

Breast Clinic Referral Message Construction Guide

Addendum

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Version History

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1. Document Aim

This document outlines the construction guidelines required to create the Breast Clinic Referral Specific Segment for the Breast Clinic Referral message using Health Level Seven version 2.4 with XML encoding. The Breast Clinic Referral message is the second Specialised Referral using Integrated Browser technology between Healthlink Online and GP Vendor Systems.

The Breast Clinic Referral will be based on the General Referral message, see document 'General_Referral_Message_Construction_v1_10.pdf' for further information.

This document will outline the message construction guidelines to create a Breast Clinic Referral message using the general referral message construction guide with this document to create the Breast Clinic Referral HL7 structured message.

This document will focus only on the section specific to Breast Clinic Referral.

2. Overview

A new Breast Clinic Referral Specific Segment will be added to the General Referral message structure to create this new message type.

This includes the new Breast Clinic Referral OBR segment and its associated OBX segments, the recommended order of these and the new code tables. This document also includes an XML sample of this specific segment and the related RF1 segment, which is part of the General Referral HL7 structure.

Figure 1 below identifies the various components that will make up the Breast Clinic Referral HL7 message.

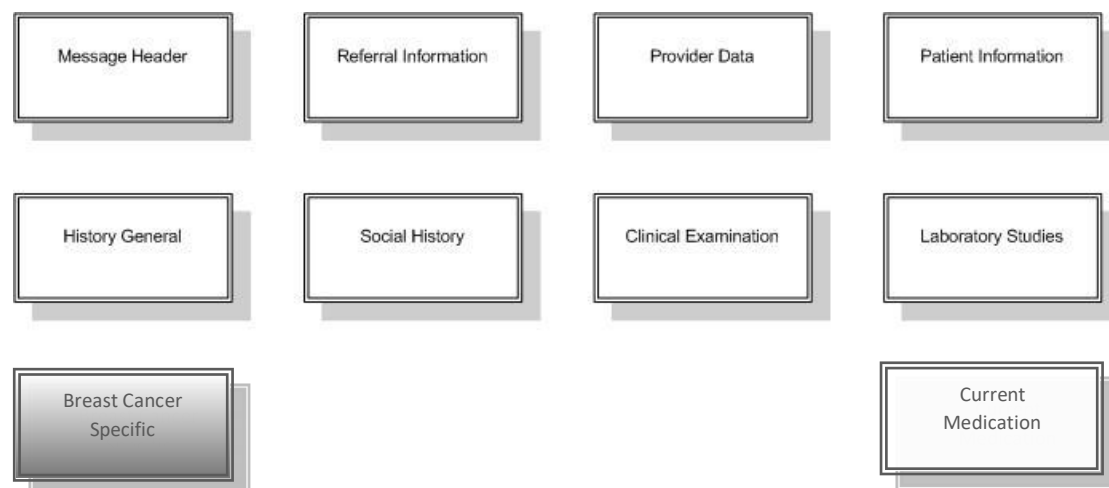


Figure 1: Architecture of Breast Clinic Referral Message

2.1. Organisation of OBR and OBX Segments

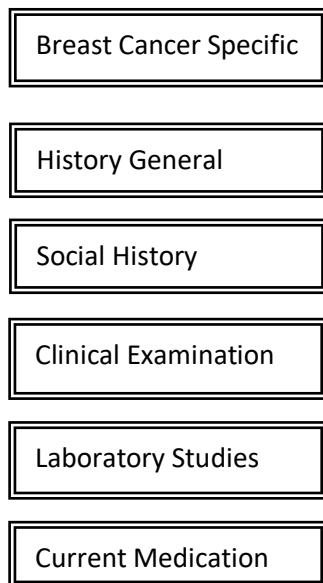


Figure 2: Organisation of OBR segments (* means Segment is optional)

3. OBR and OBX Specific Elements

In order to use the General Referral current infrastructure to create a Specialist Referral Message, a Specialist specific segment is added to the General Referral message structure. This will enable vendors to easily create additional clinical specific messages and this model should be used for the creation of all new specialised referrals messages where possible.

In case of Breast Clinic Referral that obligatory specific segment is called "Breast Cancer Specific".

Each of those OBR specific segments will contain only one OBR and multiple OBXs.

3.1 Code for Observation Request Segments (OBR)

Text	Code	Comment
Breast Cancer Specific	X007401	Initial segment identifying referral type

Table 1: Codes for OBR segment(s)

3.2 Breast Clinic Specific Segment's Codes for Data Items for Observation Result Segments (OBX)

Text	Code	Required	Type on form	Value & Comment
------	------	----------	--------------	-----------------

GP Declaration	X007435	Yes	Checkbox	'I have seen and examined this patient myself'
Referral For	X007430	Yes	Dropdown (default – empty)	'Mammography appointment' 'Symptomatic Breast Disease Clinic appointment'
Pregnant	X007433	Yes	Radio buttons	'No' or 'Yes'
Breast-feeding	X007434	Yes	Radio buttons	'No' or 'Yes'
Breast Signs and Symptoms (Remark: one OBX per one symbol, each with the same Code, but different OBX.5 value)	X007414	Yes (at least one MUST be selected)	3 Checkboxes + extra controls depending on the symptom type – please look at the screenshots for more details	Values vary depending on the symptom specifics. Each start with symptom name, followed by “(Left,Right)”, “(Left)” or “(Right)” (depending which checkbox/breast was selected – at least one MUST be selected if symptom is selected), then all the other extra controls’ data follow coma-separated, but only if populated with values in format: [Label] followed by [SelectedValue]. One example per each symptom (<u>selected values underlined</u>) *Discrete breast lump (<u>Left</u>), Lump was self-detected by the patient: <u>No</u>, Lump was felt by the GP: <u>No</u>, Lump is (texture): <u>Irregular</u> Breast abscess (<u>Right</u>) *Axillary lump (<u>Left,Right</u>), Lump was self-detected by the patient: Yes, Lump was felt by the GP: <u>Yes</u>, Lump is (mobility): <u>Mobile</u>, Lump is (texture): <u>Irregular</u>, Size (cm): <u>2.5</u> Asymmetric focal nodularity (persisting beyond one menstrual cycle) (<u>Left</u>) Unilateral bloody nipple discharge (<u>Right</u>) Unilateral spontaneous serous nipple discharge (<u>Left,Right</u>) New and fixed nipple retraction (<u>Left</u>) Nipple eczema refractory to topical treatment (<u>Right</u>) Skin dimpling (<u>Left</u>) Peau d’orange (<u>Left</u>) Breast pain (persisting greater than 3 months) (<u>Right</u>) **Image-detected breast abnormality found on CT/MRI/breast imaging (<u>Right</u>), Imaging modality: <u>Modality</u>, Details of abnormality: <u>Abnormality</u>

				Other (Left,Right): Free text Entered By GP * Allowed values for the both lump types: Lump was self-detected by the patient: <u>Yes/No</u> Lump was felt by the GP: <u>Yes/No</u> Remark: If 'Yes', then the following 3 data must be provided. If 'No' – all 3 are optional: Lump is (mobility): <u>Fixed/Mobile/Unknown</u> Lump is (texture): <u>Irregular/Smooth/Unknown</u> Size (cm): <u>[Decimal value - up to 4 digits + a coma]</u> Ex: "2.850" ** Modality & Abnormality are both required (it is a free text)
Symptom Duration	X007402	Yes	Textbox for number + Dropdown for Time unit Days, Weeks, Months)	Number in <OBX.5>, the time unit in <CE.1> & <CE.2>
Breast Image	X007404	No (but always sent)	A clickable image	Image is always being sent, even if no marks were put
Breast Examination	X007403	No (OBX always sent, can be empty)	Not presented on the screen.	This is textual representation of the Breast Image (based on a clock) EX: Right 5 O'Clock, Left Nipple, Right Axilla
Previous Attendance at Specialist Clinic	X007406	Yes	Dropdown (default 'No')	No/Yes
Previous Attendance Detail	X007407	No (present if the above field = 'Yes')	Hospital text, date field & Result dropdown	Data in format: "Hospital: [HospitalName], Date: [DD MMM YYYY], Result: [result]"
Previous Breast Disease	X007408	Yes	Dropdown (default 'No')	No/Yes
Previous Breast Disease Detail	X007409	No (present if the above field = 'Yes')	Hospital text, Date, Result Dropdown & Details text.	Data in format: "Hospital: [HospitalName], Date: [DD MMM YYYY], Result: [result], Details: [details]"
Previous Mammogram	X007410	Yes	Dropdown (default 'No')	No/Yes
Previous Mammogram Location Detail	X007411	No (required if 'Yes' for Prev. Mammogram)	Textbox	Name of the hospital
Previous Mammogram Date	X007412	No (required if 'Yes' for Prev. Mammogram)	Date field	Date of the previous mammogram (DD/MMM/YYYY). Ex: '20 Oct 2020'
Previous Mammogram Result	X007413	No	Dropdown	One value to select from: Normal / Abnormal / Unknown (default: empty)

Table 2: Local codes for OBX segments

4. Breast Clinic Referral on Healthlink Online

Patient Name:	mary test	Hospital:	Mater Public Hospital
Date of Birth:	01/01/1950 (Age: 71 years)		
Gender:	Female		
Pregnancy Status:			

GP declaration:* ☒ I have seen and examined this patient myself

Referral for:* Symptomatic Breast Disease Clinic appointment [Breast Referral Guidelines](#)

Is the patient pregnant?* ☐ No ☒ Yes ☐ Unknown

Is the patient breast-feeding?* ☐ No ☐ Yes ☒ Unknown

Breast Signs and Symptoms:*

☐ Discrete breast lump

☒ Breast abscess ☒ Left ☐ Right

☐ Axillary lump

☐ Asymmetric focal nodularity (persisting beyond one menstrual cycle)

☐ Unilateral bloody nipple discharge

☐ Unilateral spontaneous serous nipple discharge

☐ New and fixed nipple retraction

☐ Nipple eczema refractory to topical treatment

☐ Skin dimpling

☐ Peau d'orange

☐ Breast pain (persisting greater than 3 months)

☒ Image-detected breast abnormality found on CT/MRI/breast imaging ☐ Left ☒ Right

Please specify imaging modality:

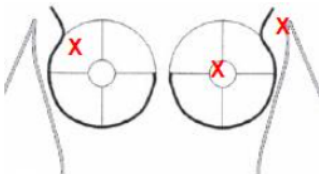
Details of abnormality:

Please supply report and image with referral or at appointment

☐ Other

Symptom Duration:* Weeks ▼

Breast Examination:


Right **Left**

Prev Attendance at Breast Clinic: No ▼

Prev Breast Disease: No ▼

Prev Mammogram: * No ▼

Additional Relevant Information:

5. XML Samples

The following example as attached to demonstrate a complete message:

- Breast Clinic_FullMessage_SimplifiedXML.xml

Below some specific samples were provided with some comments to demonstrate most of the details.

5.1 Breast Clinic Referral Message – MSH XML sample

```
<MSH>
  <MSH.1>|</MSH.1>
  <MSH.2>^~\&lt;/MSH.2>
  <MSH.3>
    <HD.1>HLONLINE.HEALTHLINK.74</HD.1>
    <HD.2 />
    <HD.3 />
  </MSH.3>
  <MSH.4>
    <HD.1>Test, Doctor</HD.1>
    <HD.2>012120.5013</HD.2>
    <HD.3>MCN.HLPracticeID</HD.3>
  </MSH.4>
  <MSH.5>
    <HD.1>HEALTHLINK</HD.1>
    <HD.2 />
    <HD.3 />
  </MSH.5>
  <MSH.6>
    <HD.1>Mater Public Hospital</HD.1>
    <HD.2>908.3011</HD.2>
    <HD.3>L</HD.3>
  </MSH.6>
  <MSH.7>
    <TS.1>202012221636</TS.1>
  </MSH.7>
  <MSH.9>
    <MSG.1>REF</MSG.1>
    <MSG.2>I12</MSG.2>
  </MSH.9>
  <MSH.10>REF20201222163655012120</MSH.10>
  <MSH.11>
    <PT.1>T</PT.1>
  </MSH.11>
  <MSH.12>
    <VID.1>2.4</VID.1>
  </MSH.12>
  <MSH.15 />
</MSH>
```

5.2 Breast Clinic Referral Message – Breast Clinic Specific OBR/OBX XML sample

```
<REF_I12.OBSERVATION>
  <OBR>
    <OBR.1>1</OBR.1>
    <OBR.2>
      <EI.1>REF20201222163655012120</EI.1>
      <EI.2>Referral Control Number</EI.2>
      <EI.3 />
      <EI.4 />
    </OBR.2>
    <OBR.3 />
    <OBR.4>
      <CE.1>X007401</CE.1>
    </OBR.4>
  </OBR>
</REF_I12.OBSERVATION>
```

```

    <CE.2>Breast Cancer Specific</CE.2>
    <CE.3>L</CE.3>
    <CE.4 />
    <CE.5 />
    <CE.6 />
  </OBR.4>
  <OBR.7>
    <TS.1>20201222163655</TS.1>
  </OBR.7>
</OBR>
<NTE />
<REF_I12.RESULTS_NOTES>
  <OBX>
    <OBX.1>1</OBX.1>
    <OBX.2>FT</OBX.2>
    <OBX.3>
      <CE.1>X007435</CE.1>
      <CE.2>GP Declaration</CE.2>
      <CE.3>L</CE.3>
      <CE.4 />
      <CE.5 />
      <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>I have seen and examined this patient myself</OBX.5>
    <OBX.7 />
    <OBX.8 />
    <OBX.11>F</OBX.11>
    <OBX.14>
      <TS.1>20201222163655</TS.1>
    </OBX.14>
  </OBX>
  <NTE />
</REF_I12.RESULTS_NOTES>
<REF_I12.RESULTS_NOTES>
  <OBX>
    <OBX.1>2</OBX.1>
    <OBX.2>FT</OBX.2>
    <OBX.3>
      <CE.1>X007430</CE.1>
      <CE.2>Referral For</CE.2>
      <CE.3>L</CE.3>
      <CE.4 />
      <CE.5 />
      <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>Symptomatic Breast Disease Clinic appointment</OBX.5>
    <OBX.11>F</OBX.11>
    <OBX.14>
      <TS.1>20201222163655</TS.1>
    </OBX.14>
  </OBX>
  <NTE />
</REF_I12.RESULTS_NOTES>
<REF_I12.RESULTS_NOTES>
  <OBX>
    <OBX.1>3</OBX.1>
    <OBX.2>FT</OBX.2>
    <OBX.3>
      <CE.1>X007433</CE.1>

```

```

        <CE.2>Pregnant</CE.2>
        <CE.3>L</CE.3>
        <CE.4 />
        <CE.5 />
        <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>Yes</OBX.5>
    <OBX.11>F</OBX.11>
    <OBX.14>
        <TS.1>20201222163655</TS.1>
    </OBX.14>
</OBX>
<NTE />
</REF_I12.RESULTS_NOTES>
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    <OBX>
        <OBX.1>4</OBX.1>
        <OBX.2>FT</OBX.2>
        <OBX.3>
            <CE.1>X007434</CE.1>
            <CE.2>Breast-feeding</CE.2>
            <CE.3>L</CE.3>
            <CE.4 />
            <CE.5 />
            <CE.6 />
        </OBX.3>
        <OBX.4 />
        <OBX.5>Yes</OBX.5>
        <OBX.11>F</OBX.11>
        <OBX.14>
            <TS.1>20201222163655</TS.1>
        </OBX.14>
    </OBX>
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        <OBX.1>5</OBX.1>
        <OBX.2>FT</OBX.2>
        <OBX.3>
            <CE.1>X007414</CE.1>
            <CE.2>Breast Signs and Symptoms</CE.2>
            <CE.3>L</CE.3>
            <CE.4 />
            <CE.5 />
            <CE.6 />
        </OBX.3>
        <OBX.4 />
        <OBX.5>Discrete breast lump (Left), Lump was self-detected by the
patient: Yes, Lump was felt by the GP: Yes, Lump is (mobility): Mobile, Lump is
(texture): Smooth, Size (cm): 1</OBX.5>
        <OBX.11>F</OBX.11>
        <OBX.14>
            <TS.1>20201222163655</TS.1>
        </OBX.14>
    </OBX>
    <NTE />
</REF_I12.RESULTS_NOTES>
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    <OBX>

```

```

<OBX.1>6</OBX.1>
<OBX.2>FT</OBX.2>
<OBX.3>
  <CE.1>X007414</CE.1>
  <CE.2>Breast Signs and Symptoms</CE.2>
  <CE.3>L</CE.3>
  <CE.4 />
  <CE.5 />
  <CE.6 />
</OBX.3>
<OBX.4 />
<OBX.5>Breast abscess (Right)</OBX.5>
<OBX.11>F</OBX.11>
<OBX.14>
  <TS.1>20201222163655</TS.1>
</OBX.14>
</OBX>
<NTE />
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  <OBX>
    <OBX.1>7</OBX.1>
    <OBX.2>FT</OBX.2>
    <OBX.3>
      <CE.1>X007414</CE.1>
      <CE.2>Breast Signs and Symptoms</CE.2>
      <CE.3>L</CE.3>
      <CE.4 />
      <CE.5 />
      <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>Axillary lump (Left), Lump was self-detected by the patient:
Yes, Lump was felt by the GP: No, Lump is (mobility): Unknown</OBX.5>
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    <OBX.14>
      <TS.1>20201222163655</TS.1>
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      <OBX.2>FT</OBX.2>
      <OBX.3>
        <CE.1>X007414</CE.1>
        <CE.2>Breast Signs and Symptoms</CE.2>
        <CE.3>L</CE.3>
        <CE.4 />
        <CE.5 />
        <CE.6 />
      </OBX.3>
      <OBX.4 />
      <OBX.5>Image-detected breast abnormality found on CT/MRI/breast imaging
(Left), Imaging modality: 2, Details of abnormality: 1</OBX.5>
      <OBX.11>F</OBX.11>
      <OBX.14>
        <TS.1>20201222163655</TS.1>
      </OBX.14>
    </OBX>

```

```

    <NTE />
  </REF_I12.RESULTS_NOTES>
  <REF_I12.RESULTS_NOTES>
    <OBX>
      <OBX.1>9</OBX.1>
      <OBX.2>FT</OBX.2>
      <OBX.3>
        <CE.1>X007414</CE.1>
        <CE.2>Breast Signs and Symptoms</CE.2>
        <CE.3>L</CE.3>
        <CE.4 />
        <CE.5 />
        <CE.6 />
      </OBX.3>
      <OBX.4 />
      <OBX.5>Other (Left): discolouring</OBX.5>
      <OBX.11>F</OBX.11>
      <OBX.14>
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      <OBX.2>NM</OBX.2>
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        <CE.1>X007402</CE.1>
        <CE.2>Symptom Duration</CE.2>
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        <CE.5 />
        <CE.6 />
      </OBX.3>
      <OBX.4 />
      <OBX.5>2</OBX.5>
      <OBX.6>
        <CE.1>Weeks</CE.1>
        <CE.2>Weeks</CE.2>
        <CE.3>L</CE.3>
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      <OBX.8 />
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      <OBX.2>ED</OBX.2>
      <OBX.3>
        <CE.1>X007404</CE.1>
        <CE.2>Breast Image</CE.2>

```

```

        <CE.3>L</CE.3>
        <CE.4 />
        <CE.5 />
        <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>/9j/4AAQSkZJRgABAQEAYABgAAD ..... </OBX.5>
    <OBX.11>F</OBX.11>
    <OBX.14>
        <TS.1>20201222163655</TS.1>
    </OBX.14>
</OBX>
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    <OBX>
        <OBX.1>12</OBX.1>
        <OBX.2>NM</OBX.2>
        <OBX.3>
            <CE.1>X007403</CE.1>
            <CE.2>Breast Examination</CE.2>
            <CE.3>L</CE.3>
            <CE.4 />
            <CE.5 />
            <CE.6 />
        </OBX.3>
        <OBX.4 />
        <OBX.5>Right 1 0'Clock,Left Nipple,Left Axilla</OBX.5>
        <OBX.11>F</OBX.11>
        <OBX.14>
            <TS.1>20201222163655</TS.1>
        </OBX.14>
    </OBX>
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        <OBX.3>
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            <CE.2>Previous Attendance at Specialist Clinic</CE.2>
            <CE.3>L</CE.3>
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            <CE.5 />
            <CE.6 />
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        <OBX.4 />
        <OBX.5>Yes</OBX.5>
        <OBX.11>F</OBX.11>
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        </OBX.14>
    </OBX>
    <NTE />
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        <OBX.1>14</OBX.1>
        <OBX.2>FT</OBX.2>
        <OBX.3>

```

```

    <CE.1>X007407</CE.1>
    <CE.2>Previous Attendance Detail</CE.2>
    <CE.3>L</CE.3>
    <CE.4 />
    <CE.5 />
    <CE.6 />
  </OBX.3>
  <OBX.4 />
  <OBX.5>Hospital: Galway, Date: 10 Oct 2020, Result: Normal</OBX.5>
  <OBX.11>F</OBX.11>
  <OBX.14>
    <TS.1>20201010</TS.1>
  </OBX.14>
</OBX>
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      <CE.1>X007408</CE.1>
      <CE.2>Previous Breast Disease</CE.2>
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      <CE.5 />
      <CE.6 />
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    <OBX.4 />
    <OBX.5>Yes</OBX.5>
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    <OBX.14>
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    </OBX.14>
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    <OBX.3>
      <CE.1>X007409</CE.1>
      <CE.2>Previous Breast Disease Detail</CE.2>
      <CE.3>L</CE.3>
      <CE.4 />
      <CE.5 />
      <CE.6 />
    </OBX.3>
    <OBX.4 />
    <OBX.5>Hospital: Limerick, Date: 20 Oct 2020, Result: Abnormal,
Details: pain reported</OBX.5>
    <OBX.11>F</OBX.11>
    <OBX.14>
      <TS.1>20201020</TS.1>
    </OBX.14>
  </OBX>
  <NTE />
</REF_I12.RESULTS_NOTES>
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  <OBX>

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```

<OBX.1>17</OBX.1>
<OBX.2>FT</OBX.2>
<OBX.3>
  <CE.1>X007410</CE.1>
  <CE.2>Previous Mammogram</CE.2>
  <CE.3>LN</CE.3>
  <CE.4 />
  <CE.5 />
  <CE.6 />
</OBX.3>
<OBX.4 />
<OBX.5>Yes</OBX.5>
<OBX.11>F</OBX.11>
<OBX.14>
  <TS.1>20201030</TS.1>
</OBX.14>
</OBX>
<NTE />
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  <OBX>
    <OBX.1>18</OBX.1>
    <OBX.2>FT</OBX.2>
    <OBX.3>
      <CE.1>X007411</CE.1>
      <CE.2>Previous Mammogram Location Detail</CE.2>
      <CE.3>L</CE.3>
      <CE.4 />
      <CE.5 />
      <CE.6 />
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    <OBX.4 />
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    <OBX.14>
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    <OBX.3>
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      <CE.2>Previous Mammogram Date</CE.2>
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6. Code Tables

<MSH.3> Sending Application

The format is the name of the GP practice software system, Healthlink, Healthlink Message Type ID. In this case for instance: COMPLETEGP.HEALTHLINK.74

GP Practice Software System	Code
CompleteGP	COMPLETEGP
Health One	HEALTHONE
Helix Practice Manager	HELIXPM
Socrates	SOCRATES
MedTech32	MEDTECH
Cellma	CELLMA
Diamond	DIAMOND
ICDS	ICDS

Table 5 Code Table for Practice Software Systems

Healthlink Message Type Table

Healthlink Message Type	Message Type ID
Acknowledgement	13
Neurology Referral	14
Neurology Referral Response	15
Oesophageal & Gastric Cancer Referral	18
Prostate Cancer Referral	20
Prostate Cancer Referral Response	21
Breast Cancer Referral	22
Breast Cancer Referral Response	23
Lung Cancer Referral	24
Lung Cancer Referral Response	25
Chest Pain Referral	26
Chest Pain Referral Response	27
General Referral	30
General Referral Response	31
Pigmented Lesion Referral	32
Pigmented Lesion Referral Response	33
Mental Health Referral	36
Mental Health Referral Response	37
Ophthalmology Referral	38
Ophthalmology Referral Response	39
Colposcopy Referral	44
Colposcopy Referral Response	45
Endoscopy Referral	46
Endoscopy Referral Response	47
Memory Clinic Referral	66
Memory Clinic Referral Response	67
Palliative Care Referral	68

Palliative Care Referral Response	69
Covid-19 Testing Referral	72
Covid-19 Testing Referral Response	73
Breast Clinic Referral	74
Breast Clinic Referral Response	75

Table 6 Code table for Message Type IDs