Dr. Timothy Maecken Hands-on Session

1. The Infiniti Plus™ message map identifies four key product claims based on clinical evidence. These include:
   a. Improved needle visualization
   b. Reduced procedure time
   c. Increased patient safety
   d. Improved physician satisfaction
   e. All of the above

2. CIVCO’s _______ needle guide is an effective tool to improve efficiency and outcomes for in-plane (IP) ultrasound-guided nerve blocks and central line placement.
   a. AccuSITE™
   b. Ultra-Pro™
   c. Infiniti Plus
   d. Multi-Pro™

3. Regional anesthesia is a primary market for Infiniti Plus and in-plane needle guidance due to this common procedure performed by anesthesiologists.
   a. Breath tube insertion
   b. Nerve Blocks
   c. Catheter Insertion
   d. Biopsies
   e. All of the above
   f. A and B
   g. B and C
   h. A and D

4. Infiniti Plus has been used extensively for both upper and lower extremity nerve blocks and central line placement procedures.
   a. True
   b. False

5. An outcome of the recent Bergmannsheil study, “Ultrasound-guided catheterization of the subclavian vein: freehand vs needle-guided technique” showed a 52.9% reduction in access time.
   a. True
   b. False

6. What makes ultrasound an optimal imaging method for central venous catheters versus landmark-based techniques?
   a. Faster procedure times
   b. Lower complication rates
   c. Safer compared to blind punctures
   d. All of the above

7. The recent Bergmannsheil study, “Ultrasound-guided catheterization of the subclavian vein: freehand vs needle-guided technique” is the largest randomized clinical study to date including 160 patients.
   a. True
   b. False
8. According to Dr. Maecken’s recent study, “Ultrasound-guided catheterization of the subclavian vein: freehand vs needle-guided technique,” which of the following was not a finding:
   a. Multi-angle needle guides significantly improved aligning the needle and ultrasound plane compared with the freehand technique
   b. Use of a needle guide resulted in faster access times
   c. Use of a needle guide increased success at the first and second attempt
   d. Catheter misplacements were reduced with the use of a needle guide

9. Central venous catheters are used to:
   a. Administer intravenous fluids and blood products
   b. Administer medications
   c. Administer hypertonic solutions (Total Parenteral Nutrition, Vesicants (chemotherapy), irritants (cloxacillin) and solutions with extreme pH values
   d. Obtain venous blood samples
   e. Provide long term intravenous therapy
   f. Obtain venous blood samples
   g. Administer large volumes of intravenous fluid quickly
   h. Administer vaspressor or vasodilator therapy (Dopamine)
   i. Monitor central venous pressure (CVP)
   j. Provide access for transvenous pacemaker or pulmonary artery catheters
   k. Access venous circulation when a patient has difficult or impossible peripheral access
   l. Provide hemodialysis access
   m. All of the above

10. A clinical indication for placement of a central venous catheter is surgery.
    a. True
    b. False
Men's Health Products: CIVCO's AccuCARE™ Line
Kevin T. Rooker, RT(R), RDMS, RVT
Ed Reading

1. Prostate cancer is the ______ most common occurring cancer in men.
   a. Second
   b. First
   c. Third
   d. Fourth

2. Which of the following is the most common procedure to perform a prostate biopsy?
   a. MRI (Magnetic Resonance Imaging)
   b. CT (Computed Tomography)
   c. TRUS (Transrectal Ultrasound)
   d. Open Surgical (Surgery)

3. Disposable endorectal biopsy guides are preferred over reusable guides as the infection rates are lower.
   a. True
   b. False

4. Which of the following products cannot be used for LDR or HDR procedures?
   a. EX3 Stepper
   b. Classic Stepper
   c. Multi-Purpose Workstation

5. Which of the following procedures needs a stepper and stabilizer?
   a. LDR
   b. HDR
   c. Transperineal Biopsy
   d. Transrectal Biopsy
   e. Cryotherapy
   f. Transperineal Fiducial Marker Placement
   g. SpaceOAR Hydrogel Placement
   h. EBRT

6. Which product provides feedback to the TPS for auto-image capture?
   a. Classic Stepper
   b. EX3 Stepper
   c. Micro-Touch Stabilizer
   d. Multi-Purpose Workstation Stepper

7. What are the advantages of CIVCO's endocavity balloon?
   a. Protects the probe from bioburden
   b. Creates an acoustic platform
   c. Raises the position of the prostate
   d. Provides 270 degrees of imaging
   e. All of the above

8. CIVCO probe cradles are compatible across the entire product line.
   a. True
   b. False
9. **What is the key difference between the Micro-Touch Dual Mount and the Micro-Touch Low Profile?**
   a. Dual Mount may be attached to a bed rail on both sides of the patient bed
   b. Low Profile may be left or right mounted
   c. Low Profile has a large counter weight versus a counter lever arm
   d. **All of the above**

10. **What are the three P's of brachytherapy?**
    a. Positioning the patient
    b. Positioning the transducer
    c. Positioning the therapeutic source
    d. **All of the above**
Go-to-Market and Launch Planning Guide: Verza Guidance System
Julie L. Meyer

1. The Verza™ message map identifies three key product claims. These include:
   - a. Clinical versatility
   - b. Improved physician satisfaction
   - c. Improved user experience
   - d. Confident outcomes
   - e. All of the above
   - f. A, B and D
   - g. A, C and D
   - h. A, B and C

2. VerzaLink™ is a locating feature on future ultrasound transducers.
   - a. True
   - b. False

3. Which of the following components are packaged for use with a VerzaLink enabled transducer?
   - a. Verza guide
   - b. 14 x 91.5cm CIV-Flex cover and colored elastic bands
   - c. 14 x 61cm CIV-Flex cover and colored elastic bands
   - d. Aquasonic gel
   - e. A, B, D
   - f. A, C, D

4. The primary buyer of the Verza Guidance System is a diagnostic Radiologist.
   - a. True
   - b. False

5. The Verza Master Carton will ship with ____________Replacement Kit boxes.
   - a. 10 boxes
   - b. 12 boxes
   - c. 24 boxes
   - d. 100 boxes

6. It is CIVCO’s intention to offer the Verza Guidance System on new transducers only.
   - a. True
   - b. False

7. Verza offers ____________ angles of approach to interventional procedures.
   - a. Single, fixed path when in a locked position
   - b. Multiple when left in the free-angle position
   - c. Verza offer five total fixed angles
   - d. All of the above

8. Verza offers the industry’s most complete instrument gauge range.
   - a. True
   - b. False
9. **Ultrasound guidance have been clinically proven to:**
   a. Improve needle visualization
   b. Reduce needle manipulation, tissue trauma and patient discomfort
   c. Improve clinical confidence when directing instruments
   d. Enable a reproducible technique compared to free-hand guided punctures
   e. Reduce the number of instrument passes, lessening the risk of complications
   f. Obtain adequate sample for diagnosis and use by a pathologist, improving biopsy yield
   g. Reduce number of instrument re-directs, saving time and improving patient satisfaction
   h. **All of the above**

10. **Verza is intended for use with pediatric and adult patients.**
    a. **True**
    b. False

Verza extra credit:

1. **Verza offers 38% reduction in blind zone and unguided needle length.**
   a. **True**
   b. False

2. **Which of the following is not an indicated use of Verza:**
   a. Core needle biopsy
   b. Fine needle aspiration
   c. Microwave ablation
   d. Irreversible electroporation
   e. Radiofrequency ablation
   f. Cryoablation
   g. Musculoskeletal injection and joint intervention
   h. Fiducial marker placement
   i. Needle localization placement
   j. Ultrasound-guided drainage
   k. Percutaneous biliary drainage
   l. Nephrostomy tube placement
   m. Vacuum-assisted biopsy
   n. Drug and analgesic delivery
   o. **Transperineal fiducial marker placement**
   p. All of the above
   e. All of the above except transperineal fiducial marker placement
   q. All of the above except drug and analgesic delivery

3. **Verza provides physicians optimal stability by:**
   a. Securing a robust retention force to the transducer
   b. Providing a strong stable guide channel
   c. Offering a repeatable, easy-to-use quick-release function
   d. **All of the above**
   e. None of the above
1. According to Spaulding Classification, transesophageal (TEE) transducers are classified as:
   a. Critical devices
   b. Semi-critical devices
   c. Non-critical devices
   d. None of the above

2. The Joint Commission has recommended all semi-critical devices be stored:
   a. Vertically in a cabinet
   b. In a dry environment
   c. Consistent with manufacturer’s recommendations
   d. All of the above

3. Electrical leak testing should be conducted during every disinfection process:
   a. True
   b. False

4. GUS manual disinfection soak stations:
   a. Can be used with FDA-approved high-level disinfectants
   b. Always have an initial rinse container
   c. Provide vapor control
   d. Use less disinfectant than open soak containers
   e. All of the above

5. A TEE probe can be used for diagnostic purposes and also monitoring purposes in surgery?
   a. True
   b. False

6. The top three OEMs of the TEE transducer market are:
   a. Philips
   b. Toshiba
   c. GE
   d. Siemens

7. What cardiac accessory does CIVCO sell that is helpful with ergonomics in the OR? TEE Transducer Holder

8. CIVCO sells TEE positioning arms which come with either a table or rail adapter?
   a. True
   b. False

9. TEE covers come sterile and non-sterile.
   a. True
   b. False

10. The typical replacement cost of a TEE transducer is $10k.
    a. True
    b. False
1. According to Spaulding Classification, endocavitary transducers are classified as:
   a. Critical devices
   b. Semi-critical devices
   c. Non-critical devices
   d. None of the above

2. Probes such as rectal and vaginal, cryosurgical and transesophageal probes or devices also should be high-level disinfected between patients.
   A. True
   B. False

3. Which of the following steps is not recommended for high-level endocavitary transducer disinfection:
   a. Pre-clean
   b. MRC test and temperature check
   c. Disinfect
   d. Rinse
   e. Storage
   f. Leak test

4. Which procedure does virtuTRAX excel at?
   a. Kidney biopsy
   b. Liver biopsy
   c. Central line placement
   d. Liver ablation

5. Which product has a simpler work flow?
   a. eTRAX
   b. virtuTRAX

6. Which product is more accurate?
   a. eTRAX
   b. virtuTRAX

7. Which product has a sensor embedded in the needle tip?
   a. virtuTRAX
   b. eTRAX
   c. OmniTRAX

8. What are the main benefits of the RAD-GUIDE?
   a. Can be used in CT or ultrasound
   b. Supports ablation probes
   c. Can support multiple needles
   d. All of the above

9. What are the benefits of the quick release endo guide over a regular guide?
   a. Great for abscess drainage
   b. The probe can be removed and a catheter can be left behind.
   c. Reduce rates of infection
   d. Shorter cleaning times
Ultrasound Guidance in Radiology: Introduction to Verza Guidance System
Dr. Knut Brabrand

1. Select three key product message points for Verza:
   a. Clinical versatility
   b. Improved user experience
   c. Confident outcomes
   d. Accurate navigation

2. Verza expands procedural versatility by accepting 12-7FR and 14-25GA interventional devices.
   A. True   B. False

3. Verza provides a four-angle approach enabling a wide range of target depths for interventions in the abdomen.
   A. True   B. False

4. Placing a drain in a fluid collection can be accomplished using __________.
   a. Needle-guided technique
   b. Free-hand technique
   c. Trocar technique
   d. Seldinger technique
   e. All of the above

5. The primary purpose for using ultrasound during a drain placement is to identify the abscess and mark the skin. After this is accomplished, ultrasound is no longer useful.
   A. True   B. False

6. Verza provides the user with minimized blind zone and unguided needle length.
   A. True   B. False

7. What is VerzaLink™?
   a. VerzaLink is the new bracket name
   b. VerzaLink is the locating feature specifically engineered to accept the Verza guide
   c. VerzaLink is a web file housing marketing materials for Verza
   d. VerzaLink is the name for the needle guide

8. Increasing the channel length of Verza will improve the needle guide stability.
   A. True   B. False

9. The primary functional difference between Ultra-Pro II™ and Verza is the quick-release function. Verza will not have a quick-release function.
   A. True   B. False

10. What transducer will not be compatible with Verza?
    a. Linear array
    b. Phased array
    c. Curved array
    d. Endocavitary micro-convex array
1. To be added to CIVCOmmunicator distribution list email distorder@civco.com.
   A. True  B. False – email Kelsey.zylstra@civco.com

2. What is an easy way to find new products CIVCO has to offer?
   a. Call MiKayla Crouch
   b. Click “what’s new” tab on CIVCOonnect
   c. Email Charles Klasson
   d. Call 1-800-WHATSNEW

3. CIVCOonnect houses high resolution PDF’s you are able to print.
   A. True  B. False

4. What is one thing you would like to see more of on the CIVCOmmunicator quarterly newsletter?

5. What channel submits the majority of CIVCO market surveillance:
   a. Customer Service
   b. OEM Sales
   c. Distributor Sales
   d. Product Management

6. The highest amount of market surveillance is received:
   a. New endocavity guides
   b. Pricing
   c. Accessories
   d. New general purpose brackets