

Claims:

1. An assembled intravenous catheter device, comprising:

a catheter adapter having a proximal end, a distal end, and a lumen interposed therebetween, the catheter adapter further comprising a securement platform, the distal end comprising an intravenous catheter and the proximal end comprising an extension tube and an access port extending outwardly from the extension tube, wherein the intravenous catheter, the access port, and the extension tube are in fluid communication with the lumen;

a needle hub having a closed end, an open end, and a compartment interposed therebetween, the closed end being configured to receive a terminal end of the extension tube and the open end configured to receive the proximal end of the catheter adapter, wherein the extension tube is stored within the compartment, the needle hub having an access slot extending through the open end, wherein the access port extends through the access slot and is slidable in a distal direction within the access slot; and

an introducer needle having a base end, a tip end and a body extending therebetween, the base end being securely attached to the closed end of the needle hub, and the body extending through the proximal end, the lumen, the distal end, and the intravenous catheter such that the tip end of the introducer needle is exposed beyond a terminal end of the intravenous catheter.

2. The device of claim 1, wherein the body of the introducer needle further passes through an interior of the extension tube.

3. The device of claim 1, wherein the proximal end of the catheter adapter further comprises a blood control valve through which the body of the introducer needle passes.

4. The device of claim 3, wherein the blood control valve comprises a septum.

5. The device of claim 3, wherein the blood control valve comprises a self-sealing polymer.
6. The device of claim 1,
wherein the access port is located externally to the compartment.
7. The device of claim 1, wherein the open end further comprises a notch for receiving a proximal edge of the securement platform.
8. The device of claim 1, further comprising a safety mechanism slidably coupled to the body of the introducer needle and configured to capture and retain the tip end of the introducer needle upon removal of the catheter adapter and the extension tube from the needle hub.
9. The device of claim 1, wherein a proximal end of the extension tube further comprises a blood control valve.
10. The device of claim 9, wherein the blood control valve further comprises a passageway through which the body of the introducer needle passes.
11. The device of claim 9, wherein the blood control valve is a septum.
12. The device of claim 9, wherein the blood control valve is a self-sealing polymer.
13. The device of claim 9, wherein the blood control valve is a luer adapter.
14. The device of claim 1, wherein a gauge of the extension tube is greater than a gauge of the intravenous catheter.

15. The device of claim 1, wherein the securement platform comprises a pliable, flexible polymer material.
16. The device of claim 1, wherein the needle hub comprises a rigid polymer material.
17. The device of claim 16, wherein the needle hub further comprises a paddle grip positioned in proximity to the open end and arranged to overlap the securement platform.
18. The device of claim 17, wherein the device is low profile.
19. The device of claim 1, wherein the closed end of the needle hub further comprises a flashback chamber.