Virtual Education Event

Impact of Hemolysis on Patient Management in Point-of-Care Whole Blood Samples

Hemolysis is the #1 source of preanalytical error and can impact potassium results—potentially leading to inappropriate or delayed patient treatment, unnecessary sample recollection, inefficient staff/nursing time and high costs.[1–7] Hemolysis detection has not been available for blood gas testing until now.

Our speakers will discuss hemolysis prevalence and impact throughout the hospital, and optimizing patient care and safety with integrated hemolysis detection at the point of care. Q&A to follow.

Date

10.02.2025

Time

16.00 – 17.00

Speakers

Gian Luca Salvagno, MD, PhD
Full Professor of Clinical Biochemistry, Department of Neurological, Biomedical and Movement Sciences, University of Verona
Director, Clinical Laboratory, Pederzoli-Peschiera Hospital
Verona, Italy

Christian Neff, MD
Adjunct Assistant Professor, Dept of Emergency Medicine, University of Utah
VP-CMO, Utah Emergency Physicians,
Attending Physician, Intermountain Medical Center,
Salt Lake City, UT, US

Marc Hoppenz, MD
Head of Division, Neonatology/Pediatric Intensive Care,
Department of Pediatrics, Children's Hospital
Cologne, Germany

Danyel Tacker, PhD, D(ABCC), FAACC
Clinical Professor of Pathology, West Virginia University
Associate Medical Director of Clinical Laboratories
West Virginia University Hospital, Morgantown, WV, US

This webinar will be conducted in English. To accommodate languages around the world, this program is offered with subtitles in multiple languages.

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Credits

This course is accredited by multiple organizations, based on geography. Information regarding accreditation for your location will be provided during the event.

Objectives

- Identify data and insights on the impact of hemolysis in whole blood potassium testing
- Outline the specific patient care impact of hemolysis in emergency and neonatal care
- Discuss the experience of adopting a new hemolysis detection technology and practice, to improve quality of care

1. Lippi G, von Meyer A, Cadamuro J, Simundic A-M. Blood sample quality. *Diagnosis.* 2018;6(1):25–31. doi:10.1515/dx-2018-0018. 2. O'Hara M, Wheatley EG, Kazmierczak SC. The impact of undetected in vitro hemolysis or sample contamination on patient care and outcomes in point-of-care testing: a retrospective study. *J Appl Lab Med.* 2020;5(2):332–341. doi:10.1093/jalm/jfz020. 3. O'Hara M, Wheatley EG, Kazmierczak SC. The impact of undetected in vitro hemolysis or sample contamination on patient care and outcomes in point-of-care testing: a retrospective study. *J Appl Lab Med.* 2020;5(2):332-341. doi:10.1093/jalm/jfz020. 4. Phelan MP, Ramos C, Walker LE, et al. The hidden cost of hemolyzed blood samples in the emergency department. *J Appl Lab Med.* 2021;6(6):1607–1610. doi:10.1093/jalm/jfab035. 5. Phelan MP, Hustey FM, Good DM, Reineks EZ. Seeing red: blood sample hemolysis is associated with prolonged emergency department throughput. *J Appl Lab Med.* 2020;5(4):732–737. doi:10.1093/jalm/jfaa073. 6. Wilson M, Adelman S, Maitre JB, et al. Accuracy of hemolyzed potassium levels in the emergency department. *West J Emerg Med.* 2020;21(6):272–275. doi:10.5811/westjem.2020.8.46812. 7. Milutinović D, Andrijević I, Ličina M, Andrijević L. Confidence level in venipuncture and knowledge on causes of in vitro hemolysis among healthcare professionals. *Biochem Med.* 2015;25(3):401–409. doi:10.11613/BM.2015.040.

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