Hospital based innovations at the Royal Children’s Hospital, Melbourne

Sonja Elia, NUM Immunisation
The Immunisation Service

- Three core services
  - Drop-in centre
  - Telephone advice line
  - Weekly outpatient clinic

- Funding through partnerships with the Vict. Dept of Health & Human Services - Immunisation section
Inpatient Immunisations - Background

- Previously, children admitted to the wards at RCH have not routinely had immunisation status checked using the Australian Childhood Immunisation Register (ACIR)
5th June 2013

- 5 yrs and 9 mths

- Not up to date, had 2 month, 4 month and others unsure
Inpatient Immunisations - aim

• From Sept 2013, immunisation status of inpatients 6 weeks to <7 years reviewed by immunisation centre nursing staff

• List sent by Decision Support team

• Checked daily and details of due/overdue children (according to ACIR) sent to the hospital Care Managers
Inpatient Immunisations - aim

• To provide catch-up immunisations or a catch-up plan or update ACIR
Inpatient Immunisations - results

- In a 22 week period (01/09/13 – 31/1/14) inpatients aged between 6 weeks and up to 7 years had immunisation status checked using ACIR
Overdue inpatients

• On average, 25% of inpatients are due/overdue for vaccines
Inpatient Immunisations - results

- Of the 840 overdue inpatients;
  - 355 (42%) were able to be immunised and brought up to date

- 485 inpatients were not immunised or did not have their immunisation status corrected on ACIR
Inpatient Immunisations

- Patients identified as due/overdue
- Those who received vaccines
- Percentage
Inpatient Immunisations
Inpatient Immunisations - Discussion

• Number of reasons for children may not have their immunisation status brought up to date;
  • Unwell on the day
  • Not all patients care managed
  • Already discharged
  • Unable to view status on ACIR
Future directions

- Electronic Medical Record
# Inpatient report

<table>
<thead>
<tr>
<th>Medicare No.</th>
<th>MRN</th>
<th>Patient</th>
<th>Age</th>
<th>Sex</th>
<th>Unit</th>
<th>Primary Problem</th>
<th>Dept/Room/Bed</th>
<th>Bedcard Consult</th>
<th>HP Topics Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>7200165</td>
<td>Ronson, Mark</td>
<td>3 y</td>
<td>Male</td>
<td>Gen Med A</td>
<td>None</td>
<td>Disch</td>
<td>Hardikar, Winta, Consultant</td>
<td>Mmr Immunisation</td>
<td></td>
</tr>
</tbody>
</table>
Update the record

Health Programme

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Topic</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/5/2014</td>
<td>MMRV Immunisation</td>
<td></td>
</tr>
</tbody>
</table>

Health Programme Plans

18mo Immunisation

Status Legend

- Overdue
- Due On
- Due Soon
- Postponed

Definitions

- Completed: Done with the required satisfactions
- Addressed: Overridden with the intention of not completing the topic
- Aged Out: No longer eligible based on patient's age to complete this topic

Override Type Abbreviations

- Done
- (N/S): Reason not specified

Health Programme Summary

MMRV Immunisation

Overdue

10/5/2014
Immunisation nurse order

mening vac A,C,Y,W135 dip (PF) 10-5 mcg/0.5 mL immunisation kit 0.5 mL

Order Inst.:
This medication is restricted by RCH Drug Usage Committee. Approval must be obtained from a member of the Drug Usage Committee. See http://www.mvec.vic.edu.au/immunisation-references/ for criteria

Reference Links:
1. DUC members to contact
3. RCH Pharmacy Medicines Information

Summary Report:
Show Current DUC/SAS approvals

Dose:
0.5 mL

Route:
Intramuscular

Frequency:
Once

Starting 19/11/2015
First Dose: Today 16:45
Number of doses: 1
Scheduled Times: Hide Schedule

19/11/15 16:45

Questions:
1. This order requires DUC approval
   Current DUC approval exists
   Exemption Criteria Met
   DUC approval obtained
   Unable to obtain approval

Admin. Inst.: (none)

Priority:
Routine

Additional Order Details
Requires doctor signature
Order ready for administration

**Immunisations - All Types**

**Incomplete Administrations**

- **Meningococcal Conjugate**
  - MCV4
  - MAR Administrable Only
  - Ordered: 19/11/2015 Nellie Clear

**Admission (Current) from 16/11/2015 in Kookaburra Ward with Physician Rch Beacon, Consultant**

- **mening vac A,C,Y,W135 dip (PF) 10-5 mcg/0.5 mL immunisation kit 0.5 mL**
  - Dose 0.5 mL
  - Intramuscular: Once
  - Due: 16:45

Admin Amount: 0.5 mL
Order ready for administration

Medication:

**Mening vac A,C,Y,W135 dip (PF) 10-5 mcg/0.5 mL immunisation kit 0.5 mL**

- **Dose**: 0.5 mL
- **Route**: Intramuscular
- **Administration Window**: 60 minutes from the due time

**Admin Amount**: 0.5 mL
**Frequency**: Once
**Order Dose**: 0.5 mL
**Administration Window**: 60 minutes from the due time

**Order Questions/Answers**
- This order requires DUC approval
- Current DUC approval exists

**Priority**: Routine
**Order ID**: 1045866
**Pharmacy Verification**: Not yet verified by pharmacist
**Order Start Time**: Today 19/11/15 at 16:45

**Next Actions**
- 19/11
- 16:45

**Action**:
- **Given**: Yes

**Date**: 19/11/2015
**Time**: 16:45

**Route**: Intramuscular
**Site**: Left Arm

**Dose**: 0.5 mL

**Order Concentration**: 1 mL/mL

**Immunisation Information**

<table>
<thead>
<tr>
<th>Lot/Eatch Num</th>
<th>NDC</th>
<th>VIS Date</th>
<th>Product</th>
<th>Manufacturer</th>
<th>Expiry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immunisation Questionnaire**

**Medication**: Mening vac A,C,Y,W135 dip (PF) 10-5 mcg/0.5 mL immunisation kit 0.5 mL

**Consent Given?**
- Yes
- No

**Select Special Risk Category**
- N/A
- Asplenia
- Dialysis
- IBD
- Onc
- Organ transplant

**Adverse Reaction?**
- Yes
- No

**SAEFVIC Reference Number**: 
Record updated

<table>
<thead>
<tr>
<th>Administration History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administered On</td>
</tr>
<tr>
<td>Meningococcal Conjugate MCV4</td>
</tr>
</tbody>
</table>
### Immunisations

Click on an immunisation name to see any additional details regarding that immunization.

<table>
<thead>
<tr>
<th>Immunisation</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTaP / IPV</td>
<td>19/11/2015</td>
</tr>
<tr>
<td>MMR</td>
<td>19/11/2015</td>
</tr>
</tbody>
</table>
30\textsuperscript{th} May 2016
Acknowledgements

• Dr Nigel Crawford (Medical Lead)
• Immunisation Nurses and Administrative team
  • Rebecca Feore, Jessica Elia, Philly Van Der Linden, Dave Hannon, Narelle Jenkins, Vicki Wall, Meg Carpenter
• Nellie Clear (Project Manager) EMR team
• Immunisation Section, Dept of Health and Human Services, Victoria
Past Acknowledgements

• Immunisation Nurses and Administrative team
  • Rachael McGuire, Kate Wall, Melissa Dallinger, Melissa Nesbitt, Kirsten Mitchell, Robin Cavanagh, Julie Bond, Mel Addison
Thank you!

I wish there was a vaccine that prevented me from hearing your opinion about flu shots.

someecards