The invention claimed is:

1. A vascular access system, the vascular access system comprising:

a vascular access device comprising a catheter extending from a distal end of the vascular access device; and

an obturator, comprising:

a catheter portion, wherein when the obturator is secured to the vascular access device, the catheter portion extends through a lumen of the vascular access device and into a proximal end of the catheter of the vascular access device, wherein the catheter portion includes a first outer diameter;

a middle portion positioned within the lumen of the vascular access device when the obturator is secured to the vascular access device, wherein the middle portion includes a second outer diameter;

a base portion that seals the lumen when the obturator is secured to the vascular access device, wherein the base portion includes a third outer diameter, wherein the second outer diameter is less than the third outer diameter and greater than the first outer diameter, wherein the base portion is inserted into the lumen of the vascular access device;

an antimicrobial ring positioned around the middle portion and configured to release an antimicrobial agent, wherein the antimicrobial ring is configured to be positioned within the lumen while the catheter portion is inserted into the catheter, wherein the antimicrobial agent is contained within a material of the antimicrobial ring or on a surface of the material, wherein an inner diameter of the antimicrobial ring is approximately equal to the second outer diameter, wherein an outer diameter of the antimicrobial ring is less than the third outer diameter; and

a cap portion configured to secure the obturator to the vascular access device.

2. The vascular access system of claim **1**, wherein the catheter portion includes an antimicrobial coating, wherein antimicrobial coating comprises a dissolvable coating.

3. The vascular access system of claim **2**, wherein the antimicrobial coating comprises a base material matrix that elutes the antimicrobial agent.

4. The vascular access system of claim **3**, wherein the base material matrix is cured onto the catheter portion.

5. The vascular access system of claim **2**, wherein the antimicrobial coating is contained on a length of the catheter portion that is positioned within the catheter.

6. The vascular access system of claim **5**, wherein the length of the catheter portion also extends into the lumen of the vascular access device.

7. The vascular access system of claim **1**, wherein the third outer diameter is substantially the same as the diameter of the lumen of the vascular access device.

8. An obturator for a vascular access device, the obturator comprising:

a catheter portion configured to be inserted through a lumen of the vascular access device and into a proximal end of a catheter of the vascular access device while the catheter is placed intravenously within a patient, wherein the catheter portion includes a first outer diameter, wherein the catheter portion further includes an antimicrobial component configured to release an antimicrobial agent into fluid contained within the vascular access device;

a middle portion configured to be positioned within the lumen of the vascular access device while the catheter portion is inserted into the catheter, wherein the middle portion includes a second outer diameter that is constant along at least a portion of the middle portion, wherein a distal end of the middle portion proximate the catheter portion is tapered;

a base portion that seals the lumen when the obturator is secured to the vascular access device, wherein the base portion includes a third outer diameter, wherein the second outer diameter is less than the third outer diameter and greater than the first outer diameter, wherein the base portion is inserted into the lumen of the vascular access device, wherein the base portion is

inserted into the lumen of the vascular access device, wherein a distal end of the base portion proximate the middle portion is tapered;

a cap portion proximal to the base portion and configured to secure the obturator to the vascular access device;

a ring positioned around the middle portion, wherein the ring is configured to be positioned within the lumen while the catheter portion is inserted into the catheter; and

an antimicrobial coating disposed on a surface of the ring.

9. The obturator of claim **8**, wherein the ring comprises a base material matrix that elutes the antimicrobial agent.

10. The obturator of claim **9**, wherein the base material matrix forms the antimicrobial coating on the surface of the ring.

11. The obturator of claim **8**, wherein the antimicrobial component includes an antimicrobial coating configured to release the antimicrobial agent into the fluid contained within the vascular access device.

12. The obturator of claim **11**, wherein the antimicrobial coating is dissolvable.

13. The obturator of claim **11**, wherein the antimicrobial coating comprises a base material matrix that elutes the antimicrobial agent.

14. The obturator of claim **8**, further comprising:

a base portion having a diameter substantially the same as the diameter of the lumen, the base portion configured to seal the lumen when the obturator is secured to the vascular access device.