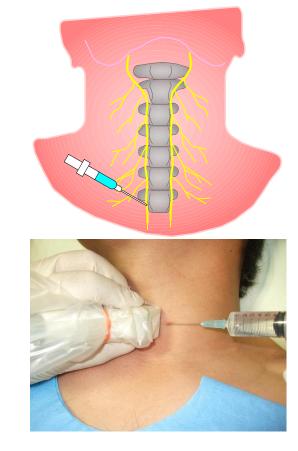
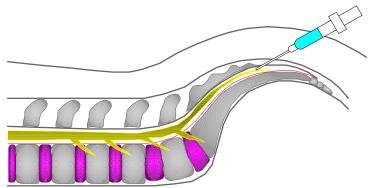
Needle puncture with HONDA supportive system

In the application with puncture with a needle for nerve block and insertion of catheter, to obtain safety, ultrasound puncture must be recommended.

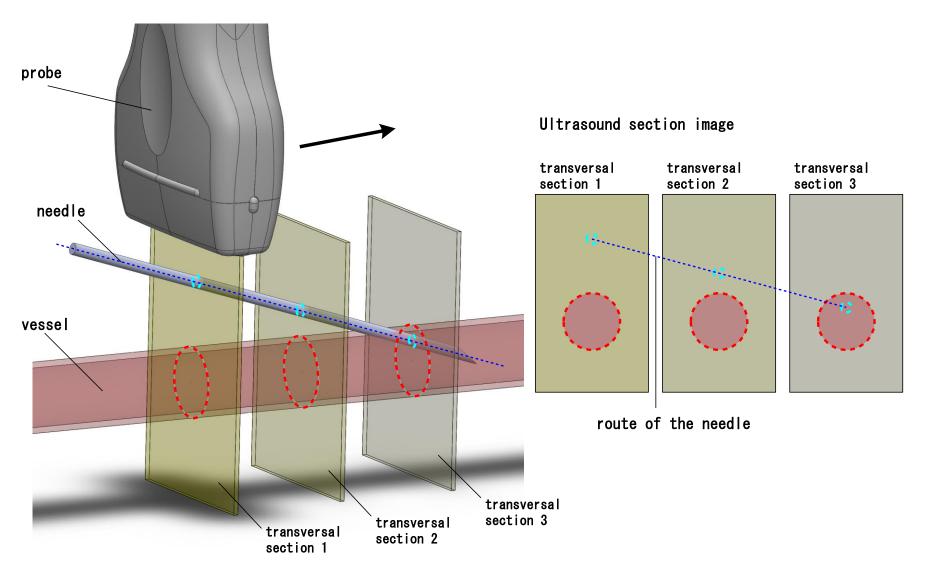
Easy and accurate puncture using ultrasound is getting required.



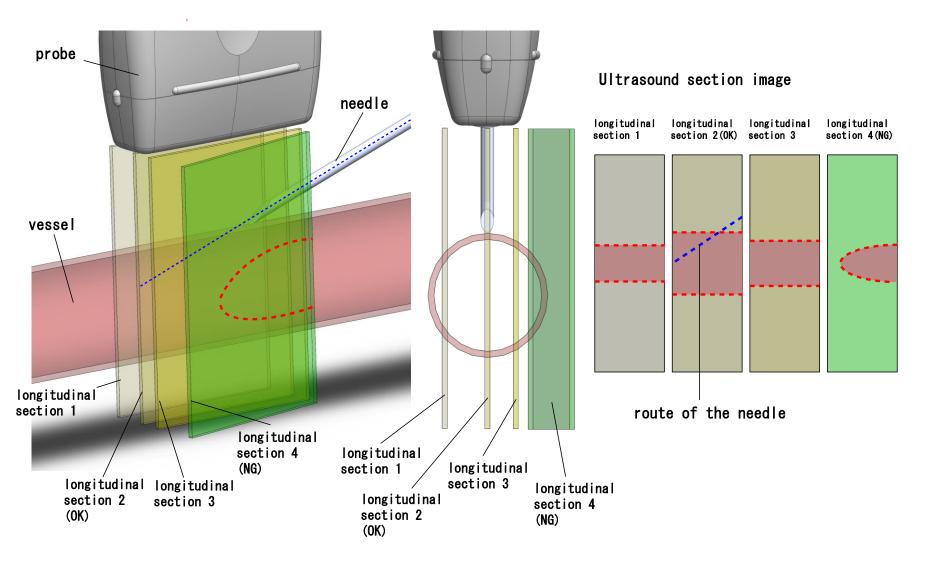




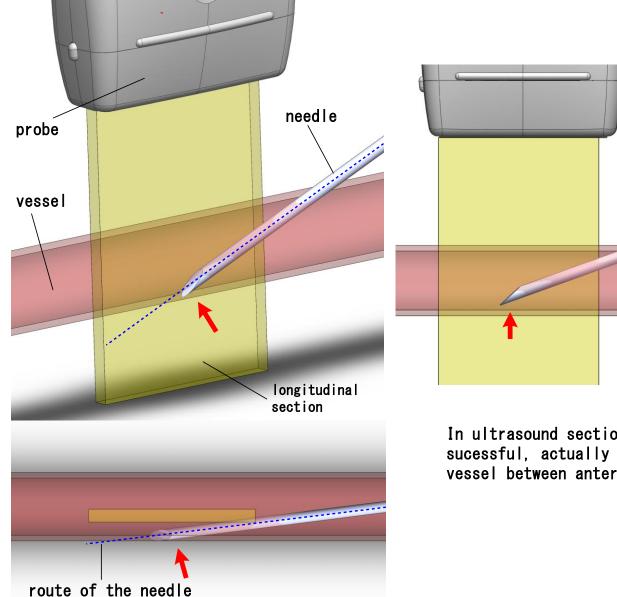
<u>Out-Plane Method</u>



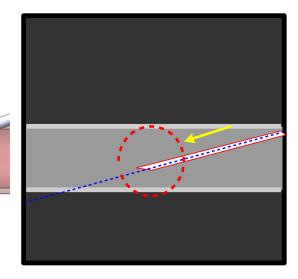
In-Plane Method



In-Plane Method : failure example



Ultrasound section image

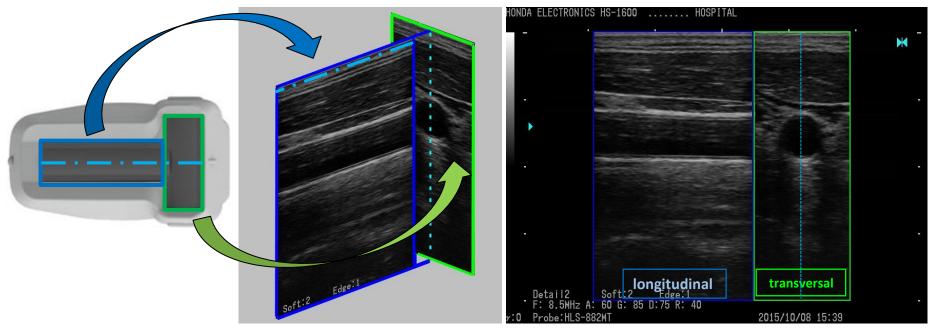


In ultrasound section image, puncture seems to be sucessful, actually the needle tip went through the vessel between anterior to lateral wall.



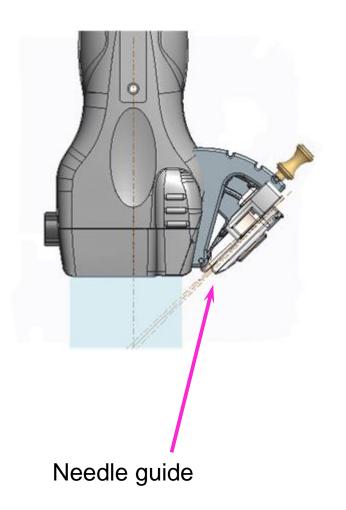
T-shaped probe(HLS-882MT)

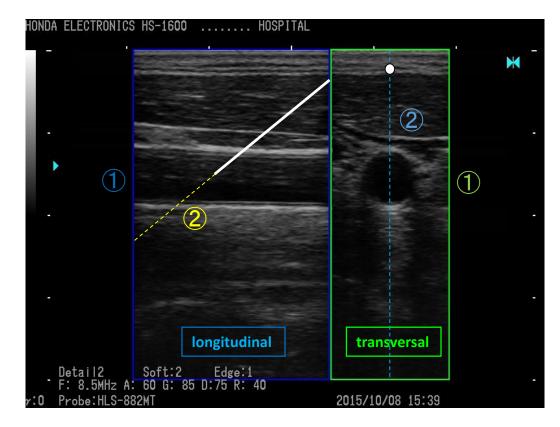
1. The probe placement is possible at the same time being available with two sections for both transversal and longitudinal.



2. Puncture along-with the needle guide

3. Go on the puncture to reach the targeting region while seeing the image on the screen.





- Two viewing sections (long and short axis) at simultaneous
- ② Needle guide lines are available at two sections

~Procedure of puncture~ 1

