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

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

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| Identifying and definitional attributes | |
| Metadata item type: | Data Element |
| Short name: | Tertiary Gleason Grade |
| METEOR identifier: | 496572 |
| Registration status: | [Health!](https://meteor-uat.aihw.gov.au/RegistrationAuthority/14), Standard 14/05/2015 |
| Definition: | The tertiary Gleason grade assigned to a prostate cancer, as represented by a code. |
| Context: | Only relevant for people with prostate cancer. |
| Data Element Concept: | [Person with cancer—histopathological grade](https://meteor-uat.aihw.gov.au/content/288657) |
| Value Domain: | [Gleason grade code N](https://meteor-uat.aihw.gov.au/content/392730) |

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| Value domain attributes | | |
| Representational attributes | | |
| Representation class: | Code | |
| Data type: | Number | |
| Format: | N | |
|  | **Value** | **Meaning** |
| Permissible values: | 1 | Grade 1 |
|  | 2 | Grade 2 |
|  | 3 | Grade 3 |
|  | 4 | Grade 4 |
|  | 5 | Grade 5 |

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| Collection and usage attributes | |
| Guide for use: | CODE 1   Grade 1  Closely packed small regular glands forming a circumscribed rounded nodule. Not to be used for grading of needle core biopsy specimens.  CODE 2   Grade 2  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.  CODE 3   Grade 3  Discrete glandular units/acini with marked variation in size and shape; infiltrates in and amongst benign prostatic tissue.  CODE 4   Grade 4  Fused micro acinar glands; ill-defined glands with poorly formed lumina; large cribriform irregular glands; hypernephroid.  CODE 5   Grade 5  Minimal if any glandular differentiation – solid sheets, cords or single cells. |
| Collection methods: | To be collected from pathology reports. |

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| Source and reference attributes | |
| Submitting organisation: | Cancer Australia |
| Reference documents: | Humphrey PA 2004. Gleason grading and prognostic factors in carcinoma of the prostate. Modern pathology, 17(3): 292-306  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. American Journal of Surgical Pathology 29(9):1228–1242 |

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| Data element attributes | |
| Collection and usage attributes | |
| Guide for use: | 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).  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 tissued (not biopsied).  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 [**Gleason score**](https://meteor-uat.aihw.gov.au/content/598061) 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. |
| Collection methods: | To be sought from pathology reports or patient medical records. |
| Comments: | 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](https://meteor-uat.aihw.gov.au/content/481386)  [Health!](https://meteor-uat.aihw.gov.au/RegistrationAuthority/14), Standard 14/05/2015 |