bundle structure by distinct visualization…

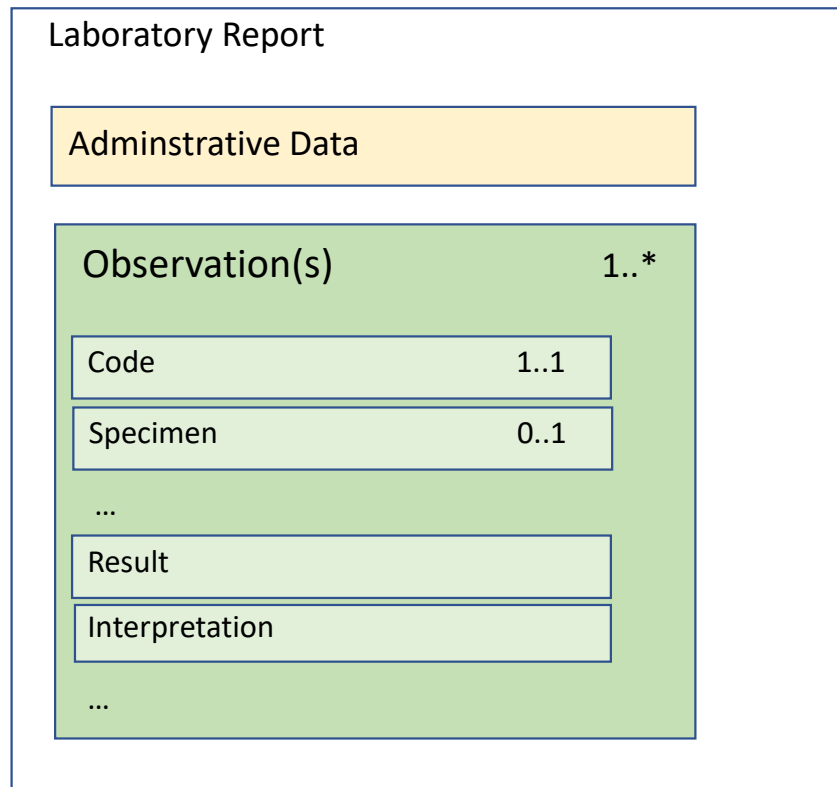*… which components does the "overall laboratory report" contain or could contain? …*

… for medical staff. please clarify
Are you asking for an additional descriptive page ?

Answer Martina:
For medical staff an explaination of the „Composition as graphical visualization" could help.
Something like this,
but with more details …

The ToC is automatically produced by the publisher, it is just a list of artefacts . Or are you talking about the grouping in the artifacts page ?

Answer Martina:

Table of content (toc) should be displayed at least by grouping the artifacts:
What is concept map
What is logical model
What is FRI-Structure

As it is now (screenshot left) it is too difficult to find the orientation

Concept-map-table should explain functional medical usage of elements. (we do that in our Art-Decor information model, the data elements include description of how and for what medical elements are to be used)
not clear this point .. concept map gives mapping between concepts; logical models describes the model elements ... could you clarify ?

Answer Martina:

In this view
https://build.fhir.org/ig/hl7-eu/laboratory/ConceptMap-result2FHIR-eu-lab.html   -

Source Code	Relationship	Target Code	Comment
Result.observation.code (A.5.2.3 Observation code)		Observation.code	depends on the type of test
Result.observation.method (A.5.2.4 Observation method)		Observation.method	

Description and rules for usage of data, functional concept, here just as examples:

Observation.code: Each laboratory service/laboratory test is assigned a binding LOINC® code. If possible, the laboratory examination should be precisely specified with the LOINC® code so that additional specifications can be dispensed with.

Observation.method: The LOINC® code already implies an examination method via the LOINC® axis METHOD, provided that the Part-METHOD contains a value. As an exception, the supplementary specification method can be added in relation to the LOINC®-specified laboratory test if the value for the LOINC® axis METHOD is not sufficiently specific or does not exist at all.

What are the unmapped concepts ?

Answer Martina:
this is an example for unmapped und not clearly mapped

Twice specimen -> result

Result: with no specimen

| Differential Table | Key Elements Table | Snapshot Table | Statistics/References | All |

Name	Flags	Card.	Type	Description & Constraints	?
LabReport		0..*	Base	A - Laboratory Report	
				Instances of this logical model are not marked to be the target of a Reference	
header		1..1	BackboneElement	A.1 Report header data elements	
@id		0..1	string	Unique id for inter-element referencing	
extension		0..*	Extension	Additional content defined by implementations	
				Slice: Unordered, Open by value:url	
modifierExtension	?! Σ	0..*	Extension	Extensions that cannot be ignored even if unrecognized	
subject		1..1	Subject	A.1.1 - A.1.2 Patient/subject	
payer		0..1	Payer	A.1.3 Health insurance and payment information	
informationRecipient		0..1	Recipient	A.1.4 Information recipient	
author		0..*	Author	A.1.5 Author	
legalAuthenticator		0..*	LegalAuthenticator	A.1.6 Legal authenticator	
validator		0..*	Validator	A.1.7 Result validator	
metadata		1..1	BackboneElement	A.1.8 Laboratory report metadata	
@id		0..1	string	Unique id for inter-element referencing	
extension		0..*	Extension	Additional content defined by implementations	
				Slice: Unordered, Open by value:url	
modifierExtension	?! Σ	0..*	Extension	Extensions that cannot be ignored even if unrecognized	
documentId		1..1	Identifier	A.1.8.0 Document Id	
type		1..1	CodeableConcept	A.1.8.1 Document type	
status		1..1	CodeableConcept	A.1.8.2 Document status	
dateTime		1..1	dateTime	A.1.8.3 Report date and time	
title		0..1	string	A.1.8.4 Document title	
studyType		0..1	CodeableConcept	A.1.8.5 Study type	
custodian		0..1	BackboneElement	A.1.8.6 Report custodian	
confidentiality		0..1	CodeableConcept	A.1.8.7 Confidentiality	
language		0..1	CodeableConcept	A.1.8.8 Language	
version		0..1	string	A.1.8.9 Version	
order		0..*	Order	A.2-A.3 Order	
specimen		0..*	SpecimenLab	A.4 Specimen information	
result		0..*	Result	A.5 Results data elements	

Documentation for this format

| Differential Table | Key Elements Table | Snapshot Table | Statistics/References | All |

Name	Flags	Card.	Type	Description & Constraints	?
Result		0..*	Base	A.5 - Results data elements	
				Instances of this logical model are not marked to be the target of a Reference	
narrative		0..1	BackboneElement	A.5.1 Laboratory report narrative	
@id		0..1	string	Unique id for inter-element referencing	
extension		0..*	Extension	Additional content defined by implementations	
				Slice: Unordered, Open by value:url	
modifierExtension	?! Σ	0..*	Extension	Extensions that cannot be ignored even if unrecognized	
report		0..*	Narrative	A.5.1.1 Narrative report	
notes		0..*	Narrative	A.5.1.2 Comments, interpretation and recommendations	
observation		0..*	BackboneElement	A.5.2 Observation details	
@id		0..1	string	Unique id for inter-element referencing	
extension		0..*	Extension	Additional content defined by implementations	
				Slice: Unordered, Open by value:url	
modifierExtension	?! Σ	0..*	Extension	Extensions that cannot be ignored even if unrecognized	
dateTime		0..*	CodeableConcept	A.5.2.1 Observation date	
code		0..*	CodeableConcept	A.5.2.3 Observation code	
method		0..*	CodeableConcept	A.5.2.4 Observation method	
device		0..*	CodeableConcept	A.5.2.5 Observation device	
order		0..*	BackboneElement	A.5.2.8 Order	
performer		0..*	BackboneElement	A.5.2.9 Performer	
reporter		0..*	BackboneElement	A.5.2.10 Reporter	
result		0..*	BackboneElement	A.5.2.11 Observation result	
interpretation		0..*	CodeableConcept	A.5.2.12 Observation interpretation	
description		0..*	Narrative	A.5.2.13 Result description	
accreditationStatus		0..*	BackboneElement	A.5.2.14 Accreditation status	

Documentation for this format

Group 1 Mapping from A - Laboratory Report to DiagnosticReport: Laboratory Report

Source Code	Relationship	Target Code	Comment
LabReport.header (A.1 Report header data elements)		DiagnosticReport	
LabReport.header.subject (A.1.1 - A.1.2 Patient/subject)		DiagnosticReport.subject	
LabReport.header.payer (A.1.3 Health insurance and payment information)		DiagnosticReport.basedOn.insurance	basedOn.resolve().ofType(ServiceRequest).insurance.re
LabReport.header.informationRecipient (A.1.4 Information recipient)		DiagnosticReport.extension:information-recipient	
LabReport.header.author (A.1.5 Author)		DiagnosticReport.resultsInterpreter	If the author is the interpreter
LabReport.header.author (A.1.5 Author)		DiagnosticReport.performer	If the author is the performer
LabReport.header.legalAuthenticator (A.1.6 Legal authenticator)		(not mapped)	
LabReport.header.validator (A.1.7 Result validator)		(not mapped)	
LabReport.header.metadata (A.1.8 Laboratory report metadata)		DiagnosticReport	
LabReport.header.metadata.documentId (A.1.8.0 Document Id)		DiagnosticReport.identifier	If it is the identifier of the report indipendently by its ve should refer to the Bundle.indentifier
LabReport.header.metadata.type (A.1.8.1 Document type)		DiagnosticReport.code	
LabReport.header.metadata.status (A.1.8.2 Document status)		DiagnosticReport.status	For FHIR R4 the more granular status is recorded in the
LabReport.header.metadata.dateTime (A.1.8.3 Report date and time)		DiagnosticReport.effectiveDateTime	
LabReport.header.metadata.title (A.1.8.4 Document title)		(not mapped)	
LabReport.header.metadata.studyType (A.1.8.5 Study type)		DiagnosticReport.category	
LabReport.header.metadata.custodian (A.1.8.6 Report custodian)		(not mapped)	
LabReport.header.metadata.confidentiality (A.1.8.7 Confidentiality)		(not mapped)	
LabReport.header.metadata.language (A.1.8.8 Language)		DiagnosticReport.language	
LabReport.header.metadata.version (A.1.8.9 Version)		(not mapped)	
LabReport.order (A.2-A.3 Order)		DiagnosticReport.basedOn	basedOn.resolve().ofType(ServiceRequest)
LabReport.specimen (A.4 Specimen information)		DiagnosticReport.specimen	
LabReport.result (A.5 Results data elements)		DiagnosticReport.result	
LabReport.specimen (A.4 Specimen information)		DiagnosticReport.result.specimen	result.resolve().ofType(Observation)