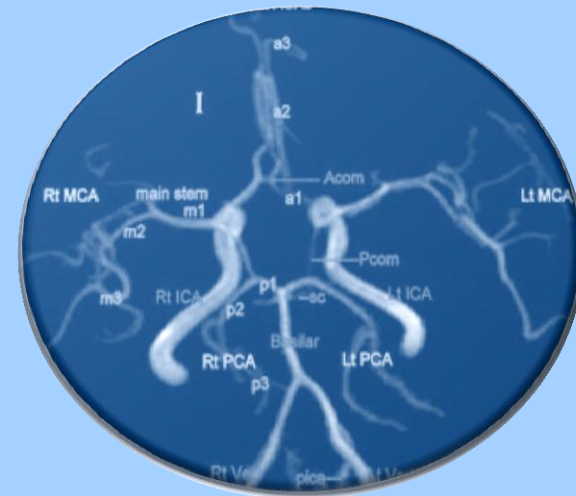


Facilitate Fast Track Neurovascular Examination by Stroke Nurses in AHNH and NDH



Shum Wai Ching, NTEC Nurse Consultant (Stroke)
Fan Yee Mei Salina, AHNH Nursing Officer (Stroke)
Tang On Lai, NDH Advanced Practice Nurse (Stroke)

Stroke occurs when arteries deliver blood to the brain has interruption

The leading causes are serious narrowing of major arteries supplying the brain or emboli that block the blood flow

Investigation

CTA / MRA

Carotid Duplex

Transcranial Doppler

Exam Blood Flow

Diagnosis



Stratification of Risk

Treatment

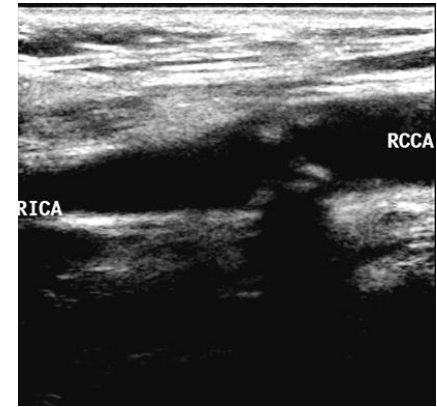
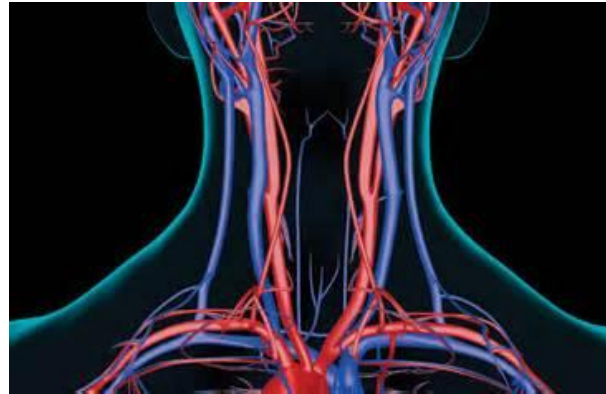
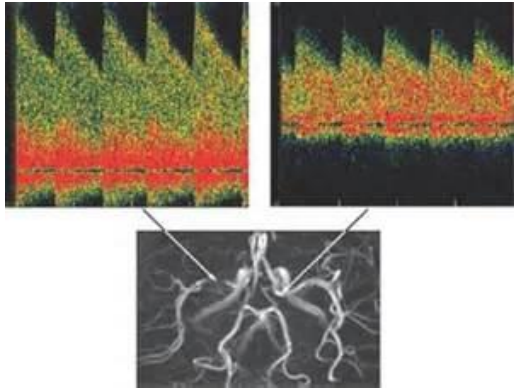
Intensive management of risk factors

Dual antiplatelet treatment

Endovascular therapy

Prevent stroke

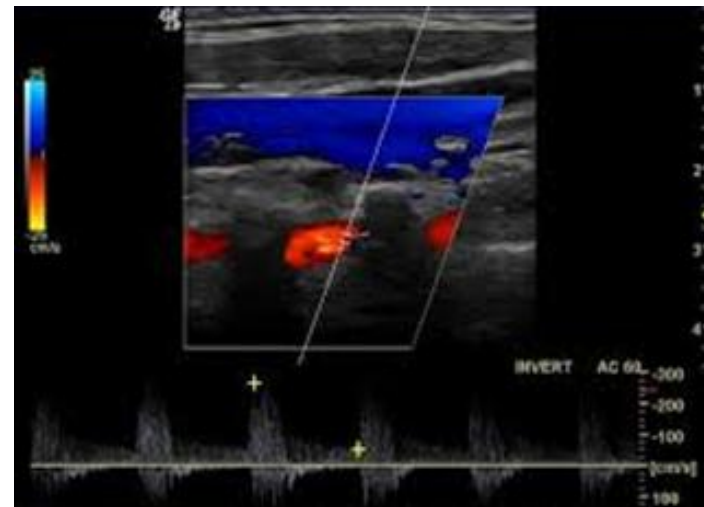
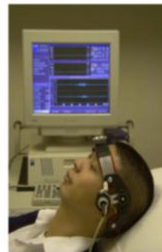
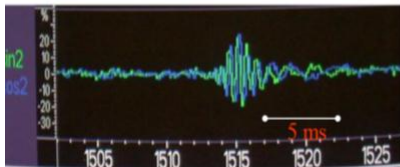
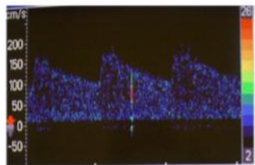
Neurosonography uses non-invasive, non-ionising, inexpensive, portable and safe technique



Detection of Cerebral Microemboli



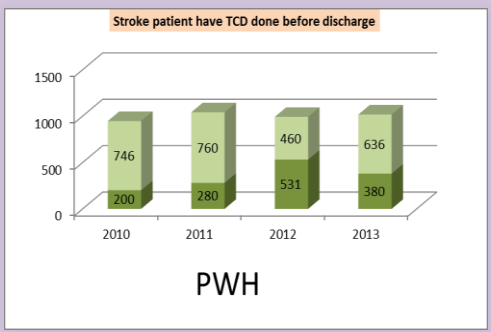
TCD is probably useful to detect cerebral microembolic signals in a wide variety of cardiovascular/ cerebrovascular disorders / procedures (Type B, Class II-IV evidence).



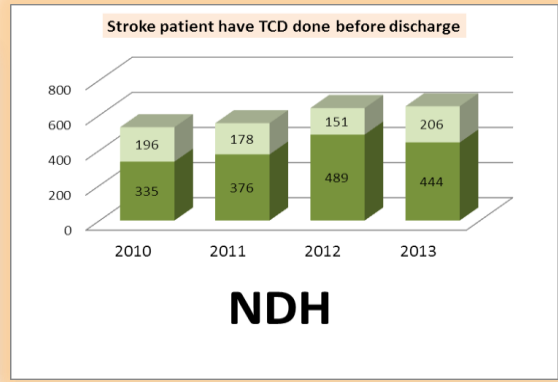
Transcranial Doppler is principally used in the evaluation of patients with cerebrovascular disease; sometimes examination can be done on bedside

PWH started TCD in 1994, over 70% stroke patients have TCD done before discharge each year except 2012(46%)

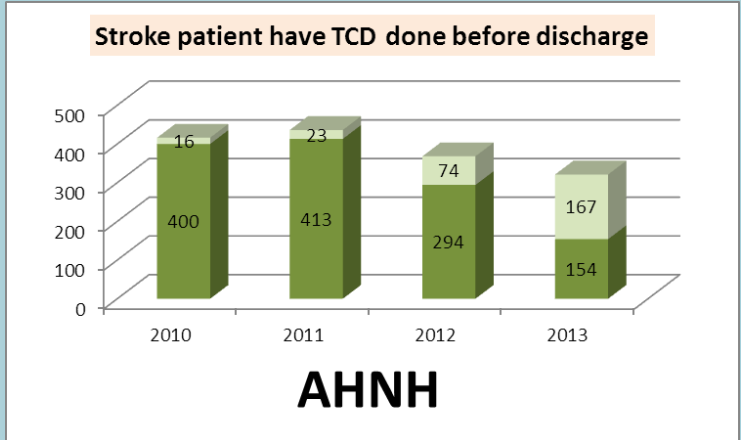
NDH & AHNH the stroke nurses were empowered to perform TCD since 2012 and the percentage of in-patient completed the test before discharge increase.



46%-78%



23%→36%



3%→43%



PWH



NDH



AHNH

Further Development & Conclusion

Further development

- Sonothrombolysis for improving treatment effectiveness
- Carotid Duplex evaluation of extracranial arterial supply for possible interventions

Conclusion

It is obvious that stroke nurse can facilitate fast track neurovascular investigation in acute stroke
Significant contribution by Stroke Nurses in providing TCD for early noninvasive neurovascular assessment of stroke patients, which links directly with management.

