Making a Difference in Patient Engagement & Wound Outcomes

with Innovative "Point of Care" Fluorescence Imaging in the Mobile Wound Care Setting.

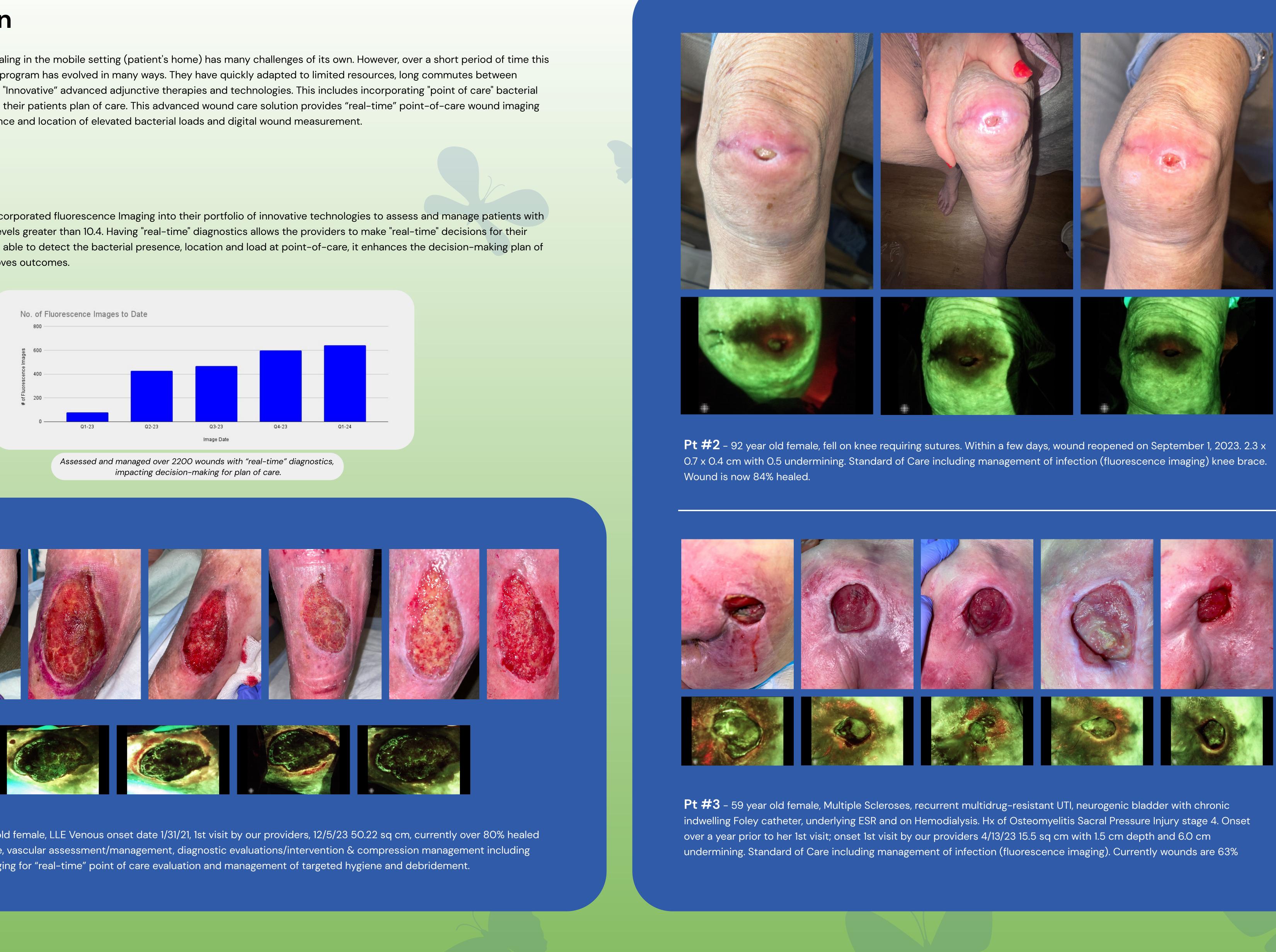
Authors: Ali Saberi, MD | Christina Asher, APRN | Amber Gephart, APRN, FNP-C | Patrick Reid, APRN | Yisel Ruiz, APRN | Lori Back, APRN | Evan Brewer, APRN | Audrey K Moyer-Harris, BSN, RN, MBA, CWS

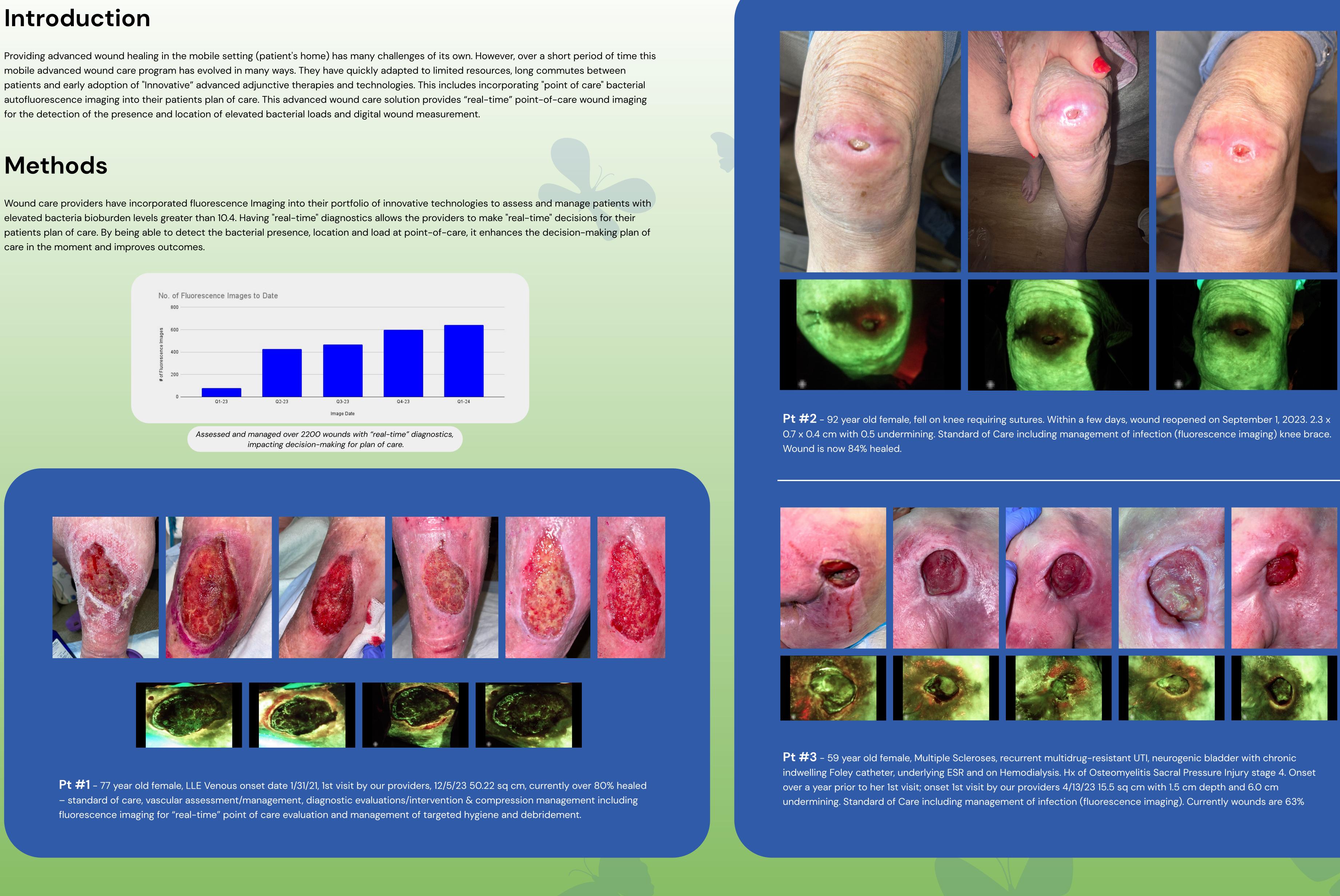
Introduction

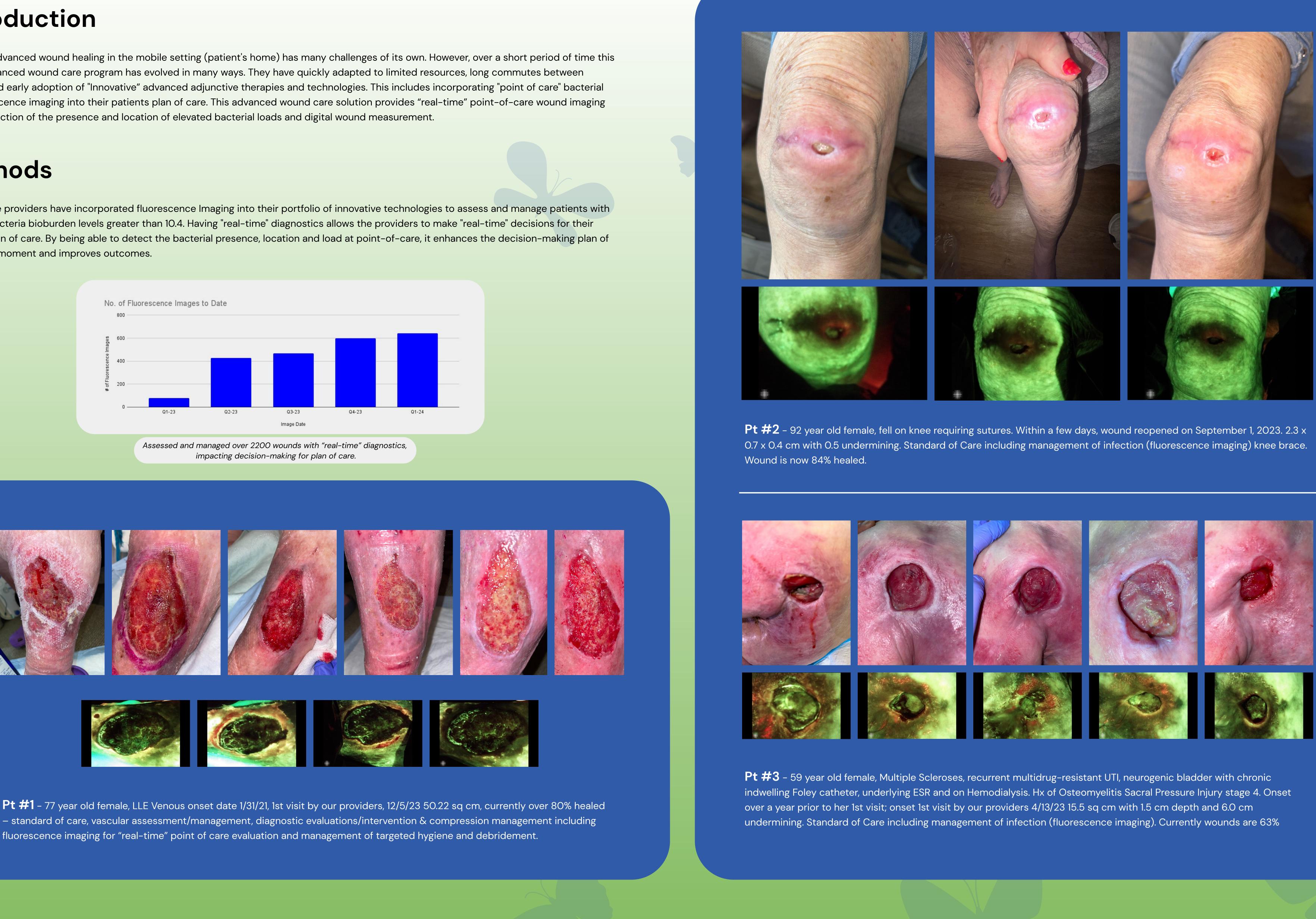
for the detection of the presence and location of elevated bacterial loads and digital wound measurement.

Methods

care in the moment and improves outcomes.











Results

Retrospective analysis includes over 2200 non-contact real-time fluorescence wound images for bacterial presence, location, and load, per session. Having technology at your fingertips gives the providers the opportunity to manage and/or adjusting patients plan of care, including monitoring for success of Cellular, Acellular and Matrix-Like Products (CAMPs). The ability of taking pre and post imaging and videos has allowed the provider to evaluate their plan of care at the bedside, providing them with the opportunity to finesse or complement their original plans of care and optimizing and accelerating healing. Providers are trained to interpret fluorescent images. Red fluorescence signals indicated the presence of Grampositive and Gram-negative bacteria at loads (above 10.4 colony forming units per gram) and cyan signals (bright white center and a green/blue halo indicates the presence of Pseudomonas Aeruginosa 10.4 DFU. "Real-Time" results to differentiates of red-ranges of fluorescence indicating a variety of unspecified bacteria loads (at >104 CFU/g), or cyan fluorescence specifically identifying Pseudomonas Aeruginosa (at >104 CFU/g). These results give the provider the opportunity to change a plan of care in the moment, which may include additional wound hygiene, and debridement or modifying the treatment orders to include an antimicrobial dressing or even antibiotics if needed. These results immediately provides clinicians with objective information on the presence and location of high bacterial loads to better inform bacterial-infection management strategies. Between opening day of August 2022 until April 2024 our team Fluorescence Imaged over 2,441 wounds.

Discussion

Improving the providers opportunity to assess and manage in "real-time". Giving the provider "point of care" diagnostics to assess and manage elevated bacteria loads in the wound/ulcer bed and peri-wound. These results are reflected in their wound healing outcomes in many ways including but not limited to increasing wound / ulcer healing rates, decreasing antibiotic prescribing, decreasing antimicrobial dressing cost, and even preventing readmission rates. Most importantly, improves the patient's engagement to their plan of care and over all improves their wound healing outcomes.

References



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5880 49th Street North, Suite N-201 St. Petersburg, FL 33709



www.healprecisely.com