

CLAIMS

1. ~~A catheter system, comprising:
a catheter adapter having a distal end, a proximal end axially aligned with the distal end,
and a lumen extending between the distal end and the proximal end;
a catheter extending distally from the distal end of the catheter adapter;
an extension tube having a distal end and a proximal end, wherein the distal end of the
extension tube is coupled to the proximal end of the catheter adapter; and
a connector coupled to the proximal end of the extension tube, wherein the connector, the
extension tube, the lumen, and the catheter form a straight pathway for delivery of an instrument
to the catheter system.~~
2. ~~The catheter system of claim 1, wherein the extension tube is rigid or semi-rigid.~~
3. ~~The catheter system of claim 1, wherein the distal end of the extension tube is coupled to
the proximal end of the catheter adapter via a luer adapter, wherein the luer adapter is selectively
coupled to a corresponding luer adapter disposed on the proximal end of the catheter adapter.~~
4. ~~The catheter system of claim 1, wherein the distal end of the extension tube is fixedly
coupled to the proximal end of the catheter adapter.~~
5. ~~The catheter system of claim 1, wherein the extension tube is a first extension tube, wherein
the catheter system further comprises a second extension tube coupled to the first extension tube,
wherein the second extension tube is disposed at an angle with respect to the first extension tube.~~
6. ~~The catheter system of claim 5, wherein a hardness of the first extension tube is greater
than a hardness of the second extension tube.~~

- ~~7. The catheter system of claim 5, wherein the connector comprises a Y adapter having a first port and a second port, wherein the first port is configured to couple with an instrument delivery device, wherein the second extension tube extends from a second port of the Y adapter.~~
- ~~8. The catheter system of claim 1, further comprising a stabilization feature disposed between the connector and the distal end of the extension tube.~~
- ~~9. The catheter system of claim 8, wherein the stabilization feature comprises a platform, wherein the platform comprises an adhesive layer configured to contact skin of a patient.~~
- ~~10. The catheter system of claim 8, further comprising fabric coupled to the stabilization feature and extending outwardly from the stabilization feature, wherein the fabric comprises an adhesive layer configured to contact skin of a patient.~~
- ~~11. The catheter system of claim 8, wherein the stabilization feature rotates on the extension tube about a longitudinal axis of the extension tube.~~
- ~~12. The catheter system of claim 8, wherein the extension tube extends through the stabilization feature, wherein the stabilization feature is fixed with respect to the extension tube.~~
- ~~13. The catheter system of claim 1, wherein the connector comprises a blood control septum.~~
- ~~14. The catheter system of claim 1, wherein the connector is removably coupled to the proximal end of the extension tube.~~
- ~~15. The catheter system of claim 1, wherein the connector is fixedly coupled to the proximal end of the extension tube.~~
- ~~16. An extension set for a catheter assembly, comprising:
an extension tube having a distal end and a proximal end, wherein the distal end of the extension tube is configured to couple to the proximal end of the catheter adapter; and
a first connector coupled to the proximal end of the extension tube; and~~

~~a second connector coupled to the distal end of the extension tube, wherein the first and second connectors and the extension tube form a straight pathway for delivery of an instrument to the catheter system, wherein the straight pathway is configured to align with a longitudinal axis of the catheter assembly.~~

~~17. The extension set of claim 16, wherein the extension tube is rigid or semi-rigid.~~

~~18. The extension set of claim 16, wherein the extension tube is a first extension tube, wherein the catheter system further comprises a second extension tube coupled to the first extension tube, wherein the second extension tube is disposed at an angle with respect to the first extension tube.~~

~~19. The catheter system of claim 5, wherein a hardness of the first extension tube is greater than a hardness of the second extension tube.~~

~~20. The catheter system of claim 1, further comprising a stabilization feature disposed between the connector and the distal end of the extension tube.~~

CLAIMS

1. A catheter system, comprising:
a catheter adapter having a distal end, a proximal end axially aligned with the distal end,
and a lumen extending between the distal end and the proximal end;
a catheter extending distally from the distal end of the catheter adapter;
an extension tube having a distal end and a proximal end, wherein the distal end of the
extension tube is coupled to the proximal end of the catheter adapter;
a first connector coupled to the proximal end of the extension tube, and a second connector
coupled to the distal end of the extension tube, wherein the first connector, the second connector,
the extension tube, the lumen, and the catheter form a straight pathway for delivery of an instrument
to the catheter system; and
a stabilization feature having a first platform connected to a second platform via a bridge
positioned perpendicular to a longitudinal axis of the catheter, the bridge comprising a ring
extending from an upper surface of the bridge and configured to receive the second connector, the
bridge comprising a groove having a proximal end and a distal end, wherein a thickness of the
bridge at the proximal end of the groove is greater than a thickness of the bridge at the distal end
of the groove.
2. The catheter system of claim 1, wherein the extension tube is rigid or semi-rigid.
3. The catheter system of claim 1, wherein the distal end of the extension tube is
coupled to the proximal end of the catheter adapter via a luer adapter, wherein the luer adapter is
selectively coupled to a corresponding luer adapter disposed on the proximal end of the catheter
adapter.
4. The catheter system of claim 1, wherein the distal end of the extension tube is
fixedly coupled to the proximal end of the catheter adapter.
5. The catheter system of claim 1, wherein the extension tube is a first extension tube,
wherein the catheter system further comprises a second extension tube coupled to the first extension
tube, wherein the second extension tube is disposed at an angle with respect to the first extension
tube.
6. The catheter system of claim 5, wherein a hardness of the first extension tube is
greater than a hardness of the second extension tube.
7. The catheter system of claim 5, wherein the connector comprises a Y-adapter having
a first port and a second port, wherein the first port is configured to couple with an instrument
delivery device, wherein the second extension tube extends from a second port of the Y-adapter.

8. The catheter system of claim 1, wherein the ring forms a horizontal pathway through the bridge.
9. The catheter system of claim 1, wherein at least one of the first platform and the second platform comprises an adhesive layer configured to contact skin of a patient.
10. The catheter system of claim 1, further comprising fabric coupled to the stabilization feature and extending outwardly from the stabilization feature, wherein the fabric comprises an adhesive layer configured to contact skin of a patient.
11. The catheter system of claim 1, wherein the stabilization feature rotates on the extension tube about a longitudinal axis of the extension tube.
12. The catheter system of claim 1, wherein the extension tube extends through the stabilization feature, wherein the stabilization feature is fixed with respect to the extension tube.
13. The catheter system of claim 1, wherein the first connector comprises a blood control septum.
14. The catheter system of claim 1, wherein the first connector is removably coupled to the proximal end of the extension tube.
15. The catheter system of claim 1, wherein the first connector is fixedly coupled to the proximal end of the extension tube.
16. The catheter system of claim 1, wherein the proximal end of the groove is in contact with the ring.
17. The catheter system of claim 1, wherein the distal end of the groove is in proximity to the distal end of the bridge.
18. The catheter system of claim 1, wherein the groove supports the second connector at an insertion angle of the catheter.
19. The catheter system of claim 18, wherein the insertion angle of the catheter is between 0° and 40°.
20. The catheter system of claim 1, wherein the second connector is configured to

extend into or through the ring.