

Windy Cole, DPM and Nina Kovolyan, CRC

Kent State University College of Podiatric Medicine, Independence, Ohio

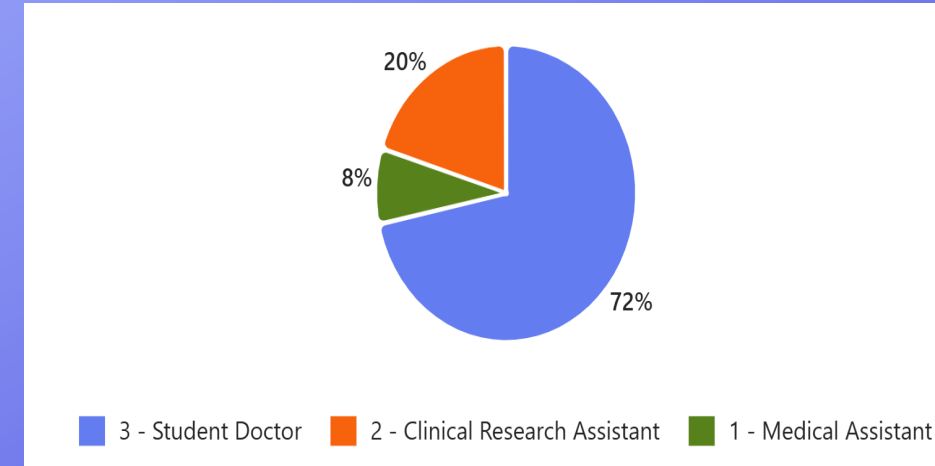
**Background:** Peripheral Arterial Disease (PAD) remains underdiagnosed, particularly in asymptomatic individuals and underserved populations. QuantaFlo, a plethysmography-based device, offers a potentially more efficient and user-friendly alternative to traditional Ankle-Brachial Index (ABI) testing. This study aimed to evaluate the usability of QuantaFlo in a clinical training environment.

**Methods:** A prospective, single-site survey study was conducted at the Cleveland Foot and Ankle Clinic. Twenty-five participants, including students and faculty, completed a vascular assessment using the QuantaFlo device and subsequently rated their experience using a 10-item usability survey. Responses were recorded on a 5-point Likert scale (1 = Strongly Disagree to 5 = Strongly Agree), with one item capturing professional background.

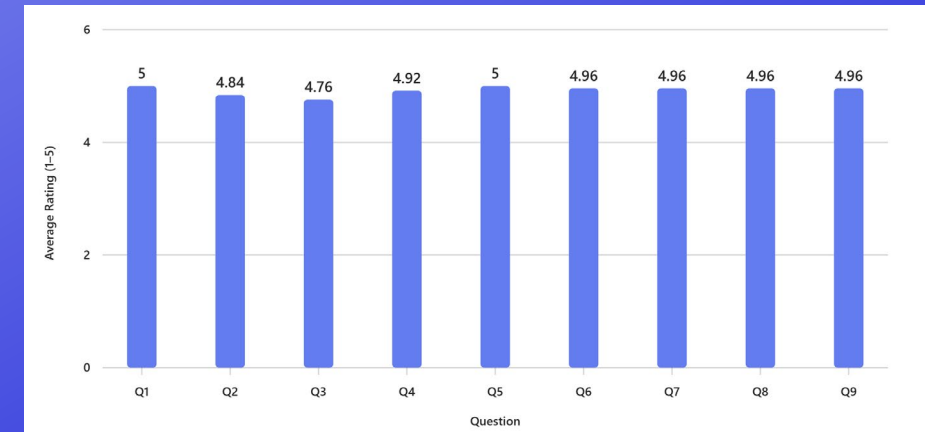
**Results:**

- Participants reported high usability across all domains.
- Mean scores for Questions 1–9 ranged from 4.76 to 5.00, with the highest ratings for ease of use, clarity of instructions, and recommendation to colleagues.
- The average educational level was consistent with the student-doctor status (mean = 2.64).

**Conclusion:** The QuantaFlo device demonstrated excellent usability among a diverse group of healthcare trainees and professionals. Its ease of use, rapid setup, and high user satisfaction suggest strong potential for broader clinical adoption, particularly in settings where traditional vascular assessments are underutilized. Further studies may explore its diagnostic accuracy and impact on clinical outcomes.



Participant Education Levels (Q10)



Average Scores for Usability Questions (Q1–Q9)