



## ***National Rapid Access Prostate Clinic Referral form User Interface Vendor Implementation Guidelines Document***

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Written By	Healthlink Development Unit
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Version History	Author(s)	Comment	Healthlink Application Version	Date
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Version 1.6	Orla Doogue	Updated version number of reference to Message Construction Document	3	18 <sup>th</sup> May 2009
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Version 2.0	Orla Doogue	Added note about change to comments before the PSA test results	3	10 <sup>th</sup> Dec 2009

Version 2.1	Senthil Nathan	Updated Screenshot 3.1 to include Private Hospital. Updated screenshot 3.2.2 & 3.3 to keep the U.I changes up-to-date. Changed Demographic fields 'Pregnancy Status' & 'Public/Private Patient' as non-mandatory. Updated 'Comment' section for 'First Language' & 'Phone/Mobile'. Changed code table name for 'Social History' section to cover 'Unknown' option. Changed the 'Referral Priority' to non-mandatory (not reflected in screen shot).	3	05 <sup>th</sup> Feb 2010
Version 2.2	Senthil Nathan	Changed the title of the document to reflect this as national referral form document. Updated Screenshot: 3.2.2 & 3.3 to reflect new changes. Section 3.4 changes: Added new field 'PSA Guidelines text' under 'PSA', Updated 'PSA Test' comment that 'PSA Test' is non-mandatory <b>if</b> result of DRE is <b>Suspicious</b> ; Renamed field 'Urinalysis' to 'Result of Urinalysis', changed control to text instead of dropdown, and deleted 'Result' field.	3	14 <sup>th</sup> Apr 2010
Version 2.3	Senthil Nathan	Added note in the Section 3.3 to make clear that Private Hospital referral form should not include NCCP logo.	3	26 <sup>th</sup> May 2010
Version 2.4	Senthil Nathan	Updated Screenshot 3.3 to reflect changes made to 'PSA Test' guidelines note, and 'Previous Prostate Biopsy - Date' format. Changed field title 'Sex' to 'Gender'. Increased field length from 50 to 1000 chars for 'Consultant', 'Location', 'Other Clinical Examination', 'Result of Urinalysis', 'Previous Prostate Biopsy - Hospital & Date', 'Other Laboratory Investigation', 'Radiology Investigation', 'Current Medication - Details (Dosage, Frequency)'. Changed 'Previous Prostate Biopsy - Date' date format to 'dd/mm/yyyy'. Changed 'History General' Section, and Current Medication field to Text-area with maximum length of 10000 chars. Changed 'Patient on Anticoagulants' to non-mandatory field.	3	25 <sup>th</sup> Jan 2011

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Version 2.5	Orla Doogue	Changed value of PSA & 'Previous Prostate Biopsy' - Date format.	3	14 <sup>th</sup> Jun 2011
Version 2.6	Orla Doogue	Changed PSA Test range from 0.0-1000 to 0.0 to 'no upper limit'	3	04 <sup>th</sup> Jul 2012

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## 1. Document Aim

The aim of this document is to assist GP software vendors incorporate Prostate Clinic Referral User Interface into their systems. References are made to other supporting documents 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:**

Please Select Public Hospital List:

Please Select Private Hospital List:

Please select referral type:

**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)

Welcome: Doctor Test

Patient Family Name:

Patient First Name:

Patient DOB:

1	2	3	4	5								
Firstname	Familyname	DOB	Sex	Primary Street	Street 2	Hospital	Hosp MRN					
FINTAN	TEST	01/01/1970 00:00:00 M		TEST ADDRESS 1	TEST ADDRESS 2	St. James's Hospital	0728269	<a href="#">Select</a>				
JOANNE	BLOGGS	01/01/1940 00:00:00 F		ROAD ONE	COUNTY ONE	Mater Hospital	0225629	<a href="#">Select</a>				
JOANNE	BLOGGS	01/01/1940 00:00:00 F		ROAD ONE	COUNTY ONE	Beaumont Hospital	0225629	<a href="#">Select</a>				
JOE	BLOGGS	01/01/1910 00:00:00 M		MAIN STREET	TOWNLAND	Mater Hospital	29263	<a href="#">Select</a>				
JOHN	TEST	01/01/1940 00:00:00 M		ADDRESS ONE	ADDRESS TWO	Mater Hospital	SMH#66972	<a href="#">Select</a>				

1 2 3 4 5

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | [Reset](#)

Total Count: 23

[Click to create new patient >>](#)

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)

GP Emergency Phone:\*

Family Name:\*

First Name:\*

Title:

Date of Birth:\*

Gender:\*

First Language:\*

Interpreter Required:\*

Wheelchair Assistance:\*

Public/Private Patient:

Street Address:\*

Address Line 2:\*

Address Line 3:

Address Line 4:

Contact Details\* (Please enter Phone and/or Mobile)

Phone:

Mobile:



Email:

### 3.3 Healthlink Electronic Prostate Clinic Referral Form

Here is how the Prostate Clinic Referral Form looks like in the Healthlink Online web application with some sections expanded. Colour theme of the form is 'BLUE'.

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

#### Screenshot: 3.3

 <b>NATIONAL RAPID ACCESS PROSTATE CLINIC REFERRAL FORM</b> 	
Rapid access clinics aim to improve access to investigations for prostate cancer in men aged from 50 to 70 (or from aged 40 if they have a first degree relative with prostate cancer). Prostate cancer will continue to be diagnosed in general urology clinics.	
Patient Name:	BUZZ ALDRON
Date of Birth:	01/01/1980 (Age: 31 years)
Gender:	Male
Hospital:	St. James's Hospital
Referral Priority:	<input type="button" value="Urgent"/> <a href="#">Prostate Cancer Referral Guidelines</a>
Prev. Seen by Urologist:*	<input type="button" value="Yes"/>
Consultant:	<input type="text"/>
Location:	<input type="text"/>
Digital Rectal Exam:	<input type="button" value="DRE - Prostate feels suspicious"/>
Other Clinical Exam.:	<input type="text"/>
PSA Test:	All men with an abnormal DRE should be referred to a urologist regardless of PSA results. Please wait six weeks to do a PSA test if a patient has had an active urinary infection, prostate biopsy, TURP, or prostatitis. In a man with a normal DRE, repeat an abnormal PSA test at 6 weeks before referral.
No:	Total PSA (ng/ml):
Date (MM/YYYY):	
1.	<input type="text"/> / <input type="text"/>
2.	<input type="text"/> / <input type="text"/>
3.	<input type="text"/> / <input type="text"/>
4.	<input type="text"/> / <input type="text"/>
Result of Urinalysis:	<input type="text"/> (to exclude infection)
Previous Prostate Biopsy:*	<input type="button" value="Yes"/>
Hospital:	<input type="text"/>
Date:	<input type="text"/> / <input type="text"/> / <input type="text"/> DD/MM/YYYY
Result:	<input type="button" value=""/>
Other Lab Investigation:	<input type="text"/>
Rad Investigation:	<input type="text"/>
Social History:	Drinker: <input type="button" value="Yes"/> Units of Alcohol: <input type="text"/> per week Smoker: <input type="button" value="Yes"/> Number of Cigarettes: <input type="text"/> per day, Years of Smoking: <input type="text"/>

<b>General History:</b>	History of Present Illness:	<input type="text"/>	
	History of Past Illness:	<input type="text"/>	
	History of Surgical Procedures:	<input type="text"/>	
	History of Allergies:	<input type="text"/>	
	History of Family Member Diseases:	<input type="text"/>	
<b>Current Medication:</b>	Patient on Anticoagulants	<input type="button" value="Yes"/>	
	Patient on Aspirin	<input type="button" value="No"/>	Details: (Dosage & Frequency) <input type="text"/>
	Patient on Plavix	<input type="button" value="No"/>	Details: (Dosage & Frequency) <input type="text"/>
	Patient on Warfarin	<input type="button" value="No"/>	Details: (Dosage & Frequency) <input type="text"/>
	Current Medication:	<input type="text"/>	
<b>Comments:</b>	<input type="text"/>		
<input type="button" value=" &lt;&lt; Back"/> <input type="button" value=" Next &gt;&gt;"/>			

### 3.4 Prostate Clinic 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”.

<i>Form</i>	<i>Field</i>	<i>Mand</i>	<i>Value</i>	<i>Comment</i>
<i>Hospital &amp; Referral</i>	Hospital	Y	Populated via WS	Default: <a href="#">Blank</a> WS method: <a href="#">GetAvailableServices</a>
	Referral	Y	Populated via WS	Default: <a href="#">Blank</a> WS method: <a href="#">GetAvailableServices</a>
<i>Patient Search</i>	Family Name		Text. Max. Length 50 chars	
	First Name		Text. Max. Length 50 chars	
	DOB		Date (dd/mm/yyyy)	
<i>Patient Demographics</i>	Family Name	Y	Text. Max. Length 50 chars	
	First Name	Y	Text. Max. Length 50 chars	



	Title		Populated via WS	WS code table: <a href="#">Title</a>
	DOB	Y	Date (dd/mm/yyyy)	
	Gender	Y	<i>Populated via WS</i>	WS code table: <a href="#">Sex</a>
	Pregnancy		Populated via WS	WS code table: <a href="#">PregnancyStatus</a>
	First Language	Y	Table ISO-639	Download it from the Internet.
	Interpreter Required	Y	Populated via WS	WS code table: <a href="#">YesNo</a>
	Wheelchair Assistance	Y	Populated via WS	WS code table: <a href="#">YesNo</a>
	Public/Private		Populated via WS	WS code table: <a href="#">FinancialClass</a>
	Email		Text. Max. Length 50 chars	Valid characters: <a href="#">. @0123456789abcdefghijklmnopqrstuvwxyz</a>
	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 required, not both. Valid characters: <a href="#">0123456789</a>
	Mobile			
<i>Referral</i>	Referral Priority	N	Populated via WS	Default: <a href="#">Blank</a> WS code table: <a href="#">ReferralPriority</a>
	<i>Referral Guidelines</i>		Link to Prostate Clinic Referral Guidelines.pdf	
	<i>Prev. Seen by Urologist</i>	Y	Populated via WS	Default: <a href="#">Blank</a> WS code table: <a href="#">YesNo</a>
	Consultant	N	Text. Max. Length 1000 chars	Available for entry when 'Prev seen by Urologist' is 'Yes'
	Location	N	Text. Max Length 1000 chars	
	Digital Rectal Examination	N	Populated via WS	Default: <a href="#">Blank</a> WS code table: <a href="#">DigitalRectalExamination</a>
	Other Clinical Examination	N	Text. Max. Length 1000 chars	
	<b>PSA:</b>			
	PSA Guidelines Text	Y	Label	See Screenshot: 3.3 'PSA Test' guidelines comments

PSA Test	Y	Text	<b>Non-Mandatory</b> when value for DRE is 'DRE – Prostate feels suspicious'; Four possible test results can be entered
Field: Total PSA (ng/ml); Range: 0.0 – 'no upper limit'; Max. Length 6 chars Field: Day; Range: 01 – 31; Max. Length 2 chars Field: Month; Range: 01 – 12; Max. Length 2 chars Field: Year; Range: Current year – 100 to Current year; Max. Length 4 chars  Date can be either DD/MM/YYYY or MM/YYYY or YYYY			
Result of Urinalysis	N	Text. Max. Length 1000 chars	
Previous Prostate Biopsy	Y	Populated via WS	Default: Blank WS code table: YesNo
Hospital	N	Text. Max. Length 1000 chars	Available for data entry when value for 'Previous Prostate Biopsy' is 'Yes'
Date	N	dd/mm/yyyy – Text OR mm/yyyy – Text OR yyyy - Text	Available for data entry when value for 'Previous Prostate Biopsy' is 'Yes'
Result	N	Populated via WS	Available for selection when value for 'Previous Prostate Biopsy' is 'Yes' Default: Blank WS code table: BiopsyResult
Other Laboratory Investigation	N	Text. Max. Length 1000 chars	
Radiology Investigation	N	Text. Max. Length 1000 chars	
<b>Social History:</b>			
Drinker		Populated via WS	Default: No WS code table: YesNoUnknown
Units of Alcohol per week		Text. Max. Length 3 chars	Display when Drinker is 'Yes'. Range: 1 – 300
Smoker		Populated via WS	Default: No WS code table: YesNoUnknown

	Number of Cigarettes per Day		Text. Max. Length 3 chars	Display when Smoker is 'Yes'. Range: 1 - 100
	Years of Smoking		Text. Max. Length 2 chars	Display when Smoker is 'Yes'. Range: 1 - 90
	<b>History General:</b>			
	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	
	<b>Current Medication:</b>			
	Patient on Anticoagulants		Populated via WS	Default: No 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	
	Other comments		Text-area. Max. Length 10000 chars	

## 4. Prostate 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\_Prostate.pdf**' for prostate clinic referral message implementation.

## **5. Prostate 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. Prostate Clinic 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.