Multidisciplinary team for dialysis care



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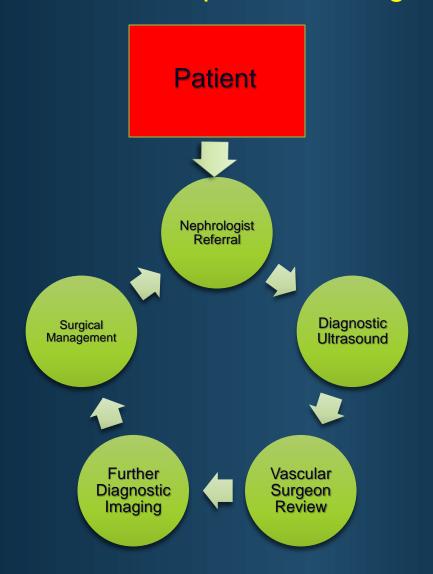
Department of Surgery

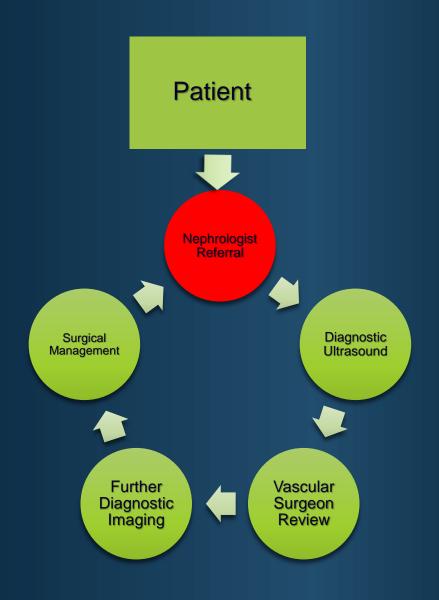
Faculty of Medicine, Chiang Mai University,

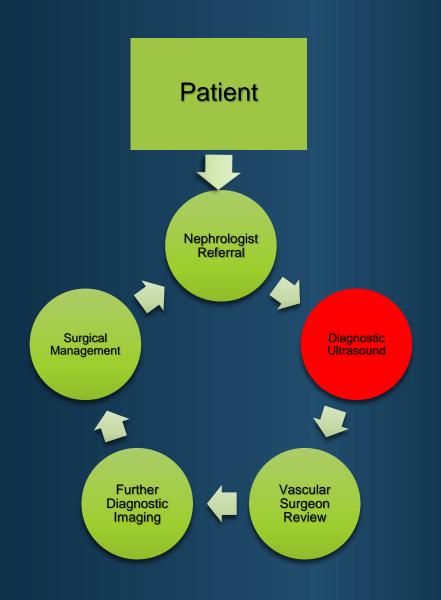
Chiang Mai, Thailand

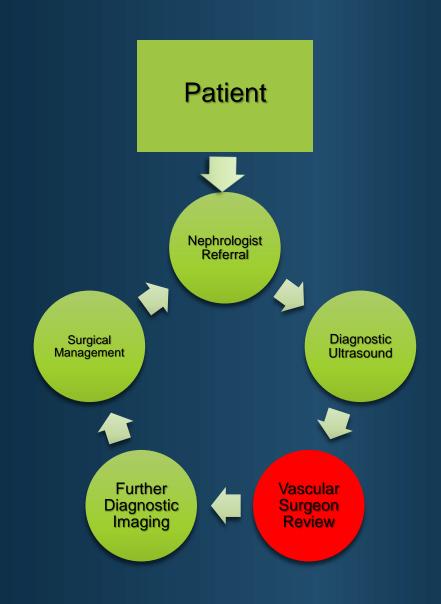
Defining the problem

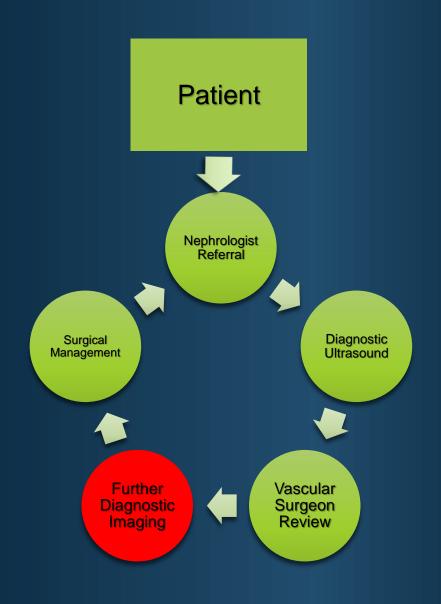
Vascular access management is the leading cause of *hospitalisation* and *morbidity* for patients with haemodialysis dependent end stage kidney failure

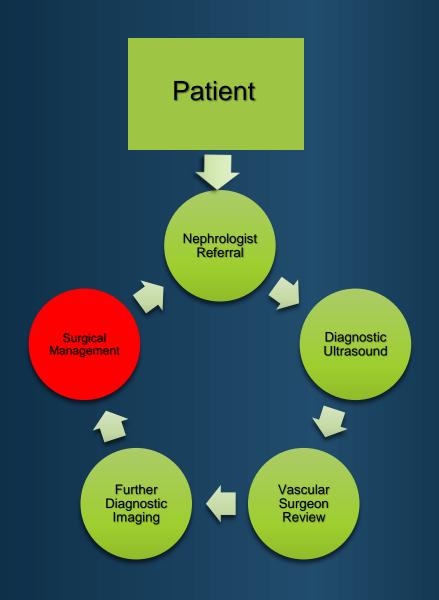


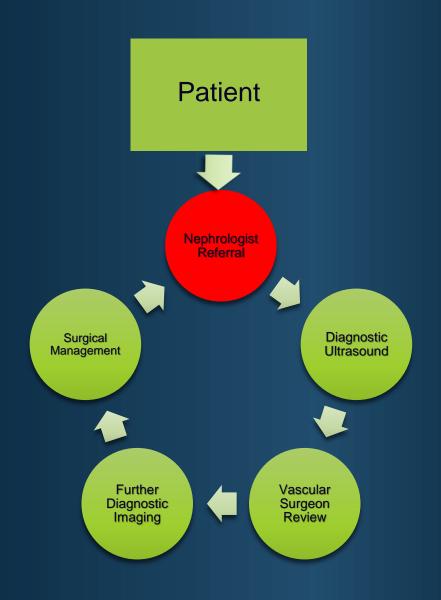




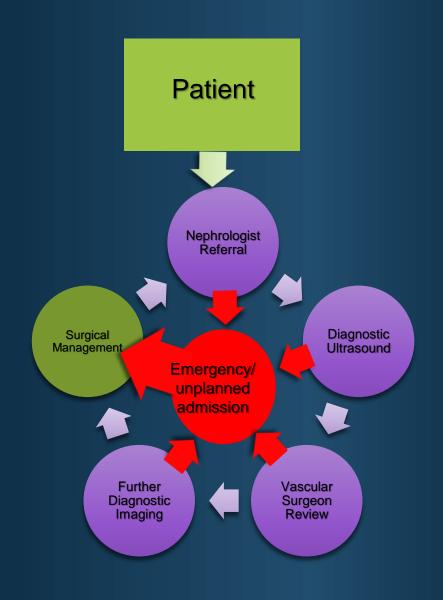








Acute access breakdown in the standard model



Patient experience

Frequent OPD session, several admissions, emergency surgery, delayed surgery, post operative complication, significant time in hospital

Hospital experience

Emergency/ICU-sub ICU/ward bed consumption, emergency operating list utilization

Financial burden!

Project description

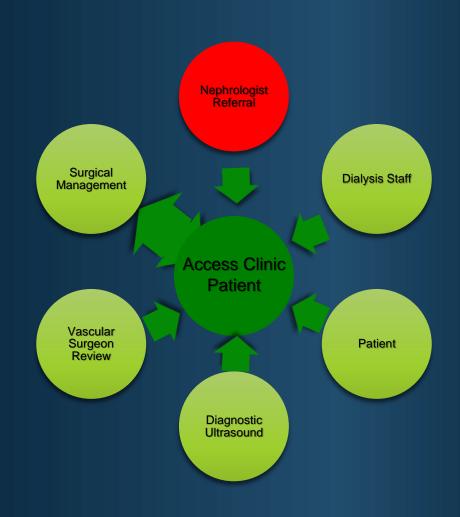
<u>Aim</u>

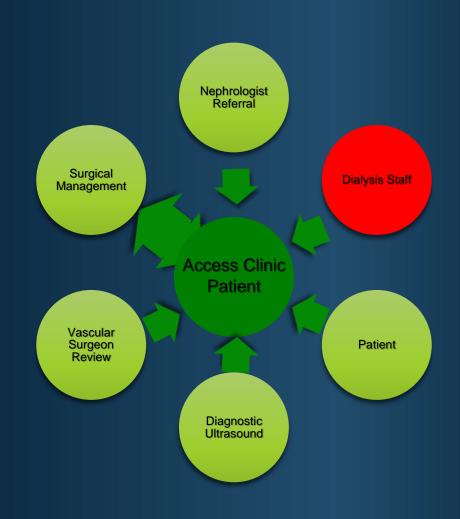
To improve vascular access outcomes for haemodialysis patients

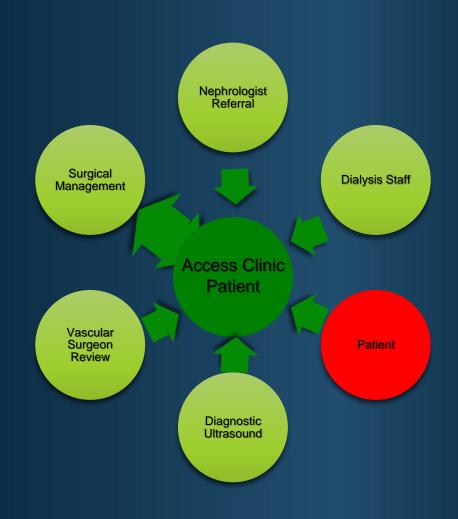
Method

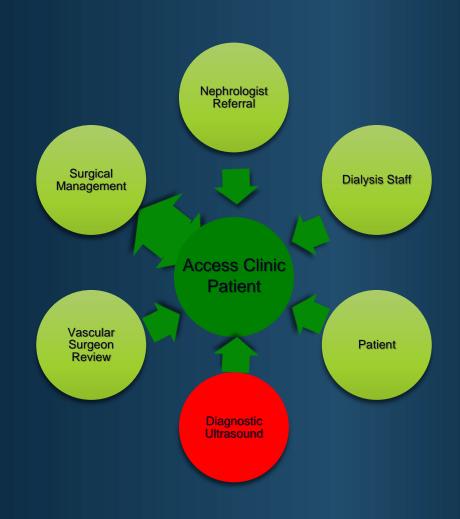
Formation of a public, weekly outpatient clinic 'One-stop shop'

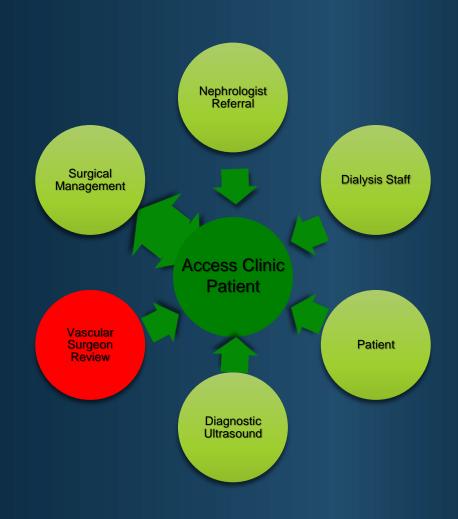


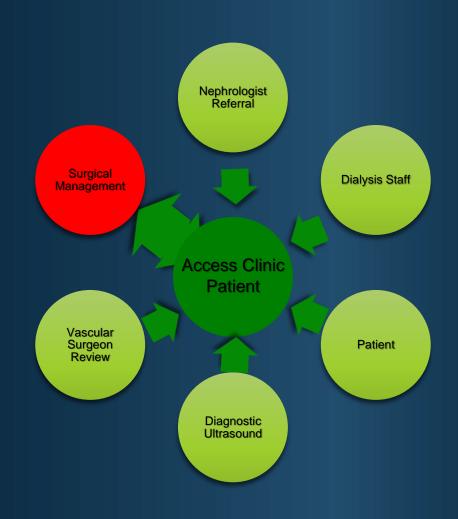


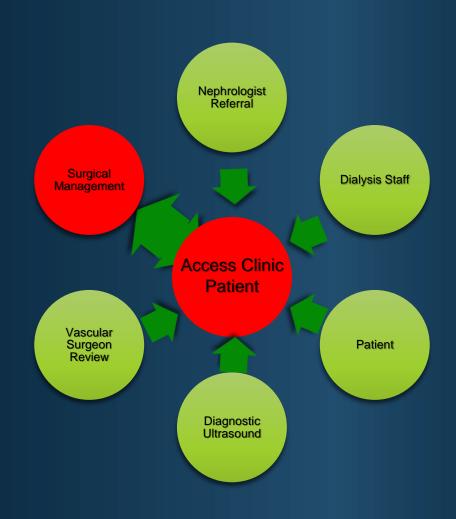












RENAL VASCULAR ACCESS

 New patient was referred to clinic by renal physicians when GFR 15-20 mL/min

 Problematic access: cannulation difficulties, decline transonic access flow measurement, limb pain and weakness

Clinic audit

Retrospective study

All patients with admissions for access concerns

In Prince of Wales Hospital, Sydney

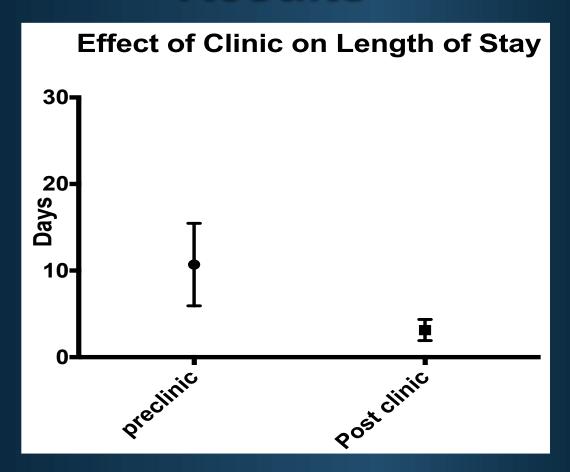
Preclinic group: January 2011- December 2012

Postclinic group: January 2013- December 2014

Total active dialysis population

Number of admissions

189 preclinic group to 158 post clinic group

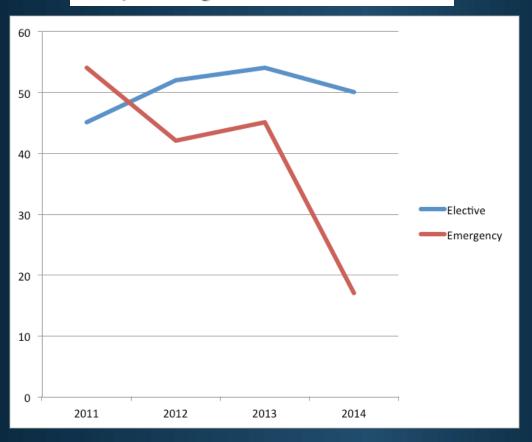


Mean length of stay reduced from 10.71 to 3.14 days (p=0.0056)

Reduction in inpatient wait time for surgery (ie date of admission to date of operation)

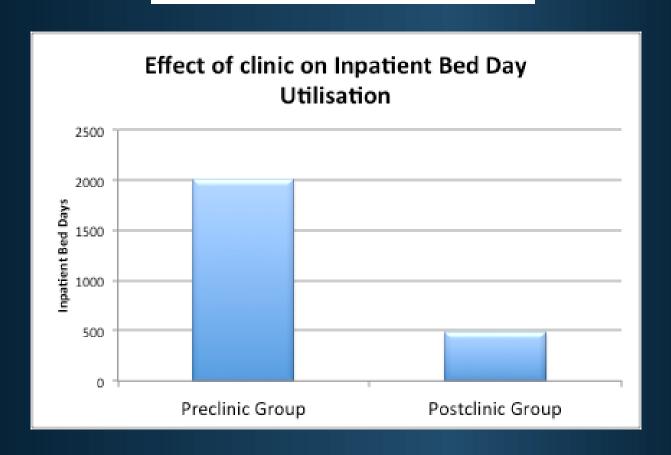
3.23 days to 0.7 days (p=0.0016)

Operating Theatre Utilisation



Significant reduction in Emergency Surgery from 54.5% to 25.4% (p=0.002)

Hospital Resource Utilisation



1522 bed days saved in post clinic group

Efficiency improvements

\$4.89 million total cost for surgical admissions preclinic group

\$1.53 million total cost for surgical admissions post clinic group

This clinic has saved \$3.31 million

Does this apply to you

Quality improvement/ process innovations

One stop shop for the patient: improved patient flow and efficiency

The clinic unlocks the patients medical problems from their vascular access

Conclusion

The vascular access clinic has improved outcomes for haemodialysis patients

The clinic has also allowed a major cost and resource saving

 This model of care is easy to replicate and transferable to other vascular access hospitals

Thanks to

Dr. John Swinnen, Westmead Hospital, Sydney



Dr. Shannon D Thomas, Prince of Wales Hospital, Sydney



Thank you for your attention

