

What is claimed is:

1. A connector hub for a needle assembly for placing a centerline catheter into the subclavian vein of a patient in need thereof, said connector hub comprising:

a first portion located at a first end section of the connector hub, said first portion comprising a first opening, a first passage fluidly connected to said first opening, and a first longitudinal axis;

a second portion located at a second end section of the connector hub opposite said first end, the second portion comprising a second opening, a second passage fluidly connected to said second opening, and a second longitudinal axis;

a medial portion located at a middle section of the connector hub between said first end section and said second end section, said medial portion comprising a medial passage fluidly connected with said first passage and said second passage, and a medial longitudinal axis, wherein said medial longitudinal axis is arranged at an angle relative to said first longitudinal axis of said first portion; and

at least one insertion port located on said medial portion, wherein said insertion port comprises a first insertion port opening, an insertion port passage fluidly connected to said medial passage, and an insertion port longitudinal axis, wherein said first insertion port opening is hermetically sealed, and wherein said insertion port longitudinal axis is arranged at an angle relative to said medial longitudinal axis.

2. The connector hub of claim 1, wherein said first portion is configured to engage a needle having a hollow needle lumen and a needle longitudinal axis, said first longitudinal axis of said first portion being arranged relative to said needle longitudinal axis at an angle of 0 degrees.

3. The connector hub of claim 1, wherein said second portion is configured to engage a syringe having a syringe longitudinal axis, said second longitudinal axis of said second portion being arranged relative to said syringe longitudinal axis at an angle of 0 degrees.

4. The connector hub of claim 1, wherein said medial longitudinal axis is arranged relative to said first longitudinal axis of said first portion at an angle between 20-40 degrees.

5. The connector hub of claim 1, wherein said medial longitudinal axis is arranged relative to said first longitudinal axis of said first portion at an angle of 30 degrees.
6. The connector hub of claim 1, wherein said insertion port longitudinal axis is arranged relative to said medial longitudinal axis at an angle between 20-40 degrees.
7. The connector hub of claim 1, wherein said insertion port longitudinal axis is arranged relative to said medial longitudinal axis at an angle of 30 degrees.
8. The connector hub of claim 1, wherein said insertion port longitudinal axis is arranged relative to said first longitudinal axis at an angle of 20-40 degrees.
9. The connector hub of claim 1, wherein said insertion port longitudinal axis is arranged relative to said first longitudinal axis at an angle of 40 degrees.
10. The connector hub of claim 1, wherein the insertion port passage has a conical shape comprising a first cone diameter and a second cone diameter, wherein said second cone diameter is larger than said first cone diameter, and wherein said first cone diameter is arranged proximal to said medial passage.
11. The connector hub of claim 1, wherein said first insertion port opening is arranged flush with an external surface of said medial portion.
12. The connector hub of claim 1, wherein said first insertion port opening is hermetically sealed with a membrane, wherein a catheter guide wire is configured to puncture said membrane upon inserting said catheter guide wire through said first insertion port opening and into said insertion port passage.

13. The connector hub of claim 1, wherein the connector hub is manufactured from a transparent material that allows for direct visualization of blood as it enters the connector hub.
14. A kit for placing a centerline catheter into the subclavian vein of a patient in need thereof, the kit comprising an introducer needle, a syringe, and the connector hub according to claim 1.
15. A method for placing a centerline catheter into the subclavian vein of a patient in need thereof, the method comprising:
- providing the connector hub according to claim 1, said connector hub being engaged with an introducer needle at said first portion and with a syringe at said second portion, the introducer needle comprising a hollow internal lumen;
 - installing a catheter guide wire into the subclavian vein by threading said catheter guide wire through each of said insertion port passage, said medial passage, said first passage, and said internal lumen of said introducer needle.
16. A method for placing a centerline catheter into the subclavian vein of a patient in need thereof, the method comprising:
- providing the connector hub according to claim 1, said connector hub being engaged with an introducer needle at said first portion and with a syringe at said second portion, the introducer needle comprising a hollow internal lumen;
 - installing a catheter guide wire into the subclavian vein by threading said catheter guide wire through each of said second passage, said medial passage, said first passage, and said internal lumen of said introducer needle.
17. A method of manufacturing the connector hub according to claim 1, wherein the connector hub is manufactured by a method selected from the group consisting of injection molding, 3D printing, extrusion blow molding, injection blow molding, and vacuum casting.

18. A connector hub comprising:

a first portion located at a first end section of the connector hub, said first portion comprising a first opening, a first passage fluidly connected to said first opening, and a first longitudinal axis;

a second portion located at a second end section of the connector hub opposite said first end, the second portion comprising a second opening, a second passage fluidly connected to said second opening, and a second longitudinal axis;

a medial portion located at a middle section of the connector hub between said first end section and said second end section, said medial portion comprising a medial passage fluidly connected with said first passage and said second passage, and a medial longitudinal axis, wherein said medial longitudinal axis is arranged at an angle relative to said second longitudinal axis of said second portion; and

at least one insertion port located on said medial portion, wherein said insertion port comprises a first insertion port opening, an insertion port passage fluidly connected to said medial passage, and an insertion port longitudinal axis, wherein said first insertion port opening is hermetically sealed, and wherein said insertion port longitudinal axis is arranged at an angle relative to said medial longitudinal axis.