

CLAIMS

1. A catheter assembly to apply traction to a catheter, comprising:
a catheter adapter comprising a proximal end, a distal end, and a lumen extending along a longitudinal axis therebetween;
a catheter extending from the distal end of the catheter adapter; and
a dressing to apply traction to the catheter in response to the catheter being disposed within a vasculature of a patient, the dressing comprising a first section adjustably coupled to a second section, wherein the first section is configured to secure at least one of the catheter adapter and the catheter to the patient, and wherein the second section is configured to be adjustably secured relative to the first section to apply traction to the catheter within the vasculature.
2. The catheter assembly of claim 1, wherein the first section and the second section are independent of each other.
3. The catheter assembly of claim 1, wherein the first section comprises an aperture to receive at least a portion of at least one of the catheter adapter and the catheter.
4. The catheter assembly of claim 1, wherein the first section comprises an adhesive to secure at least one of the catheter adapter and the catheter relative to the patient.
5. The catheter assembly of claim 1, wherein the second section is further configured to be secured relative to the patient.
6. The catheter assembly of claim 1, further comprising an adjustment element to adjustably couple the first section to the second section.
7. The catheter assembly of claim 6, wherein the adjustment element is releasable to decouple the first section and the second section.

8. The catheter assembly of claim 6, wherein the adjustment element comprises at least one tether comprising a first end coupled to the first section and a second end coupled to the second section, wherein each of the at least one tether is configured to be selectively tightened to apply traction to the catheter.

9. The catheter assembly of claim 6, wherein the adjustment element comprises a first finger grip coupled to at least one of the first section and the catheter adapter and a second finger grip coupled to the second section such that the second section is configured to be manually adjusted relative to the first section to apply traction to the catheter.

10. The catheter assembly of claim 1, wherein the adjustment element comprises at least one arm extending between the first section and the second section, wherein manipulating a position of the at least one arm adjusts a distance between the first section and the second section to apply traction to the catheter.

11. The catheter assembly of claim 10, further comprising a lock element to secure the distance between the first section and the second section to maintain traction on the catheter.

12. The catheter assembly of claim 11, wherein the lock element mechanically engages at least a portion of the at least one arm to maintain traction on the catheter.

13. The catheter assembly of claim 10, wherein the at least one arm comprises at least one joint such that depressing the arm inwardly towards the longitudinal axis applies traction to the catheter.

14. The catheter assembly of claim 10, wherein the at least one arm comprises a switch portion movably coupled to an extension portion, wherein moving the switch portion in a direction parallel to the longitudinal axis and away from the first section shortens the distance between the first section and the second section to apply traction to the catheter.

15. The catheter assembly of claim 10, wherein the adjustment element comprises a dial feature coupled to the at least one arm such that rotating the dial feature adjusts a distance between the first section and the second section to apply traction to the catheter.

16. A catheter assembly to apply traction to a catheter, comprising:

a catheter adapter comprising a proximal end, a distal end, and a lumen extending along a longitudinal axis therebetween;

a catheter extending from the distal end of the catheter adapter, the catheter configured to be disposed in a vasculature of a patient; and

a stabilizer element configured to slidably engage the catheter adapter element, the stabilizer element comprising at least one track disposed substantially parallel to the longitudinal axis such that the stabilizer element maintains a lateral position of the catheter adapter in response to the catheter adapter sliding in a direction parallel to the longitudinal axis along the at least one track.

17. The catheter assembly of claim 16, wherein the catheter adapter comprises at least one engagement feature extending parallel to the longitudinal axis, wherein the at least one engagement feature slidably engages the at least one track.

18. The catheter assembly of claim 16, wherein the stabilizer element is configured to adjust an angle of the catheter adapter relative to the patient to apply traction to the catheter within the vasculature.

19. A catheter assembly to apply traction to a catheter, comprising:

a catheter adapter comprising a proximal end, a distal end, and a lumen extending along a longitudinal axis therebetween;

a catheter extending from the distal end of the catheter adapter, the catheter configured to be disposed within a vasculature of a patient;

a dressing configured to secure the catheter adapter relative to the patient, the dressing comprising a stabilizer element to retain the catheter adapter and an incline mechanism configured to adjust an angle of the catheter adapter relative to the stabilizer element to apply traction to the catheter within the vasculature.

20. The catheter assembly of claim 19, wherein the incline mechanism comprises a flexible linkage element configured to enable manual adjustment of the angle of the catheter adapter relative to the stabilizer element.