

Standards for Pathology Informatics in Australia (SPIA)

Reporting Terminology and Codes Cytopathology

(v3.0)

Superseding and incorporating the
Australian Pathology Units and Terminology Standards
and Guidelines (APUTS)



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Standards for Pathology Informatics in Australia (SPIA)

Previously known as the Australian Pathology Units and Terminology Standards and Guidelines (APUTS)

Cytopathology Report Information Model Terminology

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Document History:

Version	Reason for Change	Author	Date
1.0	Initial Terminology for Reporting Pathology for Cytopathology, published by the RCPA Pathology Units and Terminology Standardisation Project.	Michael Legg / Dr Christiaan Swanepoel	12-Feb-13
2.0	Added Document Revision History worksheet. Changed file name from " <i>PUTS Cytopathology Terminology reference set</i> " to " <i>APUTS Cytopathology terminology reference set</i> " Updated Terminology for Reporting Path worksheet for the following: Removed heading, and placed it on this worksheet. Removed columns that were used during reviewing the Loinc codes. Added Length column. This is the number of characters for the "Preferred term" column. Also added LOINC Long Name columns to the view. Changed "PUTS Unit" to "Unit". Changed title from Cytopathology. Added "Thyroid FNA Cytology Report" tab with corresponding LOINC codes.	Donna Moore	06-Jun-14
2.1	After public feedback and approval by PITUS steering committee the following changes were made: - On the Gynaecological Cytology tab, changed SNOMED code for B1 Cervical to 279882009 Vaginal cervix (was 119224000 Vaginal part) . - On the Gynaecological Cytology tab, changed SNOMED code for B2 Vaginal to 119224000 Vaginal part (was 279882009 Vaginal cervix) on the Gynaecological Cytology tab.	Donna Moore	28-Oct-14
2.2	Added licence information.	Donna Moore	2-May-16
2.3	Changed the filename from 'APUTS Cytopathology terminology reference set'	Donna Moore	30-May-16
3.0	Added 'Version' and 'History' columns. Included changes from public comment.	Donna Moore	10-Jan-17

Standards for Pathology Informatics in Australia (SPIA)

Gynaecological Cytology Report (AMBS 2004) Information Model Terminology

Cervical cytology reports should contain the following components: Specimen& Site | Result | Specific Diagnosis | Recommendations

Indicate conventional Pap smear versus liquid-based versus other. Indicate that the specimen is cervical in origin.

In the case of split samples, a single combined report should be issued and the SPECIMEN/SITE field should indicate the report is based on, for example, a conventional Pap smear and a ThinPrep or an Autocyte Prep sample.

These columns contains sample result codes only. The codes could be used in either Result or Specific diagnosis areas as required by the business rules of the laboratory

This column contain sample SNOMED CT mappings (Work in progress)

RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	2006 Cytology Coding Schedule or Internal Codes	Possible SNOMED CT concept id	Version	History
SPECIMEN / SITE											
Specimen	19771-5	Screen techniques	Prid	Pt	Cvx/Vag	Nom	Cyto stain	A0 Not Stated	397212007 Specimen type not specified	1.0	Added by PUTS project
								A1 Conventional smear	446914005 Preparation and staining of smear using Papanicolaou technique	1.0	Added by PUTS project
								A2 Liquid based specimen	430346005 Liquid based cytologic material	1.0	Added by PUTS project
								A3 Conventional and liquid based specimen	No SCT ID for combination	1.0	Added by PUTS project
Site	19772-3	Preparation techniques	Type	Pt	Cvx/Vag	Nom	Cyto stain	B0 Not Stated	430297000 Cytologic material obtained from unspecified body site	1.0	Added by PUTS project
								B1 Cervical	279882009 Vaginal cervix	1.0	Added by PUTS project
								B2 Vaginal	119224000 Vaginal part	1.0	Added by PUTS project
								B3 Other Gynaecological site		1.0	Added by PUTS project
RESULT											
Result	19762-4	General categories	Imp	Pt	Cvx/Vag	Nom	Cyto stain	SU Unsatisfactory for evaluation		1.0	Added by PUTS project
Result	19762-4	General categories	Imp	Pt	Cvx/Vag	Nom	Cyto stain	S1 Negative for intraepithelial lesion or malignancy		1.0	Added by PUTS project
Result	19762-4	General categories	Imp	Pt	Cvx/Vag	Nom	Cyto stain	Epithelial cell abnormalities (Squamous)		1.0	Added by PUTS project
Result	19762-4	General categories	Imp	Pt	Cvx/Vag	Nom	Cyto stain	S2 Possible low-grade squamous intraepithelial lesion (LSIL)		1.0	Added by PUTS project
								S3 Low-grade LSIL (HPV and/ or CIN I)		1.0	Added by PUTS project
								S4 Possible high-grade squamous intraepithelial lesion (HSIL)		1.0	Added by PUTS project
								S5 High-grade squamous intraepithelial lesion (HSIL) (CIN II/ CIN III)		1.0	Added by PUTS project
								S6 High-grade squamous intraepithelial lesion (HSIL) with possible micro-invasion/ invasion		1.0	Added by PUTS project
								S7 Squamous carcinoma		1.0	Added by PUTS project
								Epithelial cell abnormalities (Endocervical)		1.0	Added by PUTS project
								E2 Atypical endocervical cells of uncertain significance		1.0	Added by PUTS project
								E3 Possible high-grade endocervical glandular lesion		1.0	Added by PUTS project
								E4 Adenocarcinoma-in-situ		1.0	Added by PUTS project
								E5 Adenocarcinoma-in-situ with possible micro-invasion/ invasion		1.0	Added by PUTS project
								E6 Adenocarcinoma		1.0	Added by PUTS project
								Other		1.0	Added by PUTS project
								O2 Atypical endometrial cells of uncertain significance		1.0	Added by PUTS project
								O3 Atypical glandular cells of uncertain significance - site unknown		1.0	Added by PUTS project
								O4 Possible endometrial adenocarcinoma		1.0	Added by PUTS project
								O5 Possible high-grade lesion - non-cervical		1.0	Added by PUTS project
								O6 Malignant cells - uterine body		1.0	Added by PUTS project
								O7 Malignant cells - vagina		1.0	Added by PUTS project
								O8 Malignant cells - ovary		1.0	Added by PUTS project
								O9 Malignant cells - other		1.0	Added by PUTS project
SPECIFIC DIAGNOSIS											
Specific Diagnosis	19764-0	Statement of adequacy	Imp	Pt	Cvx/Vag	Nom	Cyto stain	E- Not applicable: vault smear / previous hysterectomy		1.0	Added by PUTS project
								E0 No endocervical component		1.0	Added by PUTS project
								E1 Endocervical component present. No abnormality or only reactive changes		1.0	Added by PUTS project
								EU Due to the unsatisfactory nature of the smear, no assessment has been made		1.0	Added by PUTS project
Specific Diagnosis	19762-4	General categories	Imp	Pt	Cvx/Vag	Nom	Cyto stain	S1 No abnormality or only reactive changes		1.0	Added by PUTS project
Specific Diagnosis	44945-4	Australian cervix cytology code	Imp	Pt	XXX	Nom		Atypical squamous cells (of undetermined significance) are present.		1.0	Added by PUTS project
								HPV associated cytopathic effect (Koilocytosis) is seen.		1.0	Added by PUTS project
								Abnormal squamous cells consistent with CIN 1 are present.		1.0	Added by PUTS project
								Abnormal cells consistent with CIN2 are present.		1.0	Added by PUTS project
								Abnormal cells consistent with CIN 3 are present.		1.0	Added by PUTS project
								Abnormal cells consistent with CIN 3 are present.Micro-invasion/invasion can not be excluded.		1.0	Added by PUTS project
								Abnormal cells consistent with CIN are present.Precise grading is not possible.		1.0	Added by PUTS project
								Atypical epithelial cells are present.		1.0	Added by PUTS project
								Abnormal glandular cells are present.		1.0	Added by PUTS project

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These columns contains sample result codes only. The codes could be used in either Result or Specific diagnosis areas as required by the business rules of the laboratory

This column contain sample SNOMED CT mappings (Work in progress)

RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	2006 Cytology Coding Schedule or Internal Codes	Possible SNOMED CT concept id	Version	History
								Atypical endocervical cells are present.		1.0	Added by PUTS project
								Abnormal glandular cells are present. A high grade glandular lesion can not be excluded.		1.0	Added by PUTS project
								Malignant cells consistent with adenocarcinoma are present.		1.0	Added by PUTS project
								Malignant cells consistent with squamous cell carcinoma are present.		1.0	Added by PUTS project
								Malignant glandular cells are present.No definite endocervical or endometrial features are present.		1.0	Added by PUTS project
								Poorly differentiated malignant epithelial cells are present.No definite squamous or glandular features are seen.		1.0	Added by PUTS project
								Malignant cells consistent with adenocarcinoma of the cervix are present.		1.0	Added by PUTS project
								Malignant cells consistent with adenocarcinoma of the endometrium are present.		1.0	Added by PUTS project
								Atypical endometrial cells suspicious for endometrial hyperplasia or endometrial carcinoma are present.		1.0	Added by PUTS project
								Malignant epithelial cells are present.Some features raise the possibility of an extrauterine primary malignancy.		1.0	Added by PUTS project
								Poorly differentiated malignant cells are present. The origin of the cells can not be determined.		1.0	Added by PUTS project
Microorganisms / Flora	49034-2	Microorganism identified	Prid	Pt	Cvx/Vag	Nom	Cyto stain	O1 No other abnormal cells		1.0	Added by PUTS project
								Fungal S Fungal elements are seen.		1.0	Added by PUTS project
								Trich S Micro-organisms with the appearance of Trichomonas vaginalis are seen.		1.0	Added by PUTS project
								Herpes S Cellular changes consistent with Herpes simplex are seen.		1.0	Added by PUTS project
								Acti S Micro-organisms with the appearance of Actinomyces species are seen.		1.0	Added by PUTS project
								Candida S Fungal elements with the appearance of Candida species are seen.		1.0	Added by PUTS project
								Bact Vag S Micro-organisms consistent with bacterial vaginosis are seen.		1.0	Added by PUTS project
RECOMMENDATIONS											
Recommendations	19773-1	Recommended follow-up	Prid	Pt	Cvx/Vag	Nom	Cyto stain	R0 No recommendation		1.0	Added by PUTS project
								R1 Repeat smear 3 years		1.0	Added by PUTS project
								R2 Repeat smear 2 years		1.0	Added by PUTS project
								R3 Repeat smear 12 months		1.0	Added by PUTS project
								R4 Repeat smear 6 months		1.0	Added by PUTS project
								R5 Repeat smear 6 -12 weeks		1.0	Added by PUTS project
								R6 Colposcopy / biopsy recommended		1.0	Added by PUTS project
								R7 Already under gynaecological management		1.0	Added by PUTS project
								R8 Referral to specialist		1.0	Added by PUTS project
								R9 Other management recommended		1.0	Added by PUTS project
								RS Symptomatic-clinical management required		1.0	Added by PUTS project
SUMMARY FOR SUBMISSION TO REGISTRY											
Result	44945-4	Australian cervix cytology code	Imp	Pt	XXX	Nom		STRING OF 2006 CYTOLOGY CODING SCHEDULE CODES		1.0	Added by PUTS project

Gynaecological Cytology Report

Specimen/Site

- Type
 - 19771-5
 - A0 | Not Stated | +
 - A1 | Conventional smear | +
 - A2 | Liquid based specimen | +
 - A3 | Conventional and liquid based specimen | +
 - 19772-3
- Site
 - 19763-2
 - B0 Not Stated +
 - B2 Vaginal +
 - B1 Cervical
 - B3 Other Gynaecological site

Result

- 19762-4
 - Negative for intraepithelial lesion or malignancy
 - Epithelial cell abnormalities
 - Squamous
 - S2 Possible low-grade squamous intraepithelial lesion (LSIL)
 - S3 Low-grade LSIL (HPV and/ or CIN I)
 - S4 Possible high-grade squamous intraepithelial lesion (HSIL)
 - S5 High-grade squamous intraepithelial lesion (HSIL) (CIN II/ CIN III)
 - S6 High-grade squamous intraepithelial lesion (HSIL) with possible micro-invasion/ invasion
 - S7 Squamous carcinoma
 - Endocervical
 - E2 Atypical endocervical cells of uncertain significance
 - E3 Possible high-grade endocervical glandular lesion
 - E4 Adenocarcinoma-in-situ
 - E5 Adenocarcinoma-in-situ with possible micro-invasion/ invasion
 - E6 Adenocarcinoma
 - Other
 - O2 Atypical endometrial cells of uncertain significance
 - O3 Atypical glandular cells of uncertain significance - site unknown
 - O4 Possible endometrial adenocarcinoma
 - O5 Possible high-grade lesion - non-cervical
 - O6 Malignant cells - uterine body
 - O7 Malignant cells - vagina
 - O8 Malignant cells - ovary
 - O9 Malignant cells - other

Specific Diagnosis

- 19762-4
 - Unsatisfactory for evaluation Adequacy
 - 19764-0
 - EU Due to the unsatisfactory nature of the smear, no assessment has been made
 - SU Unsatisfactory for evaluation 125154007
 - Microorganism identified
 - 49034-2

Recommendation

- 19773-1
 - R0 No recommendation
 - R1 Repeat smear 3 years
 - R2 Repeat smear 2 years
 - R3 Repeat smear 12 months
 - R4 Repeat smear 6 months
 - R5 Repeat smear 6 -12 weeks
 - R6 Colposcopy / biopsy recommended
 - R7 Already under gynaecological management
 - R8 Referral to specialist
 - R9 Other management recommended
 - RS Symptomatic-clinical management required

Standards for Pathology Informatics in Australia (SPIA)

Urine Cytology										
RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	LongName	Version	History
Specimen										
Site	20506-2	Specimen drawn from	Type	Pt	^Patient	Nom		Specimen drawn from	1.0	Added by PUTS project
Type of body fluid	14725-6	Fluid	Type	Pt	Body fld	Nom		[Type] of Body fluid	1.0	Added by PUTS project
Appearance	5767-9	Appearance	Aper	Pt	Urine	Nom		Appearance of Urine	1.0	Added by PUTS project
Volume	28009-9	Specimen volume	Vol	Pt	Urine	Qn		Volume of Urine	1.0	Added by PUTS project
Character (Optional)	19244-3	Character	Aper	Pt	Urine	Nom		Character of Urine	1.0	Added by PUTS project
Clarity (Optional)	32167-9	Clarity	Type	Pt	Urine	Nom		Clarity of Urine	1.0	Added by PUTS project
Colour (Optional)	5778-6	Color	Type	Pt	Urine	Nom		Color of Urine	1.0	Added by PUTS project
Clinical Notes										
	22636-5	Path report.relevant Hx	Find	Pt	Specimen	Nar		Pathology report relevant history	1.0	Added by PUTS project
	55752-0	Clinical information	Find	Pt	^Patient	Nar		Clinical information	1.0	Added by PUTS project
Microscopy										
Microscopic Observation	11070-0	Microscopic observation	Prid	Pt	Urine	Nom	Cyto stain	Microscopic observation [Identifier] in Urine by Cyto stain	1.0	Added by PUTS project
Microscopic exam [interpretation]	27045-4	Microscopic exam	Imp	Pt	Urine	Nom	Cytology	Microscopic exam [interpretation] of Urine by Cytology	1.0	Added by PUTS project
Summary / Conclusion										
Conclusion	34574-4	Path report.final diagnosis	Imp	Pt	Specimen	Nom		Pathology report final diagnosis	1.0	Added by PUTS project
Pathologist/Cytologist										
Reviewer	59256-8	Cytologist	ID	Pt	XXX	Nom	Cyto stain	Cytologist who read Cyto stain of Unspecified specimen	1.0	Added by PUTS project

Standards for Pathology Informatics in Australia (SPIA)

Generic Fluid Cytology Report Information Model Terminology										
RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	LongName	Version	History
Specimen										
Site	20506-2	Specimen drawn from	Type	Pt	^Patient	Nom		Specimen drawn from	1.0	Added by PUTS project
Type of body fluid	14725-6	Fluid	Type	Pt	Body fld	Nom		[Type] of Body fluid	1.0	Added by PUTS project
Fluid volume	12254-9	Specimen volume	Vol	Pt	Body fld	Qn		Volume of Body fluid	1.0	Added by PUTS project
Fluid Appearance	9335-1	Appearance	Aper	Pt	Body fld	Nom		Appearance of Body fluid	1.0	Added by PUTS project
Fluid Appearance spun	11134-4	Appearance	Aper	Pt	Body fld.spun	Nom		Appearance of Spun Body fluid	1.0	Added by PUTS project
Colour	6824-7	Color	Type	Pt	Body fld	Nom		Color of Body fluid	1.0	Added by PUTS project
Colour spun	53733-2	Color	Type	Pt	Body fld.spun	Nom		Color of Spun Body fluid	1.0	Added by PUTS project
Clinical Notes										
	22636-5	Path report.relevant Hx	Find	Pt	Specimen	Nar		Pathology report relevant history	1.0	Added by PUTS project
	55752-0	Clinical information	Find	Pt	^Patient	Nar		Clinical information	1.0	Added by PUTS project
Microscopy										
Microscopic Observation	11068-4	Microscopic observation	Prid	Pt	Body fld	Nom	Cyto stain	Microscopic observation [Identifier] in Body fluid by Cyto stain	1.0	Added by PUTS project
Microscopic Observation	18328-5	Microscopic observation	Prid	Pt	Body fld	Nom	XXX stain	Microscopic observation [Identifier] in Body fluid by Other stain	1.0	Added by PUTS project
Summary / Conclusion										
	34574-4	Path report.final diagnosis	Imp	Pt	Specimen	Nom		Pathology report final diagnosis	1.0	Added by PUTS project
Ancillary study										
	35265-8	Path report.addendum	Find	Pt	Specimen	Nar		Pathology report addendum in Specimen Narrative	1.0	Added by PUTS project
Pathologist/Cytologist										
	59256-8	Cytologist	ID	Pt	XXX	Nom	Cyto stain	Cytologist who read Cyto stain of Unspecified specimen	1.0	Added by PUTS project

Standards for Pathology Informatics in Australia (SPIA)

Generic FNA Cytology Report Information Model Terminology										
RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	LongName	Version	History
Specimen										
Site	20506-2	Specimen drawn from	Type	Pt	^Patient	Nom		Specimen drawn from	1.0	Added by PUTS project
Method	30580-5	Guidance for aspiration.fine needle	Find	Pt	XXX	Doc	CT	CT Guidance for fine needle aspiration of Unspecified body region	3.0	3.0 - Changed Scale field from Nar 1.0 - Added by PUTS project
	38018-8	Guidance for aspiration.fine needle	Find	Pt	XXX	Doc	US	US Guidance for fine needle aspiration of Unspecified body region	3.0	3.0 - Changed Scale field from Nar 1.0 - Added by PUTS project
	44215-2	Guidance for aspiration.fine needle	Find	Pt	XXX	Doc	XR.fluor	Fluoroscopy Guidance for fine needle aspiration of Unspecified body region	3.0	3.0 - Changed Scale field from Nar 1.0 - Added by PUTS project
Clinical Notes										
	22636-5	Path report.relevant Hx	Find	Pt	Specimen	Nar		Pathology report relevant history	1.0	Added by PUTS project
	55752-0	Clinical information	Find	Pt	^Patient	Nar		Clinical information	1.0	Added by PUTS project
Macroscopic										
Macroscopic	22634-0	Path report.gross observation	Find	Pt	Specimen	Nar		Pathology report gross observation	1.0	Added by PUTS project
Microscopy										
Microscopy	11552-7	Microscopic exam	Imp	Pt	Tiss.FNA	Nom	Cytology	Microscopic exam [interpretation] of Tissue fine needle aspirate by Cytology	1.0	Added by PUTS project
Summary / Conclusion										
Conclusion	34574-4	Path report.final diagnosis	Imp	Pt	Specimen	Nom		Pathology report final diagnosis	1.0	Added by PUTS project
Ancillary study										
Ancillary study	35265-8	Path report.addendum	Find	Pt	Specimen	Nar		Pathology report addendum in Specimen Narrative	1.0	Added by PUTS project
Supplementary Reports										
Supplementary Reports	22639-9	Path report.supplemental reports	Find	Pt	Specimen	Nar		Pathology report supplemental reports	1.0	Added by PUTS project
Pathologist/Cytologist										
Reviewer	59256-8	Cytologist	ID	Pt	XXX	Nom	Cyto stain	Cytologist who read Cyto stain of Unspecified specimen	1.0	Added by PUTS project
Other										
FNA Cytology Report	33718-8	Cytology report	Find	Pt	Tiss.FNA	Doc	Cyto stain	Cytology report of Tissue fine needle aspirate Cyto stain	1.0	Added by PUTS project

Standards for Pathology Informatics in Australia (SPIA)

Thyroid FNA Cytology Report Information Model Terminology										
RCPA Preferred term	LOINC	Component	Property	Timing	System	Scale	Method	LongName	Version	History
Specimen										
Pathology Accession number	57723-9	Unique bar code number	ID	Pt	Current sample	Nom		Unique bar code number of Current sample	1.0	Added by PUTS project
Site	20506-2	Specimen drawn from	Type	Pt	^Patient	Nom		Specimen drawn from	1.0	Added by PUTS project
Method	42134-7	Guidance for aspiration	Find	Pt	Neck>Thyroid gland	Doc	US	US Guidance for aspiration of Thyroid	3.0	3.0 - Changed System field from Thyroid 1.0 - Added by PUTS project
Clinical Notes										
	22636-5	Path report.relevant Hx	Find	Pt	Specimen	Nar		Pathology report relevant history	1.0	Added by PUTS project
	55752-0	Clinical information	Find	Pt	^Patient	Nar		Clinical information	1.0	Added by PUTS project
Specimen Information										
Specimen types / slides	22633-2	Path report.site of origin	Anat	Pt	Specimen	Nar		Pathology report site of origin Narrative	1.0	Added by PUTS project
Macroscopic										
Macroscopic	22634-0	Path report.gross observation	Find	Pt	Specimen	Nar		Pathology report gross observation	1.0	Added by PUTS project
Microscopy										
Microscopy	11552-7	Microscopic exam	Imp	Pt	Tiss.FNA	Nom	Cytology	Microscopic exam [interpretation] of Tissue fine needle aspirate by Cytology	1.0	Added by PUTS project
Cytological findings (microscopic)	18497-8	Microscopic observation	Prid	Pt	Thyroid.FNA	Nom	Cyto stain	Microscopic observation [Identifier] in Thyroid fine needle aspirate by Cyto stain	1.0	Added by PUTS project
	31187-8	Microscopic observation	Prid	Pt	Lymph node.FNA	Nom	Cyto stain	Microscopic observation [Identifier] in Lymph node fine needle aspirate by Cyto stain	1.0	Added by PUTS project
Summary / Conclusion										
Conclusion	34574-4	Path report.final diagnosis	Imp	Pt	Specimen	Nom		Pathology report final diagnosis	1.0	Added by PUTS project
Ancillary study										
Ancillary study	35265-8	Path report.addendum	Find	Pt	Specimen	Nar		Pathology report addendum in Specimen Narrative	1.0	Added by PUTS project
Supplementary Reports										
Supplementary Reports	22639-9	Path report.supplemental reports	Find	Pt	Specimen	Nar		Pathology report supplemental reports	1.0	Added by PUTS project
Pathologist/Cytologist										
Reviewer	59256-8	Cytologist	ID	Pt	XXX	Nom	Cyto stain	Cytologist who read Cyto stain of Unspecified specimen	1.0	Added by PUTS project
Other										
Thyroid FNA Cytology Report	47524-4	Cytology report	Find	Pt	Thyroid.FNA	Doc	Cyto stain	Cytology report of Thyroid fine needle aspirate Cyto stain	1.0	Added by PUTS project

