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Central Venous Cannulation Device (CVC Device)

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Description



The CVC Assistance Device, developed by our LSU AgCenter scientists, is a groundbreaking innovation that addresses human error in Central Venous Cannulation (CVC) procedures. This revolutionary device automates critical aspects of the procedure, such as controlling needle insertion with precise depth, velocity, and applied force. By mechanizing these steps, the device ensures consistent and accurate single-wall vein piercing, significantly reducing the risk of complications associated with manual needle insertion. These complications include arterial punctures, internal organ damage, and puncturing of the lungs. Most importantly, the CVC Assistance Device minimizes the risk of patient mortality resulting from procedural complications.

Advantages:

- Reduces risk of artery, organ, and lung damage.
- Ensures consistent and successful vein piercing.
- Universal design for any medical practitioner, anywhere.
- Improves patient safety and procedure success.

Commercial Uses:

- Hospitals and healthcare facilities.
- Emergency medical services.
- Military medical units.
- Remote and rural healthcare delivery.



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