CLAIMS

I claim:

1. A system for supporting a medical device, the system comprising:

a stabilizing base comprising:

a plurality of legs;

a platform attached to the plurality of legs;

a stabilizing system for receiving the medical device, wherein the stabilizing system is removably attachable to the platform; and

wherein one or more of the plurality of legs is adjustable to change one or more of a vertical, horizontal, and angular position of the platform.

2. The system of claim 1, wherein one or more of the plurality of legs comprise an outer portion and an inner portion movably disposed within said outer portion.

3. The system of claim 1, further comprising a first plate and a second plate, wherein the first plate and the second plate are parallel to one another and extend vertically downward from the platform on either side of the platform.

4. The system of claim 3, further comprising a knob mechanism that extends through at least one of the first plate and the second plate.

5. The system of claim 1, further comprising a mechanism to control the height of one or more of the plurality of legs.

6. The system of claim 1, wherein the stabilizing system is a rail system for receiving the medical device, wherein the rail system is removably attachable to the platform.

7. The system of claim 1, wherein the medical device is a delivery system couplable to the stabilizing system, and the system includes the delivery system.

8. The system of claim 1, wherein the plurality of legs comprises a first pair of legs and a second pair of legs.

9. The system of claim 8, wherein the first pair of legs and the second pair of legs are foldable between a stowed position and a deployed position.

10. The system of claim 9, further comprising a first strut for retaining the first pair of legs in the deployed position and a second strut for retaining the second pair of legs in the deployed position, wherein the first strut and the second strut are slideably attached to the platform and can be released to facilitate folding of the first and second pairs of legs from the deployed to the stowed position.

11. The system of claim 8, further comprising a first height adjustment knob for adjusting the height of the legs of the first pair of legs and a second height adjustment knob for adjusting the height of the legs of the second pair of legs.

12. The system of claim 8 further comprising:

a first height adjustment knob, a second height adjustment knob, an actuation shaft, a pair of drive gears, a pair of driven gears, and a pair of extension shafts;

extendable portions of each support leg are attached to the extension shafts;

wherein the drive gears are fixedly attached to the actuation shaft and the driven gears are fixedly attached to the extension shafts; and

wherein rotating one of the first height adjustment knob and the second height adjustment knob rotates both of the extension shafts via the drive gears and driven gears to increase and decrease the height of the legs.

13. The system of claim 8, wherein the platform can be tilted by adjusting the height of the first pair of support legs to a lower height than the height of the second pair of legs.

14. The system of claim 9, further comprising a retaining member for retaining each of the plurality of legs in the stowed position.

15. The system of claim 14, wherein the retaining member is attached to a bottom cover of the platform.

16. A system for supporting a medical device, the system comprising:

a stabilizing base comprising:

a first pair of legs;

a second pair of legs;

a platform attached to the first pair of legs and the second pair of legs;

wherein each leg of the first pair of legs and the second pair of legs comprises an outer portion and an inner portion movably disposed within said outer portion;

a first knob coupled to the first pair of legs configured to adjust the height of the first pair of legs;

a second knob coupled to the second pair of legs configured to adjust the height of the second pair of legs;

wherein the first pair of legs are pivotable between a stowed position and a deployed position;

wherein the second pair of legs are pivotable between a stowed position and a deployed position;

a stabilizing system for receiving the medical device, wherein the stabilizing system is removably attachable to the platform; and

wherein the height of the first pair of legs and the height of the second pair of legs are each in independently adjustable to change a vertical position of the platform, a horizontal position of the platform, and angular position of the platform.

17. The system of claim 16, further comprising a first strut for retaining the first pair of legs in the deployed position and a second strut for retaining the second pair of legs in the deployed position, wherein the first strut and the second strut are slideably attached to the platform and can be released to facilitate folding of the first and second pairs of legs from the deployed to the stowed position.

18. The system of claim 16, wherein each of the first pair of legs and the second pair of legs comprise:

an actuation shaft, a pair of drive gears, a pair of driven gears, and a pair of extension shafts;

extendable portions of each support leg are attached to the extension shafts;

wherein the drive gears are fixedly attached to the actuation shaft and the driven gears are fixedly attached to the extension shafts; and

wherein rotating one of the first knob and the second knob rotates both of the extension shafts via the drive gears and driven gears to increase and decrease the height of the legs.

19. The system of claim 16, wherein the platform can be tilted by adjusting the height of the first pair of support legs to a lower height than the height of the second pair of legs.

20. A system for supporting a medical device, the system comprising:

a stabilizing base comprising:

an arm;

a mount configured to attach the arm to an operating table; and

a stabilizing system for receiving the medical device, wherein the stabilizing system is removably attached to the arm, and wherein the vertical, horizontal, and radial position of the stabilizing system is adjustable relative to the mount.

21. A system comprising:

a stabilizing mat comprising:

a first ridge and a second ridge;

a channel between the first ridge and the second ridge; and

a catheter assembly positionable in the channel.