

CLAIMS

1. A catheter assembly, comprising:
 - a cannula, wherein the cannula comprises a distal tip, an elongated tubular shaft, and an inner lumen formed by the elongated tubular shaft, wherein a first portion of the elongated tubular shaft has a first outer diameter, wherein a second portion of the elongated tubular shaft has a second outer diameter, wherein the second outer diameter is greater than the first outer diameter, wherein the first portion is proximate the distal tip; and
 - a catheter adapter, wherein the catheter adapter comprises a catheter and a catheter hub, wherein the second portion is at least partially disposed within the catheter hub, wherein a distal end of the second portion is disposed within the catheter.
2. The catheter assembly of claim 1, wherein the second portion includes more than ten percent of the length of the cannula.
3. The catheter assembly of claim 1 or claim 2, wherein the second portion includes between forty and sixty percent of the length of the cannula.
4. The catheter assembly of any one of the preceding claims, further comprising a cannula shield, wherein the second portion is coupled with the cannula shield.
5. The catheter assembly of claim 3, wherein a proximal end of the first portion is disposed within the catheter hub.
6. The catheter assembly of claim 4, wherein at least a portion of the first portion of the elongated tubing is disposed within the catheter.
7. The catheter assembly of any one of the preceding claims, wherein the second outer diameter is at least three gauge sizes larger than the first outer diameter.
8. The catheter assembly of claim 6, wherein the first outer diameter corresponds to an outer diameter of a 14 gauge (1.63 mm) needle, a 28 gauge (0.32 mm) needle, or a needle with a gauge size in between a 14 gauge (1.63 mm) needle and a 28 gauge (0.32 mm) needle.