

CLAIMS

1. A catheter assembly comprising:
 - a catheter adapter body, the catheter adapter body comprising:
 - a proximal end;
 - a distal end;
 - an inferior surface;
 - a superior surface, wherein the superior surface comprises an uppermost surface of the catheter assembly and is fixed with respect to the inferior surface, the distal end of the catheter adapter body and the proximal end of the catheter adapter body extending between the superior surface and the inferior surface; and
 - a catheter adapter channel formed within the catheter adapter body and having a linear axis extending from the superior surface through the distal end of the catheter adapter body;and
 - a catheter comprising:
 - a proximal end;
 - a distal end; and
 - a catheter lumen extending between the proximal and distal ends of the catheter, wherein:
 - the proximal end of the catheter is coupled to the catheter adapter body such that the catheter lumen is in fluid communication with the catheter adapter channel;
 - and
 - an angle formed between the inferior surface of the catheter adapter body and a first longitudinal axis of the catheter adapter channel is greater than 4 degrees.
2. The catheter assembly of claim 1, wherein:
 - the catheter adapter body comprises a second longitudinal axis extending between the proximal and distal ends of the catheter adapter body; and
 - an angle formed between the first and second longitudinal axes is greater than 10 degrees.
3. The catheter assembly of claim 2, wherein the angle formed between the first and second longitudinal axes is between 10 degrees and 90 degrees.

4. The catheter assembly of claim 3, wherein the angle formed between the first and second longitudinal axes is 30 degrees.
5. The catheter assembly of claim 1, wherein at least a portion of the catheter lumen proximate the catheter adapter body is coaxial with the catheter adapter channel formed within the catheter adapter body.
6. The catheter assembly of claim 1, further comprising a septum coupled to the catheter adapter body adjacent the catheter adapter channel, wherein the septum comprises one of:
 - a single component septum; and
 - a multi-component septum.
7. The catheter assembly of claim 1, wherein the catheter adapter body further comprises an access port in fluid communication with the catheter adapter channel.