

MedLIS Update and QI Programme Interaction



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Project Timeline – To date

- Contract Signed : September 2015 for Cerner Pathnet
- Project team assembled September 2015
- Project kick Off: November 2015
- Current state review: Jan – Feb 2016
- Future state review: April 2016
- Future State Validation: May 2016

Project Timeline - Future

Future State Validation	23 May - 27 May	1 Wks	Dublin	<i>Full team onsite in Ireland to lead event with MedLIS. Final review of MedLIS "Standard" roll out design.</i>
Unit & System Testing	4, Jul - 26, Aug, 2016	2 Mths	Virtual	
Maintenance Training & Conversion Prep	01/08/2016	5 Days	Virtual	<i>UK team facilitates review with MedLIS core support team - will be Virtual sessions planned beginning 1st, August through the 26th for each solution</i>
Integration Testing 1	29 - Aug, 2016	5 Days	Dublin	<i>UK team to facilitate with US SA's on call. (Select SA's may be requested to travel.)</i>
Integration Testing 2	10 - Oct, 2016	5 Days	Dublin	<i>UK team to facilitate with US SA's on call. (Select SA's may be requested to travel.)</i>
End User Training	24, Oct - 9, Dec, 2016	7 Weeks	Ireland	
Go Live Phase 1, Group 1	10 - Dec, 2016	2 Weeks	Ireland	
Go Live Phase 1, Group 2	18 - Feb, 2017	2 Weeks	Ireland	
Optimization	01/04/2017	4 Weeks	Ireland	
Health Check	03/04/2017	5 Days	Ireland	
Value Achievement Review	03/11/2017	1 Day	Ireland	
Go Live Phase 2	16 - Sept, 2017	2 Weeks	Ireland	<i>Go Live dates per contracted phase at 30 wks per phase</i>
Go Live Phase 3	14 - Apr, 2018	2 Weeks	Ireland	
Go Live Phase 4	10 - Nov, 2018	2 Weeks	Ireland	
Go Live Phase 5	8 - Jun, 2019	2 Weeks	Ireland	

Go Live Dates

- **Go Live Phase 1, Group 1 10 - Dec, 2016**

St James, Tullamore, Portlaoise

- **Go Live Phase 1, Group 2 18 - Feb, 2017**

Beaumont, Connolly, Cavan, MMUH, Mullingar

- **Go Live Phase 2 16 - Sept, 2017**

Tallaght, Coombe, Naas, OLOL, SVUH, Navan,
St. Columcilles

- **Go Live Phase 3 14 - Apr, 2018**

Galway, Letterkenny, Sligo, Roscommon, Mayo,
Portiuncula, Limerick, Ennis, St Johns, Nenagh

Go Live Dates ctd.

- **Go Live Phase 4 10 - Nov, 2018**

Cork ,Waterford, Kerry, Mallow, Tipperary General, Mercy, Bantry, Sth Infirmary, Kilkenny, St Lukes

- **Go Live Phase 5 8 - Jun, 2019**

Crumlin, Temple St, St Lukes, Cappagh, Rotunda, St. Michaels, RVEE

Modules available within MedLIS –Pathnet – AP

- Order Communications Module – all hospitals, GPs, dentists, external institutions
- Advanced Bar Code and tracking – purchased as part of solution, available to all sites
- Synoptic reporting
- Inventory Management
- Document Imaging
- Image Management

Aspects of MedLIS

- Data Migration
- Voice Recognition
- QI Programme
- Referred Material
- Reporting
- Synoptic Reporting

Data Migration

Cerner have employed Stalis to manage Data Migration
National Data Migration Strategy currently in
development

All data will be migrated from legacy systems to Care Xml
and available for look up .

Selected data from Care Xml will be migrated to MedLIS

- Histopathology reports
- Cytology reports
- Blood transfusion
- Some Serology

Voice Recognition

- MedLIS has purchased Dragon
- Dragon will need to be trained
- Limitations to use are up to individual
- HSE will have SLA with Dragon

QI Programme

Where will data be recorded???

- Processing tasks
- Correlation events
- Case Flags

Processing Tasks – Specimen and Reports

- Assigned to specimen types at set up
- Auto verified – when case moves to or past a certain stage e.g. embedding
- E.g. P Codes, Specimen Groupings

Specimen	Protocol	P Code	Spec Group
COLON BX	01B1S	P02	QCOL
COLON, RES	10B1S	P04	QCOL
COLON RES, TUMOUR	10B1S	P03	QCOL

- Addendum Reports – Q020, Q021, Q22
- Post Mortem codes – Q035 - Q049

Correlation events

Added at on line review (case sign out)

- Events can be standard or local
- Wide range of parameters can be used
- All searchable outside of QI programme

Agreement/ Disagreement	Discrepancy	Disagreement Reason	Investigation	Resolution
Max 15	Max 15	Max 15	Max 15	Max 15
Agree	N/A	N/A	N/A	N/A
Review noted	N/A	N/A	N/A	N/A
Disagree	Major	Differ opinions	None	Addendum report
	Minor	Process error	Rev QA proced	Amend procedure
		Sampling error	Rev with Cyto	Error correct
		Screening error	Sent out	No resolution

Correlation events ctd.

Types of Correlation events

- Frozen v Paraffin - Q007, Q008, Q009
- Focussed Review - Q015, Q016
- External Referral - Q001, Q003
- Internal Referrals - Q002, Q003, Q064 (new)
- MDT Review - Q017, Q019
- Random Review - Q033, Q 034
- Autopsy Review – Q042, Q43 etc

Codes will be assigned based on results of correlation events

Diagnostic Correlation screen

The screenshot shows a software application window titled "PathNet Anatomic Pathology: Diagnostic Correlation". The main window has a menu bar with "Task", "Edit", "View", "Queue", "Alerts", "Tools", and "Help". Below the menu bar is a toolbar with icons for a pencil, a clipboard, a plus sign, a magnifying glass, a cross, a person, and a printer. The main content area is divided into several sections. On the left, there is a sidebar with "Case:" (01-S-16-000015), "Report:", "Supplier:", "Specimen:", "Append:", "Collecte:", "05/May/", "Copy To:", "Physicia:", "Test, Co:", and "Alerts:". The main area has a "Study:" section with "Case: 01-S-16-000015" and a table with columns "Evaluate" and "Correlation Perf". A dialog box titled "Add Event" is open in the foreground. It has a title bar with a plus sign and a close button. The dialog contains the following fields: "* Study:" (a dropdown menu), "* Evaluate:" (a text field with a magnifying glass icon), "Compare To:" (a text field with a magnifying glass icon), "* Report issued by:" (a dropdown menu), "Correlation performed by" (radio buttons for "Individual" and "Group", and a text field), and "Occurs:" (a spinner box set to "1"). At the bottom of the dialog are "OK", "Cancel", and "Apply" buttons. The status bar at the bottom of the application window shows "Ready" on the left and "PROD MIRIAMHORANI 08/" on the right.

Task Edit View Queue Alerts Tools Help

PathNet Anatomic Pathology: Diagnostic Correlation

Task View Help

Case: 01-S-16-000015

Report: Supplier: Specimen: Append: Collecte: 05/May/ Copy To: Physicia: Test, Co: Alerts:

Study: Case: 01-S-16-000015

Evaluate Correlation Perf Final Evaluation

+ Add Event

* Study: [Dropdown]

* Evaluate: [Text Field] Compare To: [Text Field]

* Report issued by: [Dropdown]

Correlation performed by

Individual Group

[Text Field] [Group]

Occurs: 1

OK Cancel Apply

Ready PROD MIRIAMHORANI 08/

Case flags – Diagnosis Coding Custom Codes

- Useful for items that can not be included as processing tasks or correlation events
- Can be site specific
- QI Codes can be standard
- E.g. FS TATs, Phoned Reports
- Assigned at 'Online Review' - case sign out.

Add Diagnostic Codes

The screenshot shows a medical software window titled "01- S-16-000015 WICKLOW, ANNE (Supplementary Report) - Online Review". The interface includes a menu bar (Task, Edit, View, Queue, Alerts, Tools, Help) and a toolbar. A patient information panel displays:

Na...	WICKL...	NHS:	Loc...	BH / B...	
DOB:	25/Nov...	MRN:	1000361	Con...	Green...
Sex:	Female	Alle...	Penicil...	Spe...	Obstet...

Clinical Details:

Supplementary Discussion

The "Task" menu is open, showing options like "Perform Report...", "Verify Report...", "Proxy Report...", "Select source...", "Acquire image...", "Video feed...", "Slide show...", "Correct Report...", "Review", "Add Report...", "Add Processing Tasks...", "Hold Report...", "Modify Report", "Add To Folder...", "Print...", "Print Screen", "1 01- S-16-000015", "2 01- S-16-000009", "3 01- S-16-000012", "Suspend", and "Exit". The "Review" sub-menu is also open, listing "Case Charges...", "Copy To Physicians", "Diagnostic Codes...", "Diagnostic Correlation...", "Follow-up Tracking...", "Image Management...", and "Inventory Management...".

At the bottom, the status bar shows "Ready", "PROD", "MIRIAMHORANI", "08/May/16", and "20:31". The system tray includes "2.0" and "English (Ireland)".

MedLIS to NQAIS

- NQAIS unable to take HL7 message...Flat File required
- Report to be run in MedLIS to include
 - Volumetrics
 - Processing tasks
 - Correlation events
 - Case Flags
- Reporting tool Discern Analytics – report will be devised by Cerner reporting team
- Report can be set to run and upload automatically, however requirement for local sign off will prevent this
- Mapping from MedLIS to NQAIS will be required

Reporting in MedLIS

- Clinical reports – managed by separate solution, once Pathology reports are verified
- Pathology reports are broken in to sections, sections are only reportable if there is content in them. Canned text and word templates easily incorporated into reports with fast keys and local codes.
- Standard queries in AP are managed through Case Retrieval....user friendly tool for routine searches
- More complex reports managed through Cerner query tool Discern Analytics.....

Referred Material

Material referred in

- Separate Section which easily encompasses external number.
- Processing tasks to be set up to drive correlation events

Material Referred Out

- Inventory management in AP facilitates management of material sent externally,
- TATs can be applied and letters produced to remind locations to return material

MedLIS proposes one Electronic patient record.....all material should be viewable by all pathologists

Synoptic Reports – Cerner Workflow

- Pathologist enters Online review
- Synoptic reports (RCPATH) assigned to specific specimens
- Leave online review to select and complete synoptic report
- Synoptic data populates bottom of surgical pathology report...present in addition to the Surgical Pathology report

Pathologists involved at FSR felt this was not a viable solution

Synoptic reports – Proposed Workflow

Proposed Workflow ???????

Pathologist enters on line review

Applies relevant template from Library

Templates will have defined data items

Data items will be transmitted to Synoptic report on verification of report.

OR

Synoptic report will be filled out which populates data items in Template

MedLIS Will.....

- Standardise reports...by 2019 all pathology reports will have same format, look etc
- Provide Electronic Laboratory record
- Provide increased efficiencies in laboratory
- Provide increased efficiencies in reporting
- With increased use of order comms reduce labelling/transcription errors

MedLIS Will Not.....

- Fix resourcing issue...but increased efficiencies may help here
- Provide new hardware country wide....there is a very **LIMITED** hardware budget.
- Read your mind.....interaction will be required
- Not fix **EVERYTHING**, but we will do our best to fix as much as we can.
- Make the tea!

Thank You

**Any
Questions ?**