



Can the role of Emergency Nurse Practitioner be adapted to work in an urgent care centre and reduce Emergency Demand?

Roslyn Martin¹ & Leanne Boase²

¹ Emergency Department, The Northern Hospital, Northern Health

² Minor Injury and Illness Clinic, Craigieburn Health Service, Northern Health

The Northern Hospital



Emergency Department

> 70,000 patients p/a

25% paediatric

25% admission rate



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Triage distribution

Cat 1: (immediate) 0.6%

Cat 2: (within 10mins) 7.6%

Cat 3: (within 30mins) 26.8%

Cat 4: (within 1 hour) 48.9%

Cat 5: (within 2 hours) 16.1%



The Nurse Practitioner -Emergency



1998- DHS commenced 'Seed funded' Nurse Practitioner Projects



2004- Phase 3- Multiple Metropolitan Emergency Nurse Practitioner Projects initiated to address issues of service demand -9 hospitals/ 14 candidates



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2005- Expanded to Regional Emergency Departments



2006- Expanded to Rural Emergency Departments

The Nurse Practitioner -Emergency



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The Emergency NP Projects were evaluated using the following parameters

- waiting times
- length of stay in ED
- use of 5 extensions
- patient and staff satisfaction

The Nurse Practitioner was established as safe and effective, and became a part of the collaborative health care team.

Craigieburn Health Service



The super clinics are purpose built facilities designed to trial innovative service delivery and funding models.

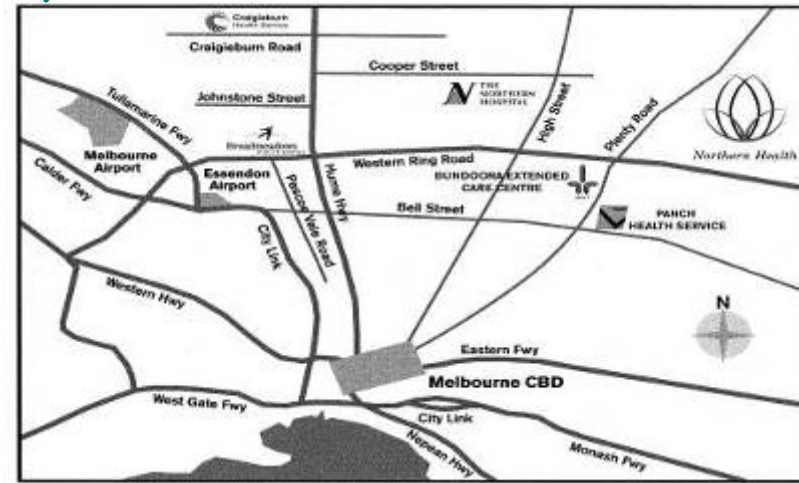


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Growth Corridor Demographics: Hume (Craigieburn)

2001	135,984	(15,614)
2008	156,673	(23,539)
2015	178,076	(32,757)



New methods of service delivery



• Minor Injury and Illness Clinic

- based on UK urgent care model



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- Alternative to ED presentation
- Convenient to population
- Complementary to LMO services



New methods of service delivery



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- A Minor Injury and Illness Clinic (MIIC) provides multi-disciplinary, episodic primary health care over extended hours. Patients are treated on a walk-in basis.

- Nurse Practitioner (candidate) was identified as a valuable team member in this new service

- Organisational support for implementation of NP

Establishing the NP service:



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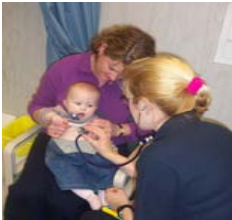
- Is an Emergency NP role directly transferable from ED to MIIC?

- Are there organisational, demographic, geographic, political barriers?

Clinical Practice Guidelines



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- Identified as a basis for majority of presentations in both ED and MIIC

- Multidisciplinary
- Due for revision (3yrs)/ adaptations
- Extensive literature review
- Educational opportunity

Clinical Practice Guidelines- Adult



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Allergic Reaction – Minor

Bite or Sting – Non-Venomous

Bleeding – Vaginal in the first trimester of Pregnancy

Blood and Body Fluid Exposure (community)

Blood and Body Fluid Exposure (Staff)

Breast Pain and Inflammation suggestive of Mastitis

Burn Injury - Minor

Calf Pain suggestive of Deep Vein Thrombosis

Cellulitis – symptoms suggestive of

Elbow Injury

Emergency Contraceptive

Eye Injury - Minor

Fever and cough suggestive of Pneumonia

Foot Injury

Forearm / Wrist Injury

Hand Injury

Knee Injury

Laceration and Wound Management

Loin Pain suggestive of Renal Colic

Lower Leg / Ankle Injury

Plaster of Paris Complication

Respiratory Depression post Opiate administration

Ring Removal

Upper Respiratory Tract Infection - Viral symptoms of

Urinary Tract Infection / Pyelonephritis – symptoms suggestive of

Vomiting and Diarrhoea

Vomiting in Pregnancy (hyperemesis)

Clinical Practice Guidelines: Paediatric



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Bite or Sting – Non venomous
Burn Injury - Minor
Cough - Barking
Earache suggestive of Otitis Media
Foreign Bodies - Ingested or Intra-nasal
Head Injury - Minor
Laceration and Wound Management
Lower Limb Injury (or non use)
Plaster of Paris Complication
Ring Removal
Upper Limb Injury (or non use)
Vomiting and Diarrhoea
Wheeze

Establishing Mentorship



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- Identified need
 - For exposure to patient numbers
 - Developing competency
 - Clinical internship across sites
 - Supernumerary time allocation at tertiary ED facility
 - Mentorship from multidisciplinary team
 - Nurse Practitioner (ED)
 - Career Medical Officer (CHS)
 - Emergency Physician (ED)
 - Pharmacist (CHS/ED)
 - Allied Health/Nursing specialties
- Engaging Key Stakeholders

Where are we now?



- NP role -across campus similarities/ differences
- Patient Age

TNH

8mths-88yrs (av 28yrs)

MIIC

2wks-94yrs (av 36yrs)



- Triage categories:

TNH

1%

ATS Category 2

5.5%

ATS Category 3

63%

ATS Category 4

30%

ATS Category 5

MIIC

0%

4%

15%

81%



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- Top 5 Presentations for NP care:

TNH

Lacerations

Cellulitis

Soft tissue injury

Upper limb fracture

Plaster of paris r/v

MIIC

Upper Resp Infections

Fracture/ soft tissue inj

Cellulitis

Diarrhoea/ vomiting

Ear infections



Where are we now?



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- Initial increase in ED workload– positive input in developing candidate competency
- Development of NP(C) has improved service delivery at CHS MIIC
- Service delivery- Increasing MIIC demand
- Initial survey demonstrating 14% of MIIC pts would have presented to TNH ED

Future Directions:



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- Ongoing data review to direct CPG development relevant to identified needs
- Increasing NP services across both sites
- Promotion of expanding CHS/ MIIC services
- Survey of patients to document a reduction in ED demand (ongoing)

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Project Officer/Clinical Nurse Educator

The Northern Hospital, Senior Research Fellow Deakin University