Abstract

INTEGRATED PERIPHERAL INTRA-VENOUS CATHETER WITH IMPROVED EXTENSION TUBE PORT PROBE ACCESS

A vascular access device may be an integrated catheter. The vascular access device includes a catheter (103) and catheter adapter (101) having a catheter hub (102) and side port (105). The contact angle of a probe is greater than 90 degrees. The entrance angle of a probe entering the catheter hub from the side port may be less than 45 degrees. The vascular access device may include a component configured to direct the path of a probe towards the catheter opening. The component may be a protrusion extending into the lumen of the side port, internal fluid passageway, and/or extension tube, or a septum within the catheter hub. The vascular access device includes an access adapter in fluid communication with the side port and permitting insertion of a probe into the catheter through the side port with or without a separate luer adapter. Methods of using a vascular access device are further disclosed.

Figure 1