

Lung Cancer Rapid Access Service Referral User Interface Vendor Implementation Guidelines Document

Document History		
Healthlink Online Version	3.0	
Written By	Healthlink Development Unit	
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Version History	Author(s)	Comment	Healthlink Application Version	Date
1.0	Karen Wynne	Initial draft	3	16 th Sept 2009
1.1	Senthil Nathan	Updated User Interface Section	3	27 th April 2010
1.2	Senthil Nathan	Added note in the Section 3.3 to make clear that Private Hospital referral form should not include NCCP logo	3	26 th May 2010
1.3	Senthil Nathan	Updated Screenshot 3.3. Added new code tables InvestigationRadLocationCode, InvestigationRadDateCode, InvestigationRadResultCode for Radiology Investigation section. Changed History General text fields to text-area.	3	11 th Oct 2010
1.4	Karen Wynne Senthil Nathan	Updated Screenshot 3.3. Added new code table InvestigationRadCommentCode to Radiology Investigation. Updated code table, and default	3	25 th Jan 2011

		1 C C 1		
		value for Smoker.		
		Updated		
		'InvestigationRadResultCode'		
		code table value.		
		Changed field title 'Sex' to		
		'Gender'. Increased field length		
		from 50 to 1000 chars for 'Other		
		Clinical Findings', 'Laboratory		
		Investigation' 'Chest X-Ray –		
		Hospital Name & Comment', 'CT		
		Scan – Hospital Name &		
		Comment', 'Other Radiology		
		Investigation', 'Current Medication		
		- Details (Dosage, Frequency)'.		
		Updated 'Smoker' field 'Comment'		
		section. Added new field 'Specify		
		Chest Signs'. Changed date format		
		of 'Chest X-Ray' & 'CT Scan'.		
1.5	Karen Wynne	Update screenshot to reflect	3	11/03/2011
		database update for Information for		
	Orla Doogue	Contrast CT i.e. proceed items with		
		'History of'		
		Changed value of 'Chest X-Ray/CT		
		Scan' – Date format		

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1. Document Aim

The aim of this document is to assist GP software vendors to implement Lung Cancer Referral User Interface in their systems. Also it references to other supporting documents, which are required for this implementation.

2. Overview

The National Cancer Control Programme (NCCP) is launching cancer referrals electronically through Healthlink. To make the referral submission process more robust and user friendly GP software vendors have agreed to implement referrals on their Practice Management System (PMS). Completed Referrals will be uploaded to Healthlink via the Web Service (WS).

3. User Interface Flow

3.1 Hospital / Referral List

After clicking the referral link user need to select the desire hospital and the referral type to place a referral

Screenshot 3.1:

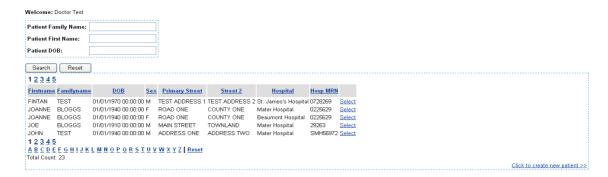


Note: Referral services are not available in every hospital that participates in the Healthlink.

3.2 Patient Search and Patient Demographics

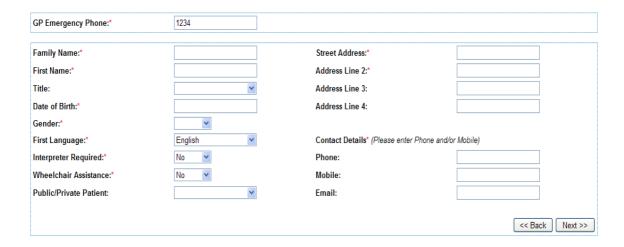
Having selected the relevant referral the user needs to be able to search for the patient to be referred based on family name, first name and DOB as per the screenshot 3.2.1 below

Screenshot 3.2.1: (Patient Search)



When a match is found the user can then select the particular patient from the list and the demographic details (screenshot 3.2.2) are automatically populated. If no match found the user can add patient details manually by clicking the link 'Click to create new patient'.

Screenshot 3.2.2: (Patient Demographics)



3.3 Healthlink Electronic Lung Cancer Referral Form

Here is how the National Lung Cancer Rapid Access Clinic Referral Form looks like in the Healthlink Online web application with some sections expanded. Colour theme of the form is 'GREEN'.

Note: When implementing this referral for Private Hospital, referral form should not include NCCP logo.

Screenshot 3.3:

	IATIONAL LUNG CANCER RAPID ACCESS SERVICE REFERRAL FORM COP TO TRAINCRAF CONTROL PROGRAMME COP TO TRAINCRAFT CONTROL PRO
Patient Name: Date of Birth: Gender: Pregnancy Status:	Mater Test Hospital: St. James's Hospital 01/01/1980 (Age: 31 years) Female
Symptom / Reason for Referral:*	Main indications for referral are an abnormal chest x-ray or haemoptysis. Lung Cancer Guidelines Haemoptysis Other Persistent Unexplained Symptoms:
Clinical Examination:*	 ☑ Chest signs Specify Chest Signs: ☐ Lymphadenopathy Other Clinical Findings: ☐ Hepatomegaly ☐ Clubbing
Lab Investigation:	
Rad Investigation:*	Chest X-Ray Hospital: Date: / MMM/YYYY Result: CT Scan Hospital: Date: / MMM/YYYY Result: Comment:

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Information for Contra CT:	□ History of Asthma				
	☐ History of Renal Insufficiency ☐ History of Allergy to Contrast Dye				
	25 1 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
C - 1-1111-4	Has patient been advised of possible diagnosis of lung cancer? Yes No				
Social History:	Drinker: Unknown				
2500250025002500500250	Smoker:* Current smoker ▼ Number of Cigarettes: per day, Years of Smoking:				
General History:	History of Present Illness:				
	History of Past Illness:				
	History of Surgical Procedures:				
	History of Allergies:				
	History of Family Member Diseases:				
Current Medication:	Patient on Anticoagulants Yes 🔻				
	Patient on Aspirin Yes Details: (Dosage & Frequency)				
	Patient on Plavix No Details: (Dosage & Frequency)				
	Patient on Warfarin No Details: (Dosage & Frequency)				
	Current Medication:				
Comments:					
<< Back	Next>>				

3.4 Lung Cancer Referral Form User Interface field details

The vendor interface for referrals will require the relevant forms and corresponding fields, listed in the table below, are made available for input and selection. The table indicates the fields to be displayed, how they are populated, their default values if any, and whether or not they are mandatory. To obtain code table data call WS method GetCodeTablesData and pass in code table name specified in column Comment. More information on the Web Service can be found in the document "WS HealthlinkOnline Tech GP Vendor.doc".

Form	Field	Mand	Value	Comment
Hospital &	Hospital	Y	Populated via WS	Default: Blank
Referral				WS method:
Кејетти				GetAvailableServices
	Referral	Y	Populated via WS	Default: Blank
				WS method:
				GetAvailableServices
Patient Search	Family Name		Text. Max. Length 50 chars	
	First Name		Text. Max. Length 50 chars	
	DOB		Date (dd/mm/yyyy)	
			T 1.50 1	
Patient	Family Name	Y	Text. Max. Length 50 chars	
Demographics	First Name	Y	Text. Max. Length 50 chars	
0 1	Title		Populated via WS	WS code table: Title
	DOB	Y	Date (dd/mm/yyyy)	
	Gender	Y	Populated via WS	WS code table: Sex
	Pregnancy Status		Populated via WS	WS code table:
			_	PregnancyStatus
	First Language	Y	Table ISO-639	Download it from the
				Internet.
	Interpreter	Y	Populated via WS	WS code table: YesNo
	Required		_	
	Wheelchair	Y	Populated via WS	WS code table: YesNo
	Assistance		_	
	Public/Private		Populated via WS	WS code table:
				FinancialClass
	Email		Text. Max. Length 50 chars	Valid characters:
			_	.@0123456789abcdefghij
	G	**	T 1100 1	klmnopqrstuvwxyz
	Street Address	Y	Text. Max. Length 100 chars	
	Address Line 2	Y	Text. Max. Length 50 chars	
	Address Line 3		Text. Max. Length 50 chars	
	Address Line 4		Text. Max. Length 50 chars	
	Phone	Y	Text. Max. Length 50 chars	Either Phone or Mobile
	Mobile			required, not both.
				Valid characters:
				0123456789
	Defermal In direct	V	T ah al	See screenshot3.3 for
Referral	Referral Indicator	Y	Label	
-	Text			Referral Indicator Text
	D of our of		Link	Link to Lung Cancer
	Referral			Referral Guidelines.pdf
	Guidelines			1

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Sympt Reason Referr	n for	Checkbox. Populated via WS	Multiple symptoms can be selected WS code table: Symptom
Other	Persistent N slained	Text-area. Max. Length 10,000 chars	Mandatory when symptom listed is not selected
Clinic		Checkbox. Populated via WS	Multiple Clinical Examination can be selected WS code table: ClinicalExamination
Other Findin	Clinical N gs	Text. Max Length 1,000 chars	Mandatory when Clinical Examination is not selected
Specif Signs	y Chest N	Text. Max Length 1,000 chars	Display when Clinical Examination is 'Chest signs'
Labora Investi	atory N igation	Text. Max Length 1,000 chars	
Radio	logy Y igation	Populated via WS	Default: Not done. WS code table: InvestigationRad

When Radiology Investigation is 'Chest X-Ray' then display:

- Hospital Name Text; Max. Length 1,000 chars; respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadLocationCode
- Date Date (DD/MM/YYYY or MM/YYYY or YYYY); respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadDateCode
- Result Populated by WS. Default: Blank; WS code table: InvestigationRadResult. Respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadResultCode

When 'Result' is 'Abnormal' display:

 Comment – Text; Max. Length 1,000 chars; respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadCommentCode

When Radiology Investigation is 'CT scan' then display:

- Hospital Name Text. Max. Length 1,000 chars; respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadLocationCode
- Date Date (DD/MM/YYYY or MM/YYYY or YYYY); respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadDateCode
- Result Populated by WS. Default: Blank; WS code table: InvestigationRadResult. Respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadResultCode

When 'Result' is 'Abnormal' display:

 Comment – Text; Max. Length 1,000 chars; respective OBX.3 codes to compose a message can be found in the WS code table: InvestigationRadCommentCode

Other Radiology	Text. Max. Length 1000	
Investigation	chars	
Information for	Checkbox. Populated via WS	Multiple Information for
Contrast CT	Checkeom i opaiaica via vis	Contrast CT can be
		selected
		WS code table:
		MedicalHistory
Has patient been	Radio	Default 'No' is selected
advised of		
possible diagnosis		
of lung cancer?		
Social History:		
Drinker	Populated via WS	Default: Unknown
		WS code table:
		YesNoUnknown

Units of Alcohol per week		Text. Max. Length 3 chars	Display when Drinker is 'Yes'. Range: 1 – 300
Smoker	Y	Populated via WS	Default: Blank WS code table: SmokerLung
Number of Cigarettes per day		Text. Max. Length 3 chars	Display when Smoker is 'Current Smoker'. Range: 1 - 100
Years of Smoking		Text. Max. Length 2 chars	Display when Smoker is 'Yes'. Range: 1 – 90
History General:			
History of Present illness		Text-area. Max. Length 10000 chars	
History of Past illness		Text-area. Max. Length 10000 chars	
History of Surgical Procedures		Text-area. Max. Length 10000 chars	
History of Allergies		Text-area. Max. Length 10000 chars	
History of Family Member Diseases		Text-area. Max. Length 10000 chars	
Current Medication	on:		
Patient on Anticoagulants		Populated via WS	Default: Blank WS code table: YesNo
Patient on Aspirin	Y	Populated via WS	Mandatory when 'Anticoagulants' is 'Yes'. WS code table: YesNo
Patient on Plavix			
Patient on Warfarin			
Details (Dosage, Frequency)	Y	Text. Max. Length 1000 chars	Displays for each drug and mandatory when drug is selected
Current Medication		Text-area. Max. Length 10000 chars	
Comments		Text-area. Max. Length 10000 chars	

4. Lung Cancer Referral Message Construction Guidelines

When submitting the referral to Healthlink the data will need to be processed into HL7 XML format. Please refer to 'Generic_Ref_Message_Construction_Guide.pdf' and 'Message_Construction_Lung.pdf' for Lung Cancer referral message implementation.

5. Lung Cancer Referral Acknowledgement Message Construction Guidelines

When the referral form has been completed and verified on the vendor system, the referral should be submitted securely to Healthlink via Healthlink web service API. Healthlink will acknowledge the submitted request. Please refer 'Message_Construction_ACK.pdf' for Acknowledge message implementation

6. Lung Cancer Referral Response Message

When the consultant responds to the referral, a RRI_I12 message will be sent back through Healthlink via the Web Service to the vendor system. Please refer to the 'Response_Message.pdf', the RRI_I12 schema and the response XSLT provided within the documentation set to the vendors. The RRI schema is identical to an REF schema aside from the top node.