

# Central venous catheter (Certofix®)

It's in your hands – Infection prevention in  
veterinary medicine



# Central venous catheter

## CVC



Perform hygienic hand disinfection (e.g., Softa-Man® pure).



Support the neck. Apply tourniquet and palpate vessel.



Shear the puncture site, leaving a wide margin.



Perform hygienic hand disinfection (e.g. Softa-Man® pure) and put on low-germ examination gloves if necessary.



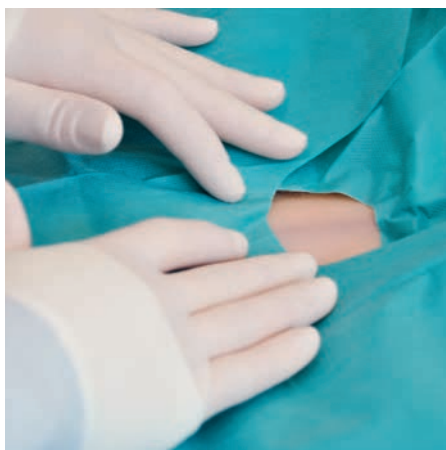
Clean the skin with cleansing foam. After one minute, dry the residue using a low-germ swab.



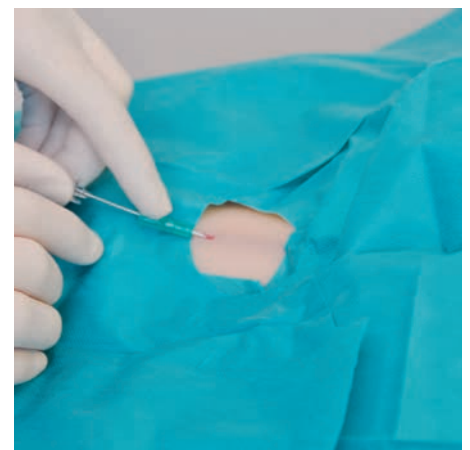
Rub the skin for 30 seconds with a swab soaked in Braunoderm®. Allow specified exposure time to elapse. Repeat this process a total of three times.



Put on cap and mask; perform surgical hand disinfection. Put on sterile gown and sterile surgical gloves (e.g., Vasco® OP Grip).



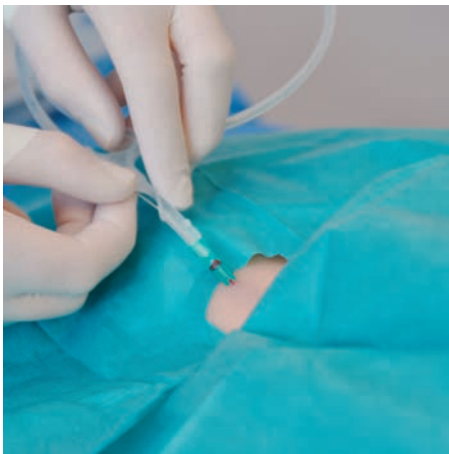
Apply a sterile drape to the area. Have the assistant apply a tourniquet underneath the drape.



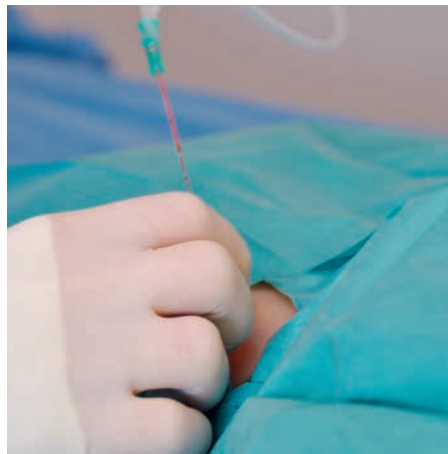
Prepare Certifix®. Puncture the vein with the puncture needle provided or, as shown here, with an 18 G IntroVet®.

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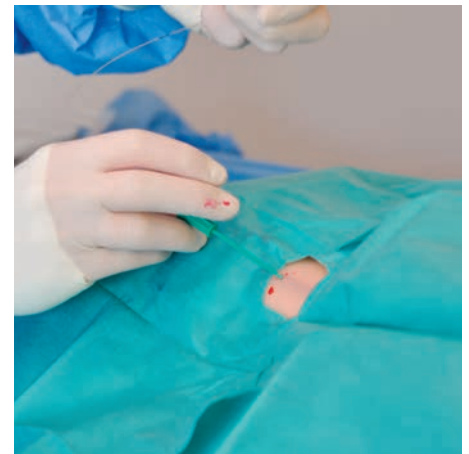
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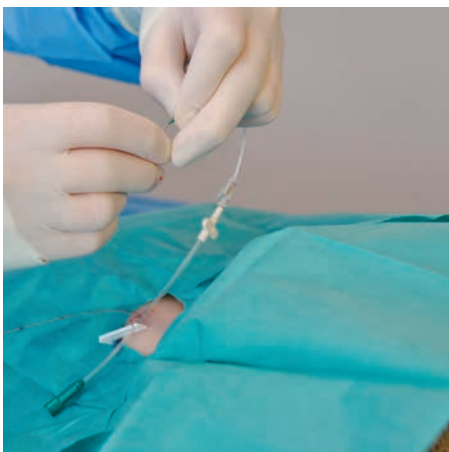
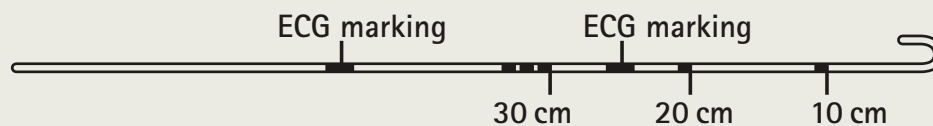
Insert the guidewire and advance it into the vessel. Make sure not to push the wire too deep into the vessel. The guidewire is marked every 10 cm (see illustration).



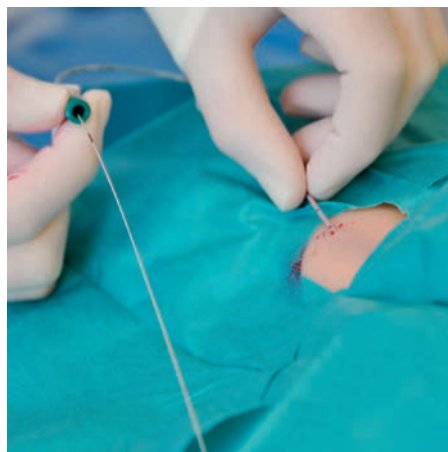
Remove the puncture cannula and the guidewire. Always secure the wire with one hand to prevent it from sliding further into the patient or out of the vessel.



Advance the dilator through the skin and into the vessel (tip only) along the wire. Remove the dilator. For patients with very firm skin, a small incision along the wire may be necessary.



Advance the catheter into the vein along the guidewire until it is secure within the vessel (depends on patient size, but typically a few centimeters).



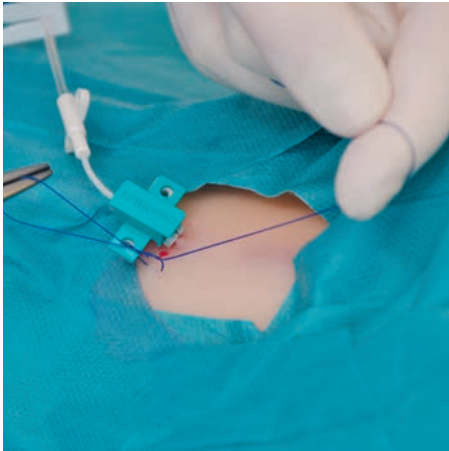
Retract the wire until the last mark appears, at which point the wire and catheter are the same length. The catheter and wire can then be pushed into the vessel to the desired depth. The catheter has centimeter markings for orientation purposes.



After placing the catheter, remove the guidewire. To check successful placement, aspirate until the entire catheter is filled with blood and then flush with sterile 0.9% NaCl solution. While irrigating, clamp the catheter to ensure positive pressure remains in the catheter and no blood can flow back into it.

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Bring the adjustable wings to the entry site and attach the matching piece. Secure with individual stitches. After that, suture on the second wing.



Clean puncture site of blood with ProntoVet® wound irrigation solution.



Apply protective bandage (e.g., Askina® Color). It is advisable to label the catheter to avoid mix-ups.



Additional information, this poster, and much more can be found at:  
[www.bbraun-vetcare.com/inyourhands](http://www.bbraun-vetcare.com/inyourhands)

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Thank you very much – The pictures were taken in Hergolding with the generous support of the small animal specialists Frontier GmbH.

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