

Activity Title: ETCO2 Made EZ

Speaker: Chuck Margarites

1. Identify the different portions of ETCO2 Waveforms and what they mean
  - a. Baseline
    - i. Basic Principles
    - ii. Phase 1
      1. Appropriate zero
    - iii. Phase 2
      1. Immediate gas change
      2. No Aveolar Emptying
    - iv. Phase 3
      1. Aveolar Emptying
    - v. Phase 4
      1. Peak Expiration
    - vi. Phase 5
      1. Inspiration
2. Draw a Correlation between waveform and physiologic state of the patient
  - a. Waveform
    - i. ABGs
    - ii. Conditions that alter the waveform
      1. Changes from baseline
    - iii. SPO2
    - iv. "Why is it unreliable?"
    - v. How do I use the numbers?
    - vi. How do I use the waves
3. Putting it all together
  - a. ETCO2 in Respiratory Conditions
    - i. COPD
    - ii. Intubated vs. non-intubated
  - b. ETCO2 in Metabolic Conditions
    - i. Metabolic Acidosis
    - ii. Crush Syndrome
    - iii. Cardiac Arrest