

## Needle guide improves catheterization of subclavian vein

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compared with the freehand technique when cannulating the subclavian vein," the authors write.

More information: <u>Abstract</u> Full Text (subscription or payment may be required)

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(HealthDay)—A multi-angle needle guide can improve ultrasound-guided catheterization of the subclavian vein, according to a study published online Aug. 28 in *Anaesthesia*.

Tim Maecken, M.D., from the BG University Hospital Bergmannsheil in Bochum, Germany, and colleagues conducted a randomized study to examine the impact of a multi-angle needle guide for ultrasound-guided, in-plane central venous catheter placement in the subclavian vein. A total of 160 patients were randomized to freehand or needle-guided technique; 159 catheterizations were analyzed.

The researchers found that in 96.9 percent of cases, cannulation of the first examined access site was successful, with no significant betweengroup difference noted. Three arterial punctures and no other severe injuries were identified. There was no between-group difference in catheter misplacements. In the needle-guided group there were higher success rates within the first and second attempts (P = 0.041 and 0.019, respectively). The access time was reduced with use of the needle guide (from 30 to 16 seconds; P = 0.0001), and needle visibility was increased (from 31.8 to 86.2 percent; P

"A multi-angle needle guide significantly improved aligning the needle and ultrasound plane



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