



1903 Marquette Ave, Suite J 102, Muskegon, MI 49442

Lesson Plan: Capnography Basics

Topic: Capnography Basics

Presenter: Scott Wilkinson, EMT-P I/C

Location: <https://wmrmcc.thinkific.com/courses/capnography-basics>

Credit Category: Airway

License Level: EMT, SPEC, MEDIC

Credits: 0.5

Format: 0.5 hour lecture

Objectives: Upon completion of this CE, the participants will be able to:

Cognitive

1. Understand how capnography works and what it tells about a patient.
2. Identify the four phases of capnogram waveform.
3. Identify waveform patterns and what those waveforms indicate.
4. Identify the acronym DOPE and how it applies to the ventilator-dependent patient.

Outline for Presentation:

1. Introductions and Overview of Course
2. Describe photo detector used to measure amount of carbon dioxide in samples of gas.
3. Identify normal ranges for healthy patients ETCO₂.
4. Describe phase I through phase IV/0 and identify what is represented in the capnogram.
5. Describe hypocapnia and hypercapnia.
6. Identify alpha and beta angles in capnogram and what they represent.
7. Identify alveolar plateau and how that changes with bronchospasm.
8. Identify capnography use versus pulse oximetry.
9. Identify Displacement, Obstruction, Pneumothorax and Equipment to correct problems with the ventilator dependent patient.
10. Identify different waveforms that present with specific problems.
11. Summary and Questions

Student Evaluation Method: Students must complete a 20 question quiz and achieve an 80% or better grade to complete the course.

Evaluation of Presentation: Continuing Education Program Sponsor Evaluation Form will be filled out by all participants.