



**CareConnect**  
**Chiron Phase 2 Initial Deliverables**  
**Functional Specification**  
**Release 2.1.3**

**Version 2.7**

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## Document History

Version	Date	Author	Comment
0.1	26/10/2012	H Mehta	Initial Draft
1.0	22/11/2012	H Mehta	Updated specs Allied Health – no form required Sexual Health – signed off – generic form Older Adults and Home Health – signed off – semi generic form Mental Health - Draft Child and Youth - TBC
1.1	23/11/2012	T Novess	Included updated Cardiology forms spec
1.2	07/12/2012	T Novess	Removed 'Child and Youth' form from this release
1.3	10/12/2012	T Novess	Removed 'Mental Health' form which is going into 2.1.2 release
1.4	10/12/2012	T Novess	Included 'Mental Health' form
1.5	13/12/2012	C Patterson	Updated HealthPoint URLs for 'Mental Health' form
1.6	09/01/13	T Novess	Added Minor form changes for 'Paediatric Orthopaedics' and 'Paediatric Medicine'
1.7	14/01/13	T Novess	'Preview attachment content': <ul style="list-style-type: none"> <li>- All attachment types (not just RFT &amp; TXT)</li> <li>- 2 types of attachment viewing; content in lightbox (RTF &amp; TXT) and launched in native application (all other attachment types)</li> </ul>
1.8	22/01/13	T Novess	Added 'Facility codes' to Mental Health and 'Older Adults & Home health' forms. Codes & descriptions to be provided in HL7 message
1.9	23/01/13	T Novess	Added Minor form changes for 'Diabetes' moved from 2.1.2 release
2.0	24/01/13	T Novess	Facility code for 'Maternal Mental Health' changed to [AMN]
2.1	24/01/13	T Novess	New requirements for: <ul style="list-style-type: none"> <li>• Patient residential DHB concepts</li> <li>• Patient residential DHB dropdown</li> </ul>
2.2	05/02/13	T Novess	'Older Adults..' Facility code for ADHB 'District nursing = 'AND'
2.3	07/02/13	T Novess	Added Critchlow raw Geocode list – appendix A
2.4	07/02/13	T Novess	Added requirement " <i>Hide 'Previously referred' section for Radiology forms</i> " from release spec 2.1.3
2.5	14/02/13	T Novess	Removed 'EMR Usability' requirements as EMR deliverables (as advised by T Nowak)
2.6	26/03/2013	T Novess	Removed following (to 2.1.5 release) <ul style="list-style-type: none"> <li>- "Older Adults and Home Health" new form</li> <li>- 'Mental health' new form</li> </ul> Adult Radiology added from 2.1.2 release Added UAT Radiology CR's
2.7	26/03/2013	T Novess	Move following requirements to 2.14 <ul style="list-style-type: none"> <li>- Hide 'Previously Referred': Radiology Forms</li> <li>- Radiology UAT1 Changes</li> </ul>

## 1 Introduction

This document specifies the development required in forms and product functionality to meet the requirements of Chiron Phase 2b, in the 2.1.3 release.

## 2 Print View; Urgent Details

Where a referral has been marked as 'Urgent', this should appear at the top of the referral form in bold and red, followed by the 'Urgent reason' field details:

The screenshot shows a web browser window with the following content:

- Page title: General Medicine Referral - Patient: Micky Mouse, DOB 21/02/1999...
- URL: http://122.56.3.176/chiron2/ReferralForm.action
- Urgent status: **URGENT: Patient needs to be seen urgently** (in red text)
- Preview status: Preview, not submitted copy (in orange text)
- Logo: Auckland Health logo (A+ Auckland)
- Title: General Medicine Referral for Outpatient Appointment
- Patient details: Patient: Micky Mouse, 13yrs, NHI JDR1235, M, DOB 21/02/1999, 12 Teed Street, Newmarket, Auckland 0230
- Referral details: Referred by: Smith John, Smith's Practice, NZMC 88976
- Section: Clinical Referral Information (underlined)
- ACC details: ACC claim: Not Specified

No change to the Administration section is required (i.e. do not remove urgent details from Admin section).

## 3 Patient Residential DHB

### 3.1 Patient Residential DHB Concepts

The following concepts to be created and maintained for patient residential DHB:

1. 'patient.residentialDHB': Current code which maps the raw DHB code to a predefined 'facility' code
2. 'patient.residentialDHB.code': raw DHB code
3. 'patient.residentialDHB.description': DHB description

Where the 'patient.residentialDhb' is provided by the EMR the Critchlow value will override (if value determined) and this logic will be maintained for the new MoH system.

### 3.2 Patient Residential DHB Dropdown

Non-mandatory dropdown added to 'Patient Information' tab for user to select 'Patient Residential DHB' when geocode is not found.

## 4 Preview Attachment Content

This section of the document defines the requirements for the functional extension of the existing 'Attachments / Reports' table in the core form. These changes apply to all services and templates. The requirement is to allow the user to 'preview' the full content of attachments to help identify the attachments for selection (attachments often have poor naming conventions).

### 4.1 Attachments Table 'Preview' button

A new column will be added to the attachments table with a 'Preview' button so the user can select which attachment they would like to Preview (for all attachment types):

<input type="checkbox"/>	Date	Name	Comments	Type	Size	Preview
<input type="checkbox"/>	05/01/2000	Scanned Document 1		msword	39 KB	
<input type="checkbox"/>	04/01/2000	Scanned Document 3		msword		
<input type="checkbox"/>	03/01/2000	Scanned Document 5				
<input type="checkbox"/>	02/01/2000	Renal Function		rtf		
<input type="checkbox"/>	12/12/1995	Radiology Report Genital Swab (12/12/1995)		rtf		
<input type="checkbox"/>	11/12/1995	Radiology Report Culture (12/12/1995)		rtf		
<input type="checkbox"/>	10/12/1995	Chlamydiass (Eia) (12/12/1995)		rtf		

GP's will need to be aware that the performance of this preview function is dependent on the size of the attachment and their EMR system. As a first release we have made the facility available for all attachment types – it may be necessary to consider a preview size limit in future releases if the large file performance is unusable. We will survey GP's on this matter after release.

HealthLink Online  
Auckland  
Audiology Referral for Outpatient Appointment

**Clinical Information**  
Information Required

**Attachments / Reports**  
32 reports selected  
No files attached

**Medications / Warnings**  
8 long term medications specified  
1 medical warning specified

**Medical History**  
Medical history specified

**Patient Disabilities**  
No disabilities specified  
No mobility issues specified

**Patient Information**  
MICKEY MOUSE  
Smiths  
HUX0860

Diagnostic Reports / Patient Documents  
Browse for Patient Document Browse for Local File

Select the documents to be submitted with this referral (Note: only jpeg, msword, pdf, rtf, tiff and plain text are supported)  
Caution: larger attachments may take significant time to preview

<input type="checkbox"/>	Date	Name	Comments	Type	Size	Preview
<input type="checkbox"/>	19/12/2012	Sample2.JPG		jpeg	171 KB	
<input checked="" type="checkbox"/>	27/04/2012			rtf		
<input checked="" type="checkbox"/>	16/04/2012	Test.jpg	Test.jpg	jpeg	171 KB	
<input checked="" type="checkbox"/>	16/04/2012	Test.JPG	Test.JPG	jpeg	168 KB	
<input checked="" type="checkbox"/>	16/04/2012	test < & ^* ( ) !.jpeg	test.jpeg	jpeg	171 KB	
<input checked="" type="checkbox"/>	08/02/2012	Test the & and 'test < & ^* ( ) !.jpeg characters	Test the & characters	pdf	96 KB	
<input checked="" type="checkbox"/>	14/01/2012	Discharge Summary Original		pdf		
<input checked="" type="checkbox"/>	01/01/2012	Observation Message		rtf		

### 4.2 Preview Light box

Once the user clicks on the row they want to preview using the preview button one of two views will be displayed depending on the attachment type:

1. **RTF & TXT attachments:** A light box will appear displaying the contents of the attachment in a light box on the screen:

Date	Name	Comments	Type	Size	Preview
05/01/2000	Scanned Document 1		mword	39 KB	
04/01/2000	Scanned Document 3		mword		
03/01/2000	Scanned Document 5				
02/01/2000	Renal Function		rtf		
12/12/1995	Radiology Report Genital Swab (12/12/1995)		rtf		
11/12/1995	Radiology Report Culture (12/12/1995)				
10/12/1995	Chlamydiass (Eia) (12/12/1995)				

[Report Name as per name column in table]

Cholesterol: 9.6 mmol/L (< 5.0) H

Cholesterol.IN HDL: 2.4 mmol/L (> 1.0)

Cholesterol.Total/Cholesterol.IN.HDL: 4.0 mmol/L (> 1.0)

Creatinine: 71 umol/L (60 - 106)

Creatinine Urine: 20 mmol/24hr (7 - 24)

eGFR: 47 ml/min (> 80) L

Haemoglobin: 130 G/L (132 - 172) L

HbA1c(%): 6.1 % (6.0 - 7.9)

HbA1c: 45 mmol/mol (42 - 63)

Microalbumin urine: 4.1 mmol/L

Microalbumin/creat urine: 4.1 mmol/L

Triglycerides: 3.9 mmol/L (< 2) H

Ordered by: PARRIS&JOHN

Laboratory:

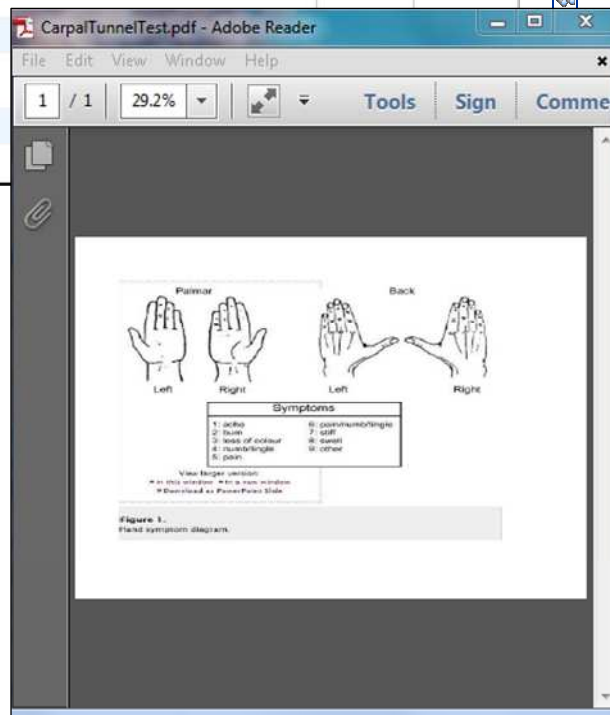
Observation date: 01-Feb-2011

If the user selects another row for preview (of RTF or TXT format) – the contents of the open preview pane will be replaced with the content of the new selection (i.e. the form will not open multiple preview windows).

The user can click the 'x' to close the box;

- All other attachment types:** the attachment will launch in the native application of the attachment e.g. adobe for PDF, word for doc.

Date	Name	Comments	Type	Size	Preview
05/01/2000	Scanned Document 1		mword	39 KB	
04/01/2000	Scanned Document 3		mword		
03/01/2000	Scanned Document 5				
02/01/2000	Renal Function				
12/12/1995	Radiology Report Genital Swab (12/12/1995)				
11/12/1995	Radiology Report Culture (12/12/1995)				
10/12/1995	Chlamydiass (Eia) (12/12/1995)				



## 5 New Form: Sexual Health

Generic Form Only

Field	Contr	Description / Validation / Help	PP	M
Reason / provisional diagnosis	Rich Text	~	N	M
Relevant history & physical examination findings	Rich Text	Button to add last consultation notes	N	M

### 5.1.1 Sexual Health: HealthPoint

### 5.1.2 Sexual Health: Service Code

Service code: 412712007

## 6 Minor Form Changes

Mock-ups: <http://122.56.3.176/chiron2/ereferral/index.html>

Service / Form	Change	Mock-up
<b>Paediatric Medicine</b>	<p>Remove field(s) (all speciality form fields i.e. not core for fields):</p> <ul style="list-style-type: none"> <li>• "Referral type"</li> <li>• Immunisation history – take out all check boxes</li> <li>• "Investigations: please attach report of relevant investigations" (text)</li> <li>• 'Seen by DHB'</li> <li>• 'Previously seen by other'</li> </ul> <p>Add field(s):</p> <p>Replace immunisation history section with two choices (radio buttons)</p> <p>Immunisation up to date OR immunisation not up to date</p> <p>If "immunisation not up to date" selected "immunisation history" box is presented</p> <p>'Diagnosis' field remains but becomes always visible i.e. not CM</p>	No
<b>Paediatrics Orthopaedics</b>	<p>Remove field(s) (all speciality form fields i.e. not core for fields):</p> <ul style="list-style-type: none"> <li>• "Referral type"</li> <li>• Relevant history and examination findings (DDH reasons for referral)</li> <li>• History, examination findings, treatment to date and investigations (all Reasons for Referral)</li> <li>• 'Previously seen by'</li> <li>• 'Previously seen by other'</li> </ul> <p>'Diagnosis' field remains but becomes always visible i.e. not CM</p>	No
<b>Diabetes</b>	<p>Remove field(s):</p> <ul style="list-style-type: none"> <li>• 'Visual Acuity' free text box</li> <li>• Title "Retinal screening" should be removed</li> </ul> <p>Change validation</p> <p>Make 'Main issues' non-mandatory where 'Reason for Referral' = 'Retinal Screening'</p>	Yes



## Appendix A

DHB_Shortname	DHB
BOP	Bay of Plenty
CAK	Auckland
CAP	Capital and Coast
CTY	Canterbury
HUT	Hutt
HWB	Hawke's Bay
LKS	Lakes
MWU	Midcentral
NLD	Northland
NLM	Nelson Marlborough
NWA	Waitemata
OTA	Otago
SAK	Counties Manukau
SCY	South Canterbury
SLD	Southland
TKI	Taranaki
TRW	Tairāwhiti
WCO	West Coast
WKO	Waikato
WNI	Whanganui
WRP	Wairarapa