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DESCRIPTION

TeleVU Smart Glasses technology in tandem with BioVU 'Care@Home' platform uses augmented reality to allow for secure audio and visual communication between clinicians, while allowing for a more comprehensive remote assessment of patients. This includes data regarding patient temperature, oxygen saturation, heart rate, and cardiac rhythm. The TeleVU/BioVU technology enables thorough remote clinical management and appropriate clinic and resource utilization. The ability to remotely monitor patients, and address patient concerns and allow better access to care and aims to improve patient safety and clinical outcomes, overall patient experience, and clinical team workflow efficiency.

OBJECTIVE

To improve staff efficiency patient safety, outcomes and satisfaction by optimizing resources by utilizing technology.

ACTIONS TAKEN

Stakeholder engagement was completed through training on the TeleVu Smart Glasses and BioVU platform with Cardiologists and Cardiology Technologists. Patient selection and enrollment was then completed via the platform. Once enrollment and training was completed, an eight-week pilot project was launched by which patient vitals and concerns were monitored remotely in real time. Data related to set KPIs were collected throughout this project and later analysed and reported upon to Ontario Bioscience Innovation Organization.



Figure 1. TeleVU Smart Glasses (left) & BioVU remote device (right).

TeleVU Technology Patient & Family Satisfaction Questionnaire

Q1 On a scale of 1-5, how satisfied are you with the TeleVU technology at Humber Clinic?

Answered: 28 Skipped: 0

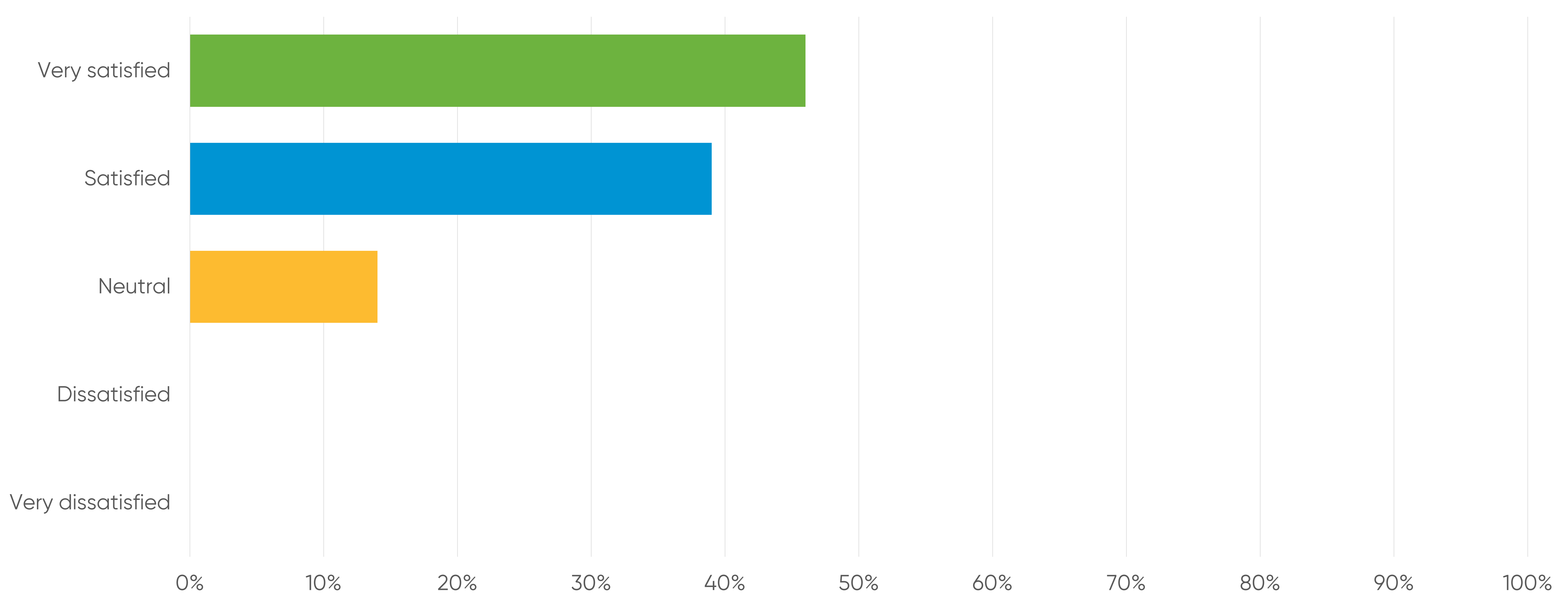


Figure 2. Overall patient satisfaction with TeleVU technology.

TeleVU Technology Patient & Family Satisfaction Questionnaire

Q2 How easy was it to use the TeleVU technology during your interaction with clinicians and doctors?

Answered: 28 Skipped: 0

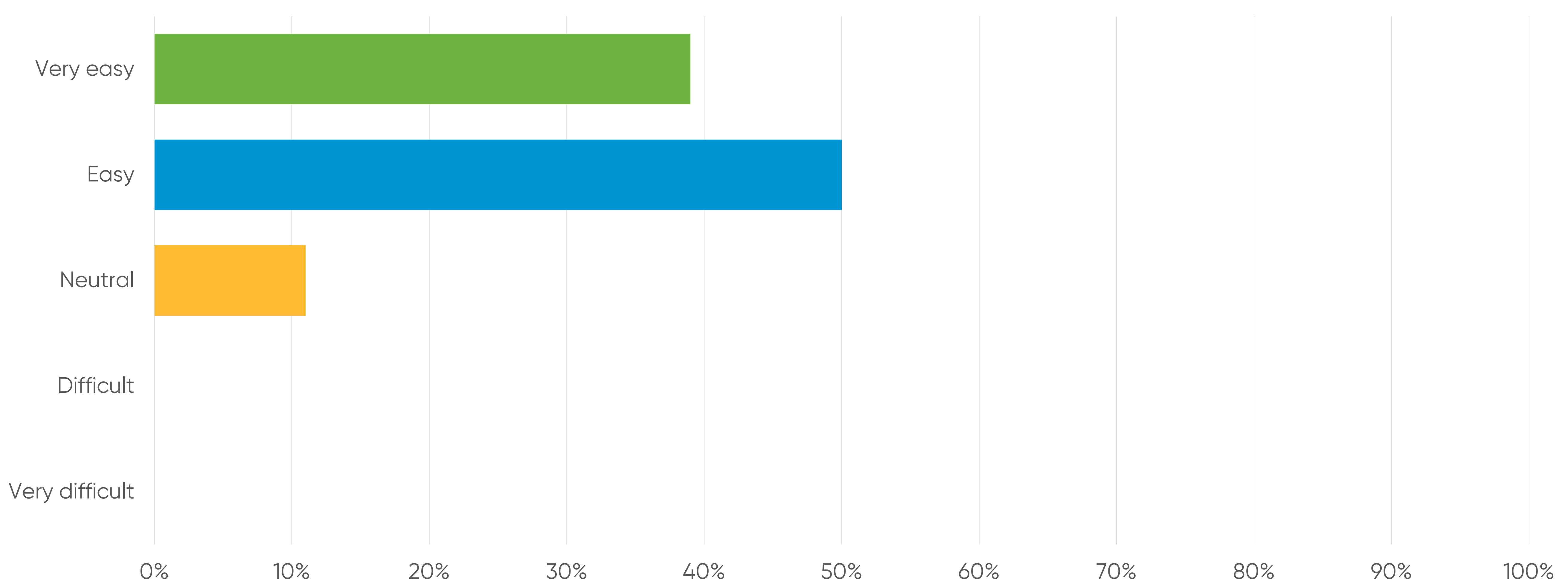


Figure 3. Patient satisfaction with the ease of use of the TeleVU technology.

SUMMARY OF RESULTS

Utilization of the TeleVU/BioVU platform supported clinicians by empowering them to assist peers remotely during patient procedures and by improving efficiency in triaging device related patient concerns through crucial vital sign monitoring. This reduced the need for low acuity in-person visits post device implantation and contributes to early detection of potential complications and reduction in emergency room visits. Patient satisfaction in regard to cardiac care services was improved from increased access to the device clinic.

LESSONS LEARNED

TeleVU/BioVu plays a crucial role in augmenting patient capacity within the cardiac device clinic and the procedure room. This innovative solution introduces efficiencies that have direct impact on enhancing overall patient care.

