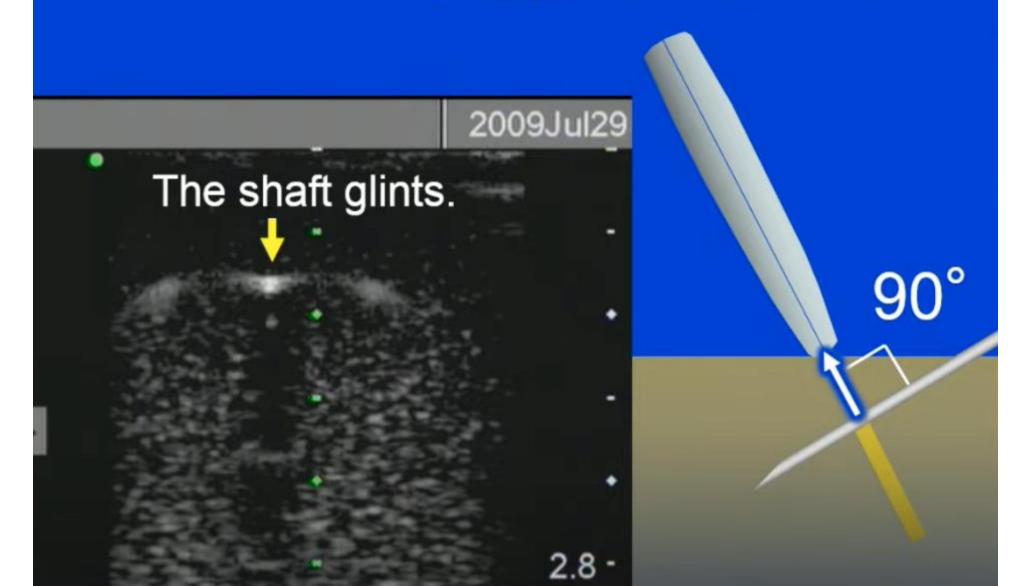
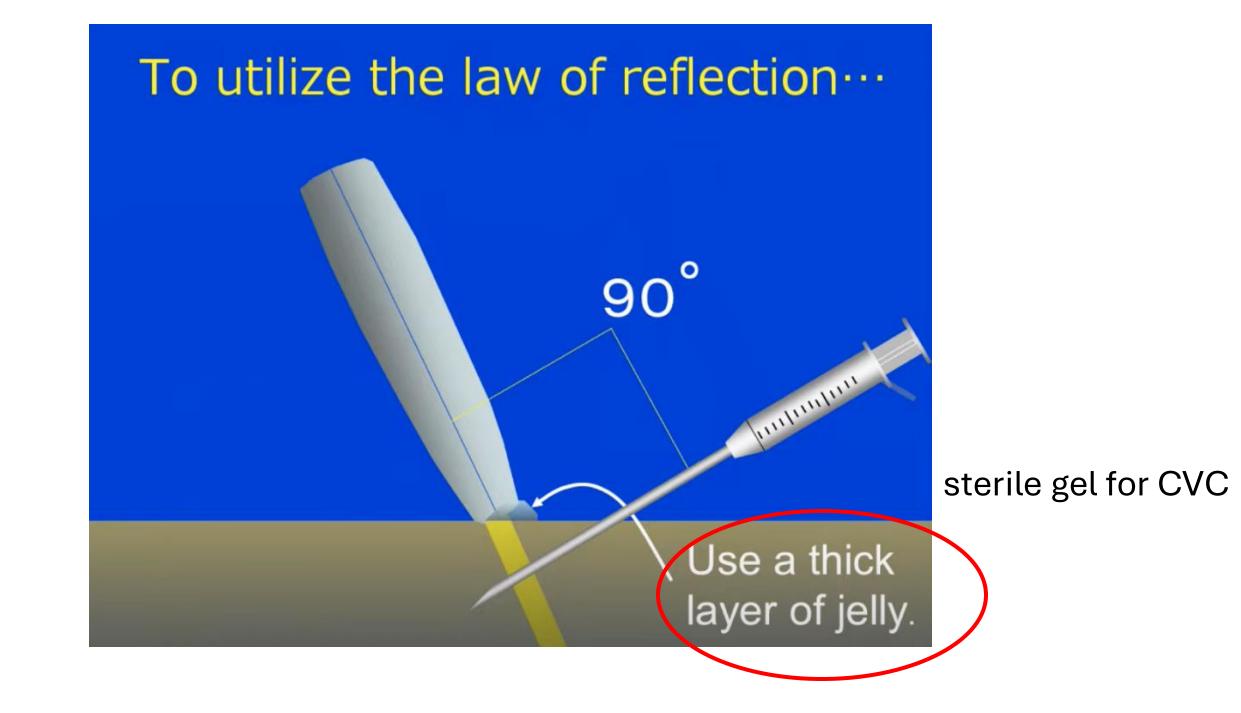
U/S guided dynamic needle TIP positioning DNTP

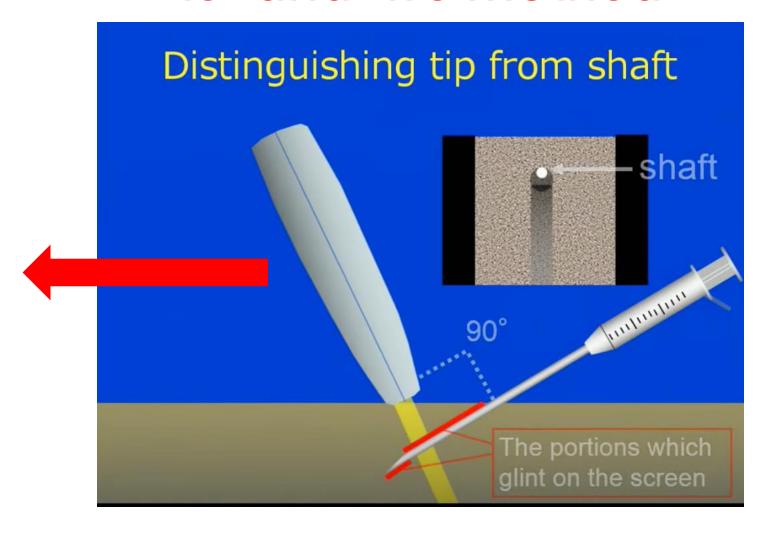
to- and- fro method

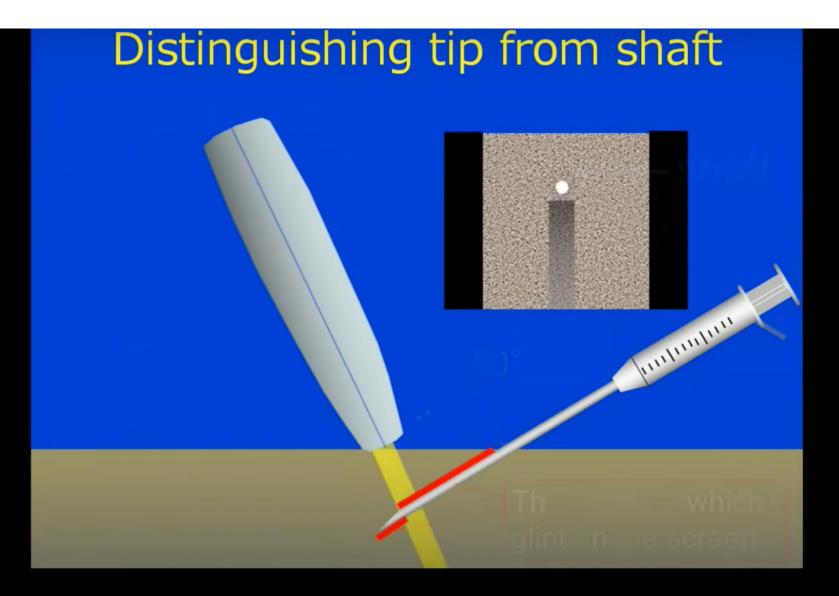
The needle shaft is visualized by reflection





to- and- fro method





Technically, it is important to stop the probe exactly at the moment the bright spot has disappeared.

jiggling



Jiggling (subtle back-and-forth movement) the needle promotes the visibility of the tip. Although such jiggling is useful in central venous cannulation, I do not recommend it for peripheral vessel cannulation, because those vessels are fine and thin.