

The logo for Integrating the Healthcare Enterprise (IHE), consisting of the letters 'IHE' in a bold, dark blue, sans-serif font.

Integrating
the Healthcare
Enterprise

Laboratory Committee meeting

Standardization of vocabularies for microbiology
Report on work in progress from French Work Group

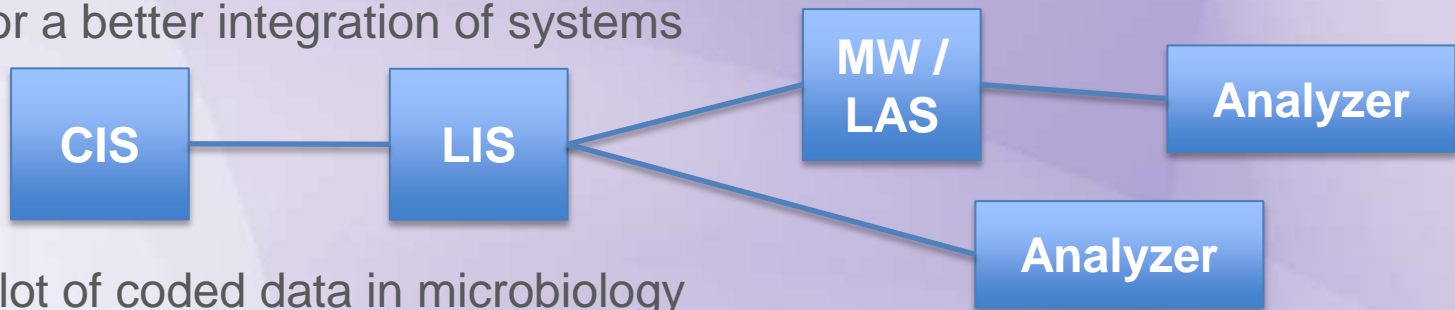
Microbiology data exchanges French Work Group

- ❑ Goal: To provide structure & vocabulary guidelines for order/result messaging and CDA reporting, related to microbiology

- Launched in 2013, 1st meeting in March 2013
- Participants: LIS and LAS vendors, clinical biologists & pathologists

- ❑ Why should we standardize microbiology data?

- For a better integration of systems



- A lot of coded data in microbiology
- For consolidation at the levels of hospital, region, country, continent
 - ✓ surveillance of microorganisms and acquired resistance to antibiotics
 - ✓ Monitoring of healthcare acquired infections

Microbiology data exchanges French Work Group

- Focus on bacteriology, mycology and parasitology.
 - Structure: Orders and results are specimen-centric (OML^O33, OUL^R22)
 - Coded vocabularies needed for:
 - **Specimen**: type (SPM-4, 5) , collection method (SPM-7), source site (SPM-8, 9)
 - **Order**: ordered battery as well as child orders (OBR-4)
 - **Observation** code (OBX-3), value (OBX-5), interpretation (OBX-8), method (OBX-17)
 - For terminologies France is using:
 - LOINC
 - the old version SNOMED 3.5 (translated into French). No decision has been made yet to move to SNOMED CT

Guidelines for France

Specimen characteristics

❑ Specimen type

We are building a two-level vocabulary (value set) of specimen types for microbiology

- Type of specimen → **SPM-4** using a subset of HL7 table **0487**
- Sub-type → **SPM-5** building a **specific vocabulary**
(no suggested value in the HL7 standard user defined table 0541)
→ **Change Proposal to allow the usage of SPM-5**

❑ Specimen source site

We are building a two-level vocabulary (value set) of specimen source sites for microbiology

- Site of specimen → **SPM-8** using **SNOMED 3.5 topography axis** ?
- Sub-site → **SPM-9** using qualifiers (e.g.; right, left)

❑ Specimen collection method → **SPM-7** with HL7 table **0488**

Guidelines for France orders & observations

❑ Ordered service **OBR-4**:

- Study the path of either completing LOINC with order codes or building a national terminology. Includes codes for child orders such as AST.

❑ Observation code (**OBX-3**)

- **LOINC**, translated into French
- Includes AST: a tested antibiotic is a LOINC code

❑ Observation value (**OBX-5**), for coded observations

- Qualitative results (e.g.; class of count of germs) → investigate **SNOMED** and **HL7** vocabularies
- Microorganism identification → The most accurate and up-to-date nomenclature is from ICSP (<http://www.the-icsp.org/>). But it is not coded.
 - SNOMED CT → Filip
 - NamesForLife
 - WHO

❑ Observation interpretation (**OBX-8**) → HL7 table **0078**

→ Riki and Laurent