Claims

1. A catheter system, comprising:

a catheter adapter, comprising a proximal end, a distal end, and a lumen extending therebetween, wherein the catheter adapter further comprises a first slot, a first groove proximate the first slot, a second slot, and a second groove proximate a second slot, wherein the proximal end comprises a proximal face having a first opening for the first slot, a second opening for the second slot, and a proximal lumen opening disposed in between the first slot and the second slot, wherein the first slot and the second slot are configured to receive an extension via a snap-fit, wherein a body of the catheter adapter at the proximal face has a distance between the first opening and the proximal lumen opening that is uninterrupted, wherein the body of the catheter adapter at the proximal face has another distance between the second opening and the proximal lumen opening that is uninterrupted, wherein the first groove and the second groove comprise an adhesive, wherein the adhesive is configured to adhere a first cantilever arm and a second cantilever arm of the extension to the catheter adapter;

a septum disposed within the lumen and configured to receive an insertion feature of the extension, wherein the insertion feature actuates the septum to open a fluid path between the extension and the lumen;

a catheter extending distally from the distal end of the catheter adapter, wherein the catheter is configured to be inserted into vasculature of a patient, wherein the catheter comprises a longitudinal axis, wherein the catheter adapter is configured to be selectively coupled with a distal end of a needle shield;

an introducer needle extending through the proximal lumen opening and the catheter; and

a needle shield coupled to the catheter adapter, wherein the introducer needle is configured to be retracted proximally into the needle shield.

2. The catheter system of claim 1, wherein the catheter adapter comprises a stabilization platform.

3. The catheter system of claim 2, wherein the first slot and the second slot are disposed within the stabilization platform.

4. The catheter system of claim 3, wherein the proximal lumen opening is configured to receive the insertion feature of the extension, wherein the insertion feature is spaced apart from the first cantilever arm and the second cantilever arm by a plurality of separator elements that extend outwardly with respect to a longitudinal axis of the extension.

5. The catheter system of claim 8, wherein the extension further comprises an elongated tubular element disposed between the distal end and the proximal end of the extension.

6. The catheter system of claim 8, wherein the extension further comprises a grip portion disposed between the distal end and the proximal end of the extension, wherein the grip portion comprises one or more wings or one or more protrusions.

7. The catheter system of claim 1, wherein the adhesive is limited to the first groove and the second groove.

8. The catheter system of claim 1, further comprising the extension, wherein the extension includes a proximal end and a distal end, and wherein the distal end of the extension includes the first cantilever arm, the second cantilever arm, and the insertion feature.