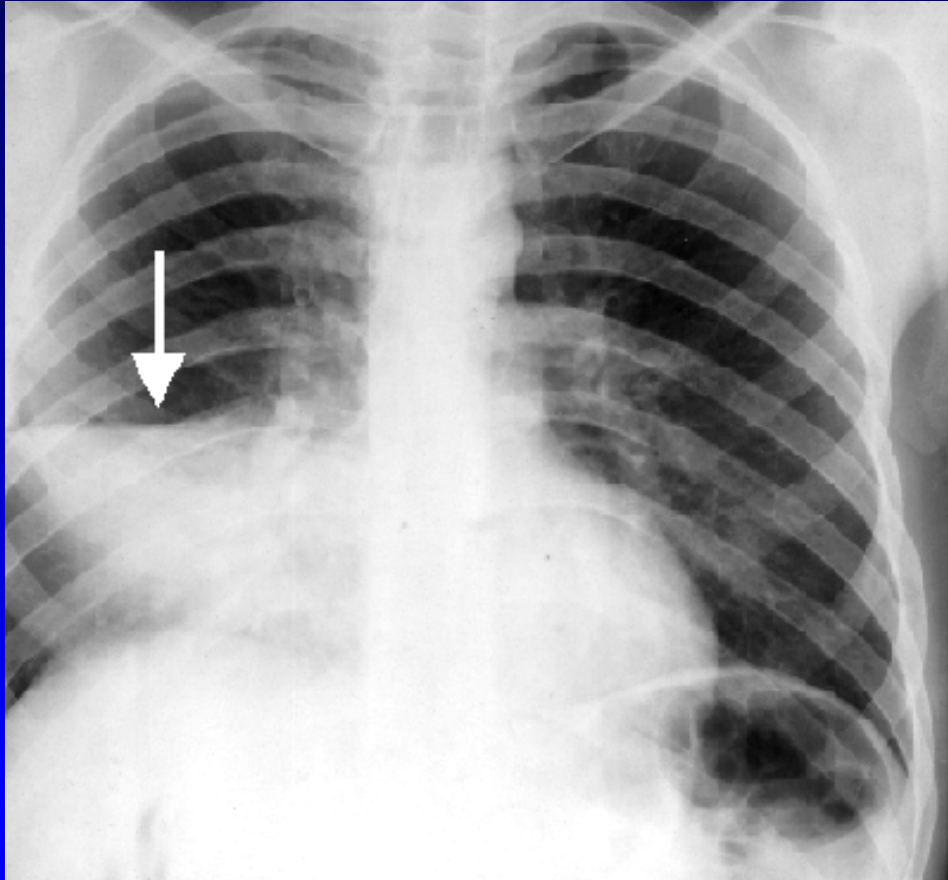
*Evidence alone does not decide – combine with other knowledge and values*

# They've just seen a patient:

- 67M, admitted for breathlessness
- 2 weeks: ↑ weight, progressive edema
- 3 days: fever, cough, purulent sputum
- Past: Rheumatoid arthritis, Felty's syndrome, heart failure
- Rx: Steroids, furosemide, metoprolol
- Exam: lung crackles, splenomegaly

**Now, listen carefully ...**

# Chest Radiograph



# 'Hoot Groups' Task



- Groups of 2 – 3
- Discuss what you noticed about this encounter
- Be ready to report to group  $\geq 1$  item
- Return in 2 minutes

# What you noticed ...

- Senior directing to think, yet didn't give junior time
- Force EBM on ACEI
- Friendly, yet unfocused
- Prompted learner
- Missed opportunity
- NNT not important
- Priorities?
- Learner excited about things, but teacher didn't exploit
- Teacher did fun parts alone
- Too many learning points
- Limited time
- Learner unfocused, yet may not know

**What was missing?**



# What was missing?

- Did the teacher identify the learner's questions?
- Did the teacher use the learner's questions in teaching?

**Isn't it all about me?**

# Why don't we use their Q?

- Don't know answers
- Embarrassment?
- Prestige, power from knowing things
- Learners expect me to pontificate
- Forgotten learners view – so basic
- Our own agenda dominates
- Don't want to lose control
- It's all about me
- Ain't no time
- Have to move quickly
- Scary, out of comfort zone

**FAQ: What if I don't know the answer to their questions?**

# Emotions in Not Knowing

<u>Ready to ...</u>	<u>Feeling</u>	<u>Behaviors</u>
<b>Flee</b>	<b>Fear</b>	<b>Leave</b> <b>Invisible</b>
<b>Fight</b>	<b>Anger</b>	<b>Disrupt</b> <b>Undermine</b>
<b>Cry for help</b>	<b>Distress</b>	<b>Stop trying</b> <b>Body stress</b>
<b>Withdraw</b>	<b>Sadness</b>	<b>Inattention</b> <b>Detachment</b>

**What can teachers do ... ?**

# What can teachers do ... ?

- Acknowledge emotions of not knowing
- **Minimize hidden curriculum**
- Help learners build adaptive responses
  - **Don't hide when you don't know**
  - **Use emotions to help pursue questions**
- Point out the 'positive' emotions of learning and knowing ...

# Emotions in Knowing

- **Satisfaction**: Self image of “knower” meets reality of “knew this”
- **Curiosity**: the wind in the sails
- **Joy**: knowing and/or learning brings benefits to others
- **“Zero gravity” or “flow”**: when learning engages the mind fully without self consciousness



**FAQ: Where do Q come from?**

# 10 Common Questions

- Clinical findings
- Harm/etiology
- Differential diagnosis
- Manifestations
- Diagnostic tests
- Prognosis
- Therapy
- Prevention
- Experience, Meaning
- Learning

(Not exhaustive or mutually exclusive)

# 'Background' Questions

- About the disorder, test, treatment, etc.
- **2 components:**
  - a. Root\* + Verb: **“What causes ...”**
  - b. Condition: **“... swine flu?”**
- \* Who, What, Where, When, Why, How
- 'RVC' = Root, Verb, Condition

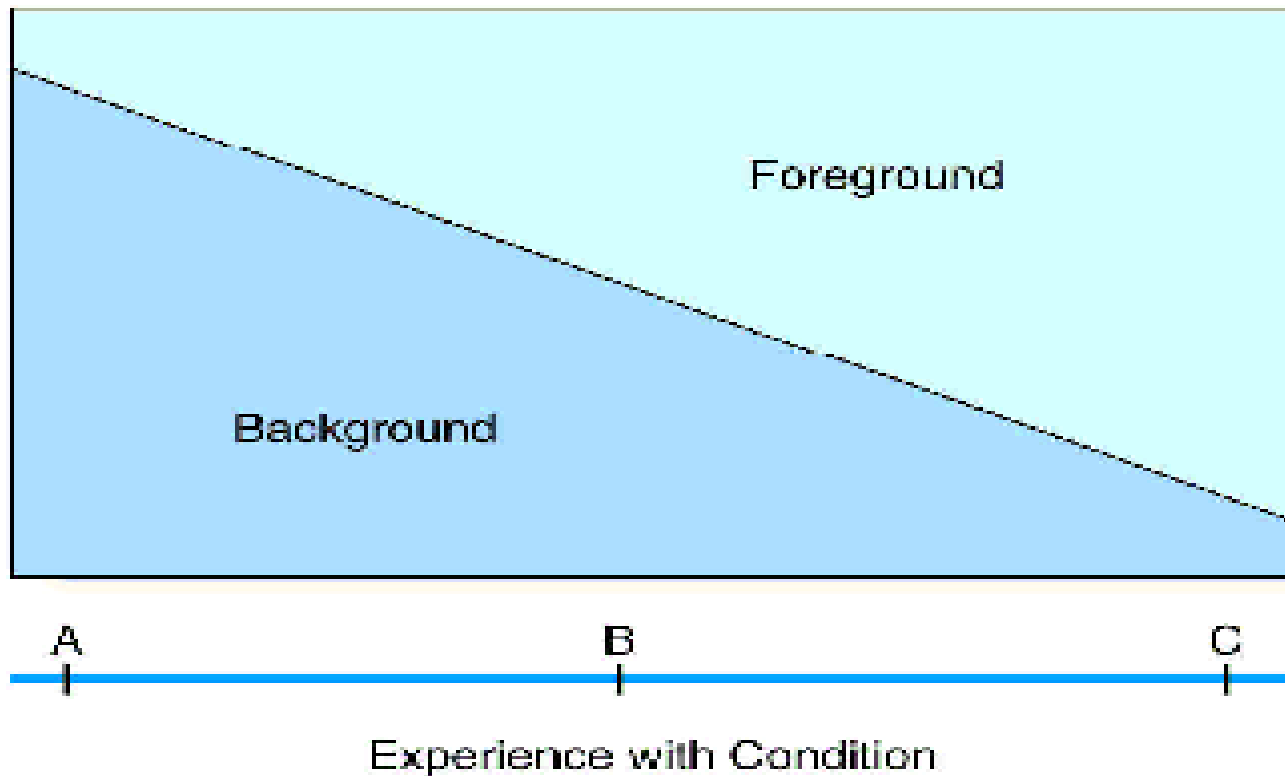
# 'Foreground' Questions

- About patient care decisions and actions
- 4 (or 3) components:
  - a. patient, problem, or population
  - b. intervention, exposure, or maneuver
  - c. comparison (if relevant)
  - d. clinical outcomes (including time horizon)

'PICO' = Patient, Intervention, Comparison,  
Outcomes

# Background & Foreground

Figure 1.1 Background and foreground questions.



**FAQ: How do I recognize Q?**

# Recognizing Questions

- Listen with both ears
- **Diagnose case and self/learner**
- Compare to inner model – how it should sound
- **Notice your/learner's cognitive dissonance & other responses**
- Use map to locate questions

**Now, listen carefully ...**



# 'Hoot Groups' Task

- Groups of 2 – 3
- Share questions you recognized
- Pick one – best to teach this learner
- Be ready to report to the group
- Return in 3 minutes



# Questions You Want to Teach

- How to present
- Patient's agenda
- Family's agenda
- Patient's need
- Learner's need
- Differential diagnosis of leg pain and swelling
- Selecting short list for differential
- Long term vs. short term
- Examine leg
- What you worried about
- Teaching where?
- Organize, prioritize,

# Selecting Questions

## Consider:

- What is illness?
- **What is role?**
- What are learning needs?
- **What are available resources?**

## Of these, select:

- Most urgent
- **Most interesting**
- Most feasible to answer
- **Most likely to recur**

# FAQ: How do I coach on Q?

- Try building up from ‘raw’ question to more complete anatomy (rather than tearing their efforts down)
- **Consider 2 stages:**
- “Sounds like you’re asking a question about ... (therapy, prognosis, etc.)”
- “What would be the ... (missing anatomy) you would want to know?”

# Teaching with Questions



- Recognize: **your learners' questions**
- Select: **which questions to pursue**
- Guide: **how to ask and answer**
- Assess: **how well & what to improve**

**FAQ: Why should I bother  
teaching with learners'  
questions?**

# FAQ: Why Bother? 1

- Respect learners
- Relevant to clinical needs
- Relevant to learning needs
- Improve comprehension
- Plan searches
- Recognize answers
- Awaken curiosity
- Have some fun!
- Any evidence?

# FAQ: Why Bother? 2

RCT: ↑ explicitness of questions

*Villaneuva et al BMC MI/DM 2001; 1: 4.*

RCT: ↑ frequency of searches

*Cabell et al JGIM 2001; 16: 838.*

Before-After Trial: ↑ precision of search

*Booth et al Bull MLA 2000; 88: 239.*

RCT: ↑ quality of search, evidence found

*Rosenberg J R Coll Phys L 1998; 32: 557.*



# **FAQ: “Got no time ...”**

- **Sorry, we don't have time to address this one ...**

# FAQ: “Got no time ...”

- Acknowledge real time limits
- Pick one thing to teach, anything, but **NOT everything**
- Get past misperception – time is tight no matter whose question it is
- Takes gumption ...
- Just do it!

# Your Questions about 'Q'?



# Thank You!

