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

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**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

**Diagnosis**

**Treatment**
- Intensive management of risk factors
- Dual antiplatelet treatment
- Endovascular therapy

Exam Blood Flow

Stratification of Risk

Prevent stroke
Neurosonography uses non-invasive, non-ionising, inexpensive, portable and safe technique
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%
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.