



**Loredana Liliana
Hurjui**

Grigore T. Popa University of
Medicine and Pharmacy Iasi,
Romania

Biography

Loredana Liliana Hurjui, is Associate Professor, MD, PhD in the Department of Morpho functional Sciences II, Grigore T. Popa University of Medicine and Pharmacy in Iasi, Romania. At the same time, she is a Medicine Laboratory Physician at the Sf. Spiridon Hospital, Iasi, Romania. Since 2017, she has been the coordinator of EMC-credited postgraduate courses for specialists in the clinic and medical analysis laboratories. She has over 120 papers in Web of Science totaling over 1000 citations.

From Sample to Clinical Decision: Bridging Laboratory Medicine and Nursing Practice

Abstract:

Ensuring high-quality sample collection and minimizing pre-analytical errors are essential foundations of reliable laboratory diagnostics. However, accurate results alone do not guarantee improved patient outcomes unless they are effectively interpreted and integrated into clinical care.

Building on the principles of pre-analytical quality, this presentation explores the next critical step: transforming laboratory data into informed clinical decisions. It highlights the evolving role of nurses beyond sample collection, emphasizing their contribution to the interpretation, communication, and application of diagnostic information within multidisciplinary teams. The discussion focuses on how nurses support clinical decision-making through diagnostic awareness, point-of-care testing, and patient-centered monitoring. Particular attention is given to bridging the gap between laboratory results and bedside care, ensuring that diagnostic information is timely, relevant, and actionable.

Key challenges—including variability in practice, communication barriers, and limited integration of diagnostic pathways—are examined. Practical strategies are proposed to address these issues, such as targeted education in diagnostic reasoning, strengthened interdisciplinary collaboration, and improved use of laboratory data in routine care. Moving from sample quality to clinical decision-making represents a crucial shift in modern healthcare. Empowering nurses to actively engage in this process is essential for enhancing patient safety, improving clinical outcomes, and advancing evidence-based practice.

Audience Take away notes: Recognize the expanding role of nurses beyond specimen collection, including their contribution to the interpretation, communication, and clinical application of laboratory data. Learn how effective integration of laboratory results into bedside care supports timely clinical decision-making and improved patient outcomes.

Explore the value of diagnostic awareness and point-of-care testing in enhancing patient monitoring and evidence-based nursing practice. Identify common barriers affecting the use of laboratory information in clinical settings, including: variability in practice, communication gaps, limited interdisciplinary integration.

Discover practical strategies to strengthen collaboration between laboratory professionals, nurses, and clinicians through: interdisciplinary teamwork, diagnostic reasoning education, improved use of laboratory data in routine care.