Thrombolysis and Endovascular FLow Network (TEFLON) Trial – A novel systems implementation trial to streamline acute stroke workflow towards improved reperfusion therapy delivery and better patient outcomes

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Background
Speedy delivery is critical in ensuring reperfusion therapy approaches deliver most benefit to acute stroke patients. Systems based approaches in reducing the time to reperfusion are important in delivery of best patient outcomes and best value care. Using a combination of adaptive collaborative workflow embedded within a knowledge translation framework, Thrombolysis and Endovascular WorkFLow Network (TEFLON) aims to test a system strategy to better deliver high-value care in reperfusion interventions by reducing treatment delays.

Objectives
The objectives of the study are to identify existing systemic gaps and barriers to improved systems for reperfusion treatment delivery, and to test the efficacy of TEFLON in improving treatment delays compared to the conventional model.

Methods
This is an implementation and knowledge transfer trial of a package intervention aiming to identify and address system of care gaps in acute stroke reperfusion treatment delivery across two Comprehensive Stroke Centres in Sydney. Following a baseline phase, processes of care are being mapped and measured, clinicians and management stakeholders are being consulted, and a new system-based "TEFLON" workflow model of care is being developed.

Results
Our baseline audit phase has led to recognition of processes and shared development of multidisciplinary collaborative TEFLON intervention package. The package is being developed and will be introduced in cycles over the intervention period. TEFLON model shows promise towards improved care, cost savings, improved stakeholders satisfaction, and improved clinical outcome. This will provide a strong platform for state-wide reperfusion therapy policy framework and an opportunity for national roll-out.