

Claims:

1. A vascular access device comprising:
 - a catheter adapter comprising a main body portion, an extension, and a catheter, wherein the main body portion comprises a proximal end and a distal end aligned with the proximal end, wherein the catheter extends distally from the distal end, wherein the extension extends outwardly from the main body portion and is disposed between the proximal end and the distal end, wherein the extension is constructed of a first material;
 - a stabilization platform extending outwardly from the catheter adapter, wherein the stabilization platform comprises a wing;
 - extension tubing having a distal end that inserts into and is secured within the extension; and
 - an interface coupled to a proximal-most surface of the extension and formed of a second material, wherein the second material is more flexible than the first material, wherein the extension tubing extends through and proximally from the interface, wherein the interface is an integral portion of the stabilization platform.
2. The vascular access device of claim 1, further comprising:
 - a stabilization platform having a first stabilization platform side that is coupled to the catheter adapter and extends outwardly from the main body portion.
3. The vascular access device of claim 2, wherein the interface is an integral part of the first stabilization platform side.
4. The vascular access device of claim 2, wherein the first stabilization platform side is molded around a portion of the extension.
5. The vascular access device of claim 1, wherein the interface:

extends around a portion of the extension; or
is molded to the extension.

6. The vascular access device of claim 2, wherein the first stabilization platform side and the extension are formed of the same flexible material.

7. The vascular access device of claim 1, wherein the first stabilization platform side extends outwardly from the main body portion farther than the extension.

8. The vascular access device of claim 1, further comprising:
an adapter coupled to a proximal end of the extension tubing; and
a flexible spacer having a proximal portion that is coupled to a distal end of the adapter and a distal portion that is positioned around the extension tubing.

9. The vascular access device of claim 8, wherein the flexible spacer is a separate component from the adapter.

10. The vascular access device of claim 8, wherein a distal opening of the adapter includes a chamfered surface.

11. The vascular access device of claim 10, wherein an inner diameter of the flexible spacer is substantially equal to a diameter at the distalmost portion of the chamfered surface.

12. The vascular access device of claim 8, further comprising:
a clamp having an opening through which the extension tubing extends to secure the clamp to the extension tubing, the opening having a diameter, and wherein an outer diameter of the flexible spacer is greater than the diameter of the opening to prevent the clamp from extending overtop the flexible spacer.

13. A vascular access device comprising:
a catheter adapter;
a luer adapter, comprising a chamfered surface;
extension tubing having a distal end coupled to the catheter adapter and a proximal end coupled to the luer adapter; and
a flexible spacer having a proximal portion that couples to a distal end of the luer adapter and a distal portion that is positioned around the extension tubing, wherein the luer adapter is disposed between the proximal portion of the flexible spacer and the extension tubing, wherein the distal portion of the flexible spacer is spaced apart from the extension tubing to form a space, wherein the chamfered surface of the luer adapter is proximate the space within the flexible spacer.
14. The vascular access device of claim 13, wherein a distal opening of the luer adapter includes the chamfered surface.
15. The vascular access device of claim 14, wherein an inner diameter of the proximal portion of the flexible spacer is substantially equal to an outer diameter of the luer adapter at the distalmost portion of the chamfered surface.
16. The vascular access device of claim 13, wherein the catheter adapter comprises a main body portion from which a catheter extends and an extension that extends outwardly from the main body portion, the distal end of the extension tubing inserting into the extension, the vascular access device further comprising:
an interface formed of a flexible material that is positioned in-line with the extension such that the extension tubing extends through the interface and into the extension
17. The vascular access device of claim 16, wherein the interface has a sleeve shape that encircles the extension tube.
18. The vascular access device of claim 16, further comprising:

a stabilization platform having a first stabilization platform side that is coupled to the catheter adapter and extends outwardly from the main body portion, wherein the interface is one of:

- an integral part of the first stabilization platform side; or
- a separate part from the first stabilization platform side.

19. The vascular access device of claim 18, wherein the interface extends beyond an edge of the first stabilization platform side.

20. A vascular access device comprising:

a catheter adapter comprising a main body portion, an extension, and a catheter, wherein the main body portion comprises a proximal end and a distal end aligned with the proximal end, wherein the catheter extends distally from the distal end, wherein the extension extends outwardly from the main body portion and is disposed between the proximal end and the distal end, wherein the extension is constructed of a first material;

extension tubing having a distal end that inserts into and is secured within the extension; luer adapter coupled to a proximal end of the extension tubing, wherein the luer adapter comprises a chamfered surface;

a first strain relief feature formed at a catheter adapter end of the extension tubing and a second strain relief feature formed at an adapter end of the extension tubing,

wherein the first and second strain relief feature are one of:

an interface coupled to a proximal most surface of the extension and formed of a second material, wherein the second material is more flexible than the first material, wherein the extension tubing extends through and proximally from the interface; or

a flexible spacer having a first end proximal portion, a distal portion, and a transition portion disposed between the proximal portion and the distal portion, wherein the proximal portion is coupled to a distal end of the luer adapter the extension or distal end of the adapter and a second end that the distal portion is positioned around the extension tubing, wherein the luer adapter is disposed between the proximal portion of the flexible spacer and the extension tubing,

wherein the proximal portion comprises a first inner diameter, wherein the distal portion comprises a second inner diameter, wherein the first inner diameter is greater than the second inner diameter,

wherein the second inner diameter of the distal portion of the flexible spacer is substantially equal to an outer diameter of the extension tubing; and

a space enclosed by the chamfered surface, the extension tubing, and the transition portion within the flexible spacer.