

# Person with cancer—histopathological grade, tertiary Gleason Grade code N

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# Person with cancer—histopathological grade, tertiary Gleason Grade code N

## Identifying and definitional attributes

<b>Metadata item type:</b>	Data Element
<b>Short name:</b>	Tertiary Gleason Grade
<b>METEOR identifier:</b>	496572
<b>Registration status:</b>	<a href="#">Health</a> , Standard 14/05/2015
<b>Definition:</b>	The tertiary Gleason grade assigned to a prostate cancer, as represented by a code.
<b>Context:</b>	Only relevant for people with prostate cancer.
<b>Data Element Concept:</b>	<a href="#">Person with cancer—histopathological grade</a>
<b>Value Domain:</b>	<a href="#">Gleason grade code N</a>

## Value domain attributes

### Representational attributes

<b>Representation class:</b>	Code												
<b>Data type:</b>	Number												
<b>Format:</b>	N												
<b>Permissible values:</b>	<table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>1</td><td>Grade 1</td></tr><tr><td>2</td><td>Grade 2</td></tr><tr><td>3</td><td>Grade 3</td></tr><tr><td>4</td><td>Grade 4</td></tr><tr><td>5</td><td>Grade 5</td></tr></tbody></table>	Value	Meaning	1	Grade 1	2	Grade 2	3	Grade 3	4	Grade 4	5	Grade 5
Value	Meaning												
1	Grade 1												
2	Grade 2												
3	Grade 3												
4	Grade 4												
5	Grade 5												

## Collection and usage attributes

<b>Guide for use:</b>	<p>CODE 1 Grade 1</p> <p>Closely packed small regular glands forming a circumscribed rounded nodule. Not to be used for grading of needle core biopsy specimens.</p> <p>CODE 2 Grade 2</p> <p>Glands more loosely arranged; not quite as uniform; fairly circumscribed but may have minimal infiltration at margins. Rarely, if ever, to be used for grading of needle core biopsy specimens.</p> <p>CODE 3 Grade 3</p> <p>Discrete glandular units/acini with marked variation in size and shape; infiltrates in and amongst benign prostatic tissue.</p> <p>CODE 4 Grade 4</p> <p>Fused micro acinar glands; ill-defined glands with poorly formed lumina; large cribriform irregular glands; hypernephroid.</p> <p>CODE 5 Grade 5</p> <p>Minimal if any glandular differentiation – solid sheets, cords or single cells.</p>
<b>Collection methods:</b>	To be collected from pathology reports.

## Source and reference attributes

<b>Submitting organisation:</b>	Cancer Australia
<b>Reference documents:</b>	<p>Humphrey PA 2004. Gleason grading and prognostic factors in carcinoma of the prostate. <i>Modern pathology</i>, 17(3): 292-306</p> <p>Epstein JI, Allsbrook WCJ, Amin MB and Egevad LL 2005. The 2005 International Society of Urological Pathology (ISUP) Consensus Conference on Gleason Grading of Prostatic Carcinoma. <i>American Journal of Surgical Pathology</i> 29(9):1228–1242</p>

## Data element attributes

### Collection and usage attributes

<b>Guide for use:</b>	<p>Tertiary Gleason grade (a specific form of histopathological grade) refers to the tumour pattern that occupies the third greatest area (two other tumour patterns both occupy a greater area) of the prostate, and nearly always represents a smaller area of higher grade (typically 4 or 5).</p> <p>Gleason grades are assigned to a prostate cancer by a pathologist based on sections from a radical prostatectomy specimen. Tertiary Gleason grades are only assigned when there are 3 or more Gleason patterns/grades present. Tertiary Gleason grades are often only recorded when it contains a more aggressive pattern (higher Gleason grade) than primary and secondary grades and are only recorded for resected tissue (not biopsied).</p> <p>Tertiary Gleason grades are virtually always 4 or 5 and are an indicator of how likely it is that a tumour will spread. A low <a href="#">Gleason score</a> without a tertiary grade of 4 or 5 means the cancer tissue is similar to normal prostate tissue and the tumour is less likely to spread; a high Gleason score means the cancer tissue is very different from normal and the tumour is more likely to spread.</p>
<b>Collection methods:</b>	To be sought from pathology reports or patient medical records.
<b>Comments:</b>	A Gleason grade is a prognostic indicator of prostate cancer which may be used to guide treatment and assess whether appropriate treatment protocols have been used.

## Source and reference attributes

**Submitting organisation:** Cancer Australia

**Reference documents:** American College of Surgeons 2011. Facility Oncology Registry Data Standards: Revised for 2011. American College of Surgeons: Chicago.

Humphrey PA 2004. Gleason grading and prognostic factors in carcinoma of the prostate. *Modern pathology*, 17(3), p292-306.

Royal College of Pathologists of Australasia 2010. Prostate cancer (radical prostatectomy) structured reporting protocol (1st Ed.). Royal College of Pathologists of Australasia: Sydney.

## Relational attributes

**Implementation in Data Set Specifications:** [Prostate cancer \(clinical\) NBPDS Health](#), Standard 14/05/2015