Person—cholesterol level (measured), total millimoles per litre N[N].N

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# Person—cholesterol level (measured), total millimoles per litre N[N].N

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| Identifying and definitional attributes | |
| Metadata item type: | Data Element |
| Short name: | Cholesterol—total (measured) |
| METEOR identifier: | 270403 |
| Registration status: | [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 01/10/2008 |
| Definition: | A person's total cholesterol (TC), measured in mmol/L. |

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| Data element concept attributes | |
| Identifying and definitional attributes | |
| Data element concept: | [Person—cholesterol level](https://meteor.aihw.gov.au/content/269577) |
| METEOR identifier: | 269577 |
| Registration status: | [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 01/03/2005 |
| Definition: | A person's total cholesterol (TC). |
| Object class: | [Person](https://meteor.aihw.gov.au/content/268955) |
| Property: | [Cholesterol level](https://meteor.aihw.gov.au/content/269323) |

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| Value domain attributes | |
| Identifying and definitional attributes | |
| Value domain: | [Total millimoles per litre N[N].N](https://meteor.aihw.gov.au/content/270785) |
| METEOR identifier: | 270785 |
| Registration status: | [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 01/03/2005 |
| Definition: | Total number of millimoles per litre (mmol/L). |

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| Representational attributes | | |
| Representation class: | Total | |
| Data type: | Number | |
| Format: | N[N].N | |
| Maximum character length: | 3 | |
|  | **Value** | **Meaning** |
| Supplementary values: | 99.9 | Not stated/inadequately described. |
| Unit of measure: | Millimole per litre (mmol/L) | |



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| Data element attributes | |
| Collection and usage attributes | |
| Guide for use: | Measurement in mmol/L to 1 decimal place.  Record the absolute result of the total cholesterol measurement. When reporting, record whether or not the measurement of Cholesterol-total - measured was performed in a fasting specimen. |
| Collection methods: | When reporting, record absolute result of the most recent Cholesterol-total - measured in the last 12 months to the nearest 0.1 mmol/L.  Measurement of lipid levels should be carried out by laboratories, or practices, which have been accredited to perform these tests by the National Association of Testing Authorities.   * To be collected as a single venous blood sample, preferably following a 12-hour fast where only water and medications have been consumed. * Prolonged tourniquet use can artefactually increase levels by up to 20%. |
| Comments: | In settings where the monitoring of a person's health is ongoing and where a measure can change over time (such as general practice), the Service contact—service contact date, DDMMYYYY should be recorded.  High blood cholesterol is a key factor in heart, stroke and vascular disease, especially coronary heart disease.  Poor nutrition can be a contributing factor to heart, stroke and vascular disease as a population's level of saturated fat intake is the prime determinant of its level of blood cholesterol.  Large clinical trials have shown that people at highest risk of cardiovascular events (e.g. pre-existing ischaemic heart disease) will derive the greatest benefit from lipid lowering drugs. For this group of patients, the optimum threshold plasma lipid concentration for drug treatment is still a matter of research. In May 1999 the PBS threshold total cholesterol concentration, for subsidy of drug treatment, was reduced from 5.5 to 4.0 mmol/L. (Australian Medical Handbook). |
| Source and reference attributes | |
| Submitting organisation: | Cardiovascular Data Working Group |
| Origin: | National Heart Foundation of Australia and the Cardiac Society of Australia and New Zealand, Lipid Management Guidelines - 2001, MJA 2001; 175: S57-S88  National Health Priority Areas Report: Cardiovascular Health 1998. AIHW Cat. No. PHE 9. HEALTH and AIHW, Canberra.  The Royal College of Pathologists of Australasia web based Manual of Use and Interpretation of Pathology Tests |
| Relational attributes | |
| Related metadata references: | Has been superseded by [Person—cholesterol level (measured), total millimoles per litre N[N].N](https://meteor.aihw.gov.au/content/359245)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 01/10/2008  Is used in the formation of [Person—low-density lipoprotein cholesterol level (calculated), total millimoles per litre N[N].N](https://meteor.aihw.gov.au/content/359262)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 01/10/2008  Is used in the formation of [Person—low-density lipoprotein cholesterol level (calculated), total millimoles per litre N[N].N](https://meteor.aihw.gov.au/content/270402)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 01/10/2008  Is re-engineered from  [Cholesterol-total - measured, version 1, DE, NHDD, NHIMG, Superseded 01/03/2005.pdf](https://meteor.aihw.gov.au/content/273667)  (21.4 KB)  *No registration status* |
| Implementation in Data Set Specifications: | [Acute coronary syndrome (clinical) DSS](https://meteor.aihw.gov.au/content/285277)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 07/12/2005  [Acute coronary syndrome (clinical) DSS](https://meteor.aihw.gov.au/content/319741)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 01/10/2008  [Cardiovascular disease (clinical) DSS](https://meteor.aihw.gov.au/content/273052)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 15/02/2006  ***DSS specific information:***  Scientific studies have shown a continuous relationship between lipid levels and coronary heart disease and overwhelming evidence that lipid lowering interventions reduce coronary heart disease progression, morbidity and mortality. Studies show a positive relationship between an individual's total blood cholesterol level and risk of coronary heart disease as well as death (Kannel & Gordon 1970; Pocock et al. 1989).  Many studies have demonstrated the significance of blood cholesterol components as risk factors for heart, stroke and vascular disease.  Several generalisations can be made from these cholesterol lowering trials:   * that the results of the intervention trials are consistent with the prospective population studies in which (excluding possible regression dilution bias) a 1.0 mmol/L reduction in plasma total cholesterol translates into an approximate 20% reduction in the risk of future coronary events. * It should be emphasised, however, that this conclusion does not necessarily apply beyond the range of cholesterol levels which have been tested in these studies. * That the benefits of cholesterol lowering are apparent in people with and without coronary artery disease.   There is high level evidence that in patients with existing coronary heart disease, lipid intervention therapy reduces the risk of subsequent stroke  [Cardiovascular disease (clinical) DSS](https://meteor.aihw.gov.au/content/348289)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 04/07/2007  ***DSS specific information:***  Scientific studies have shown a continuous relationship between lipid levels and coronary heart disease and overwhelming evidence that lipid lowering interventions reduce coronary heart disease progression, morbidity and mortality. Studies show a positive relationship between an individual's total blood cholesterol level and risk of coronary heart disease as well as death (Kannel & Gordon 1970; Pocock et al. 1989).  Many studies have demonstrated the significance of blood cholesterol components as risk factors for heart, stroke and vascular disease.  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There is high level evidence that in patients with existing coronary heart disease, lipid intervention therapy reduces the risk of subsequent stroke  [Cardiovascular disease (clinical) DSS](https://meteor.aihw.gov.au/content/353668)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 22/12/2009  ***DSS specific information:***  Scientific studies have shown a continuous relationship between lipid levels and coronary heart disease and overwhelming evidence that lipid lowering interventions reduce coronary heart disease progression, morbidity and mortality. Studies show a positive relationship between an individual's total blood cholesterol level and risk of coronary heart disease as well as death (Kannel & Gordon 1970; Pocock et al. 1989).  Many studies have demonstrated the significance of blood cholesterol components as risk factors for heart, stroke and vascular disease.  Several generalisations can be made from these cholesterol lowering trials:   * that the results of the intervention trials are consistent with the prospective population studies in which (excluding possible regression dilution bias) a 1.0 mmol/L reduction in plasma total cholesterol translates into an approximate 20% reduction in the risk of future coronary events. * It should be emphasised, however, that this conclusion does not necessarily apply beyond the range of cholesterol levels which have been tested in these studies. * That the benefits of cholesterol lowering are apparent in people with and without coronary artery disease.   There is high level evidence that in patients with existing coronary heart disease, lipid intervention therapy reduces the risk of subsequent stroke  [Diabetes (clinical) DSS](https://meteor.aihw.gov.au/content/273054)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 21/09/2005  ***DSS specific information:***  The risk of coronary and other macrovascular disorders is 2-5 times higher in people with diabetes than in non-diabetic subjects and increases in parallel with the degree of dyslipidaemia.  Following Principles of Care and Guidelines for the Clinical Management of Diabetes Mellitus, the targets for lipids management are:   * To reduce total Cholesterols to less than 5.5 mmol/L * To reduce triglyceride levels to less than 2.0 mmol/L * To increase high density lipoprotein Cholesterols to more than or equal to 1.0 mmol/L.   If pre-existing cardiovascular disease (bypass surgery or myocardial infarction), total cholesterol should be less than 4.5 mmol/L  [Diabetes (clinical) NBPDS](https://meteor.aihw.gov.au/content/304865)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 21/09/2005  ***DSS specific information:***  The risk of coronary and other macrovascular disorders is 2-5 times higher in people with diabetes than in non-diabetic subjects and increases in parallel with the degree of dyslipidaemia.  Following Principles of Care and Guidelines for the Clinical Management of Diabetes Mellitus, the targets for lipids management are:   * To reduce total Cholesterols to less than 5.5 mmol/L * To reduce triglyceride levels to less than 2.0 mmol/L * To increase high density lipoprotein Cholesterols to more than or equal to 1.0 mmol/L.   If pre-existing cardiovascular disease (bypass surgery or myocardial infarction), total cholesterol should be less than 4.5 mmol/L |