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Queensland Cancer Register (QCR) Pathology Investigations – Approved Form (Version 0.8, 3 April 2025)

Notification about cancer related pathological investigations to the QCR will be required under the <u>Public Health Act 2005 Queensland Cancer Register (QCR)</u> <u>Legislation Amendments</u>. This legislation will commence in **May 2025**.

The approved form aligns with:

- The national pathology accreditation standards, published by the Australian Commission for Safety and Quality in Health Care², and
- The pathology terminology and information standardisation guidelines and reference sets³, published by the Royal College of Pathologists of Australasia (RCPA), and
- The structured pathology reporting of cancer protocols⁴, published by RCPA.

Pathology laboratories are required to provide additional follow up cancer-related examination results (even if there is no cancer identified in the specimen) performed by the pathology laboratory for a person who has, or has had cancer in the following approved form:

- Pathology results must be presented in a message file that conforms to the current HL7 Australia Diagnostic Messaging standard², as specified in Table 1 below.
- PDF documents and PDF files embedded in HL7 messages are not an approved form.
- Pathology results must have titles that consistently and accurately describe the contents of the report, i.e., the panel names (Universal service identifier name) must reflect the test results found in the report.
- Where available, the standardised requesting and reporting content, terminology, codes, and units must be applied, as specified in the RCPA Standardised Pathology Informatics in Australia (SPIA) guidelines, associated reference sets and information models, published on the RCPA website.
- For cancer resections, reports must conform the to the RCPA structured pathology reporting of cancer protocols, specified on the RCPA website (or linked to the International Collaboration on Cancer Reporting data sets), including precise adherence to the reporting proforma and data sets, with all ancillary test results and use of standardised terminology where specified.
- For genetic testing of neoplasms, standardised terminology must be applied, including Human Genome Variation Society (HGVS) nomenclature for variations to DNA sequences and amino acids, as specified in the SPIA reference material and the accreditation requirements for medical testing for human genetic variation⁶.
- For tests referred to other laboratories, the referring laboratory must ensure the report is notified to the cancer register in the approved form.

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Message information	Describes the file that contains the complete diagnostics report, within a compliant HL7 message structure of type ORU^R01.	MSH			
Field separator	Defines the character to be used as a field separator for the entire message content.	MSH-1	1	n/a	Mandatory
Encoding characters	This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator.	MSH-2	^~\&	n/a	Mandatory
Escape sequences	A set of characters used to replace and denote reserved characters and delimiters that have a pre-defined purpose in the message, as per the HL7 standard and encoding characters in use.	As required	Example: \T\ replaces sub-component delimiter '&'	n/a	Mandatory
Sending application	Identifies the information system that is the source of the message that contains the diagnostic report.	MSH-3	Producer system name	180	Mandatory
Sending facility	Identifies the facility (diagnostic provider organisation) that is responsible for the sending application. Together, the sending facility and application uniquely identify the source of the message in the QCR environment.	MSH-4	Diagnostic provider name	180	Mandatory

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Receiving application	Identifies the information system in the context of the receiving facility, that is intended to receive the message.	MSH-5	Queensland Cancer Register	180	Optional
Receiving facility	Identifies the facility that is responsible for the receiving application.	MSH-6	Cancer Alliance Queensland MSHHS	180	Optional
Date/time of message	This field contains the date/time that the sending system created the message.	MSH-7	Time stamp	n/a	Mandatory
Message type	This field contains the message type, trigger event, and the message structure ID for the message.	MSH-9	ORU^R01	n/a	Mandatory
Message control ID	Uniquely identifies the message (in the sender's context).	MSH-10	Refer to HL7 Standard for recommended format.	30	Mandatory
Patient information	The patient is the subject of the diagnostic investigations	PID			
Primary patient identifier with assigning authority	Uniquely identifies the patient in the sender's facility.	PID-3 (first repeat)	Examples: 07654321^^^PAS^MR^00 011; 624055839^^^NATA&LAB &N	250	Mandatory
Other patient identifiers	e.g., National health identifier - individual health identifier (IHI)	PID-3	Example: 8003608833357361^^^A USHIC^NI 1035468466^^^QH^PT^E UID;	250	Conditional - mandatory if available

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Value name	Description	Expected HL7	Examples of expected	Max character	Priority
value name		segment/field	values	length for the value	
Medicare number	May be referenced for patient matching if other identifiers are inadequate to match.	PID-3	Example: 41556495371 ^^^AUSHIC ^MC^^^ 202509	250	Conditional - mandatory if available
Name	This field contains the names of the patient, the primary or legal name of the patient is reported first. The given name and second and further names must be appropriately delimited from one another. All names should be correctly classified using the Name Type value. For example, a preferred name that is not the legal name of the patient may have Alias (A) name type.	PID-5	Example: CITIZEN ^John^Paul ^^MR^^L	200	Mandatory
DOB	This field contains the patient's date of birth, or the date and time of birth.	PID-7	Time stamp (YYYYMMDD)	n/a	Mandatory
Sex	Refers to 'Administrative sex' and reflects the patient's genetic, hormonal and physical characteristics (sex characteristics). This field should not be used to reflect the patient's Gender Identity. Note: The referenced standard does not specify the presentation of definitive Sex- and Gender-related data elements, such as Gender Identity and Sex for Clinical Use. If other data elements are available, please advise QCR so that the values can be accurately recorded.	PID-8	Code - Description 1 or M - Male 2 or F - Female 3 or A - X, intersex or indeterminate 9 or U - Not stated/inadequately described	1	Mandatory

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Partnership qccat qcr **Expected HL7 Examples of expected** Priority Value name Description Max character segment/field values length for the value Refers to patient's indigenous status, represented by codes Indigenous **Code - Description** 1 Conditional -**PID-10** defined by METEOR, Queensland Health, or the relevant HL7 1 - Aboriginal but not mandatory if status standard. This value is required for the national cancer data **Torres Strait Islander** available collection. origin 2 - Torres Strait Islander but not Aboriginal origin 3 - Both Aboriginal and **Torres Strait Islander** origin 4 - Neither Aboriginal nor Torres Strait Islander origin 9 - Not stated/unknown Address Refers to the home address or mailing address of the PID-11 Example: 100 James 250 Mandatory patient, and includes street address, state, post code and Street^^Fair country code. Hills^QLD^4995^AUS^H PID-13 Phone number Refers to the contact phone number for the patient 0400200123 250 Optional Information that is common to all orders in a diagnostic ORC Order control information service request (optional) Refers to the status of an order group from a diagnostic Order control ID ORC-1 RE 2 Optional service request. Placer order The string of characters assigned by the placer system when ORC-2 123456 250 Optional it creates the diagnostic service request. It uniquely number identifies the order within the placer system.

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Filler order number	The string of characters assigned by the filler system that uniquely identifies the order within the filler system of the diagnostic providers environment.	ORC-3	6543216500	250	Optional
Placer group number	The string of characters that is assigned by the placer system, to identify the group of (one or more) orders belonging to one service request, submitted to the diagnostic service provider.	ORC-4	ABC123456	250	Optional
Order status	Specifies the status of an order to enable communication of status change.	ORC-5	СМ	2	Optional
Ordering provider	Refers to the individual healthcare provider who created the request.	ORC-12	7654321A^Brown^Julie^^ ^Dr^^^AUSHICPR	250	Optional
Order information	Describes the order and the set of (one or more) observations that are provided in the message.	OBR	Reference: RCPA Standardised Pathology Informatics in Australia (SPIA) Guidelines and associated information models	RCPA - SPIA Terminology Reference Sets & Information Models	
Order Set ID	This field identifies the OBR segment within the message and is required if more than one OBR is sent in one message.	OBR-1	1	4	Mandatory
Placer order number	The string of characters assigned by the placer system when it creates the diagnostic service request. It uniquely identifies the order within the placer system.	OBR-2 (OBR-2 must = ORC-2 if both are supplied)	123456	250	Optional

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Filler order number	The string of characters assigned by the filler system that uniquely identifies the order within the filler system of the diagnostic provider's environment. The filler system refers to the laboratory, or radiology, information system.	OBR-3 (OBR-3 must = ORC-3 if both are supplied)	6543216500	250	Mandatory
Universal service identifier code and name	The code and name that universally identifies the group of observations (panel/battery/test) that has been requested. For pathology messages, this field should use the RCPA approved SNOMED CT-AU code and preferred term.	OBR-4	252416005^Histology^SC T; 26604007^Full blood count^SCT	100	Conditional - mandatory if available (SPIA)
Local service identifier code and name	The code and name that identifies the group of observations (panel/battery/test) that has been requested, within the filler system. This field uses the order code and panel/test name that is known within the diagnostic provider's environment.	OBR-4	HISTO^Histopathology^N ATA7777; FBE^Full Blood Examination^NATA7777	100	Mandatory
Requested date and time	The date and time at which the imaging exam was requested.	OBR-6	Time stamp	26	Conditional - mandatory if available
Observation date and time	The date and time at which the observation was obtained from the patient, i.e., when the specimen was collected, or imaging study performed. This is also known as the 'collection date and time'.	OBR-7	Time stamp	n/a	Mandatory

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Relevant clinical information	Clinical information about the patient, specimen or imaging study that can assist the diagnostic provider with interpretation of observation results.	OBR-13	Example: Right hemicolectomy for adenoca resection, distal margin inked; Staging study for known NSCLC.	300	Conditional - mandatory if available
Specimen received date/time	For pathology observations, refers to the date and time the specimen was receipted into the laboratory system.	OBR-14	Time stamp	n/a	Mandatory
Specimen source	Specifies the specimen type collected.	OBR-15	Tissue	100	Mandatory
Specimen primary site	Specifies the body site of the observations. It is important that this field is populated with information about the body site of the tumour tissue, for anatomical pathology on tumour samples, biopsies and resections, and biomarker studies performed on tissue.	OBR-15	Lung	100	Conditional - mandatory if applicable
Specimen secondary site	Specifies the detailed body site of the observations. It is important that this field is populated with information about the body site of the tumour tissue, for anatomical pathology on tumour samples, biopsies and resections, and biomarker studies performed on tissue.	OBR-15	Left lower lobe		Conditional - mandatory if applicable
Ordering provider	Refers to the individual healthcare provider who created the request. Same value as ORC-12 (if present).	OBR-16	7654321A^Brown^Julie^^ ^Dr^^^AUSHICPR	250	Mandatory
Filler field 1	This field should contain the laboratory accession number, i.e., the string of characters that identifies the diagnostic service request (episode) in the filler system.	OBR-20	456123789	60	Mandatory

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority	
Result status change date and time	Specifies the date and time that the results were reported, or the status of the results changed, and subsequently triggered a new message to send.	OBR-22	Time stamp	n/a	Mandatory	
Diagnostic service section ID	Specifies the diagnostic service department or discipline where the observations were processed and resulted.	OBR-24	SP (Anatomical Pathology)	10	Mandatory	
Result status	Specifies the collective status of all observations in the order. Together with the unique filler order number (OBR-3), and result status change date and time (OBR-22), this value enables version control of reports received and subsequently amended.	OBR-25	F (Final results); C (Correction or amendment to one or more observations in the set)	1	Mandatory	
Observation information	Describes each of the individual observation results in the group	ОВХ	Reference: RCPA STRUCTURED PATHOLOGY REPORTING OF CANCER – PROTOCOLS (if applicable)	<u>RCPA -</u> <u>Structured</u> <u>Pathology</u> <u>Reporting of</u> <u>Cancer -</u> <u>Protocols</u>		
Sequence number (Set ID)	Specifies the order in which the observations are listed, as intended by the sender.	OBX-1	3	4	Mandatory	
Result value data type	Specifies the format of the observation result value in OBX- 5.	OBX-2	NM; FT	3	Mandatory	
Universal observation identifier and preferred term	The code and name that universally identifies the observations (individual test). For pathology messages, this field should use the RCPA approved LOINC code and preferred term.	OBX-3	Example: 718- 7^Haemaglobin^LN	120	Conditional - mandatory if available (SPIA)	

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Partnership *qccat* qcr Value name **Expected HL7 Examples of expected** Description Max character **Priority** segment/field values length for the value Mandatory The code and name that identifies the observation OBX-3 120 Local Example: observation (individual test) within the filler system. This field uses the HGB[^]Haemaglobin[^]NATA identifier and test code and test name that is known within the diagnostic 7777 name provider's environment. The result value that was observed for the test specified in Where applicable, refer Depends on Observation OBX-5 Mandatory OBX-3, presented according to the data type specified in to the RCPA SPIA data type, up value OBX-2. Each observation result in the set should be provided guidelines. For cancer to 16 MB. as a discrete value in its individual OBX segment, and within resections, refer to RCPA the context of its complete report, i.e., in both the atomic cancer protocols. For and the display formats. The complete report should be genetic testing, refer to provided as a display segment comprised of formatted text. the Requirements for PDF does not comprise an approved form. medical testing for human genetic variation. Observation The units of measure that apply to the observation result OBX-6 g/L 250 Conditional value. This field should use the RCPA approved preferred units mandatory if applicable units. Reference The lower and/or upper limits where the result value is OBX-7 135 - 175 60 Conditional considered to be 'normal'. Reference ranges may vary mandatory if ranges according to factors such as the age and sex of the patient at applicable the time of the observation. Abnormal flags Characters to indicate whether the result value falls within OBX-8 H; HH; +; +++ Conditional -5 the normal range of values and may indicate the degree to mandatory if which the result is considered to be abnormal. applicable

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Value name	Description	Expected HL7 segment/field	Examples of expected values	Max character length for the value	Priority
Observation result status	This value specifies the stage in the diagnostic provider's processing, where the individual observation resulting is up to.	OBX-11	F (Final result)	1	Mandatory
Analysis date and time	Specifies the date and time that the raw observation result was generated by the analytical instrument.	OBX-14	Time stamp	n/a	Mandatory
Producers ID	The unique identifier of the responsible producing service; i.e., the pathology provider organisation who authored the report (e.g. for send away tests). When this field is null, CAQ assumes that the report was produced by the sending organisation.	OBX-15	Name of pathology service	250	Conditional - mandatory if applicable

References:

- 1. Health and Other Legislation Amendment Act 2023 Queensland Legislation Queensland Government
- 2. <u>Requirements for information communication and reporting (Fifth Edition) | Australian Commission on Safety and Quality in Health Care</u>
- 3. Pathology accreditation standards | Australian Commission on Safety and Quality in Health Care
- 4. <u>RCPA SPIA Terminology Reference Sets & Information Models</u>
- 5. <u>RCPA Structured Pathology Reporting of Cancer Protocols</u>
- 6. HL7AUSD-STD-OO-ADRM-2021.1 Australian Diagnostic and Referral Messaging Localisation of HL7 Version 2.4
- 7. <u>Requirements for medical testing for human genetic variation (Third Edition) | Australian Commission on Safety and Quality in Health Care</u>

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