

Supplementary Materials

Supplementary Table S1. Summary of survey responses across all study participants ($n = 20$) for evaluation of the Vu-Path™ device.

Question	Percent Yes Response
User Experience Related	
Prior to participating in this study, I was familiar with the use of ultrasound for obtaining vascular access.	95%
I have personally used an ultrasound machine in my work.	90%
I have personally used ultrasound for obtaining vascular access.	70%
Device Training Related	
Was the intended use of the device clearly stated as part of the training?	100%
Were risks associated with using the device outlined in training?	95%
Was the training you received easy to understand?	100%
Did you feel adequately trained on the equipment?	100%
Was the training time reasonable, ie. not too short or too long?	100%
Device Design Related	
Aesthetically, did you like how the product looks?	80%
Was the device comfortable to use?	90%
Was the device easy to manipulate?	90%
Did you find any elements of the device cumbersome?	25%
Did you find any features or elements of the device unnecessary?	0%
Did you find the device features to be intuitive?	80%
Device Ultrasound Related	
Was the ultrasound feed stable (no significant lags, freezes)?	85%
Did you have difficulty orienting yourself to the ultrasound?	45%
Was your insertion target easy to identify on the ultrasound?	65%
On your first attempt, did the needle insert into the location you expected?	75%
Device Operation Related	
Did you feel confident using this device?	80%
Was the device easy to use?	95%
Did you find the device helpful?	90%
Did you feel safe using this device?	95%
Did you find use of the device frustrating?	20%
Did you find yourself making mistakes when using the device?	30%
Did the device malfunction in any way during testing?	0%
Did this device perform as you expected?	100%
If you made multiple insertions, was usage of the device consistent?	40%
Do you think this device could be used by someone without central line placement experience?	65%
Do you feel satisfied using the device?	85%
Overall, did you like using the device?	85%
Would you use this device to obtain central line access on a patient?	80%
Did you experience any side effects or injuries while using the device?	0%
Do you see this device as a clinical tool?	80%

Do you see this device as an educational tool?	85%
Is this device feasible for use in remote, austere environments?	85%