A guide to Prostate Cancer (Transurethral Resection & Enucleation) Histopathology Reporting

Includes the IC CR International Collaboration on Cancer reporting dataset denoted by *

Pre-analytical details

S1.02	**Clinical information provided on request form** (complete as narrative or use the structured format below)	Text
	CLINICAL INFORMATION	
	*Previous history of prostate cancer *(including the Gleason grade and score of previous specimens if known)*	Text
	*Previous biopsy *(specify date and where performed)*	Text
	*Previous therapy	Text
	*Other	Text
	*Pre-procedure serum PSA	____ ng/mL
	*Operative procedure	TURP OR Enucleation (suprapubic/ simple/open prostatectomy)
	*Clinical stage	Text
S1.03	**Pathology accession number**	Text
S1.04	**Principal clinician**	Text
G1.01	Comments	Text

Macroscopic findings

S2.01	**Specimen labelled as**	Text
S2.02	*Specimen weight	____ g
G2.01	*Specimen dimensions *(Enucleation/suprapubic/ open prostatectomy specimens only)*	_x_x_mm
S2.03	*Block identification key	Text
G2.02	Additional macroscopic comments	Text

Microscopic findings

S3.01	*Histological tumour type	See p2
S3.02	*HISTOLOGICAL GRADE (see p3)	
	*GLEASON SCORE *(if indeterminate specify reason)*	Indeterminate OR complete the following:
	*Primary pattern/grade	____ (1-5)
	*Secondary pattern/grade	____ (1-5)
	*ISUP GRADE (GRADE GROUP)	See p2

Microscopic findings (cont.)

S3.03	*PROSTATIC TISSUE INVOLVED BY TUMOUR *(This should be an estimate <5% and then 10% increments Complete 1 or both of the following)*	
	*Prostatic tissue involved by tumour measured on the basis of area *(TURP or enucleation/suprapubic prostatectomy specimens)*	____ %
	*Prostatic tissue involved by tumour measured on the basis of number of chips *(TURP specimens only)*	____ %
G3.01	*Percentage Gleason pattern 4/5 (applicable for Gleason scores ≥7)	___% OR Not identified
G3.02	*Perineural invasion	Not identified Present
G3.03	*Seminal vesicle invasion	Not identified Present
G3.04	*Lymphovascular invasion	Not identified Present
G3.05	*Extraprostatic extension	Not identified Present
G3.06	*Intraductal carcinoma of prostate	Not identified Present
G3.07	*Coexistent pathology	None identified Present, *specify*
G3.08	Additional microscopic comment	Text

Synthesis and overview

G5.01	Diagnostic summary Include: a. specimen type b. tumour type c. Gleason score and/or ISUP grade	Text
S5.01	**Overarching comment**	Text
G5.02	Edition/version number of the RCPA protocol on which the report is based	Text

S3.01 Histological tumour type

Select all that apply:

- Adenocarcinoma (Acinar)
- Other *(specify)*

S3.02 HISTOLOGICAL GRADE

ISUP grade/grade group

- ISUP Grade (Grade Group) 1 (Gleason score ≤6)
- ISUP Grade (Grade Group) 2 (Gleason score 3+4=7)
- ISUP Grade (Grade Group) 3 (Gleason score 4+3=7)
- ISUP Grade (Grade Group) 4 (Gleason score 8)
- ISUP Grade (Group Group) 5 (Gleason score 9-10)
- Indeterminate (specify reason)

ISUP grading system, core/needle biopsies and TURP specimens

ISUP grade (Grade group)	Gleason score	Definition
Grade 1	2-6	Only individual discrete well-formed glands
Grade 2	3+4=7	Predominantly well-formed glands with lesser component (*) of poorly-formed/fused/cribriform glands
Grade 3	4+3=7	Predominantly poorly-formed/fused/cribriform glands with lesser component (**) of well-formed glands
Grade 4	4+4=8	Only poorly-formed/fused/cribriform glands
	3+5=8	Predominantly well-formed glands and lesser component (*) lacking glands (or with necrosis)
	5+3=8	Predominantly lacking glands and lesser component (**) of well-formed glands (or with necrosis)
Grade 5	9-10	Lack gland formation (or with necrosis) with or without poorly formed/fused/cribriform glands

* Any component of the high-grade pattern (i.e. even if less than 5%) is included in the grade.
** The low-grade pattern is included in the grade only if it is at least 5%.
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Gleason scoring of unusual patterns

Pattern	Morphology	Comment
Vacuoles	Cytoplasmic change seen in all grades	Grade as if vacuoles were absent, on the underlying architecture
Mucin extravasation		Grade based on glandular architecture
Mucinous fibroplasia	Collagenous micronodules	Grade based on glandular architecture
Glomeruloid structures		Grade as 4
Foamy gland change		Grade based on glandular architecture
Small cell neuroendocrine		Do not assign a grade