CLAIMS:

1. An intravenous therapy system, comprising:

a hub section, comprising a top and a bottom opposite the top, wherein the bottom is configured to be proximate skin of a patient when the intravenous therapy system is inserted into a blood vessel, wherein the top of the hub section comprises a tab extending in an upward direction;

a curved needle comprising a curve having a distal end of the curve spaced apart from a proximal end of the curve, wherein the proximal end of the curve is proximate a straight proximal end of the curved needle, wherein the curve is between 5 and 15 degrees with respect to the straight proximal end of the curved needle, wherein the curve is curved towards the upward direction; and

a curved catheter, wherein the curved needle extends through the curved catheter;

wherein, in response to insertion of a first length of the curved needle and a first length of the curved catheter into a patient's body, a curvature angle of the curved needle and the curved catheter causes the curved needle and the curved catheter to intersect axially with a blood vessel in the patient's body, wherein the curvature angle of the needle and the catheter is between 5 and 15 degrees.

2. The intravenous therapy system of claim 1, wherein the first length of the curved needle is longer than the first length of the curved catheter.

3. The intravenous therapy system of claim 1, the curved needle further comprising a bevel formed at a distal end of the curved needle, wherein an edge of the bevel is formed to face towards a center point of a curvature of the curved needle.

4. The intravenous therapy system of claim 1, wherein in response to insertion of a second length of the curved needle and a second length of the curved catheter into a patient's body, the curved needle and the curved catheter are parallel with the blood vessel.

5. The intravenous therapy system of claim 1, wherein the curved catheter is made of a polymer and thermoformed onto the curved needle.

6. The intravenous therapy system of claim 1, wherein a curvature of the curved needle and a curvature of the curved catheter are created subsequent to a straight needle being formed around a straight catheter.

7. The intravenous therapy system of claim 1, wherein in response to complete insertion of the curved needle and curved catheter, a bevel of the needle is prevented from being pressed against a wall of the blood vessel.