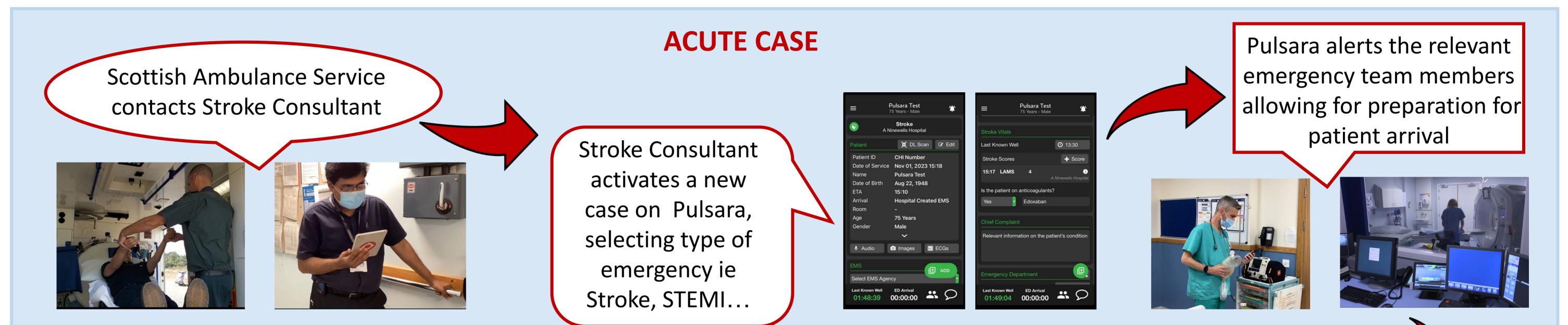


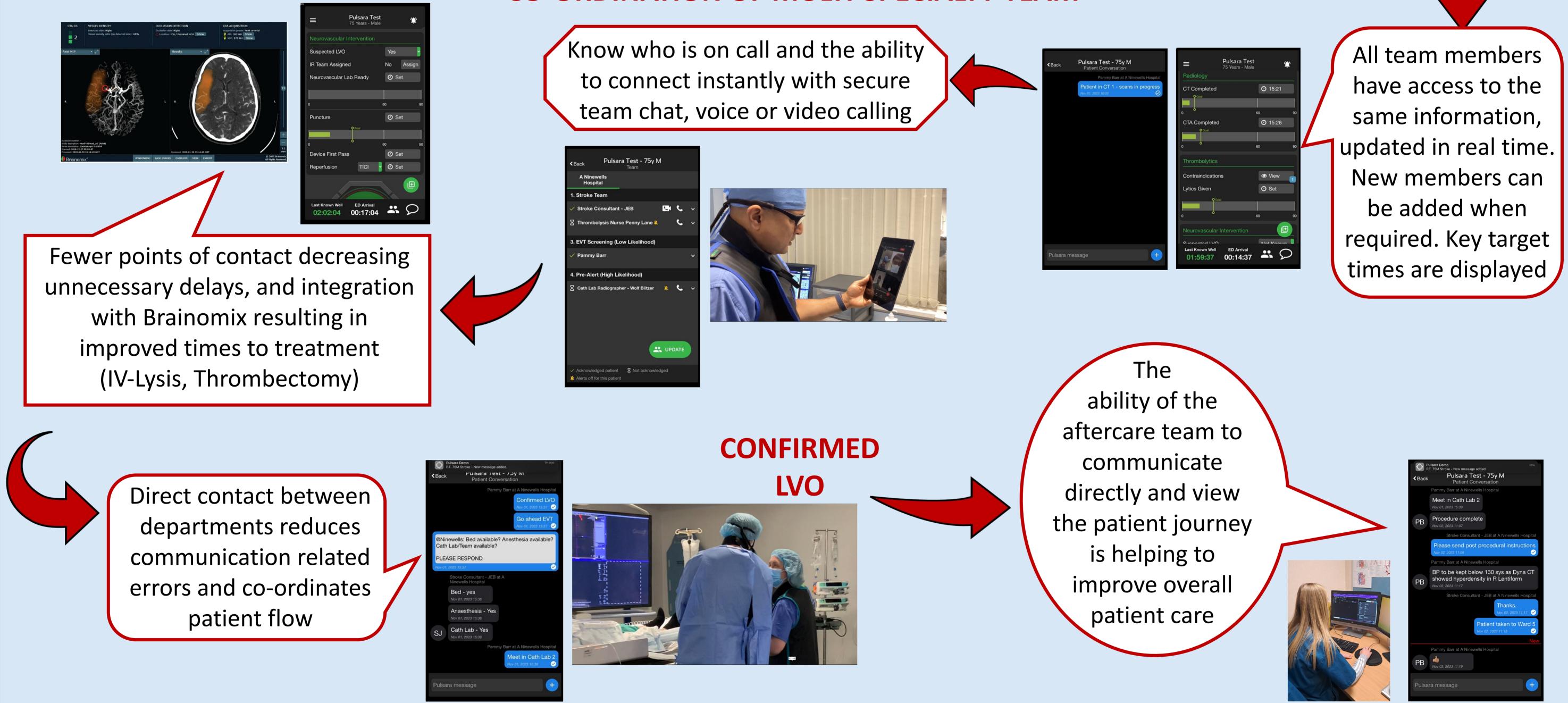
Addressing Cardiovascular Disease Using a Novel Communication Tool

PULSARA: Digital Communication Pathway of Excellence in Scotland

Pamela Barr (1), Leah White (1), Yvonne Rose (1), Beth Turnbull (2), Helen Donald-Simpson (1), Anna Podlasek (1), Iris Q Grunwald (1, 2) 1.Tayside Innovation MedTech Ecosystem, University of Dundee 2. NHS Tayside

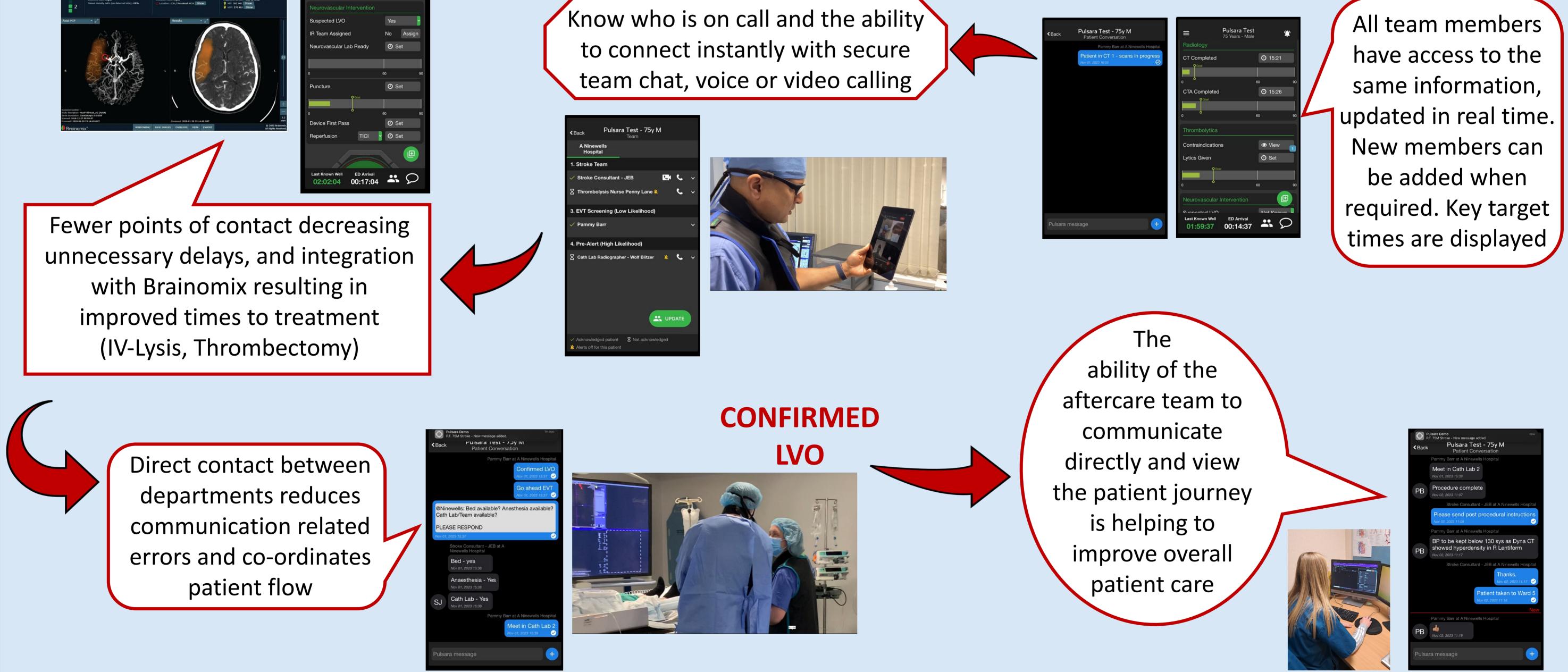
Every minute of an acute ischemic stroke (AIS) almost 2 million brain cells die, making treatment time a critical factor. Quick co-ordination of a multi-speciality team is essential. Pulsara[®] (Montana, USA), a digital healthcare communication tool, enables all pathway team members to collaboratively communicate in a single, secure patient channel, regardless of where they are located. We present early results of the first implementation in Europe of this innovative communication tool, linked with the AI image interpretation software e-Stroke Suite (Brainomix Ltd. Oxford) for emergency stroke treatment.





CO-ORDINATION OF MULTI-SPECIALTY TEAM





We evaluated AIS patients receiving thrombolysis during regular service hours (weekdays 9am-5pm) for two time periods; 1st January 2018 to 1st January 2020 (conventional stroke pathway) and 14th February 2023 to 19th September 2023 (digital communication stroke pathway using Pulsara and Brainomix). This time frame was chosen to exclude bias due to COVID-19.

We analysed door to CT times in a sub-cohort of thrombolysis patients. After the implementation of Pulsara, there was a significant improvement in door to CT times (p<0.05). There was a trend towards better outcome at 3 months, however due to a small sample size, more data is required. Communication was streamlined with user feedback highlighting reduced risk for communication errors.

The implementation of Pulsara significantly **improved time to CT for thrombolysis** patients. Pulsara, with it's dedicated digital pathways for stroke, heart attack, trauma, resusctitation, and many others, has the potential to save brains, hearts, and lives.













Tayside Innovation Medtech Ecosystem University of Dundee