NZ e Prescription Service (NZePS) for Better Management of Medicines

Nurse Practitioners Conference 2017

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Agenda

• Context - Prescriptions & Medicines Management
• Perspectives & Themes – for Nurse Practitioners
• Electronic Special Authorities for NP Prescribers – a chance to learn
• NZePS Basic Concepts – NZ e-Prescribing or e-Prescription Service or?
• Progress - where is NZePS now?
• In conclusion – Perspectives & Themes
Context: For better medicines management

- Hospital electronic Prescribing & Administration
- Hospital Medicines Reconciliation
- Residential Care Charting
- Special Authorities
- NZ Universal List of Medicines (NZULM)
- NZ Formulary (NZF)
- Shared Care – Collaborative Care Medicines Management Services
Context: Global investments

- USA: https://healthit.ahrq.gov/key-topics/electronic-prescribing
- Canada: https://www.infoway-inforoute.ca/en/solutions/e-prescribing
- UK: http://systems.digital.nhs.uk/eps
Context: Goals for better medicines management

- Safety – reducing clinical errors
- Efficacy – right medicines, right way, right time
- Efficiency – smarter use of resources and reducing administrative errors
- Equity – Access to health services as a social good
Perspectives and Themes: for Nurse Practitioners

Shared challenges are:

• Value comes only when models of care change
• Change only comes when language changes
• Everyone needs to be a partner – a collaborator
  • Including IT
**e-Special Authorities - Nurse Prescribers want ..**

**Option: A**

- **Prescriber**
  - Prescribing Module
  - Patient Management System
  - Integration

- **Pharmacist**
  - Dispensing Module
  - Pharmacy Management System
  - Integration

  **Special Authority Approval Service**

**Option: B**

- **Prescriber**
  - Prescribing Module
  - Web Browser
  - IE, Chrome, ...

- **Pharmacist**
  - Dispensing Module
  - Pharmacy Management System
  - Integration

  **Special Authority Approval Service**
e-Special Authorities – IT would prefer ...

Option: A

- Prescriber
  - Prescribing Module
  - Patient Management System
  - Integration

- Pharmacist
  - Dispensing Module
  - Pharmacy Management System
  - Integration

Special Authority Approval Service

Option: B

- Prescriber
  - Prescribing Module
  - Web Browser
  - IE
  - Chrome

- Pharmacist
  - Dispensing Module
  - Pharmacy Management System
  - Integration

Special Authority Approval Service
E-Special Authorities: Option A delivered

• All General Practice Patient Management Systems support integrated electronic special authorities .. nearly

• Same functionality for all prescribers regardless of profession

• Required a shift in mindset both to Practice IT management & Vendor IT development & testing decisions

• Clinical - Business Process & Workflow integration

• Collaboration & Competition
An NZePS electronic prescription

COPY ONLY
Dr Sam Entwistle
NZMC Reg No. A88984-3 HPI Facility. F99999-B

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GMS: A4 DOB: 1 Feb 1934 NHI: PRP1660

Rx
Dispense stat list medicines once only unless Frequent Dispense specified

Panadol 500mg Tab
Sig: 2 tabs, As Required
Mitte: 60 tabs
("Generic Substitution Allowed")
NZePS - the basic concept

1. Prescribe creates prescription
2. Patient takes prescription to pharmacy
3. Pharmacist scans the prescription barcode (or processes manually if barcode can’t be scanned)
4. Pharmacist dispenses
5. PMS retrieves prescription details
   - Dispense details sent to NZePS
   - Dispense details sent to NZePS
   - Dispense details sent to NZePS
   - PMS updates patient record

NZ ePrescription Service (NZePS)
NZePS - the basic concept

Enabling a shared clinical record for medicines
Value proposition - For the Prescriber

Safety, Efficacy, Efficiency

- Won’t have to handwrite prescriptions for Controlled Drugs - *time*
- Won’t have to send original prescriptions to the pharmacy after they have been faxed - *time and cost*
- Reduced interruptions from pharmacies querying prescriptions - *time*
- Helps evaluate and address issues of patient medicines adherence – *quality, patient outcomes, health sector cost savings*
- Improves quality of patient medication history information - *quality, patient outcomes*
Uptake & Usage at 28 April 2017

63 GP sites = 6%
112K = 6.7%
21K = 1.2%

Enabling a shared clinical record for medicines
NZePS Progress

All prescriber ePrescriptions scanned at pharmacies

- Jan-16: 6668, 13.30%
- Feb-16: 7097, 10.34%
- Mar-16: 8242, 11.81%
- Apr-16: 9095, 14.67%
- May-16: 10716, 14.61%
- Jun-16: 10118, 14.18%
- Jul-16: 9936, 13.96%
- Aug-16: 12664, 17.19%
- Sep-16: 13238, 19.65%
- Oct-16: 13959, 20.39%
- Nov-16: 15749, 25.96%
- Dec-16: 17689, 29.00%
- Jan-17: 17026, 19.85%
- Feb-17: 18025, 18.90%
“Shining a light on medicines management”
Perspectives and Themes: Summary

Shared challenges are:

- Value comes only when models of care change
- Change only comes when language changes
- Everyone needs to be a partner – a collaborator
  - Including IT
- Change is complex and complicated