Telehealth - The Virtual Specialist in Your Home



By Susan Samuels , CNS2 Nepean Outreach HITH Service

Nepean HITH History

- Nepean Hospital located Nepean Blue Mountains LHD
- Western Sydney Penrith foot of the blue mountains up the mountains and beyond
- Nepean Hospital, Springwood and Katoomba. Lithgow and Portland
- Outreach Service commenced 1996- HITH affiliation in 2015
- Medical governance of Infectious Disease Team -1998
- Servicing 360,000 residents in geographic area spanning almost 10,000 square km

NEPEAN OUTREACH HITH

- Nepean hospital (teaching) 520 bed- currently prior redevelopment
- Katoomba Hospital 50-99 beds
- Geographically diverse city to country roads in 10 kms
- 3 x Senior Staff Specialists'
- NUM
- CNS2
- RNs x 12 FTE
- Administration staff x1

0.6 FTE pharmacist

Area covered by Nepean HITH

5





strict Anzac Memorial Hospital ct Health Service Cranebrook Community Health Centre
 Katoomba Community Health Centre
 Lawson Community Health Centre
 Lithgow Community Health Centre
 Denrith Community Health Centre
 Porrith Community Health Centre
 Syringwood Community Health Centre
 Stary Sommunity Health Centre
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IDENTIFIED A GAP

- Identified there was need to extended access of specialist nursing care
- Improved consistent access to ID medical reviews
- Enable increased service capacity to b.d. for cellulitis
- Upper mountains pts need to return to BM ED for evening dose of IVAB and possible review by different ED physician
- Need identified by RN's extended LOS for upper mountains patients due to inconsistencies in review process - not directly linked to ID

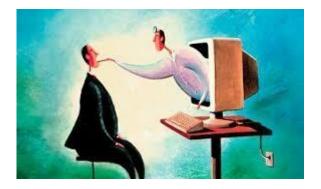


What we did

- Ministerial enhancement led to 2 x RN positions
- Trial PM visit for upper mountains Patients with cellulitis
- Reduced travel (associated issues in mountain weather) for pt's and their families
- Reduced wait times in BM ED for 15 min infusion +/- possible medical review by differing doctors
- Streamlined access to ID team for review and consultation

Telehealth- nursing in the 21st century

- RN's given iPads
- Uniquely designed APP specifically for Nepean HITH service
- Collaborative with ID team , university, nursing staff
- Utilised video conferencing for upper mountains pts unable to travel to Nepean for ID review.
- Nursing staff present and facilitated the video review from the pts home able to act instantly on MO directive.
- Medical staff review from NOS clinic



Objectives measured

- Number of days on IVAB
- Number of presentations to Blue Mountains ED approx. 1 hour drive from Nepean Hospital
- Number of Telehealth consultations undertaken
- In line with national Standards

Number of days on IVAB

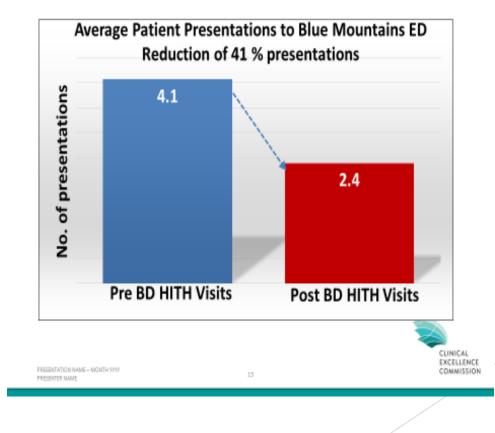
Reduction 21%

Snapshot - 5 months data: Average Days IVAB Treatment 4.1 Days 3.3 of s. Post BD HITH Pre BD Hith Visits CLINICAL EXCELLENCE PRESENTATION NAME - MONTH YVY COMMISSION 12 PRESENTER NAME

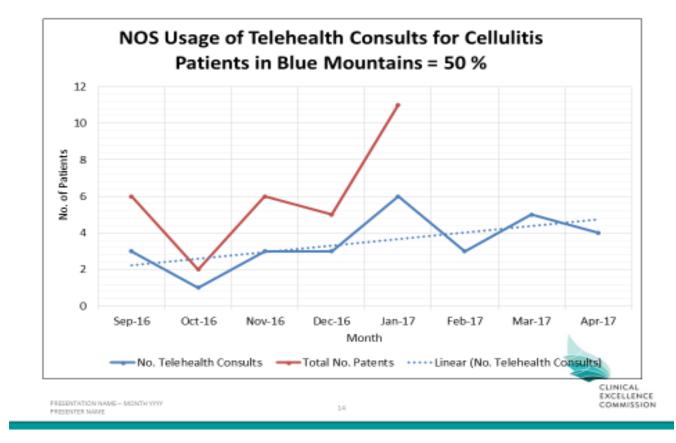
Number of ED presentations

- Reduced by 99 visits
- Saving \$40 K





Telehealth consultation in 5 months

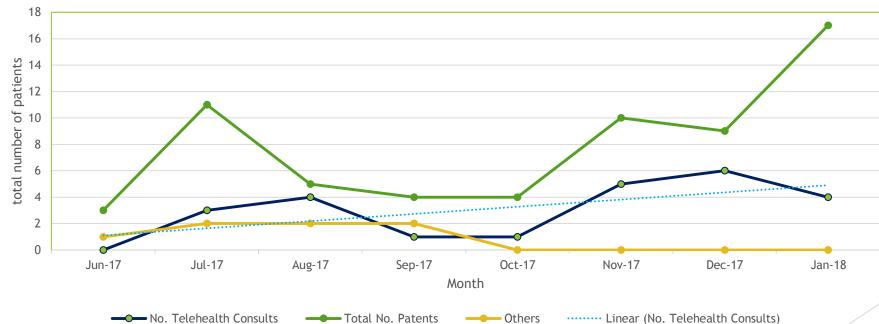


Results 5 month period

- Reduction in ED BM presentations by 41 %
- Reduction in LOS by 21 % for cellulitis
- Reduction in days on IVAB
- Reduced risks associated with cannulation
- 100% of ALL pts with cellulitis received ID review within 72 hrs of HITH admission

Recent Data Snapshot

NOS Usage of Telehealth Consults for Cellulitis Patients in Blue Mountains



Positive outcomes

- ► 50% of upper mountains patients
- Avoided travel by access to Telehealth
- Reduction in health costs
- Continuity of care
- Improved patient satisfaction
- Telehealth usage increased for all patients
 with mobility /transport issues
 Model of care that is transferable across the LHD



Alignment with National Standards

Standard 2 - PARTNERING WITH CONSUMERS

- Reduce need for admission or re-presentation to hospital
- Improve patient satisfaction
- Standard 3 PREVENTING AND CONTROLLING HAI
 - Reduce time PIVC indwelling
 - Potential exposure in ED
- Standard 4 ANTIMICROBIAL STEWARDSHIP
 - Reduce unnecessary administration of antibiotics