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Type Registration	Definition	Price
Group rate	Register 20 or more	\$40
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Course # _____ Course Title _____

Webinar Date _____

Name _____ Discipline _____

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Intermediate Level
0.2 ASHA CEUs

WEBINAR

#7165 Evidence Based Lab Value Interpretation for the Rehabilitation Professional

Instructor: Kristin Lefebvre, PT, PhD

**Audience: Physical Therapists, Occupational
Therapists, Assistants, Athletic Trainers,
Speech Therapists and related Healthcare
professionals.**

Delivery Options:
Live Webinar or
Self-Study Options

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SUMMARY: This course provides a detailed look at evidence based lab values interpretation and its application in the management of the medically complex patients in the rehabilitative environment. Participants learn how to make safe and appropriate rehabilitative treatment decisions based on available evidence related to the patient's laboratory values. The implications of acute and chronic lab values, lab values trends and altering therapeutic interventions based on patient data (including pertinent signs and symptoms) improves practice of PT, OT and speech therapy. This will also include a review of the literature on safety with regard to exercise guidelines and their effect on our clinical decision making. At the end of the session, the practitioner should be able to determine the difference between arterial and venous blood draws and how to interpret the data provided by these blood draws. Arterial blood gasses will be reviewed to discuss their clinical meaning and their implications when interacting with a ventilated patient or a patient with respiratory insufficiency. In addition, covering of cellular lab values will include a review of normal and reasons for abnormal values related to platelets, RBC, WBC.

This course will also include an overview of electrolytes and their implications to the PT, OT or speech therapy practitioner. Mg⁺, H⁺, HCO₃⁻, K⁺, Na⁺, Ca will be covered and discussion will include information on the significance of hyperkalemia, hypokalemia, hyponatremia, and Ph in detail. Implications of cardiac and liver enzymes, and glucose will be covered. Finally, lab value information and decision making related to the therapeutic medications used to treat DVT/VTE will be reviewed and discussed as they related to our clinical decision making. Course instruction methods include lecture, demonstration, case studies and question/answers. (Intermediate Level)

PRESENTER: Kristin Lefebvre, PT, PhD Dr. Kristin Lefebvre is the Vice President for Academic Affairs and Dean of Graduate Faculty at the University of Jamestown in Fargo, ND. Dr. Lefebvre is a trained expert in Foundations of Clinical Research through the Harvard University School of Medicine. Dr. Lefebvre is a physical therapist with ABPTS board certification in cardiovascular and pulmonary physical therapy and over 20 years of teaching experience in Doctor of Physical Therapy (DPT) programs. She is a current Associate Editor for the Cardiovascular and Pulmonary Journal. She has also served as the Nominating Committee Chair and Secretary for the Academy in the past. Dr. Lefebvre completed her master's in physical therapy at the University of Delaware in 2000 and a PhD in Health Policy at the University of the Sciences in Philadelphia in May 2008. Her doctoral thesis examined the AHRQ NIS Inpatient Data Set for racial differences in level of amputation among minorities with vascular disease. Her research interests include evaluation of health disparities in primary care practice with particular interest in the cardiovascular and pulmonary patient, the provision of preventative care among patients with cardiovascular diseases, use of outcome measures in cardiovascular and pulmonary physical therapy and curricular and educational design and evaluation of interprofessional high fidelity simulation experiences. She has multiple national and international disseminations including three book chapters and 25 peer reviewed articles in high impact journals. Financial - Received a teaching honorarium from Motivations, Inc. Nonfinancial - No relevant nonfinancial relationship exists. *Financial*—Received a teaching honorarium from Motivations Inc. *Nonfinancial*—No relevant nonfinancial relationship exists.

OBJECTIVES: Upon completion of this course, the participant will be able to:

- 1) Identify four different cellular components, electrolytes, and enzymes that can be found in the blood and relate them to their associated pathologies.
- 2) Describe the clinical implications of lab values as they trend upwards and downwards.
- 3) Identify the clinical implications for safety and treatment of three different lab ranges for cellular, electrolyte and enzyme lab values.
- 4) Given a patient case, the participant will be able to accurately describe if a patient's lab value reading would make it unsafe for rehabilitation intervention to occur.
- 5) Identify lab values that are particularly pertinent to the medically complex patient, including correct identification of reference ranges for CO₂, HCO₃ and Ph with regards to metabolic/respiratory acidosis/alkalosis.

FORMAT: This is a 3-contact hour course equivalent to 3 CEU's or 0.3 CEUs offered as a live webinar or self-study. Instructors present the live course content via an internet website displaying real time power points. Learners will receive a course instruction link. Instructors lecture through livestreaming internet on your computer. Questions may be asked during the webinar using the chat feature or the "raise hand" feature for live discussion.

PT CEU's: Motivations Inc is an approved provider of Physical Therapy continuing education by these professional bodies: Texas Chapter of the American Physical Therapy Association, ILDPR- Illinois Department of Professional Regulation Approved PT CE Sponsor, NY- New York State Education Department, Office of the Professions. Physical Therapy Board of California. Many state boards recognize these for pre-approval purposes. Contact us if you would like verification a state.



OT CEU's: Motivations Inc. is an AOTA Approved Provider of professional development. Provider #10929. This Live and Distance Learning—Interactive and Distance Learning—Independent and Blended/Hybrid activity is offered at 0.3 CEUs **Intermediate-Level**, Occupational Therapy Service Delivery, Foundational Knowledge, not the usual intervention. The assignment of AOTA CEU's does not imply endorsement of specific course content, products or clinical procedures.

ATC CEU's: Motivations, Inc. (BOC AP #P2549) is approved by the Board of Certification, Inc. to provide continuing education to Athletic Trainers. This program is eligible for a maximum of 3 Category A hours/CEU's.

SLP CEU's: This course is offered for 0.2 ASHA CEUs (Intermediate level, Professional area).

For course dates, times and registration, please visit: www.motivationsceu.com

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AGENDA ON NEXT PAGE...

AGENDA:

Pre-Study: 30 Minutes Plan to read the course materials, references and review the post test before the start time. Please be prepared to share patient case study and related question during the discussion time.

- 15 mins: Review of the role of lab values
- 15 mins: What is the difference between arterial and venous blood draws
- 15 mins: Cellular lab values: Platelets, RBC, WBC/ Electrolytes/ Mg⁺, H⁺, HCO₃⁻, K⁺, Na⁺
- 15 mins: INR, PTT, PT, cardiac enzymes, BNP
- 15 mins: Typical medical panels and what they tell us
- 15 mins: CBC, BMP, liver panel/ Exercise and lab values
- 15 mins: Implications of lab values to the medically complex patient - Case Studies
- 15 mins: Questions

Post-test: 30 Minutes Research, identify, and submit your post test question answers on the online form. This is an open book test you can take multiple times if needed to obtain the 70% score. Complete the evaluation feedback survey and needs assessment. Obtain, review and save your auto-emailed certificate for your files.