CLAIMS

1. A support device to support a catheter assembly, the support device comprising:

a platform having an upper surface and a bottom surface, wherein the bottom surface is configured to contact skin of a patient, wherein at least a portion of the upper surface is configured to support a catheter assembly;

an extension element coupled to the upper surface of the platform, wherein the extension element comprises:

a distal end, comprising a first connector configured to couple to the catheter assembly;

a proximal end, comprising a second connector; and

a valve disposed between the distal end and the proximal end, wherein the valve is movable between a first position and a second position; and

a cannula extending distally from the distal end of the extension element and secured within the extension element,

wherein in response to the valve being moved to the first position, a fluid pathway extending through the cannula and the extension element is open and straight, wherein in response to the valve being moved to the second position, the fluid pathway is closed, wherein the valve comprises a socket and an arm, wherein the arm comprises a distal end, a proximal end, and a lumen extending through the distal end of the arm and the proximal end of the arm, wherein the distal end of the arm comprises a ball portion configured to rotate within the socket, wherein the proximal end of the arm comprises the second connector.

2. The support device of claim 1, wherein an outer surface of the ball portion comprises a protrusion, wherein the socket comprises a slot, wherein the slot comprises a first end and a

second end, wherein in response to the valve being moved to the first position, the protrusion is disposed at the first end of the slot, wherein in response to the valve being moved to the second position, the protrusion is disposed at the second end of the slot.

3. The support device of claim 2, wherein the slot comprises a neck portion, wherein in response to the valve being moved to the first position, the protrusion passes through the neck portion and provides an audible indication.

4. The support device of claim 1, wherein the socket comprises a plurality of protrusions that contact an outer surface of the arm, wherein the plurality of protrusions are configured to provide resistance in moving the valve from the first position to the second position.

5. The support device of claim 1, wherein the cannula comprises a distal end, a proximal end, and a lumen extending there through, wherein the proximal end of the cannula comprises a wedge.

6. The support device of claim 1, wherein the cannula is swaged into the extension element.

7. The support device of claim 1, wherein the valve comprises a socket and an arm, wherein the arm comprises a distal end, a proximal end, and a lumen extending through the distal end of the arm and the proximal end of the arm, wherein the distal end of the arm comprises a generally cylindrical shape configured to rotate within the socket, wherein the socket is generally cylindrical, wherein the proximal end of the arm comprises the second connector.

8. The support device of claim 1, wherein an outer surface of the cannula comprises a protrusion.

9. The support device of claim 1, wherein the platform is wedge-shaped.

10. The support device of claim 1, wherein the portion of the upper surface comprises a groove configured to support a catheter adapter of the catheter assembly.

11. The support device of claim 1, wherein the first connector comprises a snap feature, wherein the snap feature comprises an arm, wherein the arm comprises a protrusion.

12. A support device to support a catheter assembly, the support device comprising:

a platform having an upper surface and a bottom surface, wherein the bottom surface is configured to contact skin of a patient, wherein at least a portion of the upper surface is configured to support a catheter assembly;

an extension element coupled to the upper surface of the platform, wherein the extension element comprises:

a distal end, comprising a first connector configured to couple to the catheter assembly;

a proximal end, comprising a second connector; and

a valve disposed between the distal end and the proximal end, wherein the valve is movable between a first position and a second position, wherein the valve comprises a socket and an arm, wherein the arm comprises a distal end, a proximal end, and a lumen extending through the distal end of the arm and the proximal end of the arm, wherein the distal end of the arm comprises a generally cylindrical shape configured to rotate within the socket, wherein the socket is generally cylindrical, wherein the proximal end of the arm comprises the second connector; and

a cannula extending distally from the distal end of the extension element and secured within the extension element,

wherein in response to the valve being moved to the first position, a fluid pathway extending through the cannula and the extension element is open and straight, wherein in response to the valve being moved to the second position, the fluid pathway is closed.

13. The support device of claim 12, wherein an outer surface of the arm comprises a protrusion, wherein the socket comprises a slot, wherein the slot comprises a first end and a second end, wherein in response to the valve being moved to the first position, the protrusion is disposed at the first end of the slot, wherein in response to the valve being moved to the second position, the protrusion is disposed at the second end of the slot.

14. The support device of claim 13, wherein the slot comprises a neck portion, wherein in response to the valve being moved to the first position, the protrusion passes through the neck portion and provides an audible indication.

15. The support device of claim 13, wherein the socket comprises a plurality of protrusions that contact an outer surface of the arm, wherein the plurality of protrusions are configured to provide resistance in moving the valve from the first position to the second position.

16. The support device of claim 12, wherein the cannula comprises a distal end, a proximal end, and a lumen extending there through, wherein the proximal end of the cannula comprises a wedge.

17. The support device of claim 12, wherein the cannula is swaged into the extension element.

18. The support device of claim 12, wherein the valve further comprises a handle disposed on an exterior surface of the valve, wherein in response to rotation of the handle a predetermined amount, the valve moves between the first position and the second position.

19. The support device of claim 12, wherein an outer surface of the cannula comprises a protrusion.

20. The support device of claim 12, wherein the platform is wedge-shaped.

21. The support device of claim 12, wherein the portion of the upper surface comprises a groove configured to support a catheter adapter of the catheter assembly.

22. The support device of claim 12, wherein the first connector comprises a snap feature, wherein the snap feature comprises an arm, wherein the arm of the snap feature comprises a protrusion.