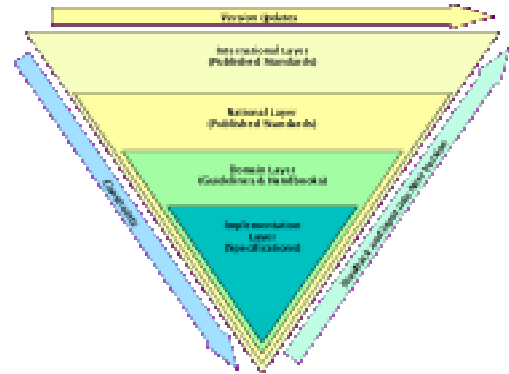


Pathology GP Software Integration Project

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QML; Muse; MSS; ML&A



Aim of the Project

- To evaluate the implementation of HL7 messages for pathology reporting and ordering and to identify opportunities for improvement.

Research Questions

- How do you know that there has been a successful communication of orders and results?
 - by development phase
 - by stakeholder group
 - by issue type
- What are the costs?
 - of software modification for LIS & PMS
 - of compliance
- What are the benefits?
 - of electronic ordering
 - of the HL7 message format over PIT for reporting

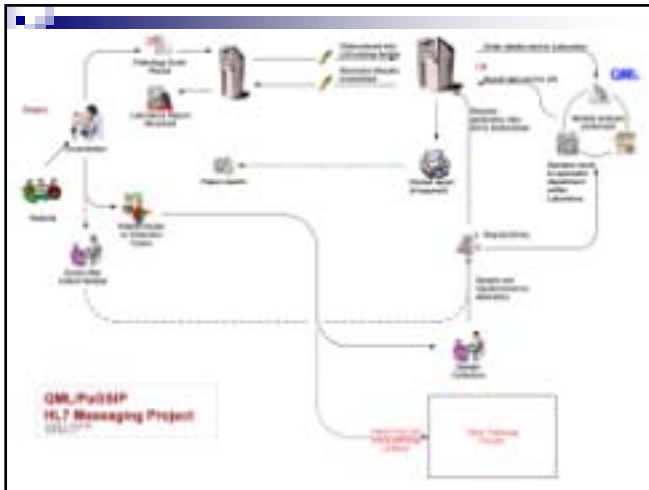
Milestones Completed

- Triple G Ultra LIS System
 - QML capable of HL7 report message delivery to AS4700.2 (revised)
 - HL7 order processing system completed
- Medical Spectrum
 - Development of changes to their PMS to support the project
 - Deployment to initial pilot site
 - Deployment to second site for further testing
- Muse Solutions
 - Development of changes to their PMS to support the project
 - Deployment to two initial pilot sites
 - Deployment of Internet communications infrastructure to support pilot sites
- Commencement of pilot testing
 - 57 sites using HL7 (~6% of sites and 10% of electronic reports)
 - 4 sites now using electronic ordering and receiving HL7 reports
- 102 issues identified so far

Status of Electronic Requesting

as at 29/05/03

Site	GP System	by GP's	Requests Generated	Starting	Patient (or specimen) attending QML	NO-SHOWs after 7 days from request
MSS00151	MSS	1	6	26/05/03	1	0
MSS00153	MSS	1	57	18/03/03	33	12
MUSE167.12	Muse	6	66	20/05/03	33	10
MUSE167.2	Muse	2	18	15/05/03	4	6



What we have learnt so far

- Issues
 - by development phase
 - by stakeholder group
 - by issue type
- Error rates
 - Changes that are made in the laboratory

The Issues Log

Issues by development phase

Policy	13
Systems Development	56
Implementation	33

Issues by stakeholder group

QML	83
MSS	15
Muse	4
GPs	0
Patient	0

Issues by type

Consumer Perspective	1
Privacy & Security	7
Standards	22
Technical Restraints	17
Work Practices	55

Error rates

1	Lot Number	Date	Deter	Site	Original / Changed			Reason	Date	Reason
					Proc	#	Int			
2	010801	24/02/00	012P	001		27	Incorrect loading (correct label used)	011	Incorrect label	
3	010802	24/02/00	012P	001		27	Incorrect loading (correct label used)	011	Incorrect label	
4	010798	23/02/00	012P	001	24C	24B	Regel 24B	24C		
5	010807	24/02/00	012P	001		27A		011	Incorrect label	
6	010807	24/02/00	012P	001		27C		011	Residue label (Residue 24) used	
7	010818	11/02/00	012P	001		28A	not taken out after correction reported	011	Corrected if report	
8	010819	24/02/00	012P	001	020			011	Residue label (Residue 24) used	
9	010797	01/02/00	012P	001		26	Regel 26	27C	Int - Not used if report	
10	010808	01/02/00	012P	001		28		011	Residue label (Residue 24) used	
11	010808	01/02/00	012P	001		28		011	Residue label (Residue 24) used	
12	010808	20/02/00	012P	001	211	212	Regel 212	212	Int - Incorrect label	
13	010797	23/02/00	012P	001		27C	Incorrect loading (correct label used)	011	Corrected if report	
14	010718	21/02/00	012P	001	20C			011	Not reported	
15	010718	20/02/00	012P	001		20B	Not 100% of material	011	Incorrect label	
16	010718	20/02/00	012P	001	210		201, 202, 203, 204, 205, 206, 207, 208, 209, 210	011	Incorrect label	
17	010717	02/02/00	012P	001		26	Regel 26	24C	Int - Not used if report	
18	010804	01/02/00	012P	001	04	05	Regel 05	06	Int - Incorrect label	

The BIG Issues

- Project has not completed
- Hand Book requires updating and expansion
- Lack of immediate benefit to GP and Lab (but chicken & egg; until you have it you can't start improving the process; DSS immature)
- Competition for development resources
- Lots of issues especially with exceptions to the routine process
- Only limited access in market with 2 PMSs

Where to from here...

- Issues for IT-14-6-5 to them
- More time and money to continue the trial
- Implementation to be broadened to other PMSs