CLAIMS

1. A catheter system, comprising:

a y-adapter, comprising a distal end, dual ports, and a lumen extending through the distal end and the dual ports;

an extension tubing extending from the distal end of the y-adapter and comprising a proximal end, wherein the proximal end of the extension tubing is integrated with the distal end of the y-adapter, wherein an inner diameter of the extension tubing is greater than an inner diameter of the lumen proximate the proximal end of the extension tubing to facilitate passage of a probe through the catheter system.

2. The catheter system of claim 1, further comprising:

a catheter for insertion into a biological site;

a catheter adapter comprising a catheter hub and a side port coupled to the catheter hub, the catheter hub comprising a distal end coupled to the catheter, a proximal end opposite the distal end, and an internal wall defining an internal fluid passageway therebetween, wherein the side port comprises another wall defining a lumen in fluid communication with the internal fluid passageway, wherein the extension tubing comprises a distal end integrated with the side port.

3. The catheter system of claim 2, wherein an inner diameter of the side port proximate the distal end of the extension tubing is greater than the inner diameter of the extension tubing.

4. The catheter system of claim 2, wherein a contact angle of the probe entering the catheter hub and contacting the internal wall from the side port is between 90 degrees and 180 degrees.

5. The catheter system of claim 2, wherein the other internal wall of the lumen of the side port comprises a distal surface and a proximal surface opposite the distal surface, wherein the side port further comprises a protrusion extending outwardly from the proximal surface, wherein the protrusion is configured to deflect the probe entering the catheter hub from the side port towards the distal end of the catheter hub such that the probe contacts the internal wall at a contact angle between 90 degrees and 180 degrees.
6. A catheter system, comprising:

a catheter for insertion into a biological site;

a catheter adapter comprising a catheter hub and a side port coupled to the catheter hub, the catheter hub comprising a distal end coupled to the catheter, a proximal end opposite the distal end, and an internal wall defining an internal fluid passageway therebetween, wherein the side port comprises another wall defining a lumen in fluid communication with the internal fluid passageway;

a catheter wedge anchoring the catheter within the catheter adapter, wherein the catheter wedge comprises an internal wall also defining the internal fluid passageway, wherein the internal wall comprises a concave surface configured to contact a probe entering the catheter hub from the side port towards the distal end of the catheter hub.