Personally Controlled Electronic Health Record (PCEHR)

A Patient Story
A/Prof Chris Pearce
Figure 4: PCEHR System concept
Figure 7: Managing PCEHR information
Frank Harding
With a few health issues...

Moderate Depression

Non-Insulin Dependent Diabetes (Type 2)

Ex Smoker (30 day)

175cm, 98kg
BMI of 32

Drug Reactions:
-Prozac
Mr Frank Harding

Address: 17 Rosemary Avenue, Croydon, 3136 VIC

**Contact Details**

- **Address:**
  - Street Address: 17 Rosemary Avenue
  - Post Code: 3136

- **Suburb:**
  - Croydon

- **State:**
  - VIC

- **Phone:**
  - Home: 03 9999 9999

- **Email:**
  - frank.harding@hotmail.com

**Emergency Contact**

- **Name:**
  - First Name: Daonhe
  - Last Name: Harding

- **Address:**
  - Street Address: 17 Rosemary Avenue
  - Post Code: 3136

- **Suburb:**
  - Croydon

- **State:**
  - VIC

- **Phone:**
  - Home: 03 9999 9999

- **Mobile Phone:**
  - 0408 999 999

**Enter a summary of your relevant health issues:**

I've developed hay fever over spring
Frank visits his GP
Health Summary exported to the PCEHR successfully.
The Future is E-Health

Personally Controlled Electronic Health Records (PCEHR)

Frank Harding
...now a Grey Nomad
Frank visits Cairns
### Individual Health Id:

- Medicare no.:

### Given Name:
Frank

### Family Name:
Harding

### Gender:
Male

### Date of Birth:
21/5/1946

### Street Number:

### Suburb:

### Street Name:

### Post Code:

### State:

<table>
<thead>
<tr>
<th>IHI</th>
<th>Given</th>
<th>Family</th>
<th>DOB</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003601234567894</td>
<td>Frank</td>
<td>Harding</td>
<td>21 May 1946</td>
</tr>
</tbody>
</table>
Patient Admission
This is a NEHTA demonstrator on the concepts of Personally Controlled Electronic Health Records. Version 1.1.11339.

Individual Health Id: 8003601234567894
Given Name: Frank

Date of Birth: 21/05/1946
Address: 17 Rosemary Avenue
Suburb: Croydon

Family Name: Harding
Sex: Male

Post Code: 3136
State: VIC
GP Name: Select a GP

There are external documents that are inaccessible to this organisation.

Admit Patient Clear
<table>
<thead>
<tr>
<th>ATS Category</th>
<th>Patient</th>
<th>Presenting Problem</th>
<th>Date of Birth</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Frank Harding</td>
<td>Chest Pain and shortness of breath</td>
<td>21 May 1946</td>
</tr>
<tr>
<td>4</td>
<td>Francis Abbey</td>
<td>Suspected food poisoning - vomiting and diarrhoea without dehydration.</td>
<td>29 Apr 1948</td>
</tr>
<tr>
<td>5</td>
<td>Maria Arioti</td>
<td>Bicycle accident, minor wounds, small abrasion.</td>
<td>14 Oct 1982</td>
</tr>
<tr>
<td>5</td>
<td>Darren Bailey</td>
<td>Returning patient - wound review.</td>
<td>04 Dec 1934</td>
</tr>
</tbody>
</table>
GP up in Port Douglas
CLINICAL SYNOPSIS

This patient is aged 65 years and is non-insulin dependent diabetic. He presented with a 2 day history of a productive cough, fever, chills, gradually worsening shortness of breath, chest pain and a temperature of 39.0 degrees C. He was assessed by the ED and admitted to hospital. A chest x-ray revealed left lower lobe pneumonia and exacerbation of COPD. He was treated with IV ceftriaxone 2g daily for three days. This patient was discharged 3 days later, much improved and referred back to his GP for follow up.

PROBLEMS/DIAGNOSIS

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Principal Diagnosis</td>
<td>Left Lower Lobe Pneumonia</td>
</tr>
<tr>
<td></td>
<td>Chronic Obstructive Pulmonary Disease</td>
</tr>
<tr>
<td>Comorbidities</td>
<td>Depressive disorder</td>
</tr>
<tr>
<td></td>
<td>NIDDM - Non-insulin dependent diabetes mellitus</td>
</tr>
</tbody>
</table>

CURRENT MEDICATIONS ON DISCHARGE

<table>
<thead>
<tr>
<th>Status Item Description</th>
<th>Dose Instructions</th>
<th>Reason for Medication</th>
<th>Duration</th>
<th>Change made (+ reason for change)</th>
<th>Quantity Supplied</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Cephalexin 500 mg capsule</td>
<td>1 capsule, three times a day</td>
<td>Left Lower Lobe Pneumonia</td>
<td>1 Week</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>Prednisolone 5 mg tablet</td>
<td>Reduce to twice a day after 5 days</td>
<td>Chronic Obstructive Pulmonary Disease</td>
<td>11 days</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>Voltaren (Diclofenac sodium) 50mg tablet</td>
<td>1 tablet, twice daily</td>
<td>Lower back pain</td>
<td>Ongoing</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Citalopram 20 mg tablet</td>
<td>1 tablet, once daily</td>
<td>Depressive disorder</td>
<td>Ongoing</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Metformin hydrochloride 500 mg tablet</td>
<td>1 tablet, twice daily</td>
<td>NIDDM - Non-insulin dependent diabetes mellitus</td>
<td>5 weeks</td>
<td></td>
</tr>
</tbody>
</table>
### CEASED MEDICATIONS

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Reason for Ceasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceftriaxone 2 g injection, vial</td>
<td>Transitioned to oral antibiotics</td>
</tr>
<tr>
<td>Ventolin (salbutamol (as sulfate) 5 mg/2.5 mL Nebule, ampoule</td>
<td>No longer required</td>
</tr>
</tbody>
</table>

### ALLERGIES/ADVERSE REACTIONS

<table>
<thead>
<tr>
<th>Agent</th>
<th>Reaction description</th>
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<tbody>
<tr>
<td>Prozac</td>
<td>Vomiting Rash</td>
</tr>
<tr>
<td>Penicillin</td>
<td>Urticaria (Severe)</td>
</tr>
</tbody>
</table>

### CLINICAL INTERVENTIONS THIS VISIT

- Intravenous antibiotic therapy (IV ceftriaxone for pneumonia)
- Chest Physiotherapy (To assist with sputum clearance)

### RECOMMENDATIONS

<table>
<thead>
<tr>
<th>To</th>
<th>Note</th>
</tr>
</thead>
</table>
| Dr Chris Javad  
[HPN-ID: 8003610000010401] | Review by GP 1/52, repeat LFTS 2/52, repeat CXR 1/12 |

### NOMINATED PRIMARY HEALTHCARE PROVIDERS

<table>
<thead>
<tr>
<th>Name (+role)</th>
<th>Organisation</th>
<th>Address</th>
<th>Contact</th>
</tr>
</thead>
</table>
| Dr Chris Javad  
[HPN-ID: 8003610000010401] | Medi7 Croydon  
[HPN-ID: 8003620000030390] | 88 Main Street, Croydon, 3136, VIC | Phone: 03 9013 9706 |

### OTHER RECIPIENTS

<table>
<thead>
<tr>
<th>Name (+relationship to patient)</th>
<th>Organisation</th>
<th>Address</th>
<th>Contact</th>
</tr>
</thead>
</table>
| Mr Frank HARDING  
(Patient) |              | 17 Rosemary Avenue, Croydon, 3136, VIC | Phone: 03 2222 4444 |

### OTHER PARTICIPANTS  
(Legend: Responsible Health Professional = "*"

<table>
<thead>
<tr>
<th>Name (+role)</th>
<th>Organisation</th>
<th>Address</th>
<th>Contact</th>
</tr>
</thead>
</table>
| Dr James Brecker*  
(Consultant)  
[HPN-ID: 8003620000001694] | Bay Hill Hospital  
[HPN-ID: 8003620000020052] | 19 High Street, Melbourne, 3000, VIC | Phone: 03 9999 9999 |
| Dr Philippe Watson  
(Registrar)  
[HPN-ID: 800362000000195] | Bay Hill Hospital  
[HPN-ID: 8003620000020052] | 19 High Street, Melbourne, 3000, VIC | Phone: 03 9999 9999 |
| Dr Michael Dancer  
(Registrar)  
[HPN-ID: 800362000000179] | Bay Hill Hospital  
[HPN-ID: 8003620000020052] | 19 High Street, Melbourne, 3000, VIC | Phone: 03 9999 9999 |
## Pathology Report

**Pathology Report To**
- Healthcare Provider Id: HPI-18003610000010393
- Provider Name: Dr PALM, Lisa

**Facility**
- Provider Organisation Id: HPO-0003620000030335
  - Organisation Name: Fort Douglas Medical Centre
  - Facility Address: 30 Warner Street
  - Suburb/TownLocality: Fort Douglas
  - State/Province: QLD
  - Postcode: 4899
  - Country: AUS
  - Electronic Address:

**Pathology Test Requester**
- Healthcare Provider Id: HPI-18003610000010393
- Provider Name: Dr PALM, Lisa
- Provider Organisation Id: HPO-00036200000303473
- Electronic Address:

### Investigations

#### Liver function tests

<table>
<thead>
<tr>
<th>Priority</th>
<th>Specimen Type</th>
<th>Status</th>
<th>Specimen Qualifier</th>
<th>Lab No.</th>
<th>Specimen Site</th>
<th>Requested Date/Time</th>
<th>Result Date/Time</th>
<th>Result Name</th>
<th>Value</th>
<th>Unit</th>
<th>Reference Range</th>
<th>Abnormal Indicator</th>
<th>Testing Method</th>
<th>Status</th>
<th>Observed date</th>
</tr>
</thead>
</table>

**Comments:**
- Patient consistent with obstruction

---

**Pathology Report**
- Provider Organisation Id: HPO-0003620000030473
- Organisation Name: Queensland Pathology Services
- Electronic Address:

**Pathology Report Identifier**
- Pathology Report Indicator: 10115483817001
- Date/Authored: 11 Oct 2009 16:47
- Version Number: 01
- Date/Issued: 11 Oct 2009 15:45

---

**Subject Of Care**
- Patient Id: IM20090123857994
- Patient Name: Mr. HARDING, Frank

**Address**
- 17 Rosemary Avenue
- Croydon
- VIC
- 3136
- Country: AUS
- Sex: M
- DOB: 21 May 1945
- Age: 65

---

**Pathology Report Status**
- Date/Authored: 11 Oct 2009 16:47
- Date/Issued: 11 Oct 2009 15:45
Frank logs back into Consumer Portal
User Login

User ID: 8003601234567894
Password: ****
Login

Retrieve my password
Register me now

PCEHR Benefits

- Securely access your health information anywhere in the world
- Share your health documents with your trusted health providers
- View who has accessed your PCEHR recently

This is a NEHTA demonstrator on the concepts of Personally Controlled Electronic Health Records, V 1.2
Mr Frank Harding
Address: 17 Rosemary Avenue, Croydon, 3136 VIC

Born: 21 May 1946 (64y)  Gender: Male  HII: 8003601234567894

Clinical Info  My Health  Messages  Privacy

Sunday, 31 October 2010  •  Logout

Summary

Health Summary

Provided by: Dr Adam Jones (Croydon Family Practice)
Last updated: 31 Oct 2010

Allergies
29 Oct 2010  Prozac - Rash (Moderate)  - Source

Medications
29 Oct 2010  Citalopram 20mg Tablet [Brand]
1 Daily (Oral)  - Source
29 Oct 2010  Metformin 500mg Tablet extended release
(Brand) 3 Daily (Oral)  - Source

Conditions
27 May 2008  Endogenous depression  - Source
13 Nov 2005  Non insulin dependent Diabetes Mellitus  - Source

Providers

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Provider</th>
<th>Speciality</th>
<th>Most Recently Published</th>
</tr>
</thead>
<tbody>
<tr>
<td>Byron Bay Pharmacy</td>
<td>Mrs Susan White</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication</td>
</tr>
<tr>
<td>Calms General Hospital</td>
<td>Dr James Brecker</td>
<td>RESPIRATORY MEDICINE</td>
<td>Discharge Summary</td>
</tr>
<tr>
<td>Coffs Harbour Pharmacy</td>
<td>Mr Charles White</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication</td>
</tr>
<tr>
<td>Croydon Family Practice</td>
<td>Dr Adam Jones</td>
<td>GENERAL MEDICAL PRACTICE</td>
<td>Health Summary</td>
</tr>
</tbody>
</table>

System Maintenance
System will be unavailable between 3.00am - 5.00am EST 5 Nov 2010

Manage My Privacy
8 providers have accessed my PCEHR in the last year.

Recent Events
0 new documents have been added to your record since your last visit (31 Oct 2010).
<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Description</th>
<th>Repository</th>
<th>Source Provider &amp; Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 Oct 2010</td>
<td>Discharge Summary</td>
<td>Discharge Summary</td>
<td>Cairns General Hospital</td>
<td>Dr James Brecker</td>
</tr>
<tr>
<td>31 Oct 2010</td>
<td>Health Summary</td>
<td>Health Summary</td>
<td>QLD Health Repository</td>
<td>Dr Adam Jones</td>
</tr>
<tr>
<td>22 Sep 2010</td>
<td>Medication Dispensed - 2nd Repeat</td>
<td>Metformin Hydrochloride (Chemmart) (metformin hydrochloride 500 mg) tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mr Paul Green Townsville Pharmacy</td>
</tr>
<tr>
<td>21 Sep 2010</td>
<td>Medication Dispensed - 2nd Repeat</td>
<td>Citalopram (Chemmart) (citalopram (as hydrobromide) 20 mg) tablet: film-coated, 1 tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mr Paul Green Townsville Pharmacy</td>
</tr>
<tr>
<td>23 Aug 2010</td>
<td>Medication Dispensed - 1st Repeat</td>
<td>Citalopram (Chemmart) (citalopram (as hydrobromide) 20 mg) tablet: film-coated, 1 tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mrs Susan White Byron Bay Pharmacy</td>
</tr>
<tr>
<td>23 Aug 2010</td>
<td>Medication Dispensed - 1st Repeat</td>
<td>Metformin Hydrochloride (Chemmart) (metformin hydrochloride 500 mg) tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mrs Susan White Byron Bay Pharmacy</td>
</tr>
<tr>
<td>13 Aug 2010</td>
<td>Medication Dispensed</td>
<td>Ventolin inhaler CFC-Free (salbutamol (as sulfate) 100 microgram/actuation) inhalation: pressurised (brand)</td>
<td>eMedication Repository</td>
<td>Mr Charles White Coffs Harbour Pharmacy</td>
</tr>
<tr>
<td>25 Jul 2010</td>
<td>Medication Dispensed</td>
<td>Metformin Hydrochloride (Chemmart) (metformin hydrochloride 500 mg) tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mr John Blue East Croydon Pharmacy</td>
</tr>
<tr>
<td>24 Jul 2010</td>
<td>Medication Dispensed</td>
<td>Citalopram (Chemmart) (citalopram (as hydrobromide) 20 mg) tablet: film-coated, 1 tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Mr John Blue East Croydon Pharmacy</td>
</tr>
<tr>
<td>24 Jul 2010</td>
<td>Pathology</td>
<td>Cholesterol (more info)</td>
<td>Vic Path Repository</td>
<td>Mr Paul Herlow Victoria Pathology Services</td>
</tr>
<tr>
<td>24 Jul 2010</td>
<td>Pathology</td>
<td>Haemoglobin A1C (more info)</td>
<td>VML Path Repository</td>
<td>Mr Andrew Parker VML Pathology</td>
</tr>
<tr>
<td>23 Jul 2010</td>
<td>Medication Dispensed</td>
<td>Citalopram (Chemmart) (citalopram (as hydrobromide) 20 mg) tablet: film-coated, 1 tablet (Brand)</td>
<td>eMedication Repository</td>
<td>Dr Jane Anderson Croydon GP Centre</td>
</tr>
</tbody>
</table>
### Providers

<table>
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<th>Organisation</th>
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<tbody>
<tr>
<td>Byron Bay Pharmacy</td>
<td>Mrs Susan White</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication Disposed - 1st Repeat 23 Aug 2010</td>
</tr>
<tr>
<td>Cairns General Hospital</td>
<td>Dr James Brocker</td>
<td>RESPIRATORY MEDICINE</td>
<td>Discharge Summary 31 Oct 2010</td>
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<tr>
<td>Coffs Harbour Pharmacy</td>
<td>Mr Charles White</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication Disposed 13 Aug 2010</td>
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<tr>
<td>Croydon Family Practice</td>
<td>Dr Adam Jones</td>
<td>GENERAL MEDICAL PRACTICE</td>
<td>Health Summary 31 Oct 2010</td>
</tr>
<tr>
<td>Croydon GP Centre</td>
<td>Dr Jane Anderson</td>
<td>GENERAL MEDICINE</td>
<td>Medication Dispensed 23 Jul 2010</td>
</tr>
<tr>
<td>East Croydon Pharmacy</td>
<td>Mr John Blue</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication Dispensed 25 Jul 2010</td>
</tr>
<tr>
<td>Ringwood East Medical Centre</td>
<td>Dr James McCarthy</td>
<td>GENERAL MEDICINE</td>
<td>Health Summary 5 Apr 2007</td>
</tr>
<tr>
<td>Townsville Pharmacy</td>
<td>Mr Paul Green</td>
<td>PHARMACY (CLINICAL)</td>
<td>Medication Dispensed - 2nd Repeat 22 Sep 2010</td>
</tr>
<tr>
<td>Victoria Diagnostic Imaging</td>
<td>Mrs Gail Merryweather</td>
<td>DIAGNOSTIC IMAGING</td>
<td>Radiology 20 Jun 2008</td>
</tr>
<tr>
<td>Victoria Pathology Services</td>
<td>Mr Paul Herlow</td>
<td>GENERAL PATHOLOGY</td>
<td>Pathology 24 Jul 2010</td>
</tr>
<tr>
<td>VML Pathology</td>
<td>Mr Andrew Parker</td>
<td>GENERAL PATHOLOGY</td>
<td>Pathology 30 Jul 2009</td>
</tr>
</tbody>
</table>
Mr Frank Harding

Address: 17 Rosemary Avenue, Croydon, 3136 VIC

Born: 21 May 1946 (64y)  Gender: Male  IIH: 8003501234567894

Clinical Info  My Health  Messages  Privacy

Sunday, 31 October 2010  •  Logout

Manage My Privacy

Who can access my index?

Discussions on this issue to be carried out.

Who has accessed my index?

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Accessed By</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 Oct 2010, 05:38:55 PM</td>
<td>Mr Frank Harding</td>
<td>Log in</td>
</tr>
<tr>
<td>31 Oct 2010, 05:34:19 PM</td>
<td>Mr Frank Harding</td>
<td>Log in</td>
</tr>
<tr>
<td>31 Oct 2010, 05:24:14 PM</td>
<td>Dr James Brecker, Cairns General Hospital</td>
<td>Health record access</td>
</tr>
<tr>
<td>31 Oct 2010, 05:23:11 PM</td>
<td>Dr James Brecker, Cairns General Hospital</td>
<td>Organisational access to external documents changed from 'None' to 'Standard = Sealed'</td>
</tr>
<tr>
<td>22 Sep 2010, 12:57:25 AM</td>
<td>Paul Green, Townsville Pharmacy</td>
<td>Medication</td>
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<tr>
<td>21 Sep 2010, 11:08:25 PM</td>
<td>Paul Green, Townsville Pharmacy</td>
<td>Medication</td>
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<td>23 Aug 2010, 06:42:25 PM</td>
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<td>Medication</td>
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<tr>
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<td>Medication</td>
</tr>
<tr>
<td>13 Aug 2010, 01:12:25 AM</td>
<td>Charles White, Coffs Harbour Pharmacy</td>
<td>Medication</td>
</tr>
<tr>
<td>25 Jul 2010, 12:17:25 AM</td>
<td>John Blue, East Croydon Pharmacy</td>
<td>Medication</td>
</tr>
</tbody>
</table>

Who can I contact about my privacy?

Discussions on this issue to be carried out.
The Future is E-Health

Personally Controlled Electronic Health Records (PCEHR)

6 Weeks of Travelling

10 Health Care providers

6 repositories of information

One patient...

National E-Health Transition Authority
www.nehta.gov.au
Questions/Comments?