

CLAIMS

1. A catheter, comprising:

a catheter body, wherein the catheter body comprises a proximal end, a distal end, and a lumen formed by an inner wall of the catheter body that extends between the proximal end and the distal end along a longitudinal axis, wherein the distal end comprises:

a distal lumen opening disposed on the longitudinal axis; and

a beveled leading edge forming a distalmost surface of the catheter body and having no more than one opening extending therethrough, wherein the beveled leading edge forms the distal lumen opening, wherein the beveled leading edge comprises an upper portion and a lower portion, wherein the upper portion and the lower portion are disposed on opposite sides of the distal lumen opening, wherein the lower portion is disposed distal to the upper portion; and

a fluid flow path extending from the beveled leading edge through a proximal end of the catheter body, wherein the inner wall of the catheter body comprises a land portion at least proximate the beveled leading edge, wherein a cross-section of the land portion is configured in a shape of a parallelogram, wherein the inner wall of the catheter body further comprises a shoulder proximate to the land portion, wherein a portion of the inner wall corresponding to an upper edge of the shoulder is angled with respect to the longitudinal axis, wherein a portion of the inner wall corresponding to a lower edge of the shoulder is angled with respect to the longitudinal axis, wherein a distal end of the upper edge of the shoulder is offset from a distal end of the lower edge of the shoulder.

2. The peripheral catheter of claim 1~~3~~, wherein an outer wall of the catheter body comprises a tapered portion, wherein the tapered portion is disposed at least proximate the beveled leading edge.
3. The peripheral catheter of claim ~~14~~2, an upper side of the tapered portion includes one or more flow holes, wherein the one or more flow holes are in communication with the lumen, wherein the one or more flow holes each include a passage way having an inner wall surface defining a first plane, wherein an orientation of the first plane to the longitudinal axis is acute.
4. The peripheral catheter system of claim 1, wherein the beveled leading edge is beveled between thirty degrees and eighty degrees with respect to the longitudinal axis.
5. The peripheral catheter system of claim 1, wherein an outer wall of the catheter body comprises a tapered portion and an untapered portion, wherein the tapered portion is disposed at least proximate the beveled leading edge.
6. The peripheral catheter system of claim 5, wherein the tapered portion tapers inwardly at an angle between two and thirty degrees with respect to the longitudinal axis.
7. The peripheral catheter system of claim 5, wherein an upper side of the tapered portion includes a flow hole, wherein the flow hole is in communication with the lumen, wherein the flow hole includes a passage way having an inner wall surface defining a first plane, wherein an orientation of the first plane to the longitudinal axis is acute.
8. The peripheral catheter system of claim 7, wherein the orientation of the first plane to the longitudinal axis is forty-five degrees.