A platform for Integrated Care

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HealtheNet is a statewide enabler.

1. **Single view of a patient record by providing access to:**
   - All patient identifiers across NSW LHDs – MRNs, AUIDs
   - A patient’s National Individual Health Identifier (IHI)
   - Cross-LHD discharge summaries
   - Cross-LHD alerts, allergies, clinical documents, medical imaging studies and other information (one click from their EMR) and visit histories
   - National eHealth Record (PCEHR) information – Medicare Information, PBS, ACIR, GP Shared Health Summaries, Specialist Letters, eReferrals and Consumer Entered Information

2. **Linking of providers to support coordination of care by:**
   - Sending Electronic Discharge Summaries directly to the GP Desktops
   - Sharing of information with the PCEHR to share with other healthcare providers e.g. other States, private hospitals, aged care facilities

3. **Working in partnership with Medicare Locals, promoting **targeted Assisted Registration** of vulnerable populations across NSW for a National Electronic Health Record (PCEHR) at hospital sites e.g. mothers and children, Chronic Disease Management Patients, patients with complex needs, Aged Care, ATSI**
HealtheNet Workflow..

Access locations
Examples include:

- at home
- at a family member's place
- at other trusted locations with internet access

PCEHR
also known as NeHR

NSW Health
Access for LHDs

NSW Health
Clinical Portal

NSW Government eHealth
HealtheNet live at the following sites
23+ Hospitals and 90+ Community Health Services

Western Sydney LHD (1)
- Auburn Hospital
- Blacktown Hospital
- Mount Druitt Hospital
- Westmead Hospital

Nepean Blue Mountain LHD (1)
- Blue Mountains District ANZAC Memorial Hospital
- Lithgow Hospital
- Nepean Hospital

Primary Care and Community Health (1)
- Western Sydney
- Nepean Blue Mountain

Sydney Children's Hospital Network
- Children's Hospital Westmead (1)
- Sydney Children's Hospital Randwick (2)

South Eastern Sydney LHD (2)
- Calvary Healthcare Sydney
- Prince of Wales Hospital
- Royal Hospital for Women
- St George Hospital
- Sutherland Hospital
- Sydney Hospital and Sydney Eye Hospital
- War Memorial Hospital

Illawarra Shoalhaven LHD (2)
- Bulli Hospital
- Coledale Hospital
- Milton-Ulladulla Hospital
- Port Kembla Hospital
- Shellharbour Hospital
- Shoalhaven District Memorial Hospital
- Wollongong Hospital

1. HealtheNet deployed in August 2012
2. HealtheNet deployed in October 2013
What we have achieved so far.. x4 LHDs and SCHN

Over 6,800 GPs registered to receive electronic discharge summaries

Over 13,800 discharge summaries delivered to GPs in June 2014 (average 11,000 per month)

Over 1.5M Event Summaries stored in the Clinical Repository from WS/NBM LHDs Community Health Services

Over 1,5M Event Summaries stored in the Clinical Repository from WS/NBM LHDs Community Health Services

Over 9,950 consumers registered with the National PCEHR in collaboration with the Western Sydney and Eastern Sydney Medical Locals

Over 2,1M Clinical Documents stored in the Clinical Repository

NSW Health Clinical Portal accessed over 58,000 times by NSW clinicians

National PCEHR accessed 5,000 times since September 2013

Over 2.1M diagnostic imaging studies (which includes 74M images)

Over 15,100 electronic discharge summaries uploaded to the National PCEHR since October 2013 – NSW leading the way Nationally.

Over 1,700 documents downloaded by public clinicians (cross State discharge summaries, ACIR, Medicare / PBS information.)
HealthNet
Patient Journey
Patient visits GP (Information held in Best Practice)
GP uploads Shared Health Summary to the patient’s National eHealth Record

<table>
<thead>
<tr>
<th>Medication</th>
<th>Directions</th>
<th>Clinical Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coumadin 1mg Tablet</td>
<td>1 Daily</td>
<td></td>
</tr>
<tr>
<td>Coumadin 5mg Tablet</td>
<td>1 Daily</td>
<td></td>
</tr>
<tr>
<td>Frusemide 40mg Tablet</td>
<td>1 In the morning after meals</td>
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</tr>
<tr>
<td>Glipizide 5mg Tablet</td>
<td>2 tablets Daily</td>
<td></td>
</tr>
<tr>
<td>Metoprolol Tartrate 50mg Tablet</td>
<td>1 Daily</td>
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</table>

Medical History

Medical History - Procedures - Exclusion Statement
Patient visits the hospital. Clinician access the NSW Clinical Portal directly from the (Acute and Community) EMR.
The Clinical Portal is launched from the EMR (*in patient context*) without logging on to a separate system.

- **Shared Clinical Documents** created by NSW hospitals across the State (HealththeNet sites only)
- **Shared Patient Information from the National eHealth Record (PCEHR)**
- **Linked to Enterprise Patient Registry to collate NSW identifiers across LHDs including the IHIs**
- **Linked Enterprise Medical Imaging Repository to ALL NSW Medical Images and Reports**
- **Cross-LHD Alerts, Allergies, Encounters**
- **Cross-LHD Visit History**
Patient’s previous medical image from another hospital can be viewed.
Clinician clicks on the GP Shared Health Summary

Shared Health Summary uploaded by GP to the PCEHR

Medications, Medical History and Immunisations information viewable by public clinicians
Clinician clicks on Medicare Information View from the PCEHR
1. **Electronic Discharge Summary** is stored in NSW Clinical Portal to share with other public clinicians across NSW.
2. **Electronic Discharge Summary** is sent directly to the GP.
3. **Electronic Discharge Summary** is submitted to the National eHealth Record (patient view)

<table>
<thead>
<tr>
<th>Medications</th>
<th>Modified Release</th>
<th>Dose</th>
<th>Unit</th>
<th>Frequency</th>
<th>Route</th>
<th>Duration</th>
<th>Dispensed on Discharge</th>
<th>Reason for Change / Indication</th>
<th>Status</th>
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<tbody>
<tr>
<td>CILAZAPRIL</td>
<td>03-Oct-2013</td>
<td>2.5mg</td>
<td>Other: As directed by physician</td>
<td>Oral</td>
<td>Own supply</td>
<td>New medication</td>
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<td>2.5MG TAB</td>
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<tr>
<td>FRUSEMIDE</td>
<td>07-Aug-2013</td>
<td>40mg</td>
<td>Other: Take after Breakfast</td>
<td>Oral</td>
<td>Own supply</td>
<td>Medication continued - dose unchanged</td>
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<td>40MG TAB</td>
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<tr>
<td>METOPROLOL</td>
<td>24-Feb-2012</td>
<td>50mg</td>
<td>Other: Directed</td>
<td>Oral</td>
<td>Own supply</td>
<td>New medication</td>
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<td>TAB</td>
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<tr>
<td>GLIPIZIDE</td>
<td>24-Feb-2012</td>
<td>10mg</td>
<td>Daily</td>
<td>Oral</td>
<td>Own supply</td>
<td>New medication</td>
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<td>10MG TAB</td>
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Benefits of HealtheNet

**Reduces costs**
- Reduced costs in delivering healthcare services by eliminating wasteful processes
- Reduced inpatient admissions**
- Reduced ED visits**
- Standardised processes across services

**Improves patient safety**
- Prevent clinical documents (e.g. discharge summaries) from slipping through the cracks.
- Allows centralised reporting and monitoring

**Time efficiencies for clinicians and patients**
- Improved efficiency and access time to care i.e. reduction in time spent on administrative tasks gathering patient information
- Reduced administrative errors
- Helps eliminate resource intensive paper and fax-based systems and processes

**Better health outcomes**
- Reduces clinical errors
- Supports communication and collaboration for the patient circle of care
- Supports shared and integrated care

**A recent 10 year study in Canada (Alberta Provincial Health Record) found a 41% decrease in inpatient admissions and a 34% decrease in ED Visits**
HealtheNet Future Deployment (next 18 months)
11 Remaining LHDs and St Vincent’s
129 Hospitals, 150+ Community Services, 60 Aged Care Centres

Far West LHD**
- 3 Hospitals
- 1 Multi-Purpose Service
- 1 Aged Care Centre

Western NSW LHD**
- 19 Hospitals
- 19 Multi-Purpose Services
- 21 Aged Care Centres

Hunter New England
- 28 Hospitals
- 11 Multi-Purpose Services
- 12 Aged Care Centres

Southern NSW LHD**
- 10 Hospitals
- 3 Multi-Purpose Services
- 3 Aged Care Centres

Murrumbidgee LHD**
- 28 Hospitals
- 6 Multi-Purpose Services
- 16 Aged Care Centres

Northern Sydney LHD
- 8 Hospitals
- 1 Aged Care Centre

Central Coast LHD
- 3 Hospitals
- 1 Aged Care Centre

Mid-North Coast LHD**
- 6 Hospitals
- 1 Multi-Purpose Service
- 1 Aged Care Centre

Northern NSW LHD**
- 12 Hospitals
- 2 Multi-Purpose Services
- 3 Aged Care Centres

South Western Sydney LHD
- 8 Hospitals
- 1 Aged Care Centre

Sydney LHD
- 4 Hospitals

Metro LHDs will be funded through Ministry of Health funding
** Funded through the Rural eHealth Strategy
Statewide Rollout Update

• **July to February 2015 Implementation Cycle # 1**
  – Hunter New England LHD
  – Northern Sydney LHD and Central Coast LHD
  – Far West LHD and Western NSW LHD
  – Southern NSW and Murrumbidgee LHD
  – Sydney LHD and South Western Sydney LHD

• **January to June 2015 Implementation Cycle # 2**
  – Mid North Coast LHD and Northern NSW LHD
Future Development
(subject to funding)

NEHTA (National eHealth Transition Authority)
1. State Medication Record
2. National Prescription Dispense Record View
3. Child eHealth Record
4. Verified IHI for Newborns
5. Integrated Assisted Registration Module in the Clinical Portal
6. Community Event Summaries to the PCEHR and GPs
7. Pathology Information/Repository with feed to the PCEHR
8. Radiology Information/Repository with feed to the PCEHR

Other Sources
1. Antenatal Shared Care Planning (NSW Kids and Families)
2. eReferrals (NEHTA and Integrated Care Programme)
3. Integration to the NHSD (National Health Services Directory) (Ministry of Health)
4. Active Shared Care Planning (Integrated Care Programme)
5. Integration to a Clinical Pathways Tool (Integrated Care Programme)
6. Clinical Messaging to Non-Government Organisation’s (Integrated Care Programme)
7. Outpatient Letters to GP’s, Non-Government Organisation’s and the PCEHR (Integrated Care Programme)