



Medical Testing Classes of Test

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Medical Testing

Accreditation in the field of Medical Testing is described by classes and sub-classes of test.

These classes and sub-classes are fixed descriptors, free text being used to qualify or amplify terms as necessary. Where the scope of testing of a laboratory cannot be adequately described by existing descriptors, the Medical Testing Accreditation Advisory Committee may from time to time establish new classes and/or sub-classes of test. Notification will be provided when this occurs.

Classes of test

- 10.10 Microbiology
- 10.11 Bacteriology
 - .01 Preparation of films for microscopic examination
 - .02 Inoculation of cultures
 - .03 Microscopic examination of clinical specimens
 - .04 Identification of organisms including antibiotic susceptibility testing
 - .05 Identification of organisms excluding antibiotic susceptibility testing
 - .06 Detection of bacterial antigens by non-cultural non-molecular techniques
 - .07 Specialised antibiotic procedures
 - .99 Miscellaneous tests
- 10.12 Parasitology
 - .01 Preparation and examination of films
 - .02 Definitive identification of parasites
 - .03 Limited identification of parasites
 - .04 Detection of parasitic antigens by non-cultural non-molecular techniques
 - .99 Miscellaneous tests
- 10.13 Virology
 - .02 Isolation of viruses
 - .03 Definitive identification of viruses
 - .04 Limited identification of viruses
 - .05 Detection of viral antigens by non-cultural non-molecular techniques
 - .99 Miscellaneous tests
- 10.14 Mycology
 - .01 Microscopic examination of clinical specimens
 - .02 Culture of specimens
 - .03 Limited identification of fungi
 - .04 Definitive identification of fungi
 - .05 Susceptibility to antifungal agents
 - .07 Detection of fungal antigens by non-cultural non-molecular techniques
 - .99 Miscellaneous tests
- 10.15 Mycobacteriology
 - .01 Microscopic examination of clinical specimens
 - .02 Culture for isolation of mycobacteria
 - .03 Limited identification of isolates
 - .04 Definitive identification of isolates
 - .05 Susceptibility testing
 - .99 Miscellaneous tests
- 10.16 Serology of infection
 - .01 Limited serological testing
 - .02 Extended serological testing
 - .03 Specialised or uncommon serological testing procedures
 - .99 Miscellaneous tests

- 10.17 Detection and characterisation of microbial DNA/RNA
 - .01 Detection and characterisation of bacterial DNA/RNA
 - .02 Detection and characterisation of parasitic DNA/RNA
 - .03 Detection and characterisation of viral DNA/RNA
 - .04 Detection and characterisation of fungal DNA/RNA
 - .05 Detection and characterisation of mycobacterial DNA/RNA
 - .06 Genotyping for infectious diseases
 - .07 Sanger sequencing
 - .08 Massively parallel sequencing
 - .99 Miscellaneous tests

- 10.18 Tests on clinical non-human specimens
 - .01 Environmental investigations
 - Spore strips/capsules, Air strips
 - .02 Investigation of nosocomial infections in outbreaks and / or individuals
 - MRSA/VRE/Acinetobacter/Other resistant organisms
 - Gastrointestinal endoscopes
 - Vascular catheter tips
 - Transfusion bags
 - .03 Dialysis waters

- 10.19 Miscellaneous
 - .01 Semen analysis (Screening Test)
 - .99 Miscellaneous tests

- 10.20 Immunohaematology
 - .01 Blood grouping including ABO, Rh(D)
 - .03 Blood group antibody screening
 - .04 Identification of blood group antibodies
 - .05 Determination of compatibility of donor units
 - .06 Red cell phenotyping
 - .07 Antibody elution
 - .08 Antibody titration
 - .10 Storage and distribution of blood and blood components
 - .15 Blood grouping including ABO, Rh(D) and other antigens by automated methods
 - .16 Blood grouping including ABO, Rh(D) and other antigens and antibody screening by automated methods
 - .17 Blood grouping including ABO, Rh(D) and other antigens by manual methods
 - .18 Blood grouping including ABO, Rh(D) and other antigens and antibody screening by manual methods
 - .19 Investigation of transfusion reactions
 - .20 Direct antiglobulin test (Poly and monospecific)
 - .21 Identification of platelet antibodies
 - .22 Identification of platelet antigens
 - .23 Identification of granulocyte antibodies
 - .24 Identification of granulocyte antigens
 - .25 Detection of anti-IgA antibodies in transfusion recipients with low IgA levels
 - .80 Molecular genetic studies
 - .99 Miscellaneous tests

- 10.30 Haematology
 - .01 Blood counts
 - .02 Visual examination of blood films
 - .03 Erythrocyte sedimentation rate
 - .05 Automated differential leucocyte counts
 - .06 Automated reticulocyte counts
 - .08 Blood film examinations involving special staining procedures
 - .09 Examination for malarial and other parasites
 - Thick and thin film examination, ICT kit
 - .20 Bone marrow examination
 - .24 Human progenitor cell collection
 - .25 Progenitor cell transplantation procedures
 - .30 Tests for haemoglobin variants and thalassemia
 - .31 Tests for foetal Hb

- .35 Tests to investigate haemolysis
 - .36 Screening tests for G6PD deficiency
 - .37 Red cell enzyme assays 10.71
 - .40 Limited haemostasis related tests
 - .41 Extended haemostasis related tests
 - .42 Point of care testing
 - .43 Mobile/Field PoCT
 - .45 Tests of platelet function
 - .51 *In vivo* radioisotopic haematological tests
 - .55 Iron studies
 - .57 Screening test for infectious mononucleosis
 - .58 Vitamin B₁₂ and folate (serum and red cell)
 - .59 Cryoglobulins . cryofibrinogens
 - .61 β_2 -microglobulin
 - .62 Plasma viscosity
 - .70 Immunophenotyping
 - .80 Molecular genetic studies
 - .90 Electron microscopy
 - .99 Miscellaneous tests
- 10.40 Immunopathology
- .01 Quantitative investigation of immunoglobulins G, A, M and D in body fluids
 - .02 Qualitative investigation of immunoglobulins G, A, M and D in body fluids including paraprotein typing, CSF oligoclonal bands and Bence Jones proteins
 - .06 Investigation of complement
 - .10 Rheumatoid factor - quantitative assays
 - .12 Detection of autoantibodies in body fluids and biopsy material
 - .20 Tests of cellular immunity - quantitation of lymphocytes
 - .24 Tests of cellular immunity - *in vitro* lymphocyte function tests
 - .26 Tests of cellular immunity - cytokine assays
 - .30 Assessment of neutrophils - quantitation
 - .32 Assessment of neutrophils - *in vitro* functional tests
 - .34 Natural killer cell assay by flow cytometry or radioisotope release from target cells
 - .36 Immunophenotyping
 - .40 Human Leucocyte Antigen (HLA) typing
 - .41 HLA Single Antigen Tests
Descriptor required: HLA - B27, HLA B51
 - .50 Total IgE
 - .51 Allergen - specific IgE
 - .53 Eosinophil cationic protein
 - .54 Tryptase
 - .60 Simple slide tests for biochemical and immunological analytes
 - .70 Cytokines
 - .80 Molecular genetic studies
 - .81 Killer-cell immunoglobulin-like receptors (KIR) typing
 - .82 β_2 -microglobulin
 - .99 Miscellaneous tests
- 10.50 Anatomical pathology
- 10.51 Histopathology
- .01 Histopathology of biopsy material
 - .02 Immediate frozen section diagnosis
 - .03 Immunohistochemical investigation
 - .04 Paraffin-ISH (Chromogenic)
 - .05 Paraffin FISH
- 10.52 Cytopathology
- .01 Gynaecological (cervical)
 - .02 Non-gynaecological
 - .03 Fine needle aspiration biopsy specimens
 - .04 Gynaecological (other than cervical)

- 10.54 Examination by electron microscopy
- 10.56 Autopsy service
- 10.58 Mortuary facilities
 - .01 Level 1 Facility
 - .02 Level 2 Facility
 - .03 Level 3 Facility
- 10.59 Miscellaneous tests
- 10.60 Chemical pathology
- 10.61 General chemistry
 - .01 Analytes in general use in cardiac, liver function, lipid, renal and other profiles and metabolic studies
 - .02 Proteins, quantitative analysis
 - .03 Proteins, qualitative and semi-quantitative analysis; including by electrophoresis and immunoelectrophoresis
 - .04 Point of care testing for blood gases, glucose and other profiles
 - .05 CO-oximetry
 - .06 Blood pH and gas tensions
 - .07 Other analytes performed on a blood gas analyser
 - .08 Haem-related pigments and precursors
 - .09 Trace elements
 - .10 Drugs for therapeutic monitoring
 - .14 Alcohol for non-legal purposes
 - .15 Drugs for toxicological purposes
 - .17 Drugs for toxicological purposes in urine to AS/NZS 4308:2008
 - Descriptors available:*
 - Section 2 Specimen collection, storage, handling and dispatch
 - Appendix A On-site screening procedure
 - Section 3 General laboratory requirements
 - Section 4 Laboratory screening procedures
 - Section 5 Laboratory confirmatory procedures
 - .18 Drugs for toxicological purposes in oral fluid to AS 4760:2006
 - Descriptors available:*
 - Section 2 Collection, storage, handling and dispatch
 - Section 3 On-site initial testing
 - Section 4 Laboratory initial testing
 - Section 5 Confirmatory testing procedures
 - .20 Hormones
 - .24 Hormone receptor assays
 - .30 Sweat electrolytes
 - .32 Maternal markers of foetal wellbeing
 - .33 Amniotic fluid analytes for foetal lung maturity
 - .34 Amniotic fluid analytes for foetal abnormalities
 - .40 Iron studies
 - .45 Vitamin B₁₂ and folate
 - .47 Vitamin assays
 - .50 Protein and peptide tumour markers
 - .51 C-1 esterase inhibitor
 - .52 Markers of bone metabolism
 - .53 Solid tissue enzymes
 - .54 Trace elements in solid tissues
 - .56 Biogenic amines
 - .60 Glycohaemoglobins
 - .61 Point of care testing for Hb A_{1c}
 - .62 pH of urine and fluids by electrode
 - .63 Breath tests
 - .65 Pregnancy tests - qualitative
 - .70 Faecal fats
 - .71 Faecal occult blood
 - .73 Faecal α_1 -antitrypsin

- .74 Reducing substances and/or other sugars in urine or faeces
- .75 Malabsorption tests, not otherwise specified
- .76 Simple slide tests for biochemical and immunological analytes
- .77 Calculi
- .78 Intermediary metabolites
- .79 Special enzyme assays
- .80 Chemicals for toxicological purposes
- .81 Automated detection of autoantibodies in body fluids
- .88 Snake Venom Detection
- .89 Mobile/Field PoCT
- .99 Miscellaneous tests

- 10.62 Biochemical genetics
 - .01 Metabolite analysis
 - .02 Enzymology
 - .05 Tissue culture and long term storage

- 10.63 Newborn Screening
 - .01 Immunoassays
 - .02 Colorimetric/fluorescence assays
 - .03 Tandem mass spectrometry
 - .04 DNA assays for a defined mutation or polymorphism

- 10.64 Medico-legal drug testing
 - .01 Drugs for toxicological purposes to AS/NZS 4308:2001
 - .02 Drugs for toxicological purposes in urine to AS/NZS 4308:2008 - Section 2 Specimen collection, storage, handling and dispatch
 - .03 Drugs for toxicological purposes in urine to AS/NZS 4308:2008 - Appendix A On-site screening procedures
 - .04 Drugs for toxicological purposes in urine to AS/NZS 4308:2008 - Section 3 General laboratory requirements
 - .05 Drugs for toxicological purposes in urine to AS/NZS 4308:2008 - Section 4 Laboratory screening procedures
 - .06 Drugs for toxicological purposes in urine to AS/NZS 4308:2008 – Section 5 Laboratory confirmatory procedures
 - .07 Drugs for toxicological purposes in oral fluid to AS 4760:2006 - Section 2 Collection, storage, handling and dispatch
 - .08 Drugs for toxicological purposes in oral fluid to AS 4760:2006 - Section 3 On-site initial testing
 - .09 Drugs for toxicological purposes in oral fluid to AS 4760:2006 - Section 4 Laboratory initial testing
 - .10 Drugs for toxicological purposes in oral fluid to AS 4760:2006 – Section 5 Confirmatory testing procedures
 - .11 Drugs for toxicological purposes in hair

- 10.70 Genetic testing

- 10.71 Cytogenetics
 - .01 Blood
 - .02 Bone marrow
 - .03 Amniotic fluid
 - .04 Chorionic villus tissue
 - .06 Other tissues – non-malignant
 - .20 Other tissues - malignant
 - .25 Detection of defined, unbalanced chromosomal abnormalities by FISH
 - .26 Karyotype detection of unbalanced chromosome abnormalities by a microarray based method
 - Descriptor required for sample type from
 - Blood,
 - Bone Marrow,
 - Amniotic fluid,
 - Chorionic villus tissue,
 - Other tissues – non-malignant,
 - Other tissues – malignant

- .27 Karyotype detection of balanced and unbalanced chromosome abnormalities by a microscopy based method
Descriptor required for sample type from
Blood,
Bone Marrow,
Amniotic fluid,
Chorionic villus tissue,
Other tissues – non-malignant,
Other tissues – malignant
- .99 Miscellaneous tests
- 10.75 Molecular genetics
 - .10 Sanger sequencing
 - .13 Prenatal genetic testing (excludes Non-invasive prenatal screening)
 - .14 Pre-implantation genetic testing
 - .15 Genetic testing for constitutional gene variants (diagnostic and carrier testing)
 - .16 Predictive genetic testing
 - .17 Pharmacogenetic testing
 - .18 Genetic testing for mosaic gene variants (cancer and somatic mosaicism)
 - .19 Screening for an unknown mutation
 - .20 Assay for a defined mutation or polymorphism
 - .21 Assaying heterozygous loci
 - .22 Calculated estimate of risk of inheritance of an unknown mutation (Bayesian and linkage calculations)
 - .23 Massively parallel sequencing
 - .24 Non-invasive prenatal screening
 - .25 Detection and characterisation of cell free DNA in cancer screening
 - .99 Miscellaneous tests
- 10.80 Blood donor services
 - .01 Collection of blood from donors, routine
 - .02 Collection and storage of autologous blood donations
 - .03 Collection and storage of directed/dedicated blood donations
 - .04 Collection of cells or plasma by automated means
 - .06 Operation of a mobile collection unit
 - .10 Preparation of blood components
 - .11 Storage and distribution of blood and blood components
 - .12 Freezing and thawing of cellular components for transfusion
 - .13 Preparation of leucocyte-poor red cells
 - .35 Screening of donor blood for markers of transfusion transmitted disease
 - .80 Tissue typing - donor specific antibody detection and antibody identification
 - .99 Miscellaneous tests
- 10.90 Medical practice pathology
 - .10 Microbiology
 - .20 Immunohaematology
 - .30 Haematology
 - .40 Immunology
 - .60 Chemical pathology
 - .99 Miscellaneous tests
- 10.95 Assisted reproduction procedures
 - .01 Semen analysis
 - .06 Sperm antibodies
 - .07 Detection of leucocytes in semen
 - .08 Sperm preparation for In Vitro Fertilisation
 - .11 Semen cryopreservation
 - .12 Tests for semen/sperm-cervical mucus interaction
 - .13 Sperm chromatin integrity assays
 - .14 Hormones
 - .15 Serology testing
 - .99 Miscellaneous

AMENDMENT TABLE

The table and commentary below provides a summary of changes made to the document with this issue.

New Subclass: 10.75.25 added to reflect new testing availability.

Amendments
New subclass added: 10.75.25