

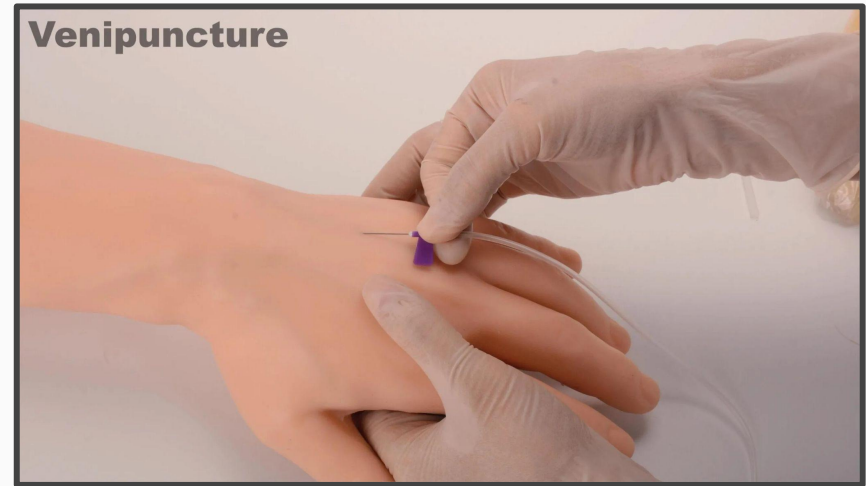


# Phlebotomy Training for Hand Veins

# The problem

Phlebotomy students had no way of practicing hand vein blood draws, and could not be evaluated for readiness of safe, practical experience on each other.

Hands are very sensitive, and drawing, as well as being drawn on, is a common fear amongst Phlebotomy students.





## The solution

Two different types of hand trainers were purchased.

One is a wearable hand pad and the other is a full arm with hand veins.

# The Trainers



## Multicultural Training Pads and Arms

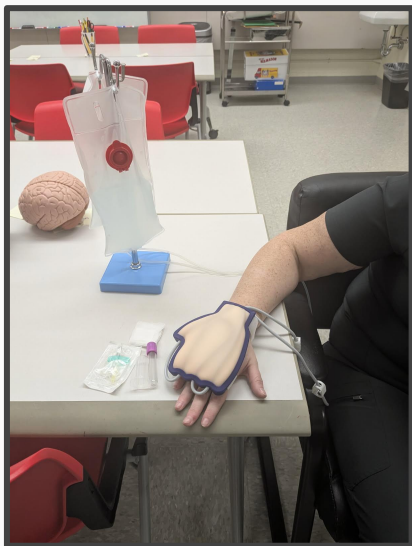
Due to our student base being multicultural as well preparing our students for working in the real world with many different skin colors, manikins were ordered with light and dark skin.



# Milestones

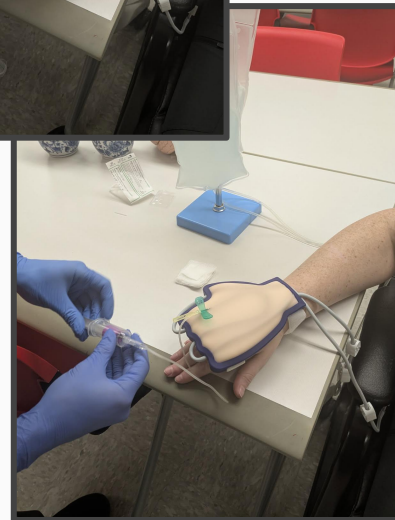
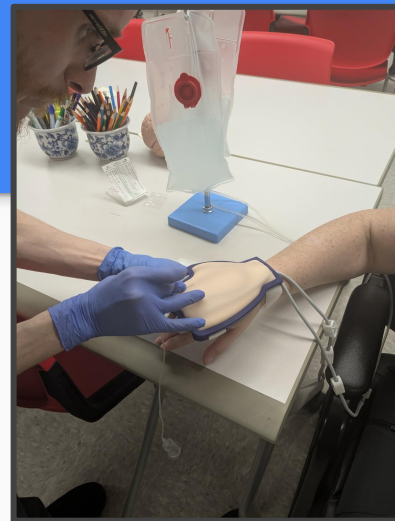
## Students Began Manikin Practice Earlier

Students were able to begin hand venipuncture much earlier in the training, alongside initial arm training.



## Comfort and Competency

Students progressed quickly to live, practical venipuncture on their peers, giving them much more time to become proficient using butterfly needles and gain readiness for their externship with Quest Laboratories.



# Student Survey Results

**“Learning to hold the hand (during) venipuncture (with the trainer) gave me more confidence to use the butterfly needle.”**

**“The hand trainer helped be to know what to do, how to start, and what equipment I need.”**

**“It shows a good representation of how to hold the hand for a stick.”**

**“It not only introduced me to the drawing of a hand vein, but it helped me know what the dorsal side of the hand looks like.”**

**“It made training feel more real.”**

# Student Survey Results cont'd.

**How would you rate your comfort level with the hand venipuncture on your peers *after using* the trainers?** 6:8 Very Comfortable, 2:8 Somewhat Comfortable

**How would you rate your comfort level if you did not have these trainers?** 3:8 Not at all, 3:8 Somewhat Comfortable, 1:8 Very Comfortable

**Do you feel prepared for your externship where you may have to perform hand venipuncture?** 3:8 Very Prepared 5:8 Capable

**Did you feel the use of a wearable hand venipuncture trainer improved your accuracy and proficiency?** 8:8 Yes

# Conclusion



*Due to the wearability of the venipuncture hand pad, students were able to overcome their fear of practicing venipuncture techniques on their peers.*

*Quest Laboratory trainers were impressed by how quickly students adapted to working in the field. Students showed greater proficiency in their venipunctures and were able to complete the requisite 100 sticks in a shorter amount of time.*