



RCPAQAP Tools and Resources for standardising HL7 v2 Pathology messages

Brief Overview and Status Update

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RCPAQAP Tools and Services

The Royal College of Pathologists of Australasia Quality Assurance Programs (RCPAQAP) fully supports the Australian Pathology and allied industries in their endeavours to improve quality of care through the use of standards-conformant HL7 v2 Pathology Orders and Results messages for the communication of pathology testing requests and pathology test results between laboratories and points of care.

The RCPAQAP HL7 v2 pathology messages standards conformance validation, RCPA SPIA coding performance reporting, and [NPAAC RICR5](#) conformant order and results message generation tools are provided by RCPAQAP to assist Pathology Laboratories, Clinical Practices, Secure Messaging Providers and other interested parties, in progressing towards conformance with standards and compliance with regulatory and accreditation requirements.

<https://messagetools.rcpaqap.com.au/>

RCPAQAP Tools and Services

RCPAQAP public access resources, tools and services

■ RCPA SPIA Lookup Tools and Resource

- Downloadable RCPA SPIA for Requesting archive containing computer-processable data sets
- Downloadable RCPA SPIA for Reporting archive containing computer-processable data sets
- Context and References to RCPA SPIA, ADRM 2021.1 and NPAAC RICR5 standards and guidelines
- RCPA SPIA-defined Requesting Codes, RCPA Terms and other data Lookup Web Application
- RCPA SPIA-defined Reporting Codes, RCPA Terms and other data Lookup Tool Web Application

■ Message Conformance Validation Tools

- RCPA SPIA Coding Performance Reporter Web Application which produces a conformance report
- RCPAQAP Validator Web Application and Service which produces a validation report
- *Australian Healthcare Identifier generation and validation tools (By Russell Alexander McDonell)*

■ Conformant Message Generation Tools

- NPAAC RICR5 Conformant HL7 v2 Order Message Generator Web Application
- NPAAC RICR5 Conformant Results Message Generator Web Application 



Integrating
the Healthcare
Enterprise

Updated or New Tools and Services

- As at 27 June 2026 using June 2026 release of RCPA SPIA Resources in all tools
- **RCPAQAP Message Tools Landing Page** – Updated 
 - **SPIA Requesting archive** – computer-processable RCPA SPIA for Requesting – Updated
 - **SPIA for Reporting archive** – computer-processable RCPA SPIA for Reporting – Updated
 - **Context and References** - regulations, standards, guidelines and other references – NEW
- **Tools**
 - **RCPA SPIA-defined Requesting Codes Lookup Tool** – Updated
 - **RCPA SPIA-defined Reporting Code Lookup Tool** – NEW
 - **RCPA SPIA Coding Performance Reporter** – Updated
 - **RCPAQAP Validator** – available to the public since late 2025
 - **Australian Healthcare Identifier generation and validation** – NEW
 - **NPAAC RICR5 Conformant HL7 v2 Order Message Generator** – Updated
 - **NPAAC RICR5 Conformant Results Message Generator** - NEW 



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The RCPAQAP HL7 v2 pathology messages standards conformance validation, RCPA SPIA coding performance reporting, [NPAAC RICR5](#) conformant order and results message generation tools are provided by RCPAQAP to assist Pathology Laboratories, Clinical Practices, Secure Messaging Providers and other interested parties in progressing towards conformance and compliance with regulatory and accreditation requirements.

The tools and materials are provided free of charge on an "as is" basis, with no warranties of any kind.

► Expand to see what's new...

RCPA SPIA Lookup Tools and Resources

Message Conformance Validation Tools

Conformant Message Generation Tools

RCPA SPIA Lookup Tools and Resources

The **RCPA SPIA Computer-processable Resources** is a collection of two ZIP archives which contains the computer-processable versions of the RCPA SPIA resources that can be downloaded from the NCTS Web site (with perhaps some delay before the version provided here is available) [RCPA SPIA Resources](#) as "RCPA - Pathology Terminology and Information Models and draft FHIR reference set".

SPIA Requesting archive

SPIA Reporting archive

Context and References

► Content of the archives

The **RCPA SPIA-defined Requesting Codes Lookup Tool** allows the user to select an Orderable Test from the RCPA SPIA-defined collection, optionally filter the list by Discipline and by a test name-based filter expression, and view the Discipline, the Requesting Code, the RCPA Preferred Term, the list of RCPA Synonyms and the list of Specimen codes for the selected Orderable Test.

Requesting Codes Lookup App

Application User Guide

The **RCPA SPIA-defined Reporting Code Lookup Tool** allows the user to select a Reportable Test from the RCPA SPIA-defined collections, optionally filtering the list by LOINC or SNOMED Code, Discipline and several attribute filter expressions, and view the Discipline, the Reporting Code, the RCPA Preferred Term, the list of RCPA Synonyms and other relevant attributes.

Reporting Codes Lookup App

Application User Guide

Message Conformance Validation Tools



The **RCPA SPIA Coding Performance Reporter** accepts HL7 v2 Orders or Results messages, validates them for conformance with the expectations of the RCPA SPIA Guidelines for e-Requesting or Reporting and provides the validation report for on-line viewing and for download for off-line viewing.

[SPIA Coding Report App](#)[Application User Guide](#)

The **RCPAQAP Validator** accepts a HL7 v2 Orders or Results message, validates it for conformance with the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and NPAAC RCCR5 Conformance Profiles, and provides the validation report for on-line viewing and for download for off-line viewing.

[RCPAQAP Validator App](#)[Application User Guide](#)

The collection of **Australian Healthcare Identifier generation and validation tools**, developed by Mr. Russell McDonell and hosted at the IHE Australia site, can be used to generate and validate Australian Healthcare Identifiers including patient identifiers (Medicare Numbers, DVA Numbers and IHIs), provider/prescriber identifiers (Medicare Provider Numbers, Medicare PBS Prescriber number, Provider AHPRA Registration Numbers and HPI-I Numbers) and organisation identifiers (Hospital PBS Provider Numbers and HPI-O Numbers).

[Healthcare Identifiers Tools](#)

Conformant Message Generation Tools



The **NPAAC RICR5 Standards-conformant HL7 v2 Order Message Generator** allows the user to select one or more Orderable Tests from the RCPA SPIA-defined collection, optionally choose from the list of synonym Terms and synonym Specimen names, and generate a HL7 v2 Order message that conforms to the expectations of the [ADRM 2021.1](#), [RCPA SPIA Guidelines](#) and [NPAAC RICR5](#) Conformance Profiles, and provides the generated HL7 v2 Order message for on-line viewing and for download for off-line use.

[SPIA Orders Generator App](#)[Application User Guide](#)

The **NPAAC RICR5 Conformant Results Message Generator** allows the user to select one or more Orderable Tests from the RCPA SPIA-defined Requesting Terminology Set, for each choose one or more reportable tests from the RCPA SPIA-defined Reporting Terminology Sets, then generate a HL7 v2 Results message that conforms to the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and the NPAAC RCCR5 Conformance Profiles, the Pathology Report which conforms to the requirements of the RCPA SPIA Report Rendering Design Checklist - Comprehensive, and provides the generated HL7 v2 Results message and the PDF Report for on-line viewing and for download for off-line use . An archive containing an example HL7 v2 results message, the corresponding pathology report and the corresponding validation report is also provided for review.

[SPIA Results Generator App](#)[Application User Guide](#)



RCPA SPIA Lookup Tools and Resources

RCPA SPIA Lookup Tools and Resources

- **SPIA Requesting archive**

- ZIP archive containing computer-processable versions of the RCPA SPIA for Requesting resources including the FHIR ValueSet

- **SPIA Reporting archive**

- ZIP archive containing computer-processable versions of the RCPA SPIA for Reporting resources

Official archive containing original RCPA SPIA Terminology Reference Sets and Information Models can be found on the National Clinical Terminology web site and require sign in credentials that can be obtained by registration



- **Context and References** (available since mid 2026)

- Introduction to history, regulations, standards, guidelines and organisations
- References to most recent releases of the sources used by RCPAQAP tools





RCPA SPIA Lookup Tools and Resources

- **RCPA SPIA-defined Requesting Codes Lookup Tool** 
 - Allows the user to select an Orderable Test from the RCPA SPIA-defined collection, optionally filter the list by Discipline and by a test name-based filter expression, and view the Discipline, the Requesting Code, the RCPA Preferred Term, the list of RCPA Synonyms and the list of Specimen codes for the selected Orderable Test
- **RCPA SPIA-defined Reporting Code Lookup Tool**  (available since mid 2025)
 - Allows the user to select a Reportable Test from the RCPA SPIA-defined collections, optionally filtering the list by LOINC or SNOMED Code, Discipline and several attribute filter expressions, and view the Discipline, the Reporting Code, the RCPA Preferred Term, the list of RCPA Synonyms and other relevant attributes

RCPA SPIA Lookup Tools and Resources



The **RCPA SPIA Computer-processable Resources** is a collection of two ZIP archives which contains the computer-processable versions of the RCPA SPIA resources that can be downloaded from the NCTS Web site (with perhaps some delay before the version provided here is available) [RCPA SPIA Resources](#) as "RCPA - Pathology Terminology and Information Models and draft FHIR reference set".

[SPIA Requesting archive](#)[SPIA Reporting archive](#)[Context and References](#)

► Content of the archives

The **RCPA SPIA-defined Requesting Codes Lookup Tool** allows the user to select an Orderable Test from the RCPA SPIA-defined collection, optionally filter the list by Discipline and by a test name-based filter expression, and view the Discipline, the Requesting Code, the RCPA Preferred Term, the list of RCPA Synonyms and the list of Specimen codes for the selected Orderable Test.

[Requesting Codes Lookup App](#)[Application User Guide](#)

The **RCPA SPIA-defined Reporting Code Lookup Tool** allows the user to select a Reportable Test from the RCPA SPIA-defined collections, optionally filtering the list by LOINC or SNOMED Code, Discipline and several attribute filter expressions, and view the Discipline, the Reporting Code, the RCPA Preferred Term, the list of RCPA Synonyms and other relevant attributes.

[Reporting Codes Lookup App](#)[Application User Guide](#)

The **RCPA SPIA Computer-processable Resources** is a collection of two ZIP archives which contains the computer-processable versions of the RCPA SPIA resources that can be downloaded from the NCTS Web site (with perhaps some delay before the version provided here is available) [RCPA SPIA Resources](#) as "RCPA - Pathology Terminology and Information Models and draft FHIR reference set".

[SPIA Requesting archive](#)[SPIA Reporting archive](#)[Context and References](#)

▼ Content of the archives

RCPA SPIA Requesting

- FHIRValueSet-Requesting_from_RCPAQAP_2026-06-15.json
- FHIRValueSet-Requesting_from_RCPAQAP_2026-06-15_validationReport.html
- RCPA_SPIA_Requesting_Jun_2026.json
- RCPA_SPIA_Requesting_Jun_2026.tsv
- reqJsonDataPrepRunDetails.json
- Top_50_tests_SPIA_Imp_May_2026.json
- Top_50_tests_SPIA_Imp_May_2026.tsv

RCPA SPIA Reporting

- parsed_excel_output_Chem_Path_Reporting_Jun_2026.json
- parsed_excel_output_Chem_Path_Reporting_Jun_2026.tsv
- parsed_excel_output_Haem_TM_Reporting_Jun_2026.json
- parsed_excel_output_Haem_TM_Reporting_Jun_2026.tsv
- parsed_excel_output_Immuno_Reporting_Dec_2025.json
- parsed_excel_output_Immuno_Reporting_Dec_2025.tsv
- parsed_excel_output_Micro_Organisms_May_2026.json
- parsed_excel_output_Micro_Organisms_May_2026.tsv
- parsed_excel_output_Micro_Sero_Molecular_Dec_2025.json
- parsed_excel_output_Micro_Sero_Molecular_Dec_2025.tsv
- parsed_excel_output_SPIA_Top_50_SCT_LOINC.json
- parsed_excel_output_SPIA_Top_50_SCT_LOINC.tsv
- Preferred_Units_Dec_2025.json
- Preferred_Units_Dec_2025.tsv

Display ☒ Preferred Terms ☐ Synonyms ☒ Top 50 ADHA Priority

[Help](#)
[References](#)

Chemical pathology



glucose



Orderable Tests List

(P) Glucose fasting

(P) Glucose random

Data Source: RCPA SPIA Requesting Pathology RS_Jun 2026.xlsx

Sheet Name: RCPA SPIA Requesting_Jun 2026

Processed Date: 15/06/2026 09:08:34

RCPA SPIA Orderable Test Details for selected test

Discipline	Chemical pathology
 SNOMED Code	271061004
RCPA Preferred Term	Glucose random
RCPA Synonym List	Glucose rand Random BSL RBS Sugar Random blood glucose RBG
RCPA Specimen List	Serum Plasma
RCPA Usage Guidance	
SNOMED Term	Random blood glucose measurement
In ADHA Top 50 List	Yes
RCPA Version	Fri Feb 06 2026 00:00:00 GMT+1100 (Australian Eastern Daylight Time)
RCPA History	Feb 2026 - Added Synonyms to align SPIA Requesting & Reporting terms 1.0 - Added by PUTS



☒ Preferred Terms ☐ Synonyms ☒ In ADHA Top 50 Useable

Clear Filters

Help

References

Chemical Pathology

All values of Subgroup_1 (no filter)

All values of Subgroup_2 (no filter)

All values of Component (no filter)

All values of Property (no filter)

RCPA SPIA Reportable Tests

(P) ACTH
(P) ACTH
(P) Alanine aminotransferase
(P) Alanine aminotransferase
(P) Albumin by BCG
(P) Albumin by BCP
(P) Albumin by EP
(P) Alkaline phosphatase
(P) Anion gap 3
(P) Anion gap 3 blood
(P) Anion gap 4
(P) Anion gap 4 blood
(P) Anion gap blood
(P) Aspartate aminotransferase
(P) Base excess arterial
(P) Base excess arterial standard
(P) Bicarbonate
(P) Bicarbonate arterial
(P) Bicarbonate arterial standard
(P) Bilirubin

Discipline: Chemical Pathology
Reporting Code: 6768-6
RCPA Preferred Term:
Alkaline phosphatase
LOINC Long Name:
Alkaline phosphatase [Enzymatic activity/volume] in Serum or Plasma
Is in ADHA Top 50 list under SNOMED Code: 26958001
RCPA Preferred Term:
Liver function tests
Click on the name to see details.

All values of Timing (no filter)

All values of System (no filter)

All values of Scale (no filter)

All values of Method (no filter)

Enter Reporting Code (LOINC or SNOMED), test name or synonym if checked.

RCPA SPIA Reportable Test Details for the selected test

Discipline	Chemical Pathology
Reporting Code	1920-8
Long Name	Aspartate aminotransferase [Enzymatic activity/volume] in Serum or Plasma
RCPA Preferred Term	Aspartate aminotransferase
RCPA Synonym List	AST SGOT Aspartate transaminase Glutamic oxaloacetic transaminase
RCPA Preferred UoM	U/L
UCUM UoM	[IU]/L
Reference Range	RCPA SPIA Reference Intervals Information
Specimen List	Serum Plasma
Subgroup 1	
Subgroup 2	
Component Name	Aspartate aminotransferase
Property	CCnc
Timing	Pt
System	Ser/Plas
Scale	On



Message Conformance Validation Tools

Message Conformance Validation Tools

- **RCPA SPIA Coding Performance Reporter** 
 - Accepts HL7 v2 Orders or Results messages, validates them for conformance with the expectations of the RCPA SPIA Guidelines for e-Requesting or Reporting and provides the validation report for on-line viewing and for download for off-line viewing
- **RCPAQAP Validator** (*available to the public since late 2025*) 
 - Accepts a HL7 v2 Orders or Results message, validates it for conformance with the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and NPAAC RICR5 Conformance Profiles, and provides the validation report for on-line viewing and for download for off-line viewing
- **Australian Healthcare Identifier generation and validation** (*available since early 2026*) 
 - Generate and validate Australian Healthcare Identifiers including patient identifiers (Medicare Numbers, DVA Numbers and IHIs), provider/prescriber identifiers (Medicare Provider Numbers, Medicare PBS Prescriber number, Provider AHPRA Registration Numbers and HPI-I Numbers) and organisation identifiers (Hospital PBS Provider Numbers and HPI-O Numbers) (*developed by Russell McDonnell, hosted by IHE Australia*) 

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[Healthcare Identifiers Tools](#)

This application, once loaded from the server, operates entirely within your web browser and does not send any data anywhere. However, please note that, through the abundance of caution, we do not recommend using this application to analyse message with personally-identifiable information:

You should not use this application to analyse message with personally-identifiable information.

This application analyses HL7 v2 Orders (ORM^O01) or Results (ORU^R01) messages, provided by the User, for conformance with the expectations of the RCPA with regard to coding Universal Service identifiers, Observation Identifiers, Units of Measure and other aspects of messages when compared to data for SNOMED-CT and LOINC codes included in the RCPA SPIA Terminology Sets and related materials. It also flags these orderable or reportable tests that are included in the ADHA Top 50 Priority Orderable tests. [i](#)

Select one or more HL7 message files containing ☒ **Orders** OR ☐ **Results** [Choose more HL7 files](#)

☐ Case-sensitive Terms match? ☒ Include info comments?

[Clear File List](#)
[Analyse](#)
[View Report](#)
[Download Report](#)

Selected 2 Files

File Name	Status	Msg Type	HL7 Vers	
01_orm001_01_Lw_short_TTTTTTTTTT_with_qap_data.hl7	Can process	ORM^O01	2.4	
13.3 ORM.hl7	Can process	ORM^O01	2.4	

References

- Orders (ORM^O01)
 - [Royal College of Pathologists of Australasia Standardised Pathology Informatics in Australia \(SPIA\), Guidelines v4.1](#), Section 5. Requesting terminology and codes
 - [SPIA Terminology Reference Sets and Information Models](#)
 - Relevant Requesting Pathology SPIA resources:
 - The zip archive containing the terminology set for e-Requesting can be downloaded from the National Clinical Terminologies Server (NCTS) RCPA Resources [Access Clinical terminologies → RCPA Resources](#) - The NCTS source may or may not have been updated since the application was released.
 - The RCPA SPIA Requesting data set in which the data used by the validation service originates:

Processed Date	Source	Sheet
15/06/2026 09:08:34	C:\RCPASPIAResources\20260615\erequesting\RCPA SPIA Requesting Pathology RS_Jun 2026.xlsx	RCPA SPIA Requesting_Jun 2026

RCPA SPIA Coding Performance Report

Prepared: Saturday, 27 June 2026 at 2:10 pm

This report summarises the outcomes of analyses of HL7 v2 Orders (ORM^O01) or Results (ORU^R01) messages, provided by the User, for conformance with the expectations of the RCPA with regard to coding Universal Service identifiers, Observation Identifiers, Units of Measure and other aspects of messages when compared to data for the SNOMED-CT and LOINC codes included in the RCPA SPIA Terminology Sets and related materials.

See [Notes](#) section for notes on interpretation of the report table. See [References](#) section for links to RCPA SPIA materials.

Processed 2 files.

File Name	Applicable Results Segments
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7	5
13.3 ORM.hl7	4

Validation Report

File Name	OBX Type	SPIA SNOMED-CT Code	SPIA SONMED-CT RCPA Preferred Term	Identified as SCT	SNOMED In ADHA Top 50	SPIA Specimen Source	Comment
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7		Yes (250637003)	Yes (Alanine aminotransferase)	Yes (SCT)	No	No^ (SERUM)	OBR Comments * SNOMED-CT Code [250637003] is not a member of the "ADHA Top 50 Orderable Tests for Pathology" data set. ^ Specimen source for the SNOMED-CT Code "250637003" is expected by the RCPA SPIA to be "Blood" but the sub-component OBR.15.1.1 is populated with the value "SERUM".
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7		Yes (104485008)	Yes (Albumin)	Yes (SCT)	No	Yes (SERUM)	OBR Comments * SNOMED-CT Code [104485008] is not a member of the "ADHA Top 50 Orderable Tests for Pathology" data set.
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7		Yes (271234008)	Yes (Alkaline phosphatase)	Yes (SCT)	No	Yes (SERUM)	OBR Comments * SNOMED-CT Code [271234008] is not a member of the "ADHA Top 50 Orderable Tests for Pathology" data set.
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7		Yes (89659001)	Yes (Amylase)	Yes (SCT)	No	Yes (SERUM)	OBR Comments * SNOMED-CT Code [89659001] is not a member of the "ADHA Top 50 Orderable Tests for Pathology" data set.
01_ormO01_01_LW_short_TTTTTTTTTT_with_qap_data.hl7		Yes (250641004)	No (Aspartate aminotransaminase)	Yes (SCT)	No	Yes (SERUM)	OBR Comments * SNOMED-CT Code [250641004] is not a member of the "ADHA Top 50 Orderable Tests for Pathology" data set. OBR.4.2 Text is expected to be the RCPA Preferred Term [Aspartate aminotransferase] but is [Aspartate aminotransaminase].
13.3 ORM.hl7		Yes (444164000)	Yes (Electrolytes Urea Creatinine)	Yes (SCT)	Yes	Yes (Serum)	OBR Comments * SNOMED-CT Code [444164000] is a member of the the "ADHA Top 50 Orderable Tests for Pathology" data set..
13.3 ORM.hl7		Yes (26958001)	Yes (Liver function tests)	Yes (SCT)	Yes	Yes (Serum)	OBR Comments * SNOMED-CT Code [26958001] is a member of the the "ADHA Top 50 Orderable Tests for Pathology" data set..
13.3 ORM.hl7		Yes (271062006)	Yes (Glucose fasting)	Yes (SCT)	Yes	Yes (Serum)	OBR Comments * SNOMED-CT Code [271062006] is a member of the the "ADHA Top 50 Orderable Tests for Pathology" data set..
13.3 ORM.hl7		Yes (26604007)	Yes (Full blood count)	Yes (SCT)	Yes	Yes (Blood)	OBR Comments * SNOMED-CT Code [26604007] is a member of the the "ADHA Top 50 Orderable Tests for Pathology" data set..

Notes

Minimum Required Segments and Fields

This application allows a HL7 v2 Pathology message, orders or results, to be validated for conformance with one or more of the implemented conformance profiles. The implemented conformance profiles are NPAAC RICR5, ADRM 2021.1, RCPA SPIA Guidelines and RCPAQAP Rules for electronic submission of EQA Results. Which conformance profiles will be available for use and can be used in validation depends on the message type and options selection. See "Help" and "User Guide" for information on how to use this service.

Please note that while the operation of this application requires that the HL7 v2 messages you provide are sent to the backend server for analysis, they are not retained there. As the messages pass through various components of the infrastructure to reach the validation server and the results are returned to your browser for display, the messages are not retained in any of the components in the path. **We very strongly advise against validating HL7 v2 messages that contain Personally Identifiable Information using this service.**

Do not use this service to validate HL7 v2 messages containing Personally Identifiable Information.

Choose file

11_oruR01_06+_msh6_2_missing.hl7

Results

Clear Checked

☒ ADRM

☒ RCPA SPIA

☒ SPIA UoM

☒ SPIA Ref Int

☒ QAP EQA

☐ EQA UoM

☐ EQA UCUM

Set by user

Load Message

Validate Message

View Report

Download Report

References

Help

User Guide

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MSH|^~\&||^|RCPAQAP^AUSNATA|20230807052705+1000||ORU^R01^ORU_R01|LABG_20230807.2|P|2.4^AUS&Australia&ISO3166_1^HL7AU-OO-201701&&L|||AL|
PID|1||317009^RCPAQAP^QA||CP-GC-22-03^QAP-11292||19780808|M||Suite 201, Level 2, 8 Herbert Street^St.Leonards^Sydney^NSW^2065^Australia
PV1|1|U
ORC|RE|317009^RCPAQAP^14863^AUSNATA
OBR|1|317009^RCPAQAP^14863^AUSNATA|12345678-13^Performing Laboratory^0000^AUSNATA|250637003^Alanine aminotransferase^SCT|||||CP/11292
OBX|1|NM|1743-4^Alanine aminotransferase^LN||58|U/L^U/L^UCUM|0-35||||F||||40025064^Performing^Person^^^^^AUSHICPR^L^^^QA|MTH^Abbott Alin
OBX|2|FT|TXT^Display Format in TEXT^AUSPDI||Empty comment - required by ADRM-2021.1 but ignored for QAP purposes|||||F
ORC|RE|317009^RCPAQAP^14863^AUSNATA
OBR|2|317009^RCPAQAP^14863^AUSNATA|12345678-13^Performing Laboratory^0000^AUSNATA|104485008^Albumin^SCT|||||CP/11292 CP-GC-22-03||SERU
OBX|1|NM|61151-7^Albumin^LN||4|g/L^g/L^UCUM|3.5-5.0||||F||||40025064^Performing^Person^^^^^AUSHICPR^L^^^QA|MTH^Abbott Alinity c / IFCC m
OBX|2|FT|TXT^Display Format in TEXT^AUSPDI||Empty comment - required by ADRM-2021.1 but ignored for QAP purposes|||||F
ORC|RE|317009^RCPAQAP^14863^AUSNATA
OBR|3|317009^RCPAQAP^14863^AUSNATA|12345678-13^Performing Laboratory^0000^AUSNATA|271234008^Alkaline phosphatase^SCT|||||CP/11292 CP-G
OBX|1|NM|6768-6^Alkaline phosphatase^LN||50|U/L^U/L^UCUM|30-110||||F||||40025064^Performing^Person^^^^^AUSHICPR^L^^^QA|MTH^Abbott Alinit
OBX|2|FT|TXT^Display Format in TEXT^AUSPDI||Empty comment - required by ADRM-2021.1 but ignored for QAP purposes|||||F
```

Message validation was performed on 2026-06-27, at 15:13:06

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 \(ADRM-2021.1\)](#) Standard.
The HL7 Message **does NOT conform** to the requirements of the ADRM-2021.1 Standard.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Royal College of Pathologists of Australasia RCPA Standardised Pathology Informatics in Australia \(SPIA\), Guidelines v4.1](#) for e-Requesting.
The HL7 Message **does NOT conform** to the requirements of the RCPA SPIA Guidelines v4.1.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Royal College of Pathologists of Australasia RCPA Standardised Pathology Informatics in Australia \(SPIA\), Guidelines v4.1](#) for Reporting.
The HL7 Message **does NOT conform** to the requirements of the RCPA SPIA Guidelines v4.1.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [National Pathology Accreditation Advisory Council \(NPAAC\) - Requirements for information communication and reporting \(Fifth Edition\) \(NPAAC RICR5\)](#).
The HL7 Message **does NOT conform** to the requirements of the NPAAC RICR5.

The message was checked for conformance with the minimum requirements for electronic provision of test results for the relevant RCPAQAP EQA Programme.
This message **does NOT** contain minimum information required for processing EQA results and **can NOT be accepted for processing as a QC results message for EQA programmes**.

Contents

[Message Identification Details](#)

[Message Validation Results](#)

[HL7 Message](#)

[References](#)

Message Identification Details

- Sending Facility: unknown
- Message Control Id: LABG_20230807.2
- Date/Time of Message: 20230807052705+1000
- HL7 Message Source: HL7 message body from Web Service Request
- Message Type: **Results Message**
- Conformance Profile Id: "TFTFTTTTFF" / "TFTFTTTTFF"

Message Validation Results

This message **Does NOT** conform to the expectations of the [ADRM 2021.1](#)  Standard.

This message **Does NOT** conform to the expectations of the [RCPA SPIA](#)  Guidelines v4.1 for e-Requesting.

This message **Does NOT** conform to the expectations of the [RCPA SPIA](#)  Guidelines v4.1 for Reporting.

This message **Does NOT** conform to the expectations of the [NPAAC RICR5](#)  Requirements.

This message **Does NOT** conform to the requirements for selected RCPAQAP EQA Programs-supported HL7 messages.

Summary of Diagnostic Messages by Severity			
Info	Errors	Other	Total
26	5	0	31

Summary of Diagnostic Messages by Conformance Profile				
CONFORMANCE PROFILE	ERROR	INFO	OTHER	TOTAL
ADRM 2021.1	16	1	0	17
RCPA SPIA	5	1	0	6
NPAAC RICR5	0	4	0	4
RCPAQAP EQA	5	0	0	5
OTHER	0	0	0	0
TOTAL				32

The table below describes issues identified in the message.

Entry Id	Element Type	Position	Message Line No	Validation Diagnostics
0	Segment	MSH	1	ERROR MSH.4.2 is not populated - cannot identify message receipient, determine whether the receipient ID is an SMD ID and if so whether it has valid format - see ADRM2021.1 for expected structure Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.2.2 (r2) Conformance Point Text: When using SMD with NASH certificates the HD Universal ID component must contain the HPI-O formatted as "1.2.36.1.2001.1003.0." concatenated with the HPI-O.
1	Segment	MSH	1	ERROR MSH.6.2 is not populated - cannot identify message receipient, determine whether the receipient ID is an SMD ID and if so whether it has valid format - see ADRM2021.1 for expected structure Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.2.2 (r2) Conformance Point Text: When using SMD with NASH certificates the HD Universal ID component must contain the HPI-O formatted as "1.2.36.1.2001.1003.0." concatenated with the HPI-O.
2	Field	OBR.16	5	ERROR: OBR.16.9, XCN.9.2 Assigning Authority Universal Id is not populated Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.7.2 Conformance Point Text: XCN component must be valued and valid.
3	Field	OBR.16	5	ERROR: OBR.16.9, XCN.9.3 Assigning Authority Universal Id Type is not populated Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.7.2 Conformance Point Text: XCN component must be valued and valid.
4	Segment	OBX	6	ERROR OBX-6 (Units) OBX[1].6.1 component [U/L] of the primary identifier [1743-4] must be the case sensitive UCUM unit in the set [[IU]/L] from table U002. HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00050.1.1.4 Conformance Point Text: OBX-6 (Units) OBX.6.1 component of the primary must be the case sensitive UCUM code
5	Field	OBX.16	6	ERROR: OBX.16.9, XCN.9.2 Assigning Authority Universal Id is not populated Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.7.2 Conformance Point Text: XCN component must be valued and valid.
6	Field	OBX.16	6	ERROR: OBX.16.9, XCN.9.3 Assigning Authority Universal Id Type is not populated Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.7.2 Conformance Point Text: XCN component must be valued and valid.
7	Field	OBR.16	9	ERROR: OBR.16.9, XCN.9.2 Assigning Authority Universal Id is not populated Failing HL7AUSD-STD-OO-ADRM-2021.1 conformance point HL7au:00044.7.2 Conformance Point Text: XCN component must be valued and valid.



The Healthcare Identifier tools are provided by Mr Russell Alexander McDonell to assist the Healthcare Industry and other interested parties in progressing towards conformance and compliance with regulatory and accreditation requirements.

For a discussion of the underlying standards and structures see [Australian Health Identifiers](#)

The tools and materials are provided free of charge on an "as is" basis, with no warranties of any kind.

What's new:

- New public release of the tools - December 2025

Patient Identifiers

The **Generate** or **Validate** various patient identifiers commonly used in Australian healthcare.

Generate Patient Medicare Card Numbers

Validate Patient Medicare Card Number

Generate Patient DVA Numbers

Validate a Patient DVA Number

Generate Patient IHI Numbers

Validate a Patient IHI Number

Provider/Prescriber Identifiers

The **Generate** or **Validate** various healthcare provider identifiers commonly used in Australian healthcare.

Generate Medicare Provider Numbers

Validate a Medicare Provider Number

Generate Medicare PBS Prescriber Numbers

Validate a Medicare PBS Prescriber Number

Generate Provider AHPRA Registration Numbers

Validate a Provider AHPRA Registration Number

Generate Provider HPI-I Numbers

Validate a Provider HPI-I Number





Conformant Message Generation Tools

Conformant Message Generation Tools

■ NPAAC RICR5 Standards-conformant HL7 v2 Order Message Generator

- Allows the user to select one or more Orderable Tests from the RCPA SPIA-defined collection, optionally choose from the list of synonym Terms and synonym Specimen names, and generate a HL7 v2 Order message that conforms to the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and NPAAC RICR5 Conformance Profiles, and provides the generated HL7 v2 Order message for on-line viewing and for download for off-line use

■ NPAAC RICR5 Conformant Results Message Generator

- Allows the user to select one or more Orderable Tests from the RCPA SPIA-defined Requesting Terminology Set, for each choose one or more reportable tests from the RCPA SPIA-defined Reporting Terminology Sets, then generate a HL7 v2 Results message that conforms to the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and the NPAAC RICR5 Conformance Profiles , and provides the generated HL7 v2 Order message for on-line viewing and for download for off-line use

Conformant Message Generation Tools



The **NPAAC RICR5 Standards-conformant HL7 v2 Order Message Generator** allows the user to select one or more Orderable Tests from the RCPA SPIA-defined collection, optionally choose from the list of synonym Terms and synonym Specimen names, and generate a HL7 v2 Order message that conforms to the expectations of the [ADRM 2021.1](#), [RCPA SPIA Guidelines](#) and [NPAAC RICR5](#) Conformance Profiles, and provides the generated HL7 v2 Order message for on-line viewing and for download for off-line use.

[SPIA Orders Generator App](#)

[Application User Guide](#)

The **NPAAC RICR5 Conformant Results Message Generator** allows the user to select one or more Orderable Tests from the RCPA SPIA-defined Requesting Terminology Set, for each choose one or more reportable tests from the RCPA SPIA-defined Reporting Terminology Sets, then generate a HL7 v2 Results message that conforms to the expectations of the ADRM 2021.1, RCPA SPIA Guidelines and the NPAAC RCCR5 Conformance Profiles, the Pathology Report which conforms to the requirements of the RCPA SPIA Report Rendering Design Checklist - Comprehensive, and provides the generated HL7 v2 Results message and the PDF Report for on-line viewing and for download for off-line use . An archive containing an example HL7 v2 results message, the corresponding pathology report and the corresponding validation report is also provided for review.

[SPIA Results Generator App](#)

[Application User Guide](#)

Copyright © 2023-2026, The Royal College of Pathologists of Australasia Quality Assurance Programs
RCPAQAPHL7PathMsgsToolsHome Version: 1.2.10 Build: 26/06/2026 11:13:44 am

This application allows the user to select one or more orderable tests, from the list of orderable tests defined in the RCPA SPIA eRequesting Terminology Set, and generate both the HL7 v2 Order message and the corresponding Request Form as a PDF document. ⓘ

The generated HL7 v2 message is expected to conform to the expectations of the RCPA SPIA Guidelines for eRequesting, the Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 Standard (ADRM-2021.1) and the National Pathology Accreditation Advisory Council's Requirements for information communication and reporting, (Fifth Edition) (NPAAC RICR5) Standard. **The generated message will not necessarily be a useful message from the perspective of any particular receiving system.** See [References](#) for links to NPAAC RICR5, RCPA SPIA and ADRM 2021.1 Standard materials.

NOTE: The "Orderable Tests" list may contain duplicate RCPA Preferred Terms (P) or duplicate RCPA Synonyms (S) for different SNOMED CT codes. "Tree Pollen Allergen" is a primary example. To see the details of the orderable test, to be able to choose the right test, hover the pointer over the test name in the "Orderable Tests" list. Similarly, hover the pointer over the test name in the "Ordered Tests" list to see details of the "ordered" test.

Chemical pathology

▼

Type to search by test name or SNOMED code

×

Orderable Tests

(P) Calcium Magnesium Phosphate
(S) CMP panel
(S) Ca Mg PO4
(P) Cortisol
(P) C-reactive protein
(S) CRP
(P) Creatine kinase
(S) CK
(S) Creatine phosphokinase

☒ Show only ADHA Top 50 Priority Tests

Message Type: NPAAC, ADRM and SPIA Required Content Only

▼

Ordered Tests

ACTH
Blood gas arterial
Calcium ionised

Clear Ordered Tests

Set Order Options

Generate Message

View Message

Download Message

View Request

Download Request

View the generated HL7 Message in a new browser window / tab.

NPAAC RICR5, ADRM 2021.1 and RCPA SPIA Conformant HL7 v2 Orders Message

Prepared: Sat Jun 27 2026 15:26:39 GMT+1000 (Australian Eastern Standard Time)

The HL7 v2 message presented below is a minimal HL7 v2 Orders message that includes the HL7 Segments and fields essential to convey the order data and metadata that allows the message to conform to the expectations of the NPAAC RICR5, the ADRM 2021.1 Standard and RCPA SPIA Guidelines, with additional data required by the Message Type selected prior to generation of the message if changed from the default.

See [References](#) section for links to NPAAC RICR5, ADRM 2021.1 and RCPA SPIA materials.

```
MSH|^~\&|LabWare|RCPAQAP^14863^AUSNATA|LAB_AUS|LAB_AUS^0000^AUSNATA|20260627152432+1000||ORM^001^ORM_001|1a0df28a-972a-4960-8296-a70d72f6ebe9|P|2.4^AUS&Au
PID|1||1782537872527^^^RCPAQAP^QA~8003601782537877^^^AUSHIC^NI||Lassley^Darlene^Rosemonde||19980121|F|||7 Lot 199 Kuts Avenue^^Newington^NSW^^Australia^B
PV1|1|U
ORC|NW|1782537872528-1^RCPAQAP^14863^AUSNATA||||||||
OBR|1|1782537872528-1^RCPAQAP^14863^AUSNATA|49466006^ACTH^SCT||||||||CP/999999 CP-GC-99-01|20260627152432+1000|Serum&&L|||CP/999999|||||CH
ORC|NW|1782537872528-2^RCPAQAP^14863^AUSNATA||||||||
OBR|2|1782537872528-2^RCPAQAP^14863^AUSNATA|91308007^Blood gas arterial^SCT||||||||CP/999999 CP-GC-99-01|20260627152432+1000|Arterial blood&&L|||CP/9999
ORC|NW|1782537872528-3^RCPAQAP^14863^AUSNATA||||||||
OBR|3|1782537872528-3^RCPAQAP^14863^AUSNATA|391084000^Calcium ionised^SCT||||||||CP/999999 CP-GC-99-01|20260627152432+1000|Serum&&L|||CP/999999|||||CH
```

References

- [National Pathology Accreditation Advisory Council \(NPAAC\) - Requirements for information communication and reporting \(Fifth Edition\) \(NPAAC RICR5\)](#)
- [Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 \(ADRM-2021.1\) Standard.](#)
- [Royal College of Pathologists of Australasia Standardised Pathology Informatics in Australia \(SPIA\). Guidelines v4.1](#), e-Requesting, Section 5 Requesting terminology and codes.
- Relevant Requesting Pathology SPIA resources:
 - The most recent RCPA SPIA Requesting resources can be downloaded, after free registration, from the [RCPA Pathology Terminology and Information Models](#) site.
 - Data from the following documents is used to verify SNOMED Codes, RCPA Preferred Terms, RCPA Synonyms and Specimen Source names provided in the HL7 v2 Orders messages.
 - Processed: 15/06/2026 09:08:34
 - Source: RCPA SPIA Requesting Pathology RS_Jun 2026.xlsx
 - Sheet: RCPA SPIA Requesting_Jun 2026

Message validation was performed on 2026-06-27, at 15:29:04

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 \(ADRM-2021.1\)](#) Standard.
The HL7 Message **conforms** to the requirements of the ADRM-2021.1 Standard.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Royal College of Pathologists of Australasia RCPA Standardised Pathology Informatics in Australia \(SPIA\) Guidelines v4.1](#) for e-Requesting.
The HL7 Message **conforms** to the requirements of the RCPA SPIA Guidelines v4.1.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [National Pathology Accreditation Advisory Council \(NPAAC\) - Requirements for information communication and reporting \(Fifth Edition\) \(NPAAC RICR5\)](#).
The HL7 Message **conforms** to the requirements of the NPAAC RICR5.

Contents

- [Message Identification Details](#)
- [Message Validation Results](#)
- [HL7 Message](#)
- [References](#)

Message Identification Details

- Sending Facility: RCPAQAP - 14863
- Message Control Id: 1a0df28a-972a-4960-8296-a70d72f6ebe9
- Date/Time of Message: 20260627152432+1000
- HL7 Message Source: HL7 message body from Web Service Request
- Message Type: **Orders Message**
- Conformance Profile Id: "TFFFFFFFFF" / "TFFFFFFFFF"

Message Validation Results

This message **conforms** to the expectations of the [ADRM 2021.1](#) Standard.

This message **conforms** to the expectations of the [RCPA SPIA](#) Guidelines v4.1 for e-Requesting.

This message **conforms** to the expectations of the [NPAAC RICR5](#) Requirements.

HL7 Message

Please note that line numbers followed by a colon ":", shown to the left of HL7 Segment identifiers, are not a part of the message and are provided to facilitate correlation of diagnostic messages with the HL7 messages segments to which they refer.

```
1: MSH|^~\&|LabWare|RCPAQAP^14863^AUSNATA|LAB_AUS|LAB_AUS^0000^AUSNATA|20260627152432+1000||ORM^O01^ORM_O01|1a0df28a-972a-4960-8296-a70d72f6ebe9|P|2.4^AU
2: PID|1||1782537872527^^^RCPAQAP^QA~8003601782537877^^^AUSHIC^NI||Lassley^Darlene^Rosemonde||19980121|F|||7 Lot 199 Kuts Avenue^^Newington^NSW^^Australi
3: PV1|1|U
4: ORC|NW|1782537872528-1^RCPAQAP^14863^AUSNATA||||||||
5: OBR|1|1782537872528-1^RCPAQAP^14863^AUSNATA||49466006^ACTH^SCT|||||||CP/999999 CP-GC-99-01|20260627152432+1000|Serum&&L|||CP/999999||||CH
6: ORC|NW|1782537872528-2^RCPAQAP^14863^AUSNATA||||||||
7: OBR|2|1782537872528-2^RCPAQAP^14863^AUSNATA||91308007^Blood gas arterial^SCT|||||||CP/999999 CP-GC-99-01|20260627152432+1000|Arterial blood&&L|||CP/
8: ORC|NW|1782537872528-3^RCPAQAP^14863^AUSNATA||||||||
9: OBR|3|1782537872528-3^RCPAQAP^14863^AUSNATA||391084000^Calcium ionised^SCT|||||||CP/999999 CP-GC-99-01|20260627152432+1000|Serum&&L|||CP/999999||||
```

References

- RCPA and RCPA SPIA References
 - [Pathology Terminology and Information Standardisation Projects](#) - In 2011, [The National Pathology Terminology and Information Standardisation Plan](#) was developed to standardise pathology terminology leading to limited terminology reference sets with guidelines for their use and a standard for units of measure to minimise the risks from variation in practice. Standardised pathology information structures and terminologies allow for improvement in the recording, decision support, communication and analysis of pathology data to enhance overall healthcare for the individual, the population, and the healthcare system for its practitioners and payers. The ability to provide semantic interoperability between computers enables assurance of fidelity of communication while reducing the risks associated with laboratory variation, transcription errors and misinterpretation of data due to ambiguity of terminology.
 - [RCPA PITS FAQs](#)
 - [SPIA Compliance Checklists](#) - The SPIA Compliance Checklists are a summary of the relevant SPIA Guidelines, NPAAC and NATA design elements which, when followed, will ensure the development of RCPA SPIA compliant pathology reports.
 - [RCPA SPIA Report Rendering Design Checklist - Comprehensive](#)
 - [SPIA Exemplar Reports](#) - The SPIA Exemplar Reports have been designed to provide laboratory staff and software vendors with visual representations of SPIA compliant reports for a range of disciplines with respect to report formatting. The inclusion or exclusion of tests, Preferred terms, Reference Intervals, and the order in which the tests appear on each report are not necessarily meant to be indicative of true report content, merely to demonstrate SPIA-compliant formatting. Click here to access the Pilot Exemplar Reports.
 - [Top 50 Priority Tests/Panels for SPIA adoption](#) - The Royal College of Pathologists of Australasia (RCPA) has been contracted by the Australian Digital Health Agency (ADHA) to collate pathology requesting data from a range of sources with the intent to develop a Priority Tests/panels for Standardised Pathology Informatics in Australia (SPIA) adoption which any laboratory can utilise as a

This application allows the user to select one or more orderable tests, from the list of orderable tests defined in the RCPA SPIA eRequesting Terminology Set, then for each orderable test select one or more reportable tests from the list of reportable tests defined in the RCPA SPIA Reporting Terminology Sets (by preference ones that actually relate to the ordered test but this cannot be validated by this application) and generate both the HL7 v2 Results message and the corresponding Report as a PDF document.

The generated HL7 v2 message is expected to conform to the expectations of the RCPA SPIA Guidelines for reporting pathology in Australia, the Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 Standard (ADRM-2021.1) and the National Pathology Accreditation Advisory Council's Requirements for information communication and reporting, (Fifth Edition) (NPAAC RICR5) Standard. **The generated message will not necessarily be a useful message from the perspective of any particular receiving system, or even make clinical sense if the user chooses reportable tests that do not match the ordered tests or are not normally ordered as part of the same order.**

☒ Preferred Terms

☐ Synonyms

☒ Top 50 Priority Tests

Help

SPIA references

Chemical Pathology

Type to search by test name or SNOMED code

Orderable Tests

- (P) C-reactive protein
- (P) Calcium ionised
- (P) Calcium Magnesium Phosphate
- (P) Cortisol
- (P) Digoxin level
- (P) Follicle stimulating hormone
- (P) Free T4
- (P) Glucose fasting
- (P) Glucose random

Sex: Male

DoB: 24/02/1964

Age: 62 Years

New Demographics

Ordered Tests

- ACTH0✔🗑
- Blood gas arterial0✔🗑
- Creatine kinase0✔🗑
- Electrolytes Urea Creatinine0✔🗑

Clear ordered tests

Generate Artefacts

View HL7 message

Save

View HTML report

Save HTML report

Term Type: Preferred Term

In Top 50 Priority Tests: Yes

In PI Pilot Tests: 'No'

Discipline: Chemical Pathology

SNOMED Code: 444164000

RCPA Preferred Term: Electrolytes Urea Creatinine

Effective Term: : Electrolytes Urea Creatinine

RCPA Synonyms:

- Electrolytes Urea Creatinine

- UEC

- UE

- EUC

- EU

- U&Es

Specimen:

- Serum

- Plasma

- Blood

Effective Specimen: : Serum

Click on the test name to edit the ordered test (OBR), including assigning reportable tests (OBX) to the ordered test.

Set order options for test "Electrolytes Urea Creatinine"

If alternatives are available for the ordered test, a list of Terms or Specimen Sources will be provided. By default the RCPA SPIA-defined RCPA Preferred Term will be used in generating the HL7 message unless changed. By default, the first of the available Specimen Sources will be used in generating the HL7 message unless changed. Specimen Source "Any" will be replaced with an empty string.

Discipline	SNOMED Code	RCPA Preferred Term	RCPA Synonyms	Effective Term	Specimen Sources	Effective Specimen	Add Cmt
Chemical Pathology	444164000	Electrolytes Urea Creatinine	Electrolytes Urea Creatinine ▾	Electrolytes Urea Creatinine	Serum ▾	Serum	

☐ Synonyms

Type to search by test name or SNOMED code ✕

Clear All Tests

Previous Order

Next Order

Finish

- Reportable Test
- (P) 1,5-Anhydroglucitol

(P) 11-Deoxycortisol

(P) 11-Deoxycortisol urine

(P) 14-3-3 protein CSF

(P) 17-Hydroxyprogesterone

(P) 3-Hydroxy-3-methylglutarate

(P) 3-Methoxytyramine

(P) 3-Methoxytyramine urine 24h

(P) 3-Methoxytyramine/Creatinin

(P) 3 4-methylenedioxymetham

LOINC Code	Test Name	Result Value	UCUM UoM	RCPA UoM	Ref. Range	Add Cmt
10466-1	Anion gap 3 ▾	1	mmol/L	mmol/L		
95718-3	Anion gap 3 blood ▾	1	mmol/L	mmol/L		
1863-0	Anion gap 4 ▾	1	mmol/L	mmol/L		
73582-9	Anion gap 4 blood ▾	1	mmol/L	mmol/L		
41276-7	Anion gap blood ▾	1	mmol/L	mmol/L		
1963-8	Bicarbonate ▾	27	mmol/L	mmol/L	22-32	
2069-3	Chloride blood ▾	1	mmol/L	mmol/L		
59826-8	Creatinine blood ▾	1	umol/L	umol/L		
2075-0	Chloride ▾	103	mmol/L	mmol/L	95-110	
14682-9	Creatinine ▾	85	umol/L	umol/L	60-110	
62238-1	GFR estimated by	1	mL/min/{1.73_m2}	mL/min/1.73m2		
98979-8	GFR estimated by	1	mL/min/{1.73_m2}	mL/min/1.73m2		
50210-4	GFR estimated by	1	mL/min/{1.73_m2}	mL/min/1.73m2		
77147-7	GFR estimated by	1	mL/min/{1.73_m2}	mL/min/1.73m2		
18182-6	Osmolality	1	mmol/kg	mmol/kg		
2823-3	Potassium ▾	4.3	mmol/L	mmol/L	3.5-5.2	
6298-4	Potassium blood ▾	1	mmol/L	mmol/L		
2947-0	Sodium blood ▾	1	mmol/L	mmol/L		
2951-2	Sodium ▾	140	mmol/L	mmol/L	135-145	
72903-8	Urea blood	1	mmol/L	mmol/L		
22664-7	Urea	1	mmol/L	mmol/L		

This application allows the user to select one or more orderable tests, from the list of orderable tests defined in the RCPA SPIA eRequesting Terminology Set, then for each orderable test select one or more reportable tests from the list of reportable tests defined in the RCPA SPIA Reporting Terminology Sets (by preference ones that actually relate to the ordered test but this cannot be validated by this application) and generate both the HL7 v2 Results message and the corresponding Report as a PDF document.

The generated HL7 v2 message is expected to conform to the expectations of the RCPA SPIA Guidelines for reporting pathology in Australia, the Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 Standard (ADRM-2021.1) and the National Pathology Accreditation Advisory Council's Requirements for information communication and reporting, (Fifth Edition) (NPAAC RICR5) Standard. **The generated message will not necessarily be a useful message from the perspective of any particular receiving system, or even make clinical sense if the user chooses reportable tests that do not match the ordered tests or are not normally ordered as part of the same order.**

☒ Preferred Terms

☐ Synonyms

☒ Top 50 Priority Tests

Help

SPIA references

Chemical Pathology

Type to search by test name or SNOMED code

Sex: Male

DoB: 24/02/1964

Age: 62 Years

New Demographics

Orderable Tests

- (P) C-reactive protein
- (P) Calcium ionised
- (P) Calcium Magnesium Phosphate
- (P) Cortisol
- (P) Digoxin level
- (P) Follicle stimulating hormone
- (P) Free T4
- (P) Glucose fasting
- (P) Glucose random

Ordered Tests

- | | | | |
|------------------------------|----|--|--|
| ACTH | 2 | | |
| Blood gas arterial | 26 | | |
| Creatine kinase | 1 | | |
| Electrolytes Urea Creatinine | 21 | | |

Clear ordered tests

Generate Artefacts

View HL7 message

Save HL7 message

View PDF report

Save PDF report

View HTML report

Save HTML report

Generate the HL7 Results message and the PDF Report.

NPAAC RICR5, ADRM 2021.1 and RCPA SPIA Conformant HL7 v2 Results Message

Prepared: 27 June 2026 at 3:40 pm

The HL7 v2 message presented below is a minimal HL7 v2 Results message that includes the HL7 Segments and fields essential to convey the results data and metadata that allows the message to conform to the expectations of the NPAAC RICR5, the ADRM 2021.1 Standard and RCPA SPIA Guidelines.

See [References](#) section for links to NPAAC RICR5, ADRM 2021.1 and RCPA SPIA materials.

```
MSH|^~\&|LabWare|RCPAQAP^14863^AUSNATA|LAB_AUS|LAB_AUS^0000^AUSNATA|20260627153143+1000||ORU^R01^ORU_R01|5d81b69b-ee20-4120-b3b0-b41b5a2b030c|P|2.4^AUS&Australia&ISO31
PID|1||1782538303505^^^RCPAQAP^QA~8003601782538305^^^AUSHIC^NI||Woloszyn^Jefferey^Padgett||19640224|M||Unit 18 757 Warringah Road^^Forestville^NSW^2087^Australia^B
PV1|1|I|807^Pretty Good OR^0000^ASIC^^^Pretty Good Hospital^0000^ASIC|E|||8003616674663556^Doctor^Attending^First^^^AUSHIC&8003616674663556&L^L^^^NPI~1234567A^Doctor
ORC|NW|1782538303506-0^RCPAQAP^14863^AUSNATA|FON1782538303506-0^RCPAQAP^14863^AUSNATA|1782538303506^RCPAQAP^14863^AUSNATA|||20260627153143|||1782538303506^Cully^Mali
OBR|1|1782538303506-0^RCPAQAP^14863^AUSNATA|FON1782538303506-0^RCPAQAP^14863^AUSNATA|49466006^ACTH^SCT|||CP/999999 CP-GC-99-01|20260627153143+1000|Serum&&L|17825
OBX|1|NM|14674-6^ACTH^LN||1|pmol/L^pmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|2|NM|2141-0^ACTH^LN||1|pg/mL^pg/mL^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|3|ED|HTML^Display format in HTML^AUSPDI||^text^HTML^Base64^CjwhRE9DVFLQRSBodG1sPgo8aHRtbCBsYW5nPSJlbiI+CjxoZWFKPgogIDxtZXRhIGh0dHAtZXF1aXY9IgtvVUEtQ29tcGF0aWJsZSIg
OBX|4|ED|PDF^Display format in PDF^AUSPDI||^application^pdf^Base64^JVBERi0xLjcKJYGBgYEKcKjQgMCMVYmoKPDwKL0xlbmd0aCAxMDYKPKj4Kc3RyZWFTcCjAuNTY3MDAwMDAwMDAwMSB3CjAgRwpX
ORC|NW|1782538733674-1^RCPAQAP^14863^AUSNATA|FON1782538733674-1^RCPAQAP^14863^AUSNATA|1782538303506^RCPAQAP^14863^AUSNATA|||20260627153143|||1782538303506^Cully^Mali
OBR|2|1782538733674-1^RCPAQAP^14863^AUSNATA|FON1782538733674-1^RCPAQAP^14863^AUSNATA|91308007^Blood gas arterial^SCT|||CP/999999 CP-GC-99-01|20260627153143+1000|
OBX|5|NM|1925-7^Base excess arterial^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|6|NM|19235-1^Base excess arterial standard^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|7|NM|1960-4^Bicarbonate arterial^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|8|NM|19230-2^Bicarbonate arterial standard^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|9|NM|8310-5^Body temperature^LN||1|Cel^Cel^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|10|NM|1994-3^Calcium ionised blood^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|11|NM|20563-3^Carboxyhaemoglobin^LN||50|%%^UCUM|0-100|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|12|NM|19225-2^Deoxyhaemoglobin arterial^LN||50|%%^UCUM|0-100|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|13|NM|15074-8^Glucose blood^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|14|NM|55782-7^Haemoglobin by oximetry^LN||1|g/L^g/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|15|NM|20509-6^Haemoglobin calculated^LN||1|g/L^g/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|16|NM|32693-4^Lactate blood^LN||1|mmol/L^mmol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|17|NM|2614-6^Methaemoglobin^LN||50|%%^UCUM|0-100|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|18|NM|19218-7^Oxygen content arterial^LN||1|mol/L^mol/L^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|19|NM|3150-0^Oxygen inhaled^LN||50|%%^UCUM|0-100|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|20|NM|3151-8^Oxygen inhaled flow rate^LN||1|L/min^L/min^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
OBX|21|NM|71835-3^Oxygen inhaled fraction^LN||1|No unit^No unit^UCUM|||F||20260627153143+1000||8003611782538309^Heatherly^Marla^^^AUSHIC&8003611782538309&L^L^^^NPI
```

Message validation was performed on 2026-06-27, at 15:39:43

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Australian Diagnostics and Referral Messaging - Localisation of HL7 Version 2.4 \(ADRM-2021.1\)](#) Standard. The HL7 Message **conforms** to the requirements of the ADRM-2021.1 Standard.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Royal College of Pathologists of Australasia RCPA Standardised Pathology Informatics in Australia \(SPIA\), Guidelines v4.1](#) for e-Requesting.

The HL7 Message **conforms** to the requirements of the RCPA SPIA Guidelines v4.1.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [Royal College of Pathologists of Australasia RCPA Standardised Pathology Informatics in Australia \(SPIA\), Guidelines v4.1](#) for Reporting.

The HL7 Message **conforms** to the requirements of the RCPA SPIA Guidelines v4.1.

The message was checked for conformance with the requirements of the RCPAQAP HL7 Conformance Profile for the [National Pathology Accreditation Advisory Council \(NPAAC\) - Requirements for information communication and reporting \(Fifth Edition\) \(NPAAC RICR5\)](#).

The HL7 Message **conforms** to the requirements of the NPAAC RICR5.

By explicit directive, the message was NOT checked for conformance with the minimum

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Message Identification Details

- Sending Facility: RCPAQAP - 14863
- Message Control Id: 5d81b69b-ee20-4120-b3b0-b41b5a2b030c
- Date/Time of Message: 20260627153143+1000
- HL7 Message Source: HL7 message body from Web Service Request
- Message Type: **Results Message**
- Conformance Profile Id: "TFFFFTTTTF" / "TFFFFTTTTF"

HL7 Message

Please note that line numbers followed by a colon ":", shown to the left of HL7 Segment identifiers, are not a part of the message and are provided to facilitate correlation of diagnostic messages with the HL7 messages segments to which they refer.

```
1: MSH|^~\&|LabWare|RCPAQAP^14863^AUSNATA|LAB_AUS|LAB_AUS^0000^AUSNATA|20260627153143+1000||ORU^R01^ORU_R01|5d81b69b-ee20-4120-b3b0-b41b5a2b030c|P|2.4^AUS&Australia&ISO3166_1^HL7AU-00-20170|
2: PID|1||1782538303505^^^RCPAQAP^QA~8003601782538305^^^AUSHC^NI||Woloszyn^Jefferey^Padgett||19640224|M||Unit 18 757 Warringah Road^^Forestville^NSW^2087^Australia^B
3: PV1|1|I|807^Pretty Good OR^0000^ASIC^^^Pretty Good Hospital^0000^ASIC|E|||8003616674663556^Doctor^Attending^First^^^^AUSHC&8003616674663556&L^L^ANPI~1234567A^Doctor^Attending^Second^^
4: ORC|NW|1782538303506-0^RCPAQAP^14863^AUSNATA|FON1782538303506-0^RCPAQAP^14863^AUSNATA|1782538303506^RCPAQAP^14863^AUSNATA|||20260627153143|||1782538303506^Cully^Malicoat^Berna^^^^ASIC
5: OBR|1|1782538303506-0^RCPAQAP^14863^AUSNATA|FON1782538303506-0^RCPAQAP^14863^AUSNATA|49466006^ACTH^SCT|||CP/999999 CP-GC-99-01|20260627153143+1000|Serum&&L|1782538303506^Cully^Malic
6: OBX|1|NM|14674-6^ACTH^LN||1|pmol/L^pmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
7: OBX|2|NM|2141-0^ACTH^LN||1|pg/mL^pg/mL^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
8: OBX|3|ED|HTML^Display format in HTML^AUSPDI||^text^HTML^Base64^CjwhRE9DVFLQRSBodG1sPgo8aHRtbcBsYW5nPScjbiI+CjxoZWFrPgogIDxtZXRhIGh0dHATZXF1aXY9IgtVUETQ29tcGF0aWJsZSIgY29udGVudD0iSUU9ZWRi
9: OBX|4|ED|PDF^Display format in PDF^AUSPDI||^application^pdf^Base64^JVBERi0xLjckJYGBgYECkjcQgMCBvYmoKPdWkL0xlbmd0aCAxMDYKPKj4K3RyZWFrCjAuNTY3MDAwMDAwMDAwMSB3CjAgRwpxCjU3NS40MzMzMzA4NjY
10: ORC|NW|1782538733674-1^RCPAQAP^14863^AUSNATA|FON1782538733674-1^RCPAQAP^14863^AUSNATA|1782538303506^RCPAQAP^14863^AUSNATA|||20260627153143|||1782538303506^Cully^Malicoat^Berna^^^^ASIC
11: OBR|2|1782538733674-1^RCPAQAP^14863^AUSNATA|FON1782538733674-1^RCPAQAP^14863^AUSNATA|91308007^Blood gas arterial^SCT|||CP/999999 CP-GC-99-01|20260627153143+1000|Arterial blood&&L|
12: OBX|5|NM|1925-7^Base excess arterial^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
13: OBX|6|NM|19235-1^Base excess arterial standard^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
14: OBX|7|NM|1960-4^Bicarbonate arterial^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
15: OBX|8|NM|19230-2^Bicarbonate arterial standard^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
16: OBX|9|NM|8310-5^Body temperature^LN||1|Cel^Cel^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
17: OBX|10|NM|1994-3^Calcium ionised blood^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
18: OBX|11|NM|20563-3^Carboxyhaemoglobin^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
19: OBX|12|NM|19225-2^Deoxyhaemoglobin arterial^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
20: OBX|13|NM|15074-8^Glucose blood^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
21: OBX|14|NM|55782-7^Haemoglobin by oximetry^LN||1|g/L^g/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
22: OBX|15|NM|20509-6^Haemoglobin calculated^LN||1|g/L^g/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
23: OBX|16|NM|32693-4^Lactate blood^LN||1|mmol/L^mmol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
24: OBX|17|NM|2614-6^Methaemoglobin^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
25: OBX|18|NM|19218-7^Oxygen content arterial^LN||1|mol/L^mol/L^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
26: OBX|19|NM|3150-0^Oxygen inhaled^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
27: OBX|20|NM|3151-8^Oxygen inhaled flow rate^LN||1|L/min^L/min^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
28: OBX|21|NM|17835-3^Oxygen inhaled fraction^LN||1|No unit^No unit^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
29: OBX|22|NM|2708-6^Oxygen saturation arterial^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
30: OBX|23|NM|51733-4^Oxygen saturation arterial calculated^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
31: OBX|24|NM|2714-4^Oxyhaemoglobin arterial^LN||50|%%^UCUM|0-100|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
32: OBX|25|NM|2019-8^pCO2 arterial^LN||1|mm[Hg]^mmHg^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
33: OBX|26|NM|32771-8^pCO2 arterial temperature adjusted^LN||1|mm[Hg]^mmHg^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
34: OBX|27|NM|2744-1^pH arterial^LN||1|pH^No unit^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
35: OBX|28|NM|33254-4^pH arterial temperature adjusted^LN||1|pH^No unit^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
36: OBX|29|NM|2703-7^pO2 arterial^LN||1|mm[Hg]^mmHg^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
37: OBX|30|NM|19255-9^pO2 arterial temperature adjusted^LN||1|mm[Hg]^mmHg^UCUM|||F|||20260627153143+1000||8003611782538309^Heatherly^Marla^^^^^AUSHC&8003611782538309&L^L^ANPI
38: OBX|31|ED|HTML^Display format in HTML^AUSPDI||^text^HTML^Base64^CjwhRE9DVFLQRSBodG1sPgo8aHRtbcBsYW5nPScjbiI+CjxoZWFrPgogIDxtZXRhIGh0dHATZXF1aXY9IgtVUETQ29tcGF0aWJsZSIgY29udGVudD0iSUU9ZWRi
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