Turning up the Tech for High Touch Teaching

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Conflict of Interest Disclosure

I have no interest or participation in the companies, organizations or tools presented in this presentation.



Technology Improves Learner Outcomes

- A. Yes, in some cases
- B. The evidence is inconclusive
- C. Who cares, learners show greater satisfaction with learning when technology is used well.



Resources and Settings



- Creative Commons
- MedEdPortal

Large Groups

- Audience
 Response
- Virtual Laboratories

Small Groups & Bedside

- Online Lessons
- Whiteboards at the Bedside



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Here are some recently added bits and pieces:





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From

internetsense





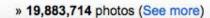
From Avariel

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William_Doyle



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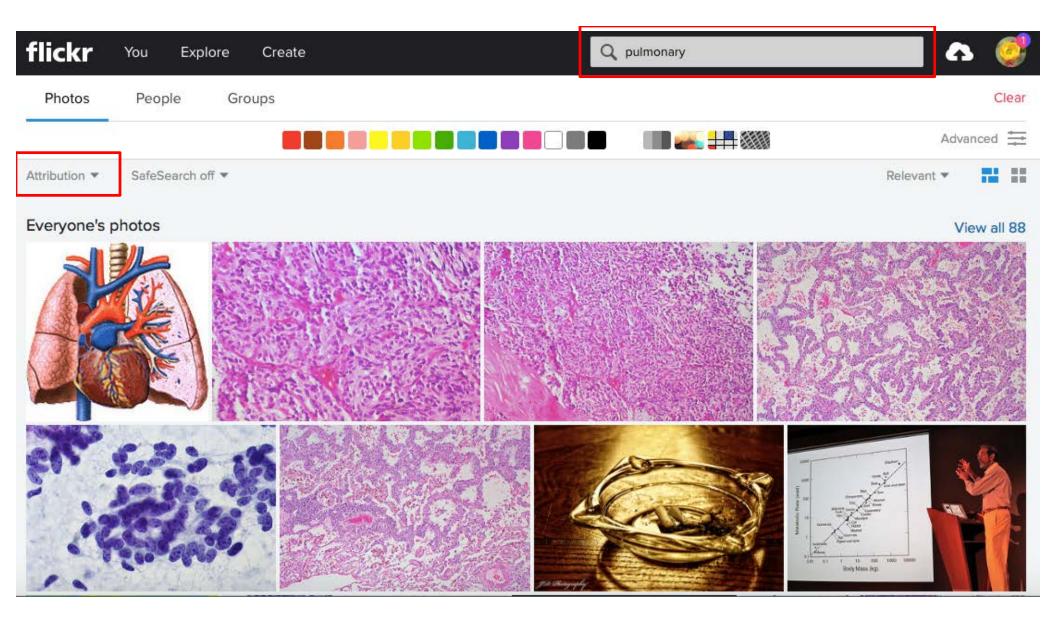
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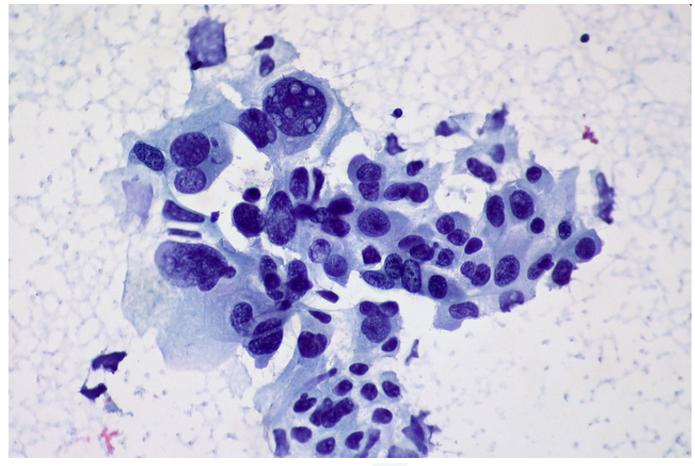
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perform only verbatim copies of your





Non-small Cell Carcinoma of the Lung





Ed Uthman at <u>https://hec.su/dyLj</u>

What is NOT a primary feature of malignancy?:

A. Variation in nuclear size and shape

- B. Irregularly distributed nuclear chromatin
- C. Small nucleoli





AAMC MedEdPortal

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Regarding MedEdPortal I have:

- A. Never Heard of MedEdPortal
- B. Searched MedEdPortal
- C. Used Materials from MedEdPortal
- D. Submitted to MedEdPortal



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What will you find?

MedEdPORTAL Publications		ICollaborative	CE Directory			
Browse Publications	Submit	Peer Review	Partner	About	Pulmonary Medicine	Q

A search for PULMONARY MEDICINE yields 54 results organized by ACGME competency, instructional method, assessment type, learner audience, format, and more.



Example: Pleural Space Animation

Filter: Pulmonary Medicine | Professional Post-Graduate | Animation

The Pleural Space

Format: Animation Primary Author: Ricardo Gonzalez-Rothi, MD Published: April 24, 2014 Institution: Florida State University College of

Medicine



Understanding the pleural space and the various events leading to the development of pathologic accumulation of pleural fluid (pleural effusion) can be daunting. The didactics involved in conveying the imaging, the lab values in assessing pleural effusions often overwhelm the learner, leaving them wanting for a conceptual approach to pleural effusion. We have developed a concise animation that summarizes in conversational...

Citation

Gonzalez-Rothi R, Slade J. The Pleural Space. MedEdPORTAL Publications; 2014. Available from: https://www.mededportal.org/publication/9783





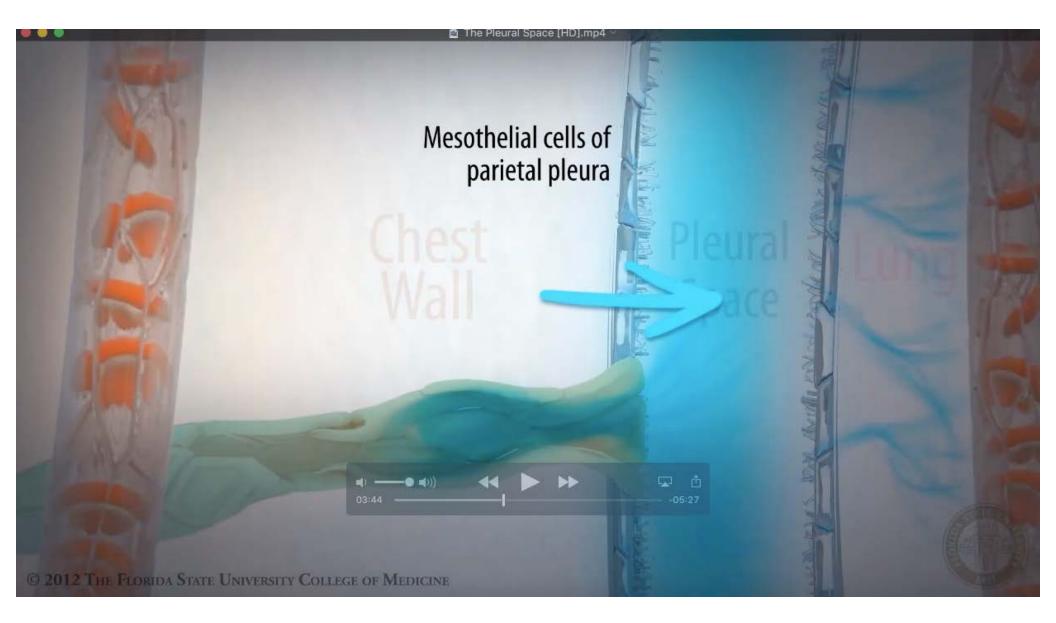
THE FLORIDA STATE UNIVERSITY COLLEGE OF MEDICINE

The Pleural Space





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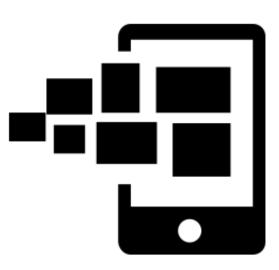
Audience Response

USED TO CREATE INTERACTIVITY BETWEEN A PRESENTER AND HIS/HER AUDIENCE. **GO:**MEDED.UCSF.EDU/TEE/POLL-EVERYWHERE



Using Audience Response Effectively

- Encourage discussion or debate by having multiple correct answers
- Access gaps in your learners' knowledge and build understanding
- Refresh what they've learned
- Highlight subtleties or dispel myths and misconceptions
- Crowd source information

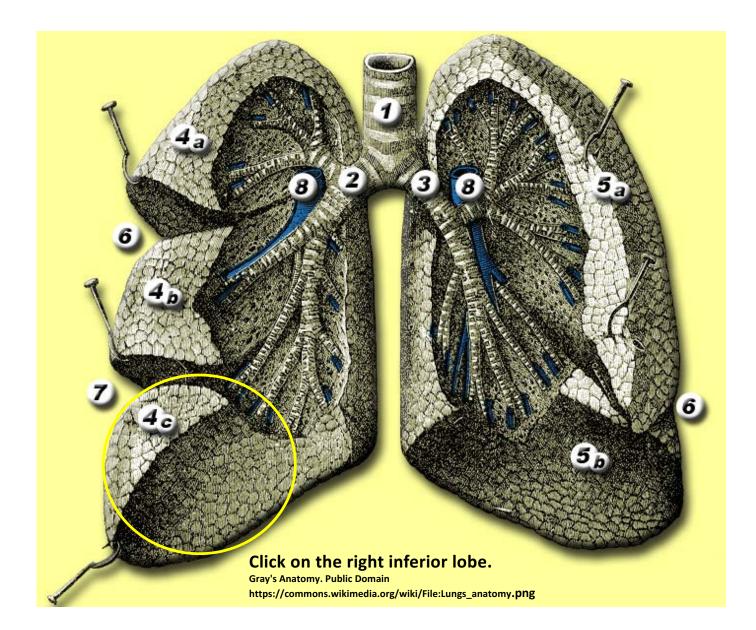












Virtual Laboratory

USED TO SIMULATE A LABORATORY EXPERIENCE WHEN LEARNERS DON'T HAVE DIRECT ACCESS OR AS AN ORIENTATION BEFORE THE PHYSICAL EXPERIENCE.







Organs: Pulmonary

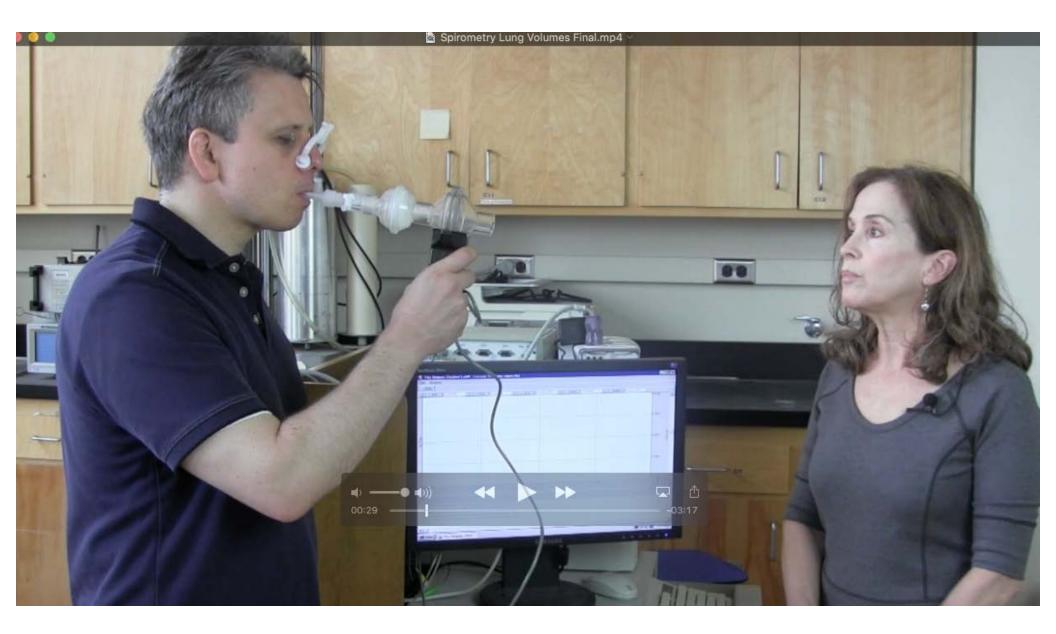
Spirometry: Lung Volumes





San Francisco

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Inserting a virtual lab into my didactic:

- A. Links the skill to the knowledge
- B. Saves time preparing the lab
- C. Looks cool
- D. yep, all that stuff above.



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Online Lesson

A SHORT VIDEO LESSON USED TO TEACH 1 OR 2 LEARNING OBJECTIVES. OFTEN USED TO CONVERT (FLIP) CLASSROOM TIME TO MORE HIGH-TOUCH TEACHING ACTIVITIES. **GO:**MEDED.UCSF.EDU/TEE/SCREENLESSON





Organs: Pulmonary Restrictive Lung Disease

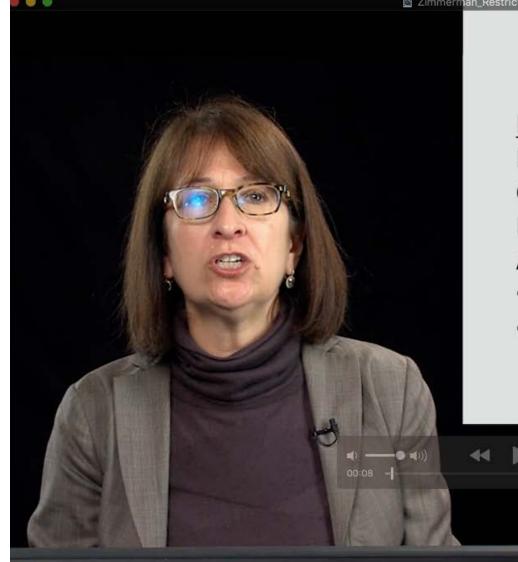
Part V: Idiopathic Pulmonary Fibrosis (IPF)

Leslie Zimmerman, MD



University of California San Francisco

advancing health worldwide"



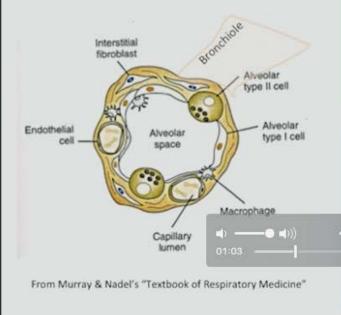
Idiopathic Pulmonary Fibrosis (IPF): Presentation

Limited to lung Increasing dyspnea Clubbing more common than some other ILDs

- As progresses
- Hypoxemia
- Pulmonary HTN

Idiopathic Pulmonary Fibrosis (IPF): Pathogenesis

Caused by injury or inflammation of the <u>alveolar wall</u> or <u>smallest</u> <u>airways</u>, which <u>can</u> lead to fibrosis



Pathological term: Usual Interstitial Pneumonia (UIP)

Key clinical features:

- Limited to the lung (not "systemic")
- Older adults (60 year +); male predominance
- Typically former (or current) smokers
- Relentlessly progressive with 5-10 year life span post diagnosis

Pathogenesis:

Unclear: Abnormal repair to "micro-injury" of alveolar epithelium and basement

membrane?

- Fibroblasts increase in humber, change to myofibroblasts and secrete more collagen
- Aggregates called "fibroblastic foci"

Whiteboard Collaboration at the Bedside

- Great for teaching scripts
- Annotate, objects, graphs, and text.
- Load select teaching images from a "drop-box" library
- Share drawings, image, pdf with learners
- Share and annotate important articles





On-Premise FAQ Features Screenshots Contact

Online Whiteboard Cloud based Collaboration

Collaborative Whiteboard with built-in voice conferencing.



PDF Collaboration Real-time Interactive

Collaborative annotation and e-signatures on PDF docs. Annotate, e-sign and seal.



Presentation/Screen sharing from iPad to browser for boardrooms and classrooms.

Enhanced Security

256 bits encryption

SSL connectivities, password protected, encrypted storage.



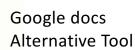


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Snapshots sharing

All on-demand

Snapshots, storing, retrieval and export to Web/Facebook/Twitter/Evernote.



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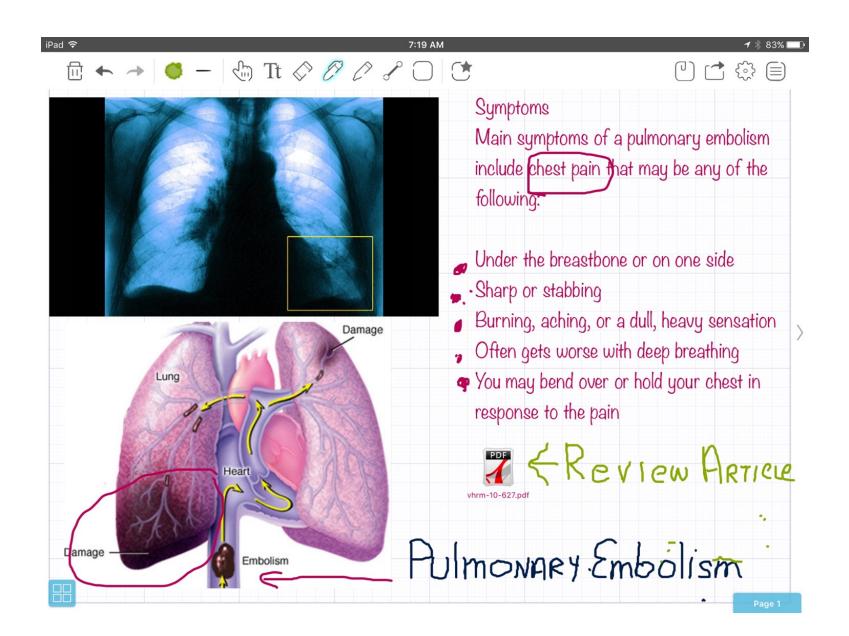
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Vascular Health and Risk Management

open Access Full Text Article

REVIE

Dovepr

Direct oral anticoagulants in the treatment of venous thromboembolism, with a focus on patients with pulmonary embolism: an evidence-based review

Antonio Gómez-Outes¹ M^a Luisa Suárez-Gea¹ Ramón Lecumberri² Ana Isabel Terleira-Fernández^{3,4} Emilio Vargas-Castrillón^{3,4}

¹Division of Pharmacology and Clinical Evaluation, Medicines for Human Use, Spanish Agency for Medicines and Medical Devices (AEMPS), Madrid, Spain; ²Department of Hematology, University Clinic of Navarra, Pamplona, Spain; ³Department of Clinical Pharmacology, Hospital **Abstract:** Pulmonary embolism (PE) is a relatively common cardiovascular emergency. PE and deep vein thrombosis (DVT) are considered expressions of the same disease, termed as venous thromboembolism (VTE). In the present review, we describe and meta-analyze the efficacy and safety data available with the direct oral anticoagulants (DOAC; dabigatran, rivaroxaban, apixaban, edoxaban) in clinical trials testing these new compounds in the acute/long-term and extended therapy of VTE, providing subgroup analyses in patients with index PE. We analyzed ten studies in 35,019 randomized patients. A total of 14,364 patients (41%) had index PE. In the acute/long-term treatment of VTE, the DOAC showed comparable efficacy in preventing recurrent VTE to standard treatment in patients with index PE (risk ratio [RR]: 0.88; 95% confidence interval [CI]: 0.70–1.11) and index DVT (RR: 0.93; 95% CI: 0.75–1.16) (*P* for subgroup differences =0.76). VTE recurrence depending on PE anatomical extension and presence/absence of right ventricular dysfunction was only reported in two trials, with results being consistent with those obtained in the overall study populations. In the single

Questions?

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