CLAIMS

What is claimed is:

1. A catheter assembly (108) comprising:

a catheter tube (110) attached to a catheter hub (130) and a needle (112) attached to a needle hub (122), wherein the needle (112) is located in a lumen of the catheter tube (110) and a needle tip (114) of the needle (112) projects out a distal opening (110a) of the catheter tube (110);

an adaptor (290) having a body (368) comprising a base (370), a tip (360), and a bore (376) extending through the body (368), the base (370) having a base bore section and the tip (360) having a tip bore section, the tip (360) located in a proximal opening (138) of the needle hub (122); and

a guidewire dispenser (292) having a frame (306) with a plurality of branches, a connection tip (326) at a first branch (312) of the plurality of branches located inside the base bore section of the adaptor (290); and

wherein a guidewire (302) extends through a second branch (314) of the plurality of branches and in through the connection tip (326) at the first branch (312).

2. The catheter assembly (108) of claim 1, further comprising a housing (102) comprising a first frame (193) attached to a second frame (194) and having an interior space (104), said housing (102) having a distal opening and a proximal opening and the catheter hub (108) is located at least in part in the interior space (104) of the housing (102).

3. The catheter assembly (108) of claim 1, further comprising a duct (308) having a first end (308a) attached to a socket (340) at the second branch (314) and wherein the guidewire (302) extends at least partially into the duct (308).

4. The catheter assembly (108) of claim 3, wherein the duct (308) has a second end (308b) attached to a socket (342) of a third branch (316) of the plurality of branches.

5. The catheter assembly (108) of claim 4, wherein the duct (308) and the frame (306) define a closed loop.

6. The catheter assembly (108) of claim 1, further comprising a valve (386) located in the bore (376) of the adaptor (290).

7. The catheter assembly (108) of claim 1, further comprising a needle guard (140) located in an interior cavity (148) of the catheter hub (130).

8. The catheter assembly of claim 1, wherein the guidewire has a code, the guidewire dispenser has a code, or both the guidewire and the guidewire dispenser have codes for indicating a gauge size.

9. The catheter assembly of claim 8, wherein the code or codes include a color, an alpha code, a numeric code, an alpha numeric code, or combinations thereof.

10. The catheter assembly (108) of claim 1, wherein the tip (360) of the adaptor (290) comprises a cannula channel (363) having an inside measurement and a guidewire passage (376d) having an inside measurement, and wherein the inside measurement of the cannula channel (363) is larger than the inside measurement of the guidewire passage (376d).

11. The catheter assembly (363) of claim 10, wherein the cannula channel (363) is located distal of the guidewire passage (376d).

12. The catheter assembly (108) of claim 1, wherein the plurality of branches comprises at least three branches, which include a first branch (312), a second branch (314), and a third branch (316).

13. The catheter assembly (108) of claim 1, wherein a valve (386) is located in the catheter hub (130).

14. The catheter assembly (108) of claim 1, wherein the tip (360) having the tip bore section with a frustoconical shape.

15. A method for assembly a catheter assembly (108) comprising:

providing a catheter hub (130) with a catheter tube (110) extending out a distal end of the catheter hub (130), said catheter hub (130) having a body with an interior cavity (148) and said catheter tube (110) comprising a lumen and a distal opening (110a);

providing a needle hub (122) with a needle (112) having a shaft with a lumen and a needle tip (114), said needle hub (122) comprising a body (168) with an interior cavity (170) and said needle (112) projecting through the lumen of the catheter tube (110) with said needle tip (114) projecting distally of the distal opening (110a) of the catheter tube (110);

providing an adaptor (290) having a body (368) with an exterior surface and an interior surface defining a bore (376), the body (368) further having a base (370) having a base bore and a tip (360), said tip (360) of said adaptor (290) located in the interior cavity (170) at a proximal opening of the needle hub (122); and

providing a guidewire dispenser (292), said guidewire dispenser (292) having a connection tip (326) disposed in the base bore of the adaptor (290) and a guidewire (302) extending across an advancement platform (322) of the guidewire dispenser (292).

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