



The Four Pillars of POCUS PLUS, LLC (formerly VEIN, LLC)

- 🔴 Education
- 🔴 Smartphone App
- 🔴 POCUS PLUS, LLC “Sure-Stick” Vascular Simulator
- 🔴 DLS 360 (*Direct Line-of-Sight, Single-Hand Use Device for Handheld Portable Ultrasound*)

POCUS PLUS, LLC is setting The New Standard in Vascular Access.

Historically, clinicians have been self-taught in vascular access by observing others. This form of “on the job” training has often perpetuated bad habits and can cause anxiety for the practitioners as well as patients. The current “Reactive Vascular Access Model” requires the clinician to simply guess, according to known normal anatomy and palpation, where the veins “should be” and then blindly attempt to acquire vascular access without regard for the patient’s comorbidities or expected treatment regime.

POCUS PLUS, LLC’s comprehensive vascular access program presents a simple objective **Proactive Vascular Access** model which allows the practitioner to expect One Stick One Device success on 90% of all PIV attempts. DLS 360, will replace the palpation method as the first line of obtaining PIV access. Students will learn the skills needed to obtain ultrasound guided access and make the decision process or where and what device is needed Objective rather than Subjective.

Vascular Education and Intervention for Nursing

The 10 online DLS 360 Education Modules teach the user the principles of vascular access. Anatomy and Physiology of the vascular system and blood products is reviewed. Aseptic technique, site maintenance, medication infusion, and proper device selection and use are covered. Commonly encountered complications are presented with a focus on prevention. The healthcare provider will be introduced to the DLS 360 Proactive Vascular Access Model. They will learn how to review the patient’s medical condition, expected course of treatment and comorbidities and use this knowledge to choose the right access site and the correct device to provide the required therapy. Common disease states will be reviewed with an emphasis on how these affect vascular access success and longevity. The healthcare provider will be introduced to the use of portable handheld ultrasound to facilitate vascular access. This will be aided by DLS 360’s direct line of sight ultrasound cradle. After completing the didactic portion of the DLS 360 education, the healthcare providers will have the opportunity to display their new knowledge and skills by attending an interactive workshop using DLS 360’s vascular simulators. After successfully completing the education and workshop the student will be awarded DLS 360 Certification.

The DLS 360 Initiative

The DLS 360 smartphone application allows the user to access Vascular Early Intervention Needs of the patient to objectively determine the best site and device required for the desired treatment regime. Through a series of questions that can be completed in 30 seconds or less, the application uses the patient's past and current medical history, vascular access history as well as ordered or expected infusion therapy and provides the user with an objective recommendation using Infusion Nursing Society standards and other scientific data.

The application also tracks prior patient assessments which can be review by others. It keeps a private log of each user's patient assessments and vascular access attempts and reports this data back to the user in a monthly summary.

It can also track an institution's vascular access program and provide valuable feedback on vascular access attempts, success rates, complications, and devices placement. The application also has links to other information important to the healthcare provider such as proper device care and maintenance.

Sure Stick Vascular Simulator

DLS 360 has developed a vascular simulation device that is ultrasound compatible and which allows the user to practice measuring the diameter and depth of a desired vascular channel. The DLS 360 Sure Stick Vascular Simulator has multiple sized channels at multiple depths. Each simulator allows the practitioner to make numerous PIV attempts with each requiring different skill levels. After successfully mastering the use of portable ultrasound using the Sure Stick Simulator the healthcare provider will be prepared to take their new skills to the bedside and provide superior patient care.

DLS 360 - Direct Line-of-Sight Portable USG Coupler

One of the major obstacles of using ultrasound for guided procedures including vascular access is the difficult task of mastering the required hand eye coordination. It can be very difficult to hold an ultrasound probe, insert a needle and access a vessel while looking off to the side at the ultrasound display screen. DLS 360 has alleviated this troublesome issue by developing a single hand use, direct line of sight, portable ultrasound coupler.

Using an Android smartphone and a provided portable ultrasound probe, the user can quickly master the skills of using portable ultrasound to evaluate the location, depth, size, surrounding structures such as arteries and nerves and the health of a vessel, prior to attempting vascular access.

The vessel can be viewed in the transverse and sagittal planes and the user can watch the needle access the vessel lumen in real-time. No more blind sticking and then hoping you got it right.

