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U8B Doppler Ultrasound System

Create a CVAD puncture whole-process solution



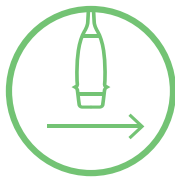
Shenzhen Comen Medical Instruments Co., Ltd.

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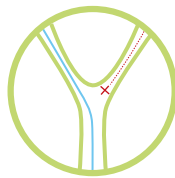
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CVAD operating platform integrating ultrasound and ECG positioning

CVAD (central vascular access device) is a catheterization technique in which a catheter is inserted through a peripheral vein and the tip of the catheter is placed in the SVC (superior vena cava) or IVC (inferior vena cava). It includes PICC (peripherally inserted central catheter) and CVC (central venous catheterization) PORT. It is mainly used for measuring CVP (central venous pressure), chemotherapy, parenteral nutrition pathway, and administration of high-risk medication (hypertonic, high-acidic and high-alkaline).



Vessel localization and evaluation

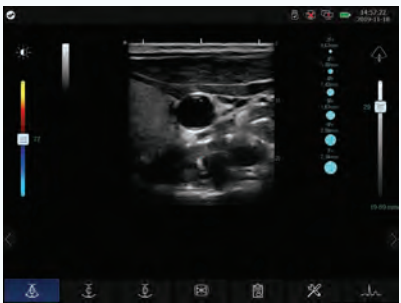


Diagnosis of the ectopic catheter



The positioning of the catheter end

In response to the above problems, Comen U8B proposes a CVAD puncture solution.



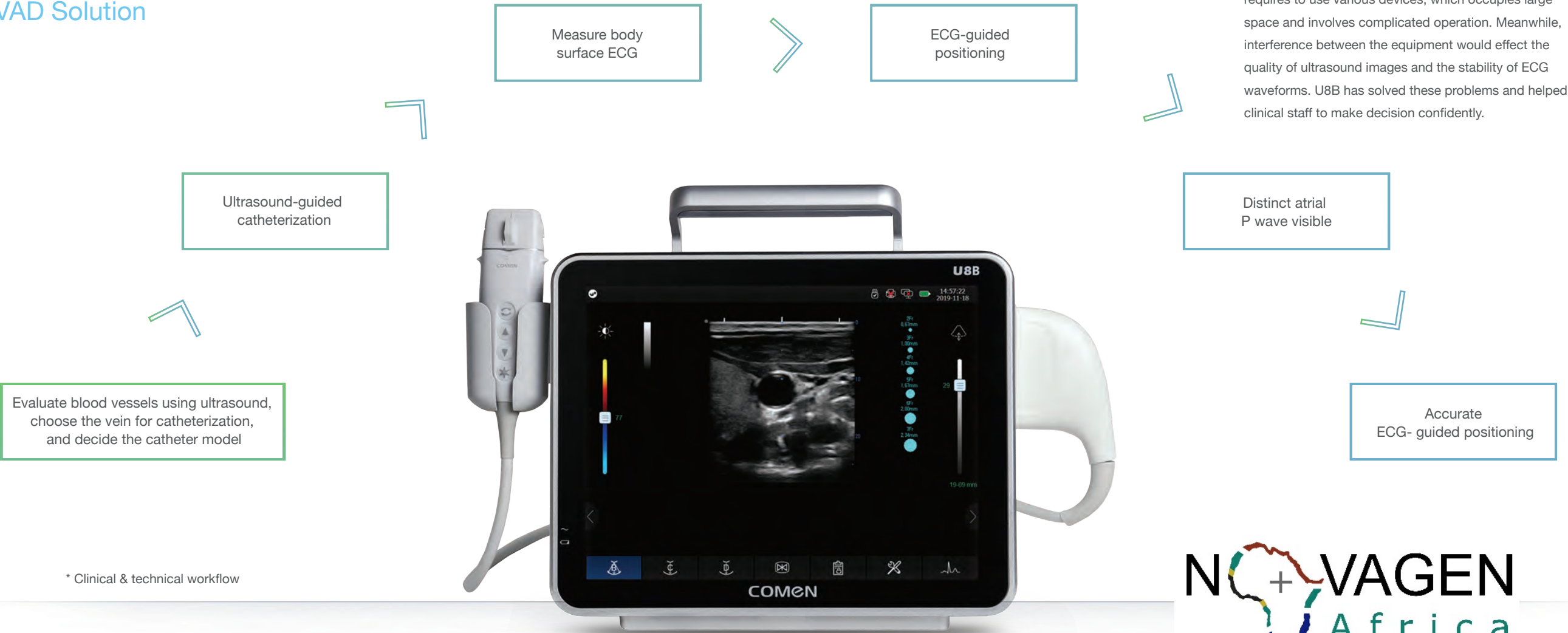
Ultrasound interface



ECG-guided positioning interface

By using the ultrasound probe, ultrasound-guided catheterization, diagnosis of the ectopic catheter and switching to the mode of positioning ECG catheter tip could be completed without changing instruments, which simplifies catheterization, optimizes workflow and reduces infection risk.

CVAD Solution



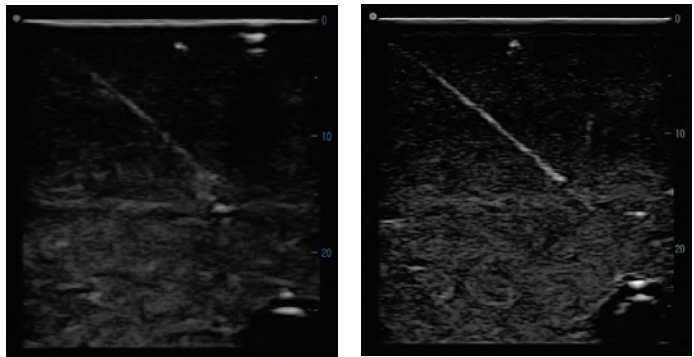
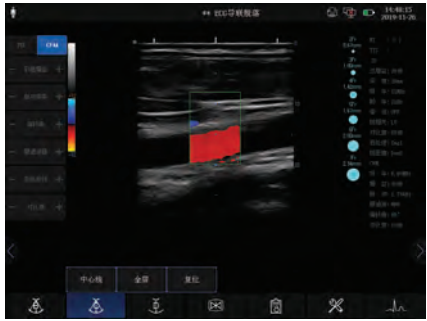
* Clinical & technical workflow



Ultrasound - Built for Catheterization

Parameters modulated specifically for catheter placement, verified by large vascular samples.

Operating platform designed for guiding CVAD catheterization.



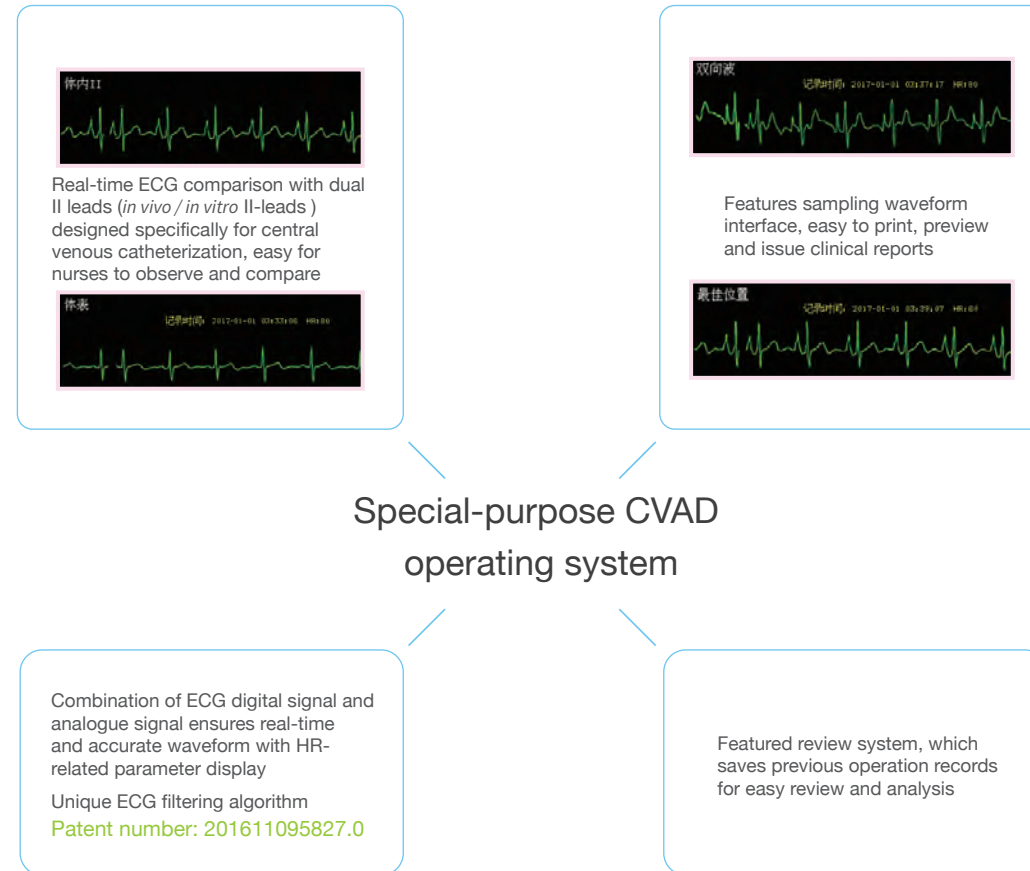
- Full-field autofocus technology, with no manual focusing required, greatly improves the quality of 2D images and simplifies the operation of medical staff.
- ACM intelligently matches blood vessels and catheters, making it easy for medical staff to choose the appropriate catheter.
- One-click image optimization enhances ultrasound images in different modes; the operation is simple and fast.
- The speckle noise reduction technique identifies and amplifies effective diagnostic information, suppresses noise interference, and makes the human tissue structure clearer.
- The screen adopts a full-fit design to make the tube image clearer.

Specialized ultrasound transducer

- High-frequency linear array transducer enables the high-resolution display of superficial tissues and organs, accurate blood vessel positioning and better target image resolutions, which improves the success rate of puncture.
- The intelligent needle-size reminder function facilitates the operation of catheterization by medical staff.
- Full-button remote control operation, one-button switch to ECG mode, convenient and fast.
- IPX7 waterproof meets the requirements of immersion disinfection
- Optional convex array transducer is mainly used for abdominal and pelvic cavity organ scan, FAST scan, pleural effusion scan, etc.



The Tracer ECG positioning system that is built hand-in-hand with experts



ECG accessories



A four-lead ECG designed for positioning enables smooth operation.
Special-purpose four-electrode feedback
Patent number: 201611095826.3



Special-purpose disposable positioning clip allows you to focus more on the patient.



Lightweight and portable

The fixed handle and specialized accessory storage box are convenient for medical personnel to carry.



Clear image

The 12.1-inch HD capacitive touch screen has higher image quality. Adopts full-fit technology, enables more thorough visual effects.



Easy to use

Clear-cut and simple UI design, in line with the operating habits of medical staff.



Firm and durable

The design of aluminium alloy + plastic increases the instrument's anti-fall and anti-pressure performance while reducing the weight of the instrument.
Large-capacity lithium battery ensures continuous use in an environment where electricity is unavailable.



Complete catheterization case management system

With large-capacity data storage, encompassing B-ultrasound images and ECG waveforms, the all-in-one catheterization case management system is convenient for medical staff to query and review.



Cart solution

High-end cart solutions, the simplistic and aesthetic cart is convenient and labour-saving for U8B transfer, and in the meantime ensures the safety of equipment.



Special-purpose accessories

Special-purpose ultrasound catheterization accessories and ECG positioning accessories facilitate clinical operations and improve the success rate of catheterization.