WHAT IS CLAIMED IS:

1. An instrument delivery device, comprising:

a housing, comprising a proximal end, a distal end, and a slot;

an advancement element extending through the slot and configured to move linearly along the slot;

a guidewire comprising a first end and a second end, wherein in response to movement of the advancement element distally a first distance along the slot, the second end of the guidewire is configured to advance a second distance, wherein the second distance at least twice the first distance; and

a tubing comprising a distal end and a proximal end, wherein in response to movement of the advancement element distally the first distance along the slot, the proximal end of the tubing is configured to advance the first distance.

2. The instrument delivery device of claim 1, wherein the proximal end of the tubing is coupled to the advancement element.

3. The instrument delivery device of claim 1, further comprising an extension tube coupled to the advancement element, wherein a blood collection pathway extends through the tube, the advancement element, and the extension tube.

4. The instrument delivery device of claim 3, further comprising a seal disposed within the advancement element and preventing fluid communication between the blood collection pathway and a portion of a guidewire pathway.

5. The instrument delivery device of claim 1, wherein the advancement element comprises an arc-shaped channel, wherein the guidewire moves within the arc-shaped channel, wherein the first end of the guidewire is secured within the housing.

6. The instrument delivery device of claim 1, wherein in response to movement of the advancement element distally the first distance along the slot, the second end of the guidewire and the distal end of the tubing move from inside the housing to outside of the housing.

7. The instrument delivery device of claim 1, wherein a distal end of the housing comprises a distal connector, wherein in response to the advancement element being disposed at a proximal end of the slot, the second end of the guidewire and the distal end of the tubing are aligned with a distal end of the distal connector.

8. The instrument delivery device of claim 1, wherein a distal end of the housing comprises a distal connector, wherein in response to the advancement element being disposed at a proximal end of the slot, the second end of the guidewire and the distal end of the tubing are proximal to a distal end of the distal connector.

9. The instrument delivery device of claim 1, wherein an inner surface of the housing comprises a groove disposed between the proximal end of the housing and the distal end of the housing, wherein the guidewire and the tubing are disposed within the groove.

10. An instrument delivery device, comprising:

a housing, comprising a proximal end, a distal end, and a slot;

a first advancement element extending through the slot and configured to move linearly along the slot;

a second advancement element extending through the slot and configured to move linearly along the slot;

a guidewire comprising a first end and a second end, wherein in response to movement of the first advancement element distally a first distance along the slot, the second end of the guidewire is configured to advance a second distance, wherein the second distance is at least twice the first distance; and

a tubing comprising a distal end and a proximal end, wherein in response to movement of the second advancement element distally the first distance along the slot, the distal end of the tubing is configured to advance the first distance.

11. The instrument delivery device of claim 10, wherein the proximal end of the tubing is coupled to the second advancement element.

12. The instrument delivery device of claim 10, further comprising another tubing coupled to the second advancement element, wherein a blood collection pathway extends through the tubing, the second advancement element, and the other tubing.

13. The instrument delivery device of claim 10, further comprising a seal disposed within the second advancement element and preventing fluid communication between the blood collection pathway and a portion of a guidewire pathway, wherein the instrument extends through the seal.

14. The instrument delivery device of claim 10, wherein the first advancement element comprises an arc-shaped channel, wherein the guidewire moves within the arc-shaped channel, wherein the first end of the guidewire is secured within the housing.

15. The instrument delivery device of claim 10, wherein the second advancement element is distal to the first advancement element.

16. The instrument delivery device of claim 10, wherein in response to movement of the first advancement element distally the first distance along the slot, the second end of the guidewire and the distal end of the tubing move from inside the housing to outside of the housing.

17. An instrument delivery device, comprising:

a housing, comprising a distal end, a proximal end, and a slot disposed between the distal end and the proximal end, wherein the distal end is configured to couple to an intravenous catheter device;

a tubing, comprising a distal end and a proximal end;

an advancement element through the slot and configured to move linearly along the slot, wherein the advancement element is coupled to the proximal end of the tubing, wherein in response to movement of the advancement element distally a first distance along the slot, the distal end of the tubing is configured to advance the first distance;

an instrument disposed within the housing; and

an advancement wheel, wherein the advancement wheel extends out from the housing, wherein in response to the advancement wheel being rotated, the instrument is configured to advance through the advancement element, the tubing, and the distal end of the housing.

18. The instrument delivery device of claim 17, wherein the instrument comprises a guidewire.

19. The instruments delivery device of claim 17, further comprising a septum disposed within the advancement element and configured to prevent blood from flowing into the housing, wherein the guidewire is configured to move through the septum.

20. The instrument delivery device of claim 17, further comprising another tubing coupled to the advancement element and configured to couple to a blood collection device, wherein blood is configured to flow proximally through the tubing, the advancement element, and the other tubing.