



Health & Social Care
Information Centre

Digital Diagnostics and Pathology Information Standards

NPEX User Group, July 2016

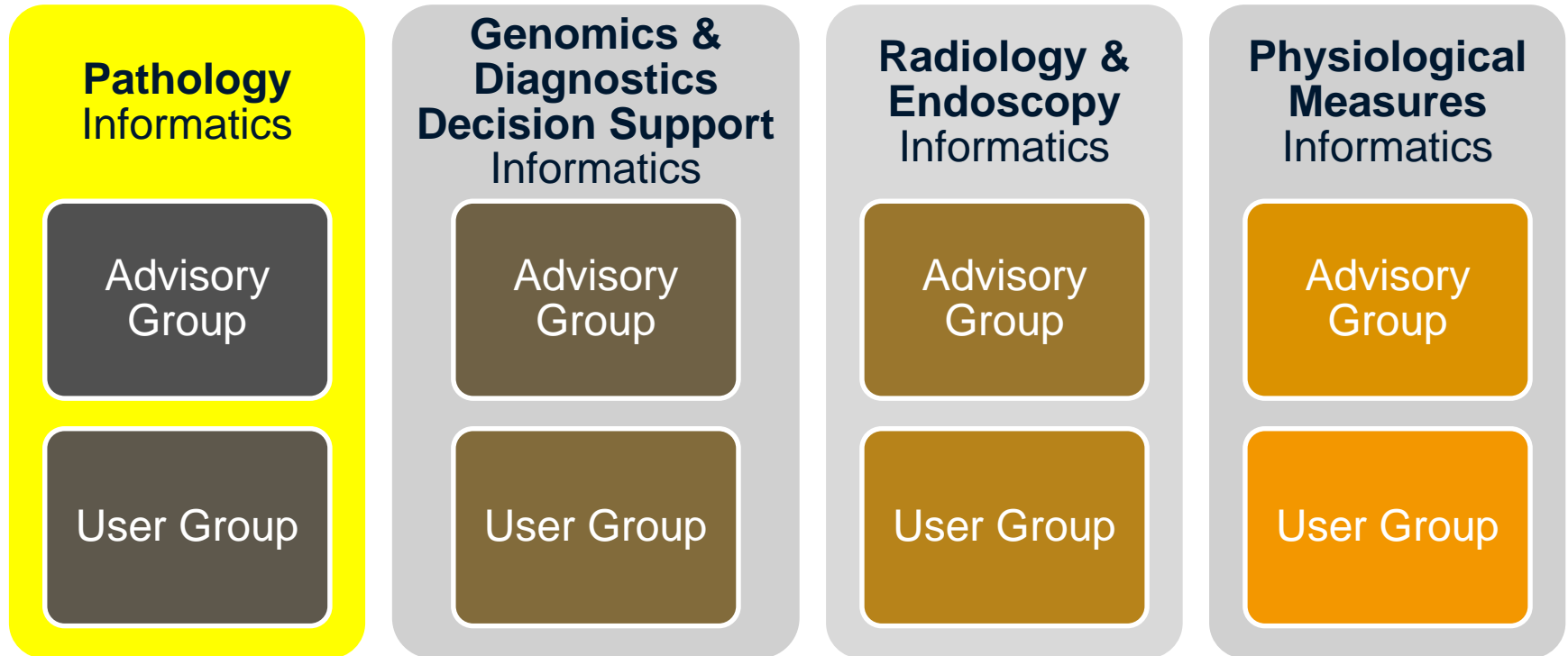
presented by **Laura Sato**



Domain	National Information Board Programme Name	
<i>A – Self Care and Prevention</i>	1. Citizen Identity 2. NHS.UK	3. Health Apps Assessment & Uptake 4. Widening Digital Participation
<i>B – Urgent and Emergency Care</i>	5. Clinical Triage Platform & Pathways Live Service 6. Patient Relationship Management	7. Access to Service Information 8. Out of Hospital Care
<i>C – Transforming General Practice</i>	9. GP Operational Systems and Services 10. Adopting Existing Technologies in General Practice	11. Technology for GP Transformation 12. GP Data for Secondary Uses
<i>D – Integrated Care</i>	13. Integrated Care – Business Change 14. Integrated Care – Interoperability and Architecture	15. Social Care Integration 16. Person Health Record
<i>E – Digital Medicines</i>	17. Digitising Community 18. Pharmacy Supply Chain and Secondary Uses	19. Integrating Pharmacy Across Care Settings
<i>F – Elective Care</i>	20. Digital Referrals	
<i>G – Paper Free at Point of Care</i>	21. Driving Digital Maturity 22. Digital Child Health	23. Digital Diagnostics 24. Workforce and Professional Capabilities
<i>H – Data Outcomes for Research and Oversight</i>	25. National Data Services Development 26. Data Content	27. Innovative uses of Data
<i>I – Infrastructure</i>	28. Digital Interoperability Platform and Spine 29. NHSmail2	30. HSCN 31. WiFi
<i>J – Public Trust and Security</i>	32. Cyber Security Programme	33. National Opt-Out Model

Digital Diagnostics programme governance overview (evolving)

Diagnostics Data Service Board



Diagnostics Technical Review Group

Pathology informatics improvement - Main driver

Patient Safety is at risk when test names used in reports are ambiguous and units of measure vary across NHS labs



Fatal mistakes have occasionally occurred simply by reading reports quickly and making assumptions about names and units

Clinical decision support algorithms sometimes need precise pathology test names to operate correctly

Example

Test	NHS Primary Care Term	NHS Acute Care Term	Decision Support	Outcome
Creatinine in Serum or plasma – IFCC <i>fluorometric method</i>	'Creatine level' or 'Serum creatinine' or 'Plasma creatinine'	No standards – example hospital test name: 'Creatinine'	Carboplatins (chemotherapy drug for ovarian and lung cancer) - <i>algorithm 1</i>	Unsafe decision support advice
Creatinine in Serum or plasma – IFCC <i>enzymatic method</i>			Carboplatins - <i>algorithm 2</i>	Unsafe decision support advice

National Information Board Roadmap

“ “ On a **1 to 3 year timescale** the next set of standards that need to be developed and used routinely are outlined below:

- **NLMC (National Laboratory Medicine Catalogue)**
 - Transfer of Care (ii) eDischarge
(Application to transfer of care – Urgent Care)
 - Transfer of Care (iii) eDischarge
(Application to transfer of care – Social Care)
 - End of Life Information standard

” ”
“Give care professionals and carers access to all the data they need” (September 2015)

NLMC will enable laboratories to:



Always use the same name for the same test



Never use the same name for different tests



Always use the same unit of measure per test result

The use of NLMC will help to:



Reduce missed diagnoses in acute care



Avoid confusion leading to repeat test requesting



Support safer results monitoring and trending in primary care



Reach the goal of a paperless NHS by 2020



Provide pathology data that is comparable across the NHS and can be used to assess outcomes and improve patient care

Outline plan – Data and Message Standards

Dev & Early Adoption

- **Jun 2016 to Feb 2017**
- Manchester (4 Trusts by Sep 2016, rest to follow), Birmingham, London

Endorsements

- **Mar 2017** – endorsements from:
 - Standardisation Committee for Care Information
 - Professional Record Standards Body / Colleges

Publication

- **Autumn 2016** – NHS Pathology Test List for activity reporting
- **Apr 2017** – publication of standards ‘advance notification’ for:
 - National Laboratory Medicine Catalogue
 - Report model and message standards

NHS wide use

- **2018** – Mandated use between organisations (labs to primary care / Public Health / other labs)
- **2020** – Mandated use within NHS organisations (acute and outpatient care), checked through NHS Digital interoperability certification working with UKAS lab accreditation

NLMC Vision



Pathology Test Identification

- Standard **display text** and international **code**

Results Data

- *Numeric* - standard **Units of Measure** display text, computable expression, xample Reference Range
- *Text* - Standard **interpretation** display text and codes

Recommended pre-conditions for test requesting

- Standard data text / values and codes
- e.g. based on NICE guidelines or other professional guidance

Term/code national implementation guidance

- As applicable

Current Draft Pathology Report FHIR Profiles

Specimen

Patient

Request

Report

Result

Supporting
Information

Proof-of-concept testing / early adoption

- NLMC and HL7 FHIR pathology messaging
 - Exploring possible partnership with NPEX for this

NHS Pathology Test List

The following recommendation was included in Lord Carter's Feb. 2016 final report:

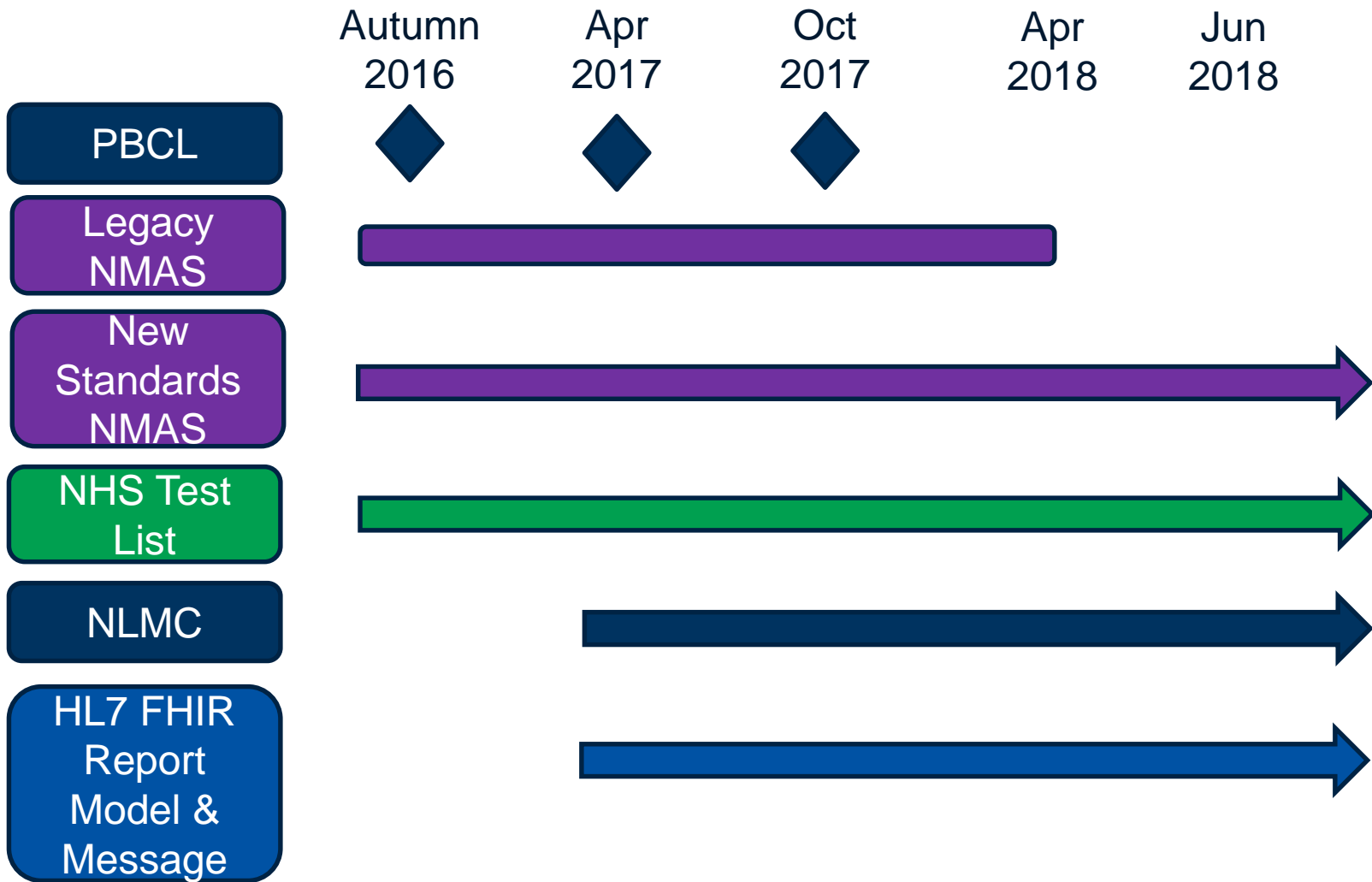
“HSCIC should publish a definitive list of NHS pathology tests and how they should be counted by October 2016, with NHS Improvement requiring trusts to adopt the definitions from April 2017”

What are the 'tests'?

- Recommendations heard so far:
 - Count reportables, including calculated results
 - Count individual tests, not panels or sets



Indicative products & services timeline



Next Steps

- Starting to work with test sites (2016/07 to 2017/02)
 - Hopefully including NPEX soon
- Open to comments on draft specifications
 - NLMC
 - Pathology report message model
 - NMAS user requirements and acceptance criteria
- Looking for
 - Local test lists
 - More test sites
 - More de-identified real reports data (as use cases to test the standards)

Getting involved

- Contact us at diagnosticsdata@hscic.gov.uk to
 - Work with us as an early adopter / standards test partner
 - Join the Pathology Informatics National User Group (monthly online meetings)
 - Join the Diagnostics Technical Review Group (monthly online meetings)





Health & Social Care
Information Centre

Connect with us



www.hscic.gov.uk



enquiries@hscic.gov.uk



0300 303 5678



[@hscic](https://twitter.com/hscic)



www.slideshare.net/hscic

