

# Clinical Application and Interpretation of Lab Values and ABGs

Contact Hours: 6.75 CE



## Introduction

Lab values....lots of number to look at and yes, they do all make sense when you know what to look for. Using a physiologic approach, you will understand which lab values go together and why the various combinations exist. Expected clinical manifestations and treatment modalities are also included as well as monitoring parameters to know when conditions are improving.

Considerations in the elderly population are also included along with some interfering factors affecting valid lab results.

## Objectives

1. Identify the lab values, clinical manifestations, and treatment associated with electrolyte imbalances.
2. Differentiate between the various renal disorders and the lab values associated with them.
3. Identify the abnormal lab values seen in patients with inflammatory, infectious, and cardiovascular disorders.
4. Demonstrate an understanding of the lab abnormalities which are diagnostic in patients with disorders of the hematologic system.
5. Compare the lab values seen in dysfunction of the gastrointestinal tract and those associated with evaluation of nutritional status.
6. Describe the lab values used in the evaluation of patients with endocrine disorders and cancer.
7. Identify important aspects of acid-base physiology.
8. Differentiate causes, clinical manifestations, lab values, and treatment modalities between the various acid-base abnormalities.
9. Demonstrate the ability to interpret sample ABG problems and case studies.

## *Recent seminar participants had this to say about “Clinical Application and Interpretation of Lab Values and ABGs”*



*“The program has been very educational and fun. It will help me be more knowledgeable in my every day practice and care of patients and in conversing with physicians.”*

*“Excellent instructor who was very knowledgeable and really brought everything together to be best utilized in the clinical setting.”*

*“I will never look at values the same way again! Love the systematic way of looking at lab values, putting them together in groups and correlating disease conditions with the abnormalities.”*

*“I loved all the helpful ways to remember lab values and the pneumonics that were used. The correlations are especially beneficial in looking at a patient’s initial diagnosis and then figuring out what else is going to be affected.”*

*“Initially, I was a skeptical about a full day of lab values but this pulled everything together, was clinically based, and very interesting. Excellent instructor who brought everything to an understandable level!*

*“I really needed this refresher. The best part of the class was the clinical interpretation and lab values mixed in. The ABG section was also especially good. Thanks!”*

*“This is a very good program with lots of great information! The detailed outline will serve as a great reference to go back to. Thanks for simplifying so many labs including ABGs, anion gap and lactate levels!”*



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President and Principle Consultant

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