CLAIMS

1. A catheter assembly, comprising:

a catheter adapter, comprising a proximal end, a distal end, and a lumen extending therebetween, wherein the distal end comprises a catheter configured to be inserted into vasculature of a patient;

a septum disposed within the lumen; and

a septum securement element, wherein the septum securement element is disposed proximal to a distal end of the septum, wherein the septum securement element is configured to secure the septum in response to a proximal force on the septum, wherein the septum securement element comprises a septum stopper, wherein the septum stopper extends through a wall of the catheter adapter, wherein the septum stopper comprises a cylindrical bottom portion and a head, wherein the head has a greater diameter than the cylindrical bottom portion.

2. The catheter assembly of claim 1, wherein the septum stopper extends through a stopper hole in the wall of the catheter adapter, wherein the stopper hole includes an outer portion having a shape corresponding to the head and an inner portion having a shape corresponding to the cylindrical bottom portion.

3. The catheter assembly of claim 1, wherein the septum stopper is a first septum stopper, further comprising a second septum stopper, wherein in the first septum stopper and the second septum stopper oppose each other.

4. The catheter assembly of claim 1, wherein the septum comprises a groove, wherein the septum stopper extends through the wall of the catheter adapter into the groove of the septum, wherein the groove comprises an adhesive.

5. The catheter assembly of claim 4, wherein the groove of the septum is annular.