

HCN Technical Support KBA:
Medical Director and HL7 Results

This article applies to Product(s):

- *Medical Director 2.x, 3.x*

Summary:

This document describes how Medical Director processes pathology results sent in HL7 format, specifically those results containing LOINC Codes or any of the Test Names listed in the table following.

This information relates *only* to results in HL7 format that *include* an appropriate OBX segment.

Information:

For results received that contain a LOINC code *or* any of the test names listed in the table below, after the results have been actioned from within the Holding File, and the Holding File closed, a value is added to the patient's file.

NOTE: Spaces and other characters such as commas and colons are removed from the test name *before* it is checked.

Value Added	Loinc Code	Test Name
BSL	14749-6	BSL GLUCOSE SEGLUCOSE SGLUCOSE
BSLF	14768-6 14771-0	BSLF
CHOL	14647-2	CHOLESTEROL SECHOLESTEROL SCHOLESTEROL TOTCHOLESTEROL TOTALCHOLESTEROL CHOLESTEROLTOTAL
CREATININE	14682-9	CREATININE SCREATININE SECREATININE
HBA1C	17856-6 4548-4	HBA1C GLYCOSYLATEDHB GLYCATEDHB HAEMOGLOBINA1C HBA HBA(HPLC) HBA1CFRACTION
HDL	14646-4	HDL HDLCHOLESTEROL CHOLESTEROLHDL HDL(PROTECTIVE)

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INR	6301-6	INR INTERNATIONALNORMALISED RATIO PROTHROMBIN RATIO(INR)
LDL	22748-8	LDL LDLCHOLESTEROL CHOLESTEROL LDL LDL(ATHEROGENIC)
MALB	14957-5 14956-7 1754-1	MALB
PT	5902-2	PT PROTHROMBINTIME
TRIG	14927-8 30524-3	TG TRIG TRIGLYCERIDES SETRIGLYCERIDES STRIGLYCERIDES TRIGLYCTOT

Diabetic Notes.

- Diabetic results (eg CREATININE, HbA1c, HDL, TRIG) will be automatically transferred into the Diabetes Record inside the patient's file. In doing so, the information will also be displayed within the Diabetes Register (available via the Search menu) if the patient is flagged as having a diabetic condition.
- The BSL value is for non-fasting or random glucose and is not picked up in the patient's Diabetes Record although it is plotted on the patient's Blood Glucose Graph.
- Other fields in the Diabetes Register, including Fasting Blood Glucose, Protein, Glycosuria, Haematuria, Ketones & Leucocytes are not automatically transferred into the patient's diabetes record when a result is checked off.
- Fasting Blood Glucose results do not automatically populate the Blood Glucose Graph even though they display after being entered through the Add Values Button of the Diabetes Record.

INR Notes.

- INR results (eg INR, PT) will be automatically transferred into the INR module inside the patient's file.

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Medical Director Cumulative Pathology Results

Medical Director accommodates cumulative results, which if the following rules are adhered to, can be viewed within the Results tab of the patient file.

- Only results received in HL7 format *and* which include an appropriate OBX segment will be included in the cumulative results display.
- Only results in numeric format will be stored. OBX 2 must contain NM, as shown in the following example.
- Medical Director reads the first and third components of the OBX 3 element to determine which tests to group together:

OBX|1|NM|code^testname^coding system|...

For example:

OBX|1|NM|1751-1^Albumen^LN|...(LN signifies a LOINC code).

- The second component of the OBX 3 element is displayed as the Test Name on the Cumulative Results display.
- Where different providers use different coding system numbers there will be multiple entries in the Cumulative Results table.

For example:

OBX|1|NM|1751-1^Albumen^LN|...will not be grouped with:

OBX|1|NM|1234^Albumen^XY|...even though the Cumulative Results table will display both as "Albumen".

- Similarly, if different providers use the same coding system number to represent different tests, these will be grouped.

For example, if a result arrives with:

OBX|1|NM|1751-1^Albumen^LN|...and then later a second result arrives with:

OBX|1|NM|1751-1^Platelets^LN|...then these results will be grouped together in the Cumulative Results Table, and the Test Name displayed will be the name of the first result received, i.e. "Albumen".

- The cumulative results are displayed in order of date of receipt.