eHR Record Content -Laboratory Result

28 June 2013

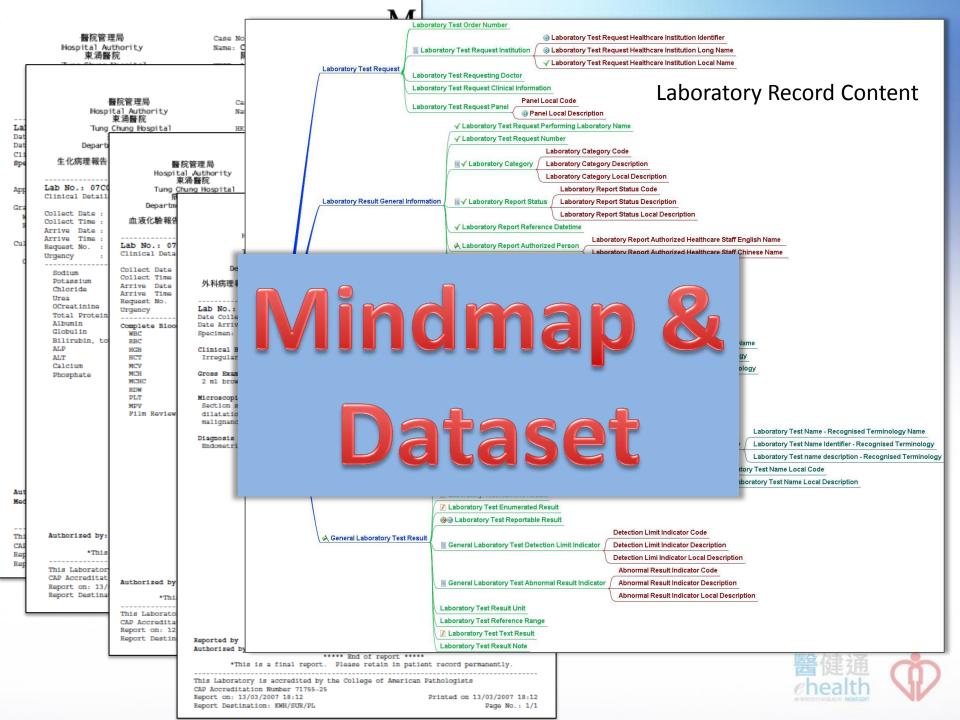
By Ping Chong Ho Health Informatics Analyst I, eHRISO



Outline

- General Result
 - Chemical Pathology
 - Haematology
 - Immunology
 - Microbiology (Non C&ST)
 - Virology
- Microbiology Result
 - Culture test with Sensitivity Test (C&ST)
- Anatomical Pathology Result

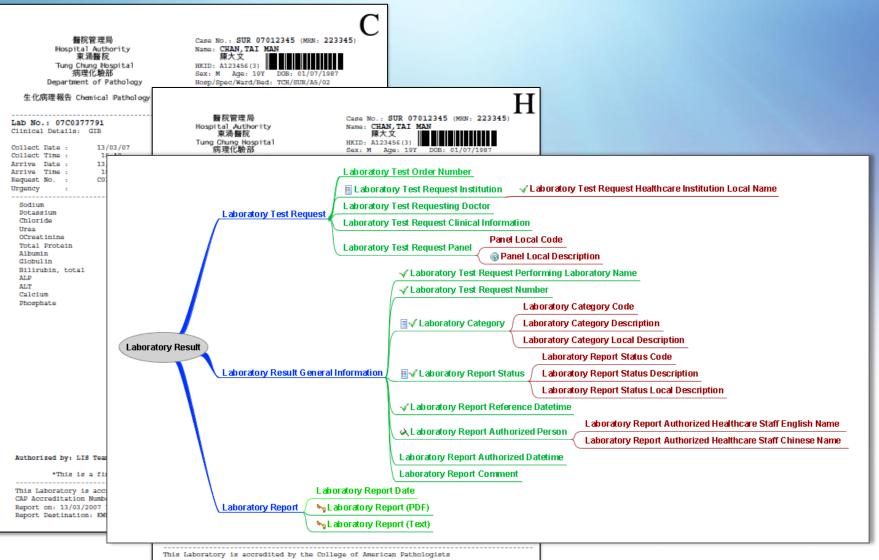




Laboratory Record Content for eHR

- Compliance Level
 - Level 1 report PDF
 - Level 2 structured data
 - Level 3 structured data with Recognized Terminology
 - Specimen type –HKCTT, SNOMED CT
 - Laboratory Test –HKCTT, LOINC
 - Organism HKCTT, SNOMED CT





CAP Accreditation Number 71755-25 Report on: 12/03/2007 17:09

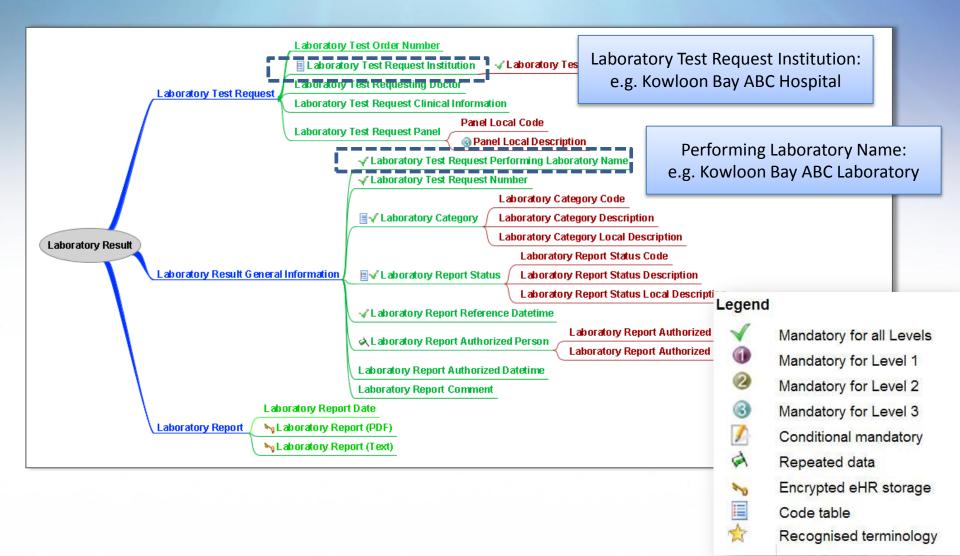
Report Destination: KWH/SUR/PL

Printed on 12/03/2007 17:10 Cum Page No.: 1 Page No.: 1/1

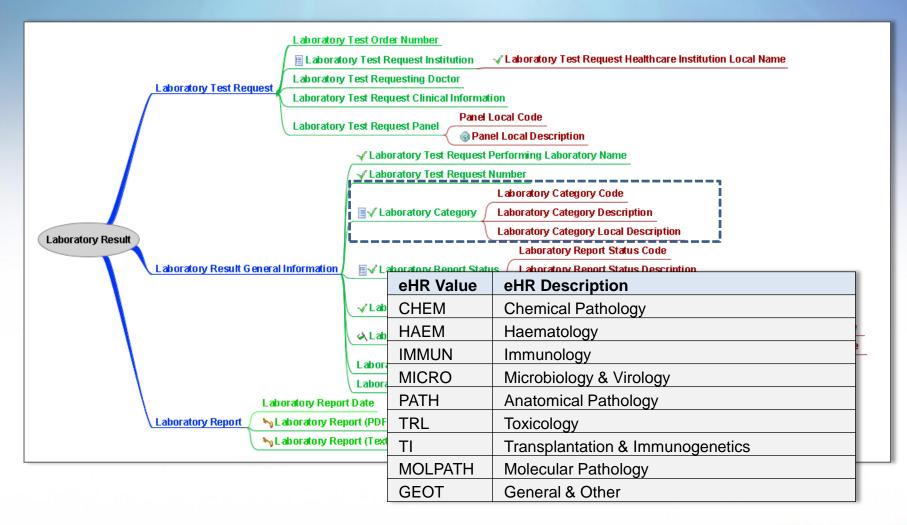
GENERAL RESULT



Level 1 Compliance for General Result

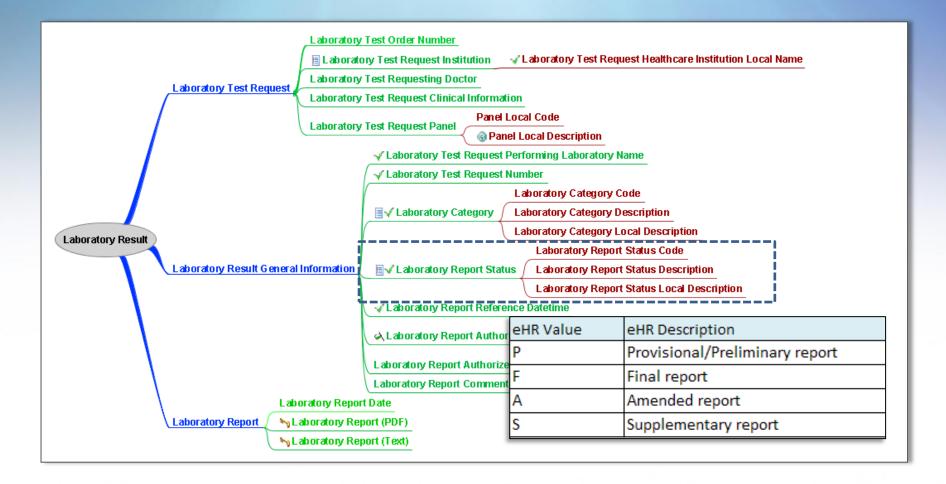


Level 1 Compliance (..2)



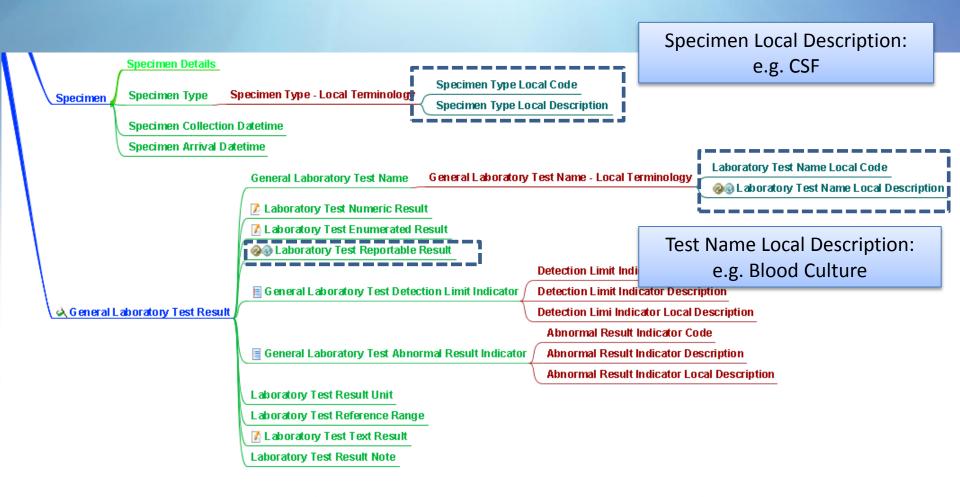


Level 1 Compliance (..3)



Laboratory Test Request - Performing Laboratory name, Request number, and Laboratory Category, Laboratory Report Status and Report Reference Datetime are Mandatory for all levels

Level 2 compliance for General Result





Level 3 Compliance for General Result

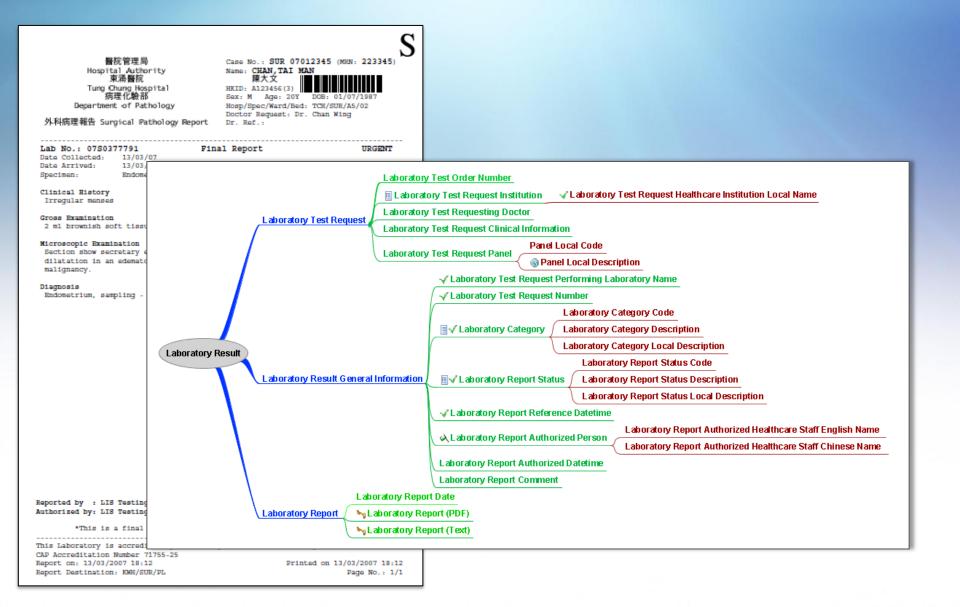
	Specimen Details										
				Speci	men Type code - Recognised Terminology Nar	me					
	1	ତ୍ତ ୁ / Specimen Type - Reco	gnised Terminology	Speci	Specimen Type Identifier - Recognised Terminology						
m	Specimen Type			Speci	Specimen Type Description - Recognised Terminology						
			<u>Cu saine</u>								
				escription	Allowable Values						
	Chasimon Collection Datatima			Kong Clinical Terminology Table		Nature	= Specimen				
ľ	SNOMED CL			System Terms	natized Nomenclature of Medicine - Clin	nical	Hierard	chy = Specimen			
		1				Laborato	ory Test I	Name - Recognised 1			
	(c) the second				ratory Test Name - Recognised Terminology /	Laborato	ory Test I	Name Identifier - Rec			
		General Laboratory Tes	st Name 🦯		l l l l l l l l l l l l l l l l l l l	Laborato	ory Test r	name description - R			
				aborator	Laboratory Test Name Local Terminology						
			eHR Value		R Description		Allo	wable Values			
		🚺 Laboratory Test Num	neri HKCTT	Hon	g Kong Clinical Terminology Table		Nature = Lab. Test				
		🚺 Laboratory Test Enu	Ime LOINC	Logi	ical Observation Identifiers Names and	Codes	All v	alues			
		aboratory Test Re									
	aboratory Test Resu				Detection Limit Indicator Code						
	aburatory restricted	General Laboratory 1	Test Detection Limit I	ndicator	Detection Limit Indicator Description	eHR Value		eHR Description			
				1	Detection Limi Indicator Local Description	<		Less than			
					Abnormal Result Indicator Code	>		Greater than			
		🗧 General Laboratory 1	Test Abnormal Resulf	t Indicato							
		(eHR Valu	ue	eHR Description			
		Laboratory Test Result	t Unit			L		Low			
		Laboratory Test Refere				Н		High			
					-						
		Laboratory Test Text									
		Laboratory Test Result	Note								
							men hah	1-			

General Laboratory Result

醫健通 All Local Non-Lo	cal
ehealth Lege	nd
삼 📝 芯 🔯 🖧 🛄 🔝 .	<i>K</i>
Encounter	^
 Problem & Procedure 	
Problem / Diagnosis	
Procedure	
Investigation Report	
 Medication 	
Prescribing History	
Dispensing History	
 Laboratory Record 	
Chemical Pathology	
Haematology	
Immunology	
Microbiology & Virology	
Anatomical Pathology	
Toxicology	E
Transplantation &	
Immunogenetics	
Molecular Pathology	
General & Other	
Radiology Record	
General Radiology	
Computed Tomography	
Angiographic / Vascular IR	
Non-vascular IR	
Magnetic Resonance Imaging	
Immunisation Record	-

Date View Document View	Chemical Patholo	gy	 Period: Al 		View: Ad
Date 👻 Prof	ile Description				Institution
24-Dec-2012 AD, I				VUC4_A	
06-May-2011 RFT					VUC4_A
13-Jun-2010 RFT					VUC4_A
13-Mar-2000 🖣 🗐 🖬 R12	P CRC FOI P TSHP				νη σην
Laboratory Cumulative					
Last 1 year					
Institution	VUC4_A	VHC4	VHC4	VHC4	
Date	24-Dec-2012	15-Dec-2012	21-Aug-2012	20-Aug-2012	
PDF Report		1			
Haemoglobin, Blood	20				
Anisocytosis	123				
Hemoglobin Pattern	120	215	100 4		
HbA		90	200 1		
Hemoglobin F		700 1		100	
Hemoglobin F, Betke		200			
Hemoglobin A2		500 1			
Hb Barts		215			
Hb Variant		90			
Hb H Inclusions		700 1			
Haemoglobin Pattern Results		200			
Hemoglobin Pattern Test		500 1			
Haptoglobin		90			





ANATOMICAL PATHOLOGY



Anatomical Pathology Result – Level 2 Compliance

	Anatomical			
	Anatomical Pathology Result - Diagnosis 🖉 🐼 Anatomical	Pathology Di	agnosis Text Resu	
D	Anatomical	Pathology Di	agnosis	
Result			Ŭ	Anatomical Pathology Report Details - Title Code
	≣ ∑ Anatomical Pa	athology Rep	ort Details - Title /	Anatomical Pathology Report Details - Title Description
	Anatomical Pathology Report Details		١	Anatomical Pathology Report Details - Title Local Description
	Anatomical Pathol	logy Report D	eHR Value	
				eHR Description Clinical Information
		-		
		-	SPEC	Specimen
		-	GROSS	Gross Examination
		_	MICRO	Microscopic Examination
			COMM	Comment
	Discussio Tenegraphy	Topogra	OTH	Other Pathology Report Section
	Diagnosis Topography	Topograp	hy Local Descript	ion
-	Anatomical Pathology Diagnosis	Anatomical P	athology Finding I	Local Code
	Diagnosis Finding	Anatomical P	athology Finding I	Local Descripiton



Anatomical Pathology Result – Level 2 Compliance

malignancy or viral inclusion.

Anatomical pathology report

Specimen : ANTRAL GASTRIC BX ; DISTAL ESOPHAGUS BX

Clinical History :

OGD : gastric erosion antrum. LA grade C esophagitis.

Macro. Exam. :

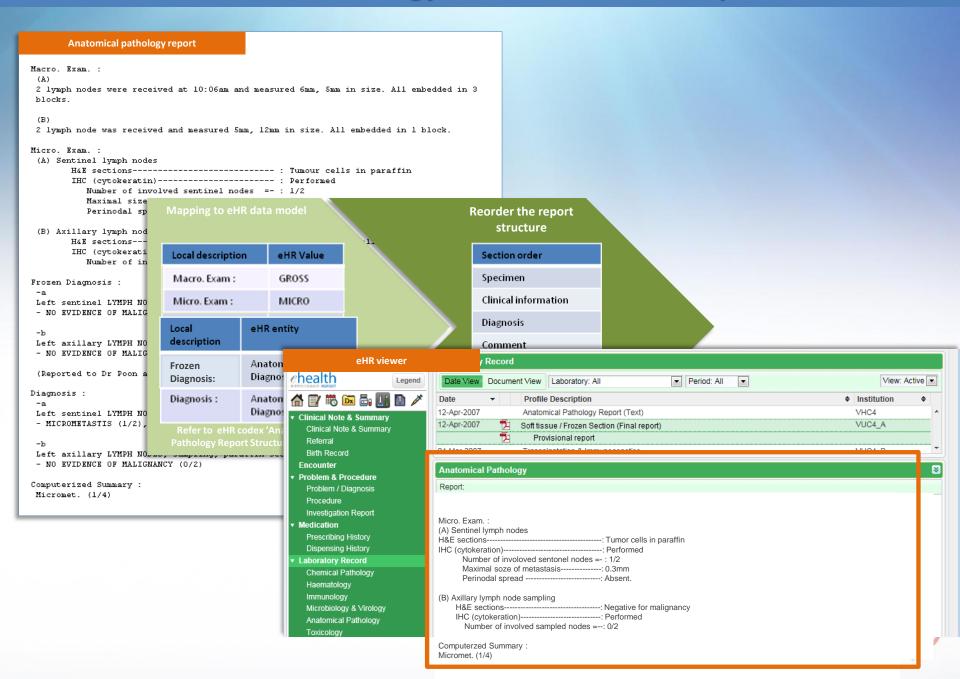
-a. & -b. All embedded in 1b.

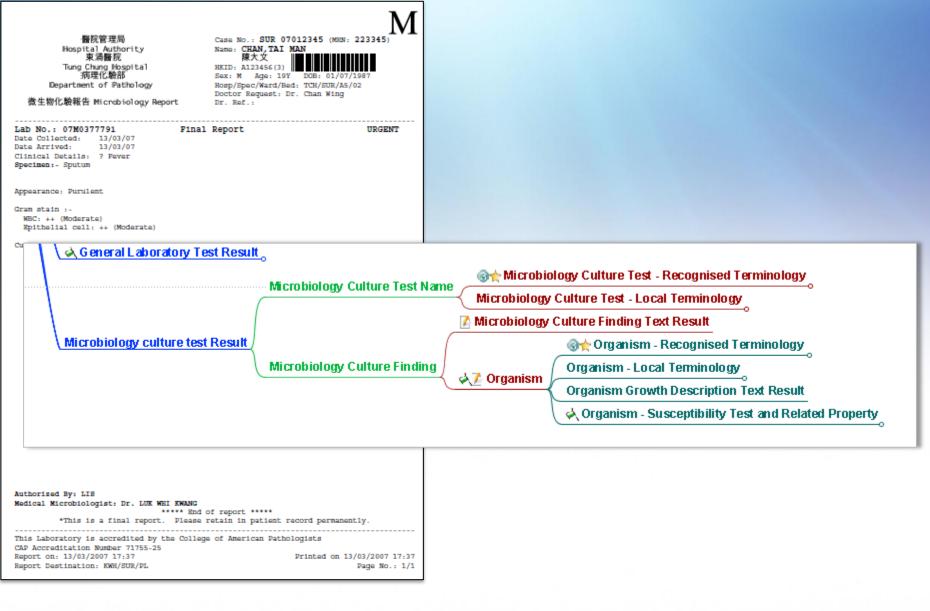
Micro, Exam. :

-a. Section shows two pieces of gas **Reorder the report** inflammatory cells of mild activity evidence of malignancy. -b. Section shows two pieces of muc Loca propria contains moderate mixed inf malignnacy or viral inclusion. Clini Diagnosis : Mac STOMACH, antrum, biopsy - active CH ESOPHAGUS, biopsy - ESOPHAGITIS. Mic Loca

				structure				
Local description	on eHR Value			Section order				
Clinical History : CLIN				Specimen				
Macro. Exam :	GROSS			Clinical information				
Micro. Exam :	MICRO			Diagnosis				
Local	eHR entity			Comment				
description	eHR vie	ewer	/ Record					
Diagnosis :	Chealth	Legend	Date View Docume	nt View Laboratory: All	Period: All	•	View: Ac	tive 💌
Refer to eHR Pathology Repo	Clinical Note & Summary Clinical Note & Summary Referral Birth Record		Date 12-Apr-2007 12-Apr-2007 12-Apr-2007 12-Apr-2007 04-Mar-2007 12-Apr-2007	Profile Description Anatomical Pathology Report (Text) Soft tissue / Frozen Section (Final rep Provisional report Transplantation & Immunogenetics	port)		Institution VHC4 VUC4_A VUC4_B	★
	Encounter Problem & Procedure Problem / Diagnosis Procedure Investigation Report Medication Prescribing History Dispensing History Laboratory Record Chemical Pathology Haematology Microbiology & Virology Anatomical Pathology Toxicology		Diagnosis: STOMACH, antrum, b ESOPHAGUS, biopsy Macro. Exam: -a. & -b. All embedded Micro. Exam: -a. Section shows two inflammatory cells of r evidence of malignand -b. Section shows tow	antrum. LA grade C esophagitis. iopsy - active CHRONIC GASTRITIS - ESOPHAGUS I in1b. pieces mucose. with moderate infiltr. nind activity. Hellicobacter bacilli are	ate of mixed absent. There is no mnar junction. The lami	na		

Anatomical Pathology Result – Level 2 Compliance

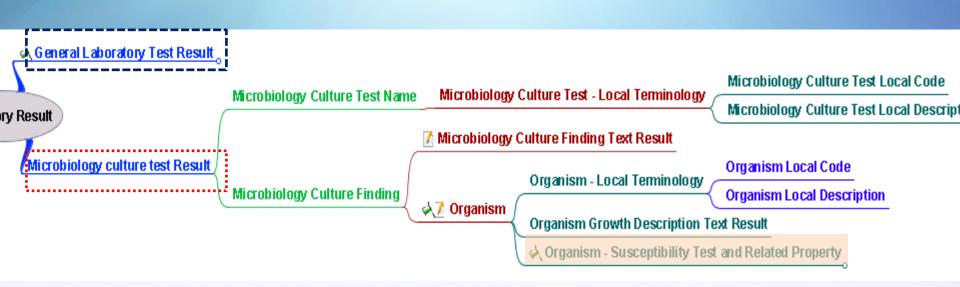




MICROBIOLOGY (C&ST)



Microbiology C&ST – Level 2 Compliance

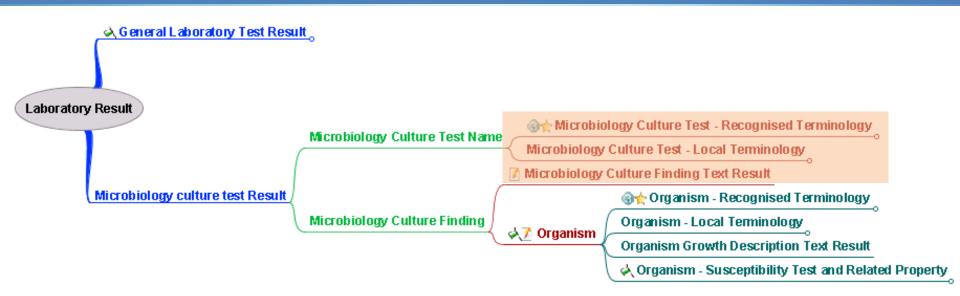


	Susceptibility Test and Related Property - Local Termin	minology	Susceptibility Test and Related Property Local Code		
	Susceptionity Test and Related Property - Local Terminology		Susceptibility Test and Related Property Local Description		
🗟 Organism - Susceptibility Test and Related Property		ibility Test and Related Property Result Code			
	Susceptibility Test and Related Property Result	Suscepti	ibility Test and Related Property Result Description		
		Suscepti	ibility Test and Related Property Result Local Description		



Structured Microbiology result with Local Description for level 2 data

Microbiology C&ST – Level 3 Compliance

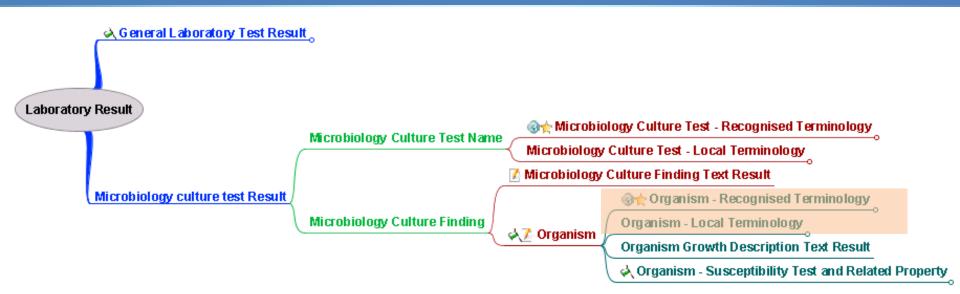




eHR Value	eHR Description	Allowable Values
HKCTT	Hong Kong Clinical Terminology Table	Nature = Lab. Test
LOINC	Logical Observation Identifiers Names and Codes	All values



Microbiology C&ST – Level 3 Compliance (..2)

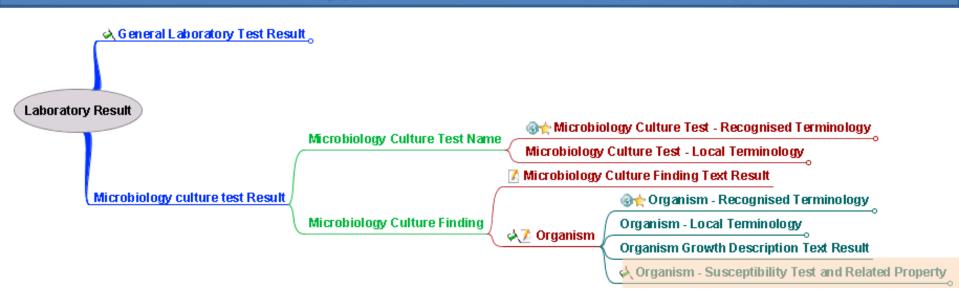


	Organism - Recongnised Terminology Name
③☆ Organism - Recognised Terminology /	Organism Identifier - Recognised Terminology
	Organism Description - Recognised Terminology
Organism - Local Terminology	n Local Code
	Local Description

eHR Value	eHR Description	Allowable Values
HKCTT	Hong Kong Clinical Terminology Table	Nature = Organism
SNOMED CT	Systematized Nomenclature of Medicine - Clinical Terms	Hierarchy = Organism



Microbiology C&ST – Level 3 Compliance (..3)



Susceptibility Test and Related Property - Recognised Terminology Name

Susceptibility Test and Related Property Identifier- Recognised Terminology

	The susception	inty restand therated Prop	pary - Neco	initiation in the second				
		eHR Value	eHR D	escription			Allowable Val	ues
Susceptibility Test and Related Property		HKCTT	Nature = Lab. T	est				
	Susceptibility Te	LOINC	Logical	Observation Iden	tifiers Names	and Codes	All values	
				Susceptibility Test and	l Related Property R	esult Code		
1	🗧 Susceptibility	y Test and Related Prope	rty Result	Susceptibility Test and	l Related Property R	esult Description		
			١	Susceptibility Test and	eHR Value	eHR Descri	ption	
					S	Sensitive		<u> </u>
					I	Intermediate		
					R	Resistant		
					Р	Positive		
					N	Negative		~
					U	Indeterminat	e	
							A MARTINITAL MARTIN RESARCEDVT	AL.

@ Susceptibility Test and Related Property - Recognised Terminology

Microbiology C&ST – Level 3 Compliance (...3)

醫健通 All Local Non-Local	Laboratory Record			
Chealth Legend	Date View Docume	nt View Microbiology & Virology	Period: All	View: Active
Image: Second	Date ▼ 06-Apr-2011 23-Jun-2009	Profile Description Tissue / I10, I31, MCOM Tissue / I10, I31, MCOM		♦ Institution ♦ ∨HC4 × × ∨UC4_A × ×
Problem / Diagnosis Procedure	23-Jun-2007 pratory Microbiology I	MID-STREAM URINE		VUC4_A
Prescribing History Perf Dispensing History Refe	nding Institution: uesting Institution: orming Institution: erence Date:	Virtual Unit A Virtual Unit A Virtual Unit A 23-Jun-2007		
	ment: Name	Comment	Comm	ent
Hoomatology	Culture, Urine Organism · : Klebsiella			
Anatomical Pathology	1. Ampicillin	Resistant		
Toxicology Transplantation & Immunogenetics	2. Amikaicn 3. Gentamicin 4. Impienem	Resistant Resistant Sensitive		
Molecular Pathology General & Other				
 Radiology Record 				Ok
General Radiology Computed Tomography Angiographic / Vascular IR Non-vascular IR Magnetic Resonance Imaging Immunisation Record		cells/ml) RBC not seen Epithelial cells not seen Bacteria		



Thank you

