



IMMUNISATION

Database & Forms

Vaccination & Immunisation System

Margaret Fogarty ADPHN / Immunisation



AD/PHN role in Immunisation



- Role varies in different areas
- Main role to improve uptake
- Team approach to follow up of defaulters
- Part of regional and local management team
- Liaison with practices / PHNs / promoting
- Public awareness
- Provision and distribution of current research and information





Topics

- History of current IT systems
- Community Care Systems
 - Where Vaccination/Immunisation fits in
- Benefits of IT system
 - Birth Recording
 - Vaccination/Immunisation
- Recent New Schemes
- What next?
 - Proposed New National Immunisation IT System
 - Issues
- Other issues to be addressed/considered

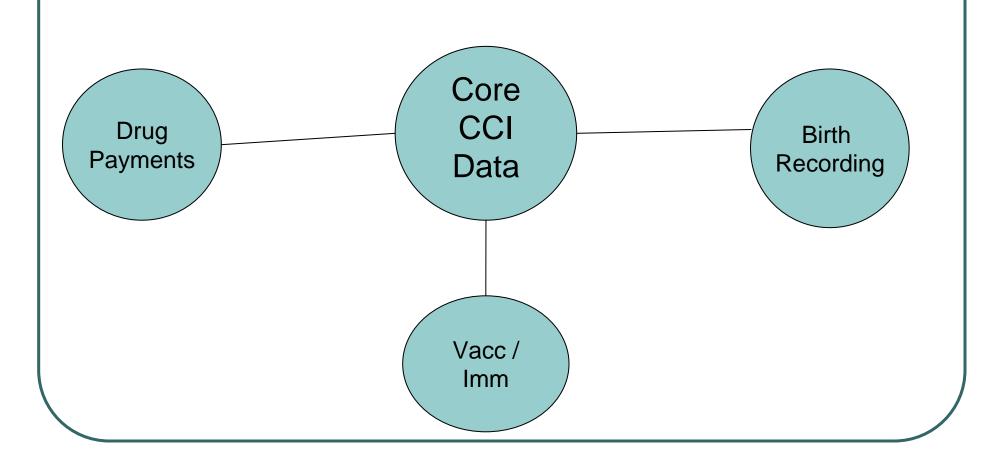




- Current Birth Recording & Vaccination/Immunisation systems developed in 1993.
- Designed & written In-House still supported In-House
- Part of a suite of Community Care orientated IT systems
- Launched in South Tipperary in 1993, rolled out to other LHO areas thereafter
- Single source of Primary Vaccination Details in the South East - almost 21 years of vaccination data at this point
- Has survived many changes Men C, Hib, 6 in 1, PCV,
 HPV



Community Care Systems- where Vacc / Imm sits







Community Care systems Where Vacc/Imm fits in

- Part of our Community Care systems.
- Community Client Index CCI. The CCI is a file containing the basic personal information on clients who have had any data processed using any of our Community Care systems. A CCI record is created the first time a person has a contact and will remain on file indefinitely
 - Data items held on the CCI fall into two main areas, personal and household. Personal data relates solely to the individual client but household data items are shared by members of the same family group at the same address.
 - Record a client once & once only
 - Sharing of CCI data across Community Care systems





Community Care systems Where Vacc/Imm fits in /contd

- Central storage of Core Demographic data, e.g. CCI no, Title, Surname, previous surname, Forename, DOB, Sex, martial status, client status, household id, relationship to householder, occupation code, date registered, GP, date of death, 4 lines of address, previous address(s), telephone/contact number, CWO area, PHN area.
- Single update of CCI data only required across all systems
 once updated in one system, update available to all other systems
- Allows a single view of client
- Audit Trail





Benefits of an IT system Birth Recording

- Records all birth details as per notifications received from Maternity Hospitals – 36 hr forms, e.g.
 - Birth weight, Apgar at 1min, Apgar at 5 mins, etc.
- Records Guthrie test results
- Produces labels with client details
- Records PHN of child and first contact details
 - Provides stats on number seen within a particular time-frame
- Automatically schedules the two month vaccines due for child when birth details recorded (age dependant)
- Establishes cohorts for vaccine uptake rates
- Provides lists of clients for PHN follow-up



Benefits of an IT system Vaccination/Immunisation



- Vaccination system provides a detailed call/recall system for all PCI vaccines –
- Other Benefits
 - Sharing and visibility of data many views of data
 - IT system helps staff follow defined Business rules
 - Provides a standard approach to how the service is delivered, e.g. do the same thing at the same time across all sites
 - In-built rules ensure veracity of vaccines administered, e.g.
 - Pre-loading of actual vaccine batch number & expiry date, means immediate flagging on screen to user if vaccine "expired".
 - If vaccine administered outside of defined window, vaccine flagged as "too soon" on screen to user.
 - Both scenarios result in the original vaccine remaining as "pending" on the system.
 - No payment issues to the GP as vaccine not deemed to be valid





Benefits of an IT system Vaccination/Immunisation /contd

- Listings for PHN's, GP's, Public Health staff
- Generates weekly payments to GP for vaccinations given
- Records detailed payment records for each child
- Generates bonus payments to GP's who obtain the required
 95% vaccination rate
- Help identify children in an outbreak situation who may require vaccination – e.g. recent MMR outbreak
- Quickly identify any children who received a particular batch of vaccine e.g. 2 batches of BCG vaccine a few years ago were not deemed to be fully potent, recall of children who received a particular batch of Polio





Benefits of an IT system Vaccination/Immunisation /contd

- Vacc/Imm integrated with CCI the flagging of a child as RIP on the CCI flags the child as RIP on CCI system
- Stops production of invitation letters, reminder etc to parents when child flagged as RIP.
- Provides uptake statistics reported nationally
- Completion cards for parents of all vaccines given





Recent New Vaccination Schemes

- Men C for second level students
 - will be on the HPV national system
- H1N1 Winter 2009
 - New pandemic data management system introduced
- HPV
 - New national system developed
- Issues
 - Have to check three systems to get a full history
 - Inability to share data as no national identifier in place

Maternity Hospital

Notification of Birth Form

Birth Recording IT System

(child health office)

PHN-1st home visit.

Nomination of vaccinating GP form

Immunisation Database

(child health office)

Invitation Letters to Parent to at the scheduled times

Health Promotion by PHN /Practice nurse/ GP

Child Immunised by GP practice

GP returns form to Child Health Office after <u>each</u> visit for the system to proceed.

402228080

Feldhmeannacht na Seirbhúse Stáinte Health Service Executive

HSE SOUTH

Notification of Child's Forename/Vaccination G.P. and Newborn Bloodspot Screening Form

NAME:	D.O.B	C.C.I. NO
ADDRESS:		U.P.I. NO
Please return the following in	nformation within 2 weeks o	of date of birth
Child's Forena	me:	
Date of 1st visit:		Local Health Centre:
Nominated G.P. for Vaccination:		Family Doctor *See Notes
Vaccination G.P. Address:		
Signed: Parent/Guardian	(Lor)	Date:
Newborn Bloodspot Screening	g: Screened Refused	Date:
Location Taken: Community	☐ Hospital ☐ Name of Hospi	tal:
Signature: PHN [] RGN/RM	O	Date:

Privacy State Immunisatio	ement: HSE staff and Database. The H	SE will use this information	ion under the Dat on to validate clier	a Protection Acts, 1988 ants, monitor vaccination pr	rogrammes provide	health care and to facilitate payments	
your Genera	Practitioner (GP).						
	To e	nable prompt payment pleas	allpoint pen and app se return to your loca	oly ample pressure to product al Child Health office by 7th	ce clear details on all d day of month following	copies of this set. g vaccination.	
GP Practio	ce Name, MCRN	Address or Stamp	HSE	Client ID:	PPS I	No.	
			Child	l's Forename:	Child	l's Surname:	
			Child	l's DOB:	Male	/Female:	
			Child	l's Current Address:			
			Moth	er's Name:			
GP PCI Contract/PCRS ID (Payments):				Mother's Maiden Name: Mother's DOB:			
				er's PPS No. (optional)			
				bove information may be used			
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Two Part Form: Return perforated sections on completion of each visit, to your local child health office.

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your General Pra	actitioner (GP).							acilitate payments t
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Documentation

Vaccination Forms – to GP

 Pre-printed vaccination forms for each child due 1st vaccination are sent to the nominated GP (when known) before 1st vaccinations are due.

Invitation letters – to Parents

- A week before the first vaccine is due, invitation letters are generated by the system and sent to the parents/guardians inviting them to bring their child to their nominated GP for vaccination.
- No invitation letters issue for 2nd & 3rd vaccines national decision.
- At 12 months an invitation letter for MMR/PCV & Men C & Hib (due at 13 months) vaccines issues to parents/guardians. This letter lists all vaccines the child has received up to this point.



Reminders



- A reminder letter is generated if a child has not received their vaccine two months after it's due date.
- Reminder letters generate at each vaccine stage if applicable.
- Nationally agreed template for reminder letters.

Opportunistic Vaccinations

- When child presents, registers or transfers into an area, no preprinted vaccination return forms will generate. Use a blank form
- If child moves to different GP practice, the opportunistic form can also be used

Primary Childhood Immunisations GP Nomination /Claim Form

	Signed:			(Pa	arent/Legal Gua	ardian)	Date:		
	Signed:				(G.P.)	Date	:		
		dress of G.P by was orig		with under the Immu	ınisation Program	nme if kı	nown		
	Child's	Name:					D.O.B:		
	PSN:			CCI No:	Pla	ce of B	irth:		
	Current	Address:							
	Previou	s Address	:						
	Name o	f Parent/I	egal Guardian	:		c	Contact No:		
	Mother'	's Maiden	Name:			D.O.B	:		
	Mother'	's Martial	Status:		I	PPSN:_			
			Guardian Co e my child			im	munised again	st the dis	seases
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Late for Vaccines

When a vaccination return form is not received 3 months after the child's due date for primary childhood immunisation, the child's name will appear on a defaulters list





Movements In and Out

- Public Health Nurses complete transfer of records form on becoming aware of movement out to another area.
- PHNs complete and submit child immunisation registration validation form for all children under 5yrs who move into the county.
- GP/ PN should notify Immunisation Office when a child moves from a practice or out of county/country.
- GP/ PN when submitting a vaccine for a child who has moved in to their practice from another area, should submit details of previous address or previous vaccination history if available
- Change of address and change in circumstances can be written on defaulter lists and returned.
- Problems arise with families with no forwarding address



School schedule



HSE- South East

Primary Schools:

- The school immunisation service offer 4-in-1 and MMR boosters to school children in junior infants with mop up clinics at planned stages.
- BCG Neonatal programme ongoing and 'catch up' of older children via schools or clinics.

Secondary Schools:

- Low dose Tdap in 1st /2nd year secondary school children.
- HPV to children in 1st year
- Men C in 1st year from 2015





Issues that need to be addressed

- National Client Identifier required to enable better data sharing
- Better linkages to other systems
 - GRO Births, Deaths & Marriages
 - PCRS Primary Care Re-imbursement Service
 - GP contract details
 - GP Practice Management Systems
 - Avoid duplication of data and data entry
 - Department of Education
 - School class lists





The End

With thanks to Breeda Feeney Senior Systems Analyst, Edel Conway, ADPHN, & Susan O'Hara, Siobhan Hennessy, GIV, Child Health Office,

Further Information

- www.immunisation .ie
- www.hpsc.ie
- www.who.int
- www.immunisation.org.uk
- www.ich.ucl.ac.uk

References

Immunisation Guidelines for Ireland (2008)

http://www.immunisation.ie/en/HealthcareProfessionals/ImmunisationGuidelines2

 A Practical Guide to Immunisation, National Immunisation Office (2008).http://www.immunisation.ie/en/HealthcareProfessionals/TrainingManual/