CLAIMS

1. A catheter system comprising:

a catheter adapter comprising:

a catheter hub comprising a distal end and a proximal end and defining

a chamber extending between the distal end and the proximal end;

a catheter extending from the distal end of the catheter hub and in fluid communication with the chamber;

a stabilization platform;

a septum disposed within the chamber, wherein the septum comprises a distal wall, a proximal opening, a shoulder disposed between the distal wall and the proximal opening, a first extension extending proximally from the shoulder, and a first lumen extending from the distal wall through the proximal opening; and

a septum canister, comprising a wall, a second extension extending distally from the wall, a third extension extending proximally from the wall, and a wall opening in the wall, wherein the second extension defines a second lumen, wherein the third extension defines a third lumen, wherein the first extension is slidably received within the second lumen, wherein the shoulder abuts the second extension; and

a needle hub comprising:

a needle configured to slidably fit within the catheter, wherein the wall opening is configured to receive the needle a needle hub body anchored to a proximal end of the needle,

wherein in an insertion configuration, the proximal end of the catheter hub is removably coupled within a distal opening of the needle hub, and

wherein after placement of the catheter, the needle hub is retracted from the catheter adapter to slidably remove the needle from the catheter and to separate the needle hub from the catheter adapter.

2. The catheter system of claim 1, wherein the needle comprises an open bore in fluid communication with a chamber of the needle hub and wherein blood flows through the open bore to the chamber of the needle hub to provide a secondary blood flashback that indicates that the needle has entered a vasculature of a patient.

3. The catheter system of claim 1, wherein the stabilization platform further comprises a first wing comprising a generally planar shape to stably maintain the catheter adapter against a skin of a patient.

4. The catheter system of claim 1, wherein the stabilization platform further comprises a soft push tab configured to provide a grasping surface to manipulate and advance the catheter adapter.

5. The catheter system of claim 1, wherein the catheter hub further comprises a Y-port in fluid communication with the chamber of the catheter hub.

6. The catheter system of claim 1, wherein the needle hub further comprises a paddle grip extending from a distal end of the needle hub and configured to provide a grip surface to manipulate the needle hub.

7. The catheter system of claim 1, further comprising a needle safety configured protect against needle sticks by engaging a distal point of the needle as the needle is retracted from the catheter adapter.

8. A method of catheterization comprising:

providing a catheter system comprising;

a catheter adapter, comprising;

a catheter hub defining a chamber extending between a distal end and a proximal end;

a catheter extending from the distal end of the catheter hub and in fluid communication with the chamber; and

a stabilization platform;

a septum disposed within the chamber, wherein the septum comprises a distal wall, a proximal opening, a shoulder disposed between the distal wall and the proximal opening, a first extension extending proximally from the shoulder, and a first lumen extending from the distal wall through the proximal opening; and

a septum canister, comprising a wall, a second extension extending distally from the wall, a third extension extending proximally from the wall, and a wall opening in the wall, wherein the second extension defines a second lumen, wherein the third extension defines a third lumen, wherein the first extension is slidably received within the second lumen, wherein the shoulder abuts the second extension; and

a needle hub comprising a needle configured to slidably fit within the catheter and a needle hub body anchored to a proximal end of the needle, wherein the wall opening is configured to receive the needle

inserting the needle and catheter at a catheter insertion site;

advancing the needle and catheter at the catheter insertion site until a primary blood flashback is provided in the chamber of the catheter hub

securing the catheter at the catheter insertion site; and

retracting the needle hub from the catheter adapter to slidably remove the needle from the catheter and to separate the needle hub from the catheter adapter.

9. The method of claim 8, further comprising, advancing the needle and catheter at the catheter insertion site until a secondary blood flashback is provided in a chamber of the needle hub.

10. The method of claim 8, wherein securing the catheter further comprises securing the stabilization platform against skin proximate to the catheter insertion site.

11. The method of claim 8, further comprising engaging a needle safety on a distal point of the needle as the needle is retracted from the catheter adapter.

12. A catheter system comprising:

a catheter adapter comprising;

a catheter hub defining a chamber extending between a distal end and a proximal end of the catheter hub;

a catheter extending from the distal end of the catheter hub and in fluid communication with the chamber;

a stabilization platform comprising a first wing and a soft push tab;

a septum disposed within the chamber, wherein the septum comprises a distal wall, a proximal opening, and a first lumen extending from the distal wall through the proximal opening; and

a septum canister, comprising a wall, a proximal extension extending proximally from the wall and defining a second lumen, a wall opening in the wall, and a retaining ridge aligned with the wall and extending outwardly from the wall, wherein the wall forms a distal-most end of the septum canister, wherein the septum abuts the wall; and

a needle hub comprising a needle configured to slidably fit within the catheter and a needle hub body anchored to a proximal end of the needle, wherein the wall opening is configured to receive the needle

wherein in an insertion configuration, a proximal extension of the catheter hub is removably coupled within a distal opening of the needle hub, and

wherein after placement of the catheter, the needle hub is retracted from the catheter adapter to slidably remove the needle from the catheter and to separate the needle hub from the catheter adapter.

13. The catheter system of claim 12, wherein blood flows through an open bore of the needle to the chamber of the needle hub to provide a secondary blood flashback to indicate that the needle has entered a vasculature of a patient.

14. The catheter system of claim 12, further comprising a needle safety removably disposed within the proximal extension of the catheter hub and configured protect against needle sticks by engaging a distal point of the needle as the needle is retracted from the catheter adapter.