

TECHNOLOGY ENABLED DIABETES FOOT ULCER MULTIDISCIPLINARY CLINIC (2019-2024)

Dr. Kamal Chokkalingam







Challenges of Conventional Foot Clinics

- High case load 5500 to 6000 patient episodes per year
- Information overload mixed digital and paper clinical care records
- Risk of discontinuity of care broken links in a multi professional service
- Clinical inertia and recall bias delayed treatment decisions
- Lack of real time objective monitoring data obscures true clinical status
- *Treatment oversight is difficult* unclear view of wound care assessment and range of treatments
- Admin burden complex workflow with upload of images and paper clinic notes





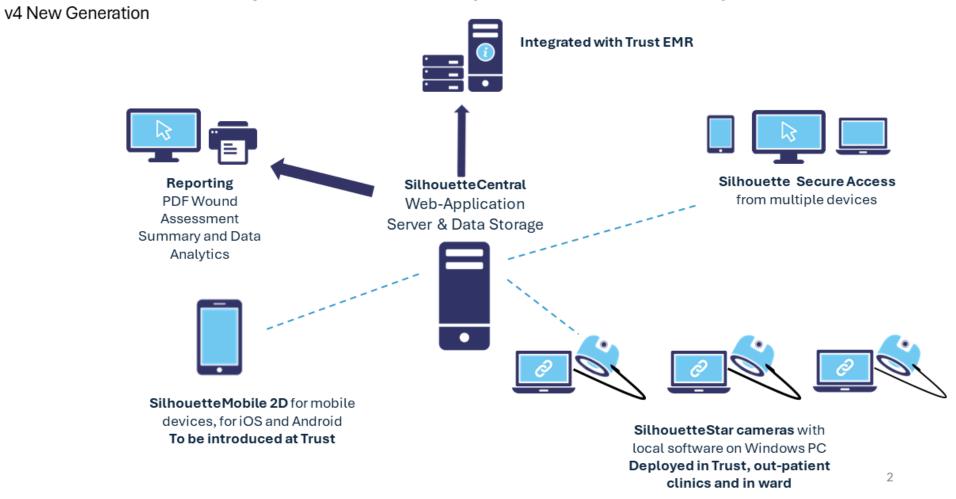
Technology Solution

- Web based central application and hosted on Trust servers
- Multiple point of care imaging devices, 3D and 2D measurement and a digital care record
- Configured to our workflow and data needs
- Integrated with hospital and community document systems
- Central software application server can be accessed from any Trust Computer
- Complies with information governance, data and security standards





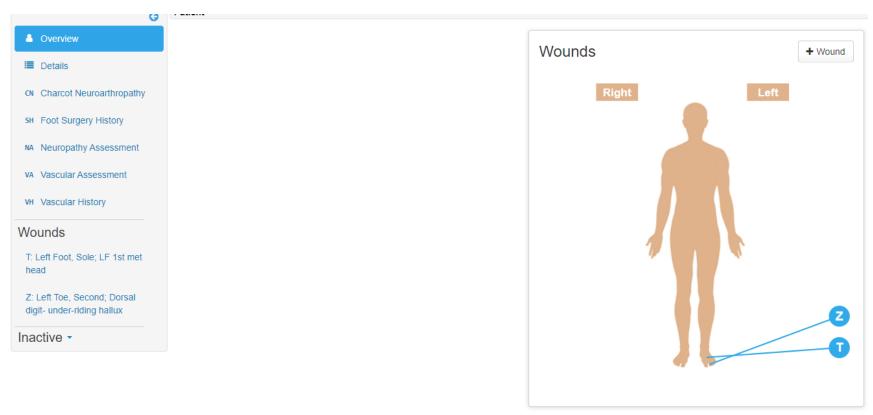
Silhouette Enterprise Solution (ARANZ Medical)







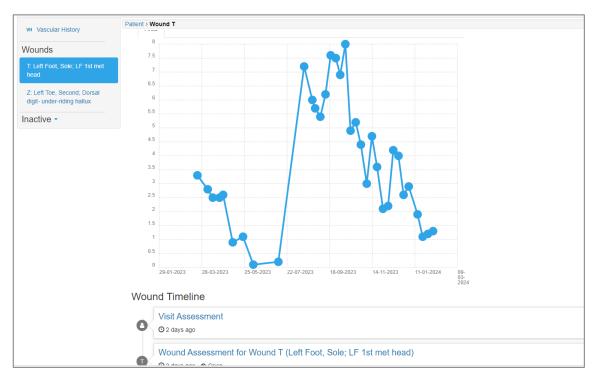
Silhouette System Screen – Patient Dashboard



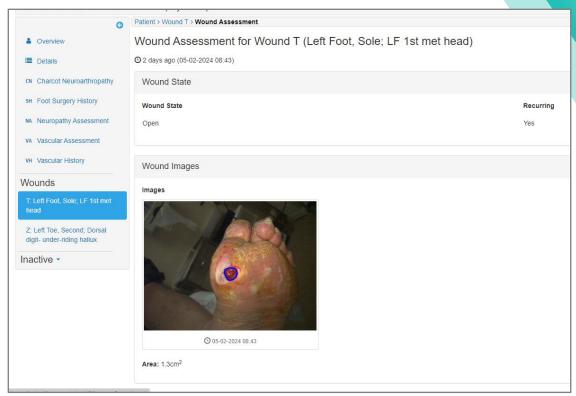
Patient Timeline Visit Assessment © 2 days ago Wound Assessment for Wound 7 (Left Toe, Second: Dorsal digit, under-riding hallux)







Wound healing charts, showing wound area changes over time



Wound images gallery, showing wound status changes over time





Key Benefits of Technology Enabled Service

- Paperless digital imaging system and MDT care record
- One stop clinical information store house for the multidisciplinary team
- Comprehensive PDF reports, shared electronically across pathway
- Data accessed immediately from any location to facilitate MDT discussions
- Reduction in clinical inertia and increased patient engagement
- Reduction in admin workload for consultants and secretarial team
- Empowered Specialist Podiatry Team
- Scope to extend to community and host virtual clinics in the future





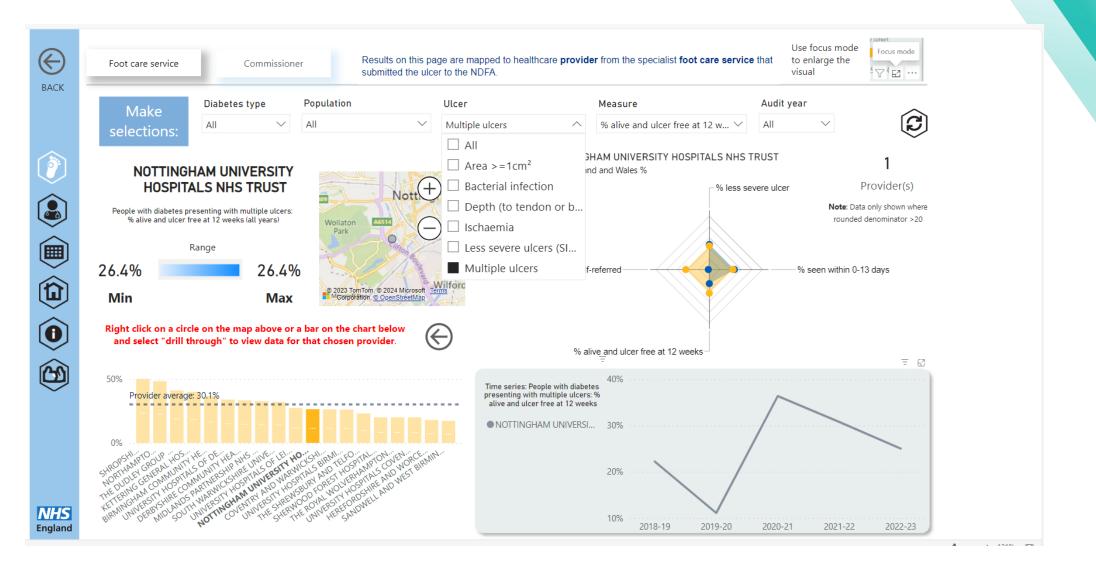
Key Challenges during the journey

Four key factors identified:

- 1. Securing capital budget for implementing the technology Nottingham Hospitals Charitable funding was a big helping hand to the project
- 2. Engaging Clinical and Digital Services, creating will and capacity to do "new"- Trust digital agenda was a key driver for change
- 3. Slow progress with data informatics close working relationship with technology provider is slowly getting us there
- 4. Organisational inertia to implement the technology outside of hospital settings progress with data informatics could help move forward the dialogue between providers

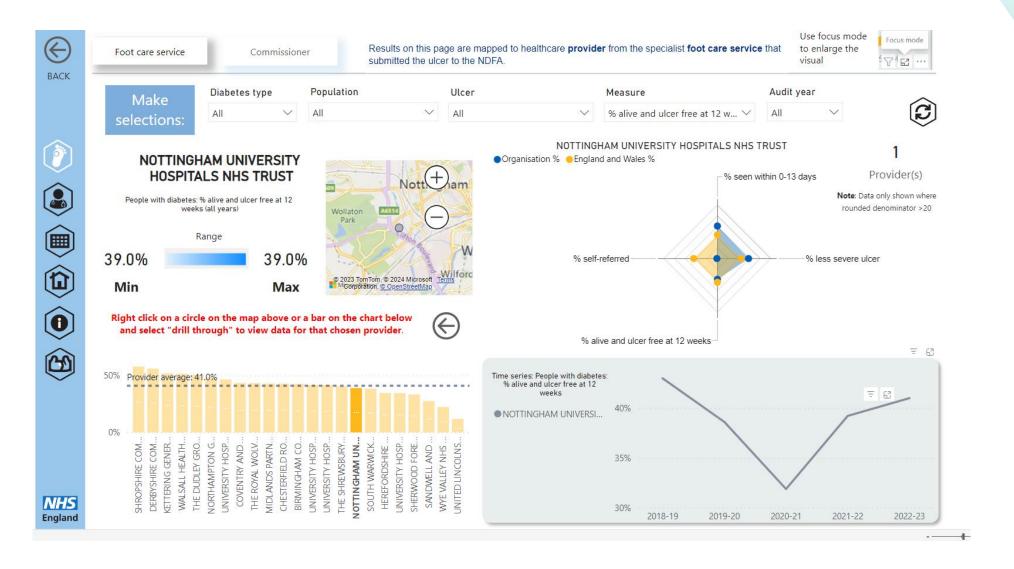






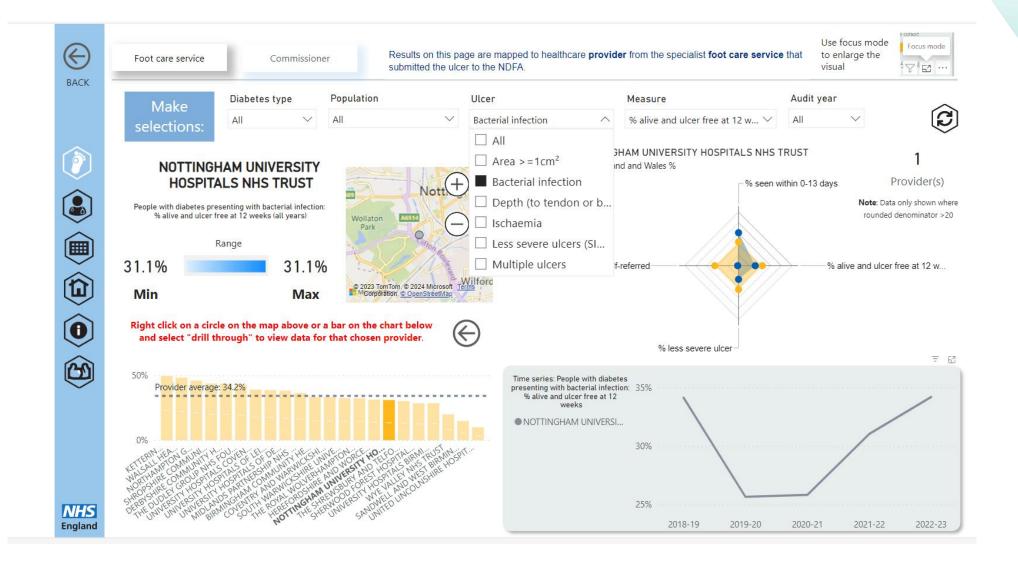
















Conclusion

- Seismic shift from data gathering to data interpretation
- Improved consultation experience for patients and health care professionals
- Digital and almost paperless clinic is now a key asset of the service
- 99% of the clinical reports are dispatched on the day of the clinic visit
- Administrative cost savings
- Improved 12-week healing rates for multiple ulcers





Acknowledgments

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