

PharmBiz

Software Vendors Forum 17th October 2011 (redacted)

- Introduction/setup
- Review Action Items
- "For Developers' website
- Chemotherapy Measure
- PharmCIS transition
- PBS Number
- Continued Dispensing

- Other Business
- Meeting Close

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'For Developers' Website

- dev.pbs.gov.au
- xml.pbs.gov.au has been retired
- links will redirect

'For Developers' Website

- Provides access to embargoed data
- Secure members-only area
- Application form available soon

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- Revised Arrangements for the Efficient Funding of Chemotherapy Drugs
- 5CPA
- Replaces ICSP

- Transition arrangements
- Will apply from 1 December 2011
- To allow claiming of existing scripts
 - Written up to 30 November 2011
- End of transition period under review
 - Minimum 4 months

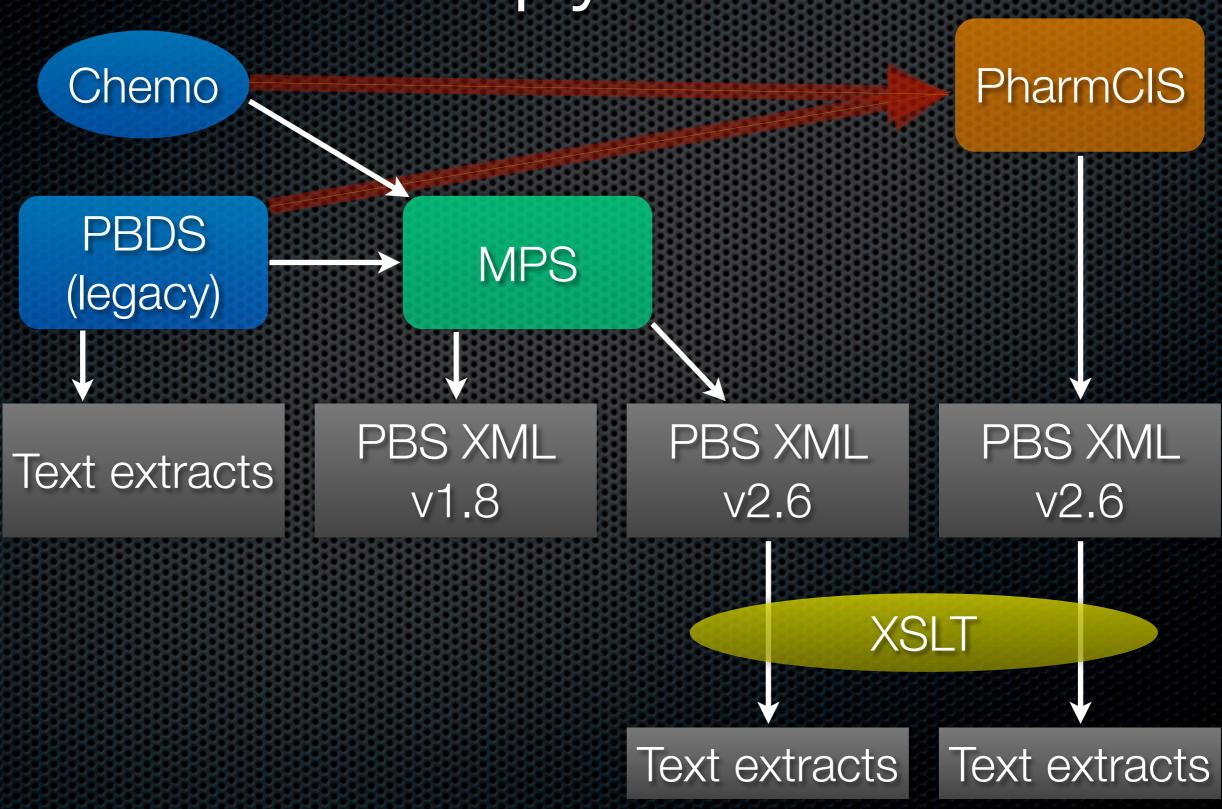
- Still aiming for 1 December 2011
- Issues with certain Public Hospitals
- Considering staged implementation or other arrangements
- Liaison with stakeholders continuing on weekly basis

- Data availability
- ► PBS XML v2.6
 - October/November: only for infusible items
 - Late November: for all items
- PBS XML v1.8 (text extracts)
 - only for ready-prepared items

- Infusible listings interim data source
- AMT Concept IDs
- Only TPPs TPUUs
- Mapping not complete
- Non AMT IDs given for unmapped concepts
 Unmapped concepts use DoHA SCT namespace

- Upconvert legacy data to PBS XML v2.6
- Subject to limitations of legacy data
- Merge with infusible items
- Single source
- Requires further QA

- Test strategy
- Incremental release of test documents
- Quantitative testing of extracts
- Qualitative testing of samples
- See also testing of PharmCIS generated PBS XML



- Prescription specifies dosage
- Expressed in Unit Of Measure
 - Usually "1 milligram" ("1 mg")
- Other UOM not possible
 - 250 1 microgram
 - **= 500** 1 IU

- Listing
- All TPPs listed in PR regardless of size
- TPPs include mass of active ingredient
 - "pack content"
- TPP ≠ TPUU (Pack ≠ Vial)
 - "vial content"

- TPP reimbursement price ex-man (TPUU \$ex-man)
- TPP manufacturer price ex-man (TPUU \$ex-man)
- Can be different
 - TGP/OSPC or Brand Premium
- Reimbursement/manufacturer DPMQDPMA calculated
- Other DPMQs not defined

- Premiums
- Manufacturer DPMA: use man. \$ex-man
- Reimbursement DPMA: use reim. \$ex-man
- Patient Contribution = Man. DPMA Reim. DPMA
- TGP/OSPC can be exempt
- No Brand Premium

- Pricing formula
- Derive TPUU price from TPP price
- Use TPUU price to calculate markup for whole pack Use TPUU price in PBS XML

- Software solution:
- TPUU (vial) content = TPP (pack) content / pack size
- TPUU \$ex-man = TPP \$ex-man / pack size
- TPUU markup: ceiling(MA / vial content)
- TPP markup: TPUU markup * pack size
- No rounding

- Data solution:
- If TPP pack size ≠ 1
 List TPUU rather than TPP
- Include "fake" TPP with pack size = 1
- "fake" TPP \$ex-man = TPUU \$ex-man
- Non-AMT concept ID clearly identified

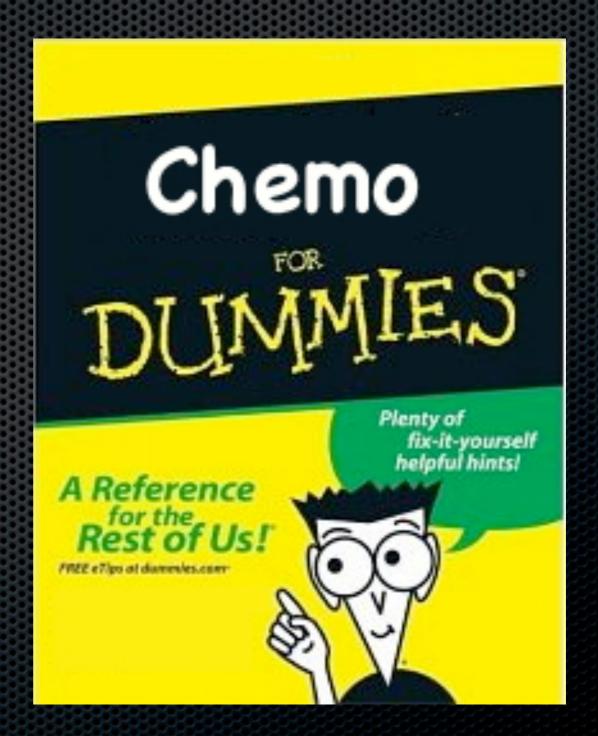
- Sunset clause
- Withdraw 'fake' TPPs after 12 months
- **1** December 2012

- What vial combination?
- Least cost to Commonwealth vial combination algorithm
- Wastage not a concern
- Only determines reimbursement price
- Any combination may be dispensed

- Algorithm inputs:
 - Listings
 - Mass of active ingredient, not vial volume
 - Infusible drug
 - Prescribed dosage
 - Dispensary type
 - Price type: reimbursement or manufacturer

- Algorithm outputs:
 - Reimbursement Infusion price
 - Sample TPP TPUU combination

- Algorithm version 68
- All combinations
- Shortcuts
- **TPUU**



- Example: Cisplatin Arsenic Trioxide
- **■** TPPs:
 - Phenasen (PL) 10mg in 10mL \$400.83
 - Pack size = 10, pack content = 100 vial content = 10

- Example:
- Dispensary type: Community Pharmacy
- Prescribed dosage: 18mg (max amount)

- Step 0: Calculate pack vial price for all TPPs
- For Community Pharmacy, Price Ex-manufacturer for Maximum Quantity Amount determines markup band
- TPUU \$ex-man = TPP \$ex-man / pack size
- TPUU pharmacy price = TPUU \$ex-man + markup
- PBS XML lists TPUU pricing data

- **■** Example: MA = 18mg
 - TPUU: Phenasen (PL), vial content 10mg
 - \sim ceiling(18 / 10) = 2
 - \$\square\$ \\$\square\$ \\$\quare\$ \\$\square\$ \\$\square\$ \\$\square\$ \\$\square\$ \\$\quare\$ \\$
 - 10% markup = \$4.0083
 - TPUU pharmacy price = \$40.083 + \$4.0083 = \$44.0913

- **■** Example: MA = 18mg
 - TPP: Phenasen (PL), pack content 100mg
 - \sim ceiling(18 / 100) = 1
 - \$ex-man 4 MA = 1 * \$400.83 = \$400.83
 - \$18.00 markup
 - TPP pharmacy price = \$400.83 + \$18.00 = \$418.83
 - * \$418.83 \neq 10 x \$44.0913

- Step 1: Compute per-UOM-price ▼ TPPs TPUUs
- TPP TPUU ex-man price / mass active ingredient
- No rounding

- Example:
 - Phenasen (PL) 10mg vial \$ex-man = \$40.083
 - per-UOM-price = \$4.0083

- Step 2: Grouping and sorting
- First group TPPs TPUUs by per-UOM-price
- Sort groups in ascending order of per-UOM-price
- Secondary sort: descending order of pack vial content
- Group together TPPs TPUUs with equal pack vial content

- **■** Example:
 - Phenasen (PL) 10mg puomp = \$4.0083

- Step 3: No-Wastage Shortcut
- Take first TPP TPUU group
- Has lowest per-UOM-price
- If some combination of TPPs TPUUs in this group exactly provides dosage then stop

- Step 3
- Start with first TPP TPUU subgroup in TPP TPUU group
- Largest pack vial content
- If pack vial content > dosage then skip
- If dosage mod pack vial content = 0 then stop
- Otherwise try 1..floor(dosage / vial content)

- Example: dosage D = 15mg
- Consider TPUU group puomp=\$4.0083
 - Phenasen 10mg, 1 subgroup
- \blacksquare D mod 10 = 5

- Step 4, substeps:
- 4a: use only lowest puomp, largest vial content
- 4b: use lowest puomp, all other smaller vial content (recursive)
- 4c: use 4a → 0, fill remainder dosage with higher puomp only if possibly cheaper (recursive)
- 4d: use all higher puomp (recursive)

- Example: Step 4a
- TPUU group Phenasen 10mg, 1 subgroup
- #TPUUs = ceiling(15mg / 10mg) = 2
- 4a price = 2 * vial price = 2 * \$44.0913 = \$88.18

- Example: Step 4b
- TPUU group Phenasen 10mg, 1 subgroup
- no other subgroups
- 4b price = \$∞

- Example: Step 4c
- TPUU group Phenasen 10mg, 1 subgroup
- #TPUUs = floor(15mg / 10mg) = 1
- new dosage = 15mg 1 * 10mg = 5mg
- No other TPUU group
- **■** 4c price = \$∞

- Example: Step 4d, dosage 15mg
- No other TPUU group
- 4d price = \$∞

- Example: Step 4
- Price = min(\$88.18, \$∞, \$∞, \$∞)= \$88.18
- TPP combo =0.2 x Phenasen 10mg in 10mL, 10

- Add infusion fees
- Wholesale fee \$24.00
- Diluent fee \$4.75
- Preparation fee \$40.00
- Dispensing fee \$6.42
- Total: \$163.35

- **■** PBS XML v2.4 v2.6
- No changes planned for text files
- Additional XSL stylesheet
 - amt.xsl

```
<pbs:prices puomp="4.0083">
    <pbs:tpp-list>
        <pbs:ex-manufacturer>400.83</pbs:ex-manufacturer>
        <pbs:tpuu-ex-manufacturer>40.083</pbs:tpuu-ex-manufacturer>
...
```

```
<pbs:prices puomp="4.0083">
 <pbs://example.com/spbs:tpp-list>
  <pbs:pack-price>
   <pbs:price dispensing-rule="http://schema.pbs.gov.au/DR/IN/S90-cp">
    <pbs:amount>440.91</pbs:amount>
    <pbs:markup xlink:href="#abcsu">40.08</pbs:markup>
   </ps:price>
  </pse></pse>
```

```
<pbs:prices puomp="4.0083">
 <pbs://example.com/spbs:tpp-list>
  <pbs://example.com/pbs:tpuu-pharmacy-price>
   <pbs:price dispensing-rule="http://schema.pbs.gov.au/DR/IN/S90-cp">
     <pbs:amount>44.091</pbs:amount>
     <pbs:markup xlink:href="#abcsu">4.008</pbs:markup>
   </pse>
  </pse></pse>
```

```
<pbs:prices puomp="4.0083">
    <pbs:tpp-list>
    ...
    <pbs:pack-content unit="mg" amount="1">100</pbs:pack-content>
         <pbs:vial-content unit="mg" amount="1">10</pbs:pack-content>
    ...
```

```
<pbs:mpp xml:id="abcmv">
  <dbk:title>I.V. injection 10 mg in 10 mL</dbk:title>
  <pbs:pack-size>10</pbs:pack-size>
  <pbs:pack-content unit="mg" amount="1">100</pbs:pack-content>
  <pbs:vial-content unit="mg" amount="1">10</pbs:vial-content>
```

Monday, 7 November 2011

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PharmCIS Transition

- PharmCIS currently in testing
- Production in early 2012
- Generating PBS XML v2.6

PharmCIS Transition

- Testing and QA of PBS XML
- Incremental release of test documents
- Include build number (serial number)
- Release Notes
 - Description of dataset
 - Inclusions/exclusions

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PBS Number

- 2011-10-17: most 4 digit codes allocated
- pre-1987 codes: approx 600 codes
- PharmCIS: 200 codes
- Estimated exhaustion: 2014-5?

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Continued Dispensing

- Commences 1 July 2012
- Pharmacists may dispense chronic medicine without script
- Applies to certain PBS Items
 - Indicated by presence of <pbs:continued-dispensing/>

Continued Dispensing

```
<pbs:prescribing-rule type="restricted" xml:id="abchx">
        <pbs:code>2702F</pbs:code>
        <pbs://ember-of-list>
                 <pbs://examples.com/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sinks/sink
        </ps></ps:member-of-list>
        <pbs:effectivity>
                 <pbs:start>2012-07-01</pbs:start>
        </pse>
        <pbs:continued-dispensing/>
        <pbs:ready-prepared>
                 <pbs:mpp-reference xlink:href="#abcgi"/>
```

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Meeting Close

- Next meeting
- ► February 2012?