

# 2<sup>nd</sup> International Conference on Nursing & Healthcare

November 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA



## M Gail Stotler

Vein Access Technologies, USA

### The next generation of vein access: 21cVA and 21POCT

**Session Description:** The next generation in effective vein access will provide S.T.E.M. analyzed, evidence-based techniques in locating, dilating, grading and accessing veins that significantly reduce pain, vein damage and bruising. Expert faculty will outline the unique procedures for IV placement, blood draws, injections and other vein access activities that eliminate complications and provide proven results that are predictable, repeatable and successful.

#### Learning Objective 1

Identify the advanced anatomy and physiology of the vein and the impact on effective vein access. Define a healthy vein vs. unhealthy vein to utilize a new palpitation technique to discern a preferred access location. Explain the 21<sup>st</sup> Century method for collecting blood and infusing biologics: the next generation. Translation of Gray's Anatomy, Starling's Venous Physiology (Starling's Equilibrium), Newton's Gravity Physics, Leonardo da Vinci's Friction Physics, and Gaussian's Probability.

#### Learning Objective 2

Address the appropriate dilation of a vein, without the use of a tourniquet, that applies the latest evidence-based skills, the 21Cva method. Discuss the future of research-to-practice techniques and accompanying biomedical advances in efficient vein access.

#### Learning Objective 3

Explain an innovative process of grading a vein that reduces vein wall rupture upon venipuncture, infiltration and the multiple stick event. Demonstrate the new 21cVA palpate to locate technique. In conclusion, we will discuss the 21POC (21st century point-of-care) and the new infant/heel stick and identify changes to the current technique that can modify the outcome of the lab results as well as potential tendon damage to the heel.

### Biography

M. Gail Stotler, BA, BSN, RN, Vein Access Technologist. *Founder of the 21cVA, S.T.E.M Analyzed, Vein Access Technology.* Bachelors in Biology and Minor in Chemistry, 1976, St. Louis University Bachelors in Nursing (BSN) 1984, St. Louis University Masters hours in Anatomy, St. Louis University Masters hours in Nursing, SIU Edwardsville Masters hours in Biology, SIU Edwardsville Principal and founder of The Nurses' Station and Vein Access Technologies, both organizations having received national and international recognition for skill advancement. Over 30 years of clinical experience and vein access experience in blood draw, IV, and injection of contrast. Over 20 years of teaching experience at all levels of professionals in the healthcare field. Author of the seven book series "The Science Behind the Sill of Vein Access", and is active in research in the field of vein access. A recognized expert speaker and educator on the advanced vein access skills to include C.E.I.I. (Continuing Education Institute of Illinois). Gail's vein access techniques have been recognized by the American Society for Clinical Pathology and the World Association of Society of Pathology and Laboratory Medicine. Her abstract, A Scientific Explanation for Why There are So Many IV, Blood Draw and Injection of Contrast Failures, received an invitation to the World Congress meeting in Las Vegas.

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