**Supplement 3.** Self-assessment checklist for central venous catheterization

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| Self-assessment checklist for central venous catheterization |
| **CVC1.** Choose puncture site, apply local anesthesia, and place the larger introducer needle.□ Could complete it □ Could not complete it |
| **CVC2.** Insert the guide wire properly with sterile technique and appropriate depth.□ Could complete it □ Could not complete it |
| **CVC3.** Place the skin dilator properly with appropriate depth.□ Could complete it □ Could not complete it |
| **CVC4.** Insert the catheter properly.□ Could complete it □ Could not complete it |