

## 12. Definitions and data sources

Measure	Method	Comments
Population data	Main population used was the Statistics NZ projection series compiled for the MoH in July of each year. Medium projections, incorporating medium births, deaths, and migration estimates.	Prioritised ethnicity used – Maori, then Pacific, then Asian, then Other. Other figures interpolated from 2001 Census
Life expectancy at birth	Standard life table method	
<b>Surgical indicators</b>		
<b>Procedure codes</b>		
Knee replacement	Procedure codes 4951800,4951900,4952100,4952101,4952102,4952103,4952400,4952401,4952700,4953000,4953001,4953300,4953400,4955400	All age standardised to NZ population for 15+ years and total
Hip replacements	Procedure codes 4931800,4931900,4932400,4932700,4933000,4933300,4934500	
Coronary bypass grafts	Procedure codes 3849700,3849701,3849702,3849703,3849704,3849705,3849706,3849707,3850000,3850001,3850002,3850003,3850004,3850300,3850301,3850302,3850303,3850304,3863700,9020100,9020101,9020102,9020103	
Angioplasties	Procedure codes 360 excl 3530400,3530500,3531000,3531001,3531002	
Hysterectomy	Procedure codes 3565300,3565301,3565302,3565303,3565700,3566100,3566400,3566401,3566700,3566701,3567000,3567300,3567301,3575000,3575300,3575301,3575600,3575601,3575602	
<b>Performance</b>		
<b>Diagnosis codes ICD-10</b>		
<b>Comments</b>		
Ambulatory sensitive hospitalisations rate	Principal diagnosis 250,291,292,300,303,304,305,311,401,402,403,404,405,493 and acute	
Hip fractures rate	Principal procedure 8200-8209 and acute	
Assisted delivery %	Procedure codes 9046800,9046801,9046802,9046803,9046804,9046900,9047001,9047002,9047003,9047004	As percentage of all deliveries
Forceps delivery %	Procedure codes 720-724	As percentage of all deliveries
Caesarean sections %	Procedure codes 1652000,1652001,1652002,1652003	As percentage of all deliveries
Pneumonia	Principal diagnosis 48 and acute	
<b>Mortality</b>		
<b>Diagnosis codes ICD-9</b>		
<b>Comments</b>		
All cause mortality	All causes	Age standardised to NZ population
Suicide	Ecode 95	
Unintentional injury	Ecodes 800-929 Excluding 87	
Respiratory death	46-51	
Ischaemic heart disease	I21,I22,I25,I240,I241,I248,I249	
Stroke	I61-I6199,I63-I6699	
Colorectal cancer	C18-C2199	
Lung cancer	C33-C3499	
Breast cancer	C50-C5099	
Infant mortality		Number of infants who die in the first year of life

Childrens health	Criteria	Comments
Low birth weight	< 2500g	Live births
PAH categories	Diagnosis codes ICD-10	Condition description
Gastroenteritis	A01-A0999	Diarrhoeal diseases, digestive symptoms
Tuberculosis	A150-A19999,B900-B90999,P370-P37099	Tuberculosis
Other infections	A23-A2399,A26-A2699,A28-A2899,A32-A3299,A38-A3899, B50-B5499,J020-J02099,J030-J03099,P23-P2399,P351-P35199, P352-P35299,P358-P35899,P359-P35999,P36-P3699,P371-P37999	Brucellosis, other zoonoses, strep throat, erysipelas, malaria, congenital infections
HIV/AIDS	B20-B2499	HIV/AIDS
Immunisation-preventable	A413-A41399,A492-A49299,B9631-B963199,B9639-B963999,G000-G00099,B05-B0599, B06-B0699, B26-B2699, P350-P35099, A37-A3799, A33-A3699,A80-A8099	Diphtheria, whooping cough, tetanus, polio, measles, mumps, Hib, rubella
Hepatitis & liver cancer	B15-B1999,C22-C2299,P353-P35399	Hepatitis A, B, C,D,E primary liver cancer
Sexually-transmitted diseases	A50-A5899,A638-A63899,A64-A6499,I980-I98099,M023-M02399, M031-M03199,M730-M73099,M731-M73199,N290-N29099,N302-N30299, N341-N34199,N70-N7799,O00-O0099	Syphilis, gonorrhoea + other STDs, PID, ectopic pregnancy
Skin cancers	C00-C0099,C43-C4499	Lip, melanoma, other skin cancer
Oral cancers	C01-C0699,C09-C1099	Malig neoplasm mouth, pharynx, larynx
Colo-rectal cancer	C18-C2199	Colo-rectal cancer
Lung cancer	C33-C3499	Malig neoplasm trachea, bronchus, lung
Breast cancer	C50-C5099	Breast cancer
Cervical cancer	C53-C5399	Cervical cancer
Thyroid disease	E00-E0599,E890-E89099	Goitre, thyrotoxicosis, hypothyroidism
Diabetes	E10-E1499,E162-E16299	Diabetes, hypoglycaemia
Nutrition	D50-D5399,E40-E4699,E50-E6499,M833-M83399,P923-P92399	Nutritional deficits incl anaemia
Dehydration	E86-E8699,E870-E87099	Hypernatraemia, dehydration/volume depletion
Alcohol-related conditions	F10-F1099,I426-I42699,K290-K29099,K292-K29299, K70-K7099	psychosis, alcoholism, cardiac, gastric or liver damage due to alcohol
Epilepsy	G40-G4199,R560-R56099,R568-R56899	Epilepsy, convulsions
ENT infections	H65-H6899,H70-H7099,J01-J0199,J028-J02999,J038-J03999	Otitis media & mastoiditis, sinusitis, tonsillitis, pharyngitis
Rheumatic fever/heart disease	I00-I0999	Acute rheumatic fever, heart disease
Hypertensive disease	I10-I1599,I674-I67499	Hypertensive disease, hypokalaemia

## 12. Definitions

Ischaemic heart disease	I21,I22,I25,I240,I241,I248,I249	Myocardial infarction, atherosclerosis, chronic IHD
Angina	I20-I2099,R071-R07499	Angina, chest pain
Congestive heart failure	I50-I5099,J81-J8199	Congestive heart failure, acute pulmonary oedema
Stroke	I61-I6199,I63-I669	Intracerebral haemorrhage or occlusion
Respiratory infections	J21-J2199, A481-A48199,J13-J1899, J00-J0099,J06-J0699,J10-J1199,J20-J2099	Common cold & URTI, acute bronchitis, pneumonia, influenza
CORD	J40-J4499,J47-J4799	Acute and chronic bronchitis, emphysema, bronchiectasis
Asthma	J45-J4699	Asthma
Dental conditions	K00- K0699	Dental conditions
Peptic ulcer	K25- K2899	Gastric & duodenal ulcers
Ruptured appendix	K350-K35199	Ruptured appendix
Obstructed hernia	K400-K40199,K403-K40499,K410-K41199,K413-K41499,K420-K42199, K430-K43199,K440-K44199,K450-K45199, K460-K46199	Obstructed or gangrenous inguinal or other hernia
Kidney/urinary infection	N10-N1099,N12-N1299,N136-N13699,N151-N15199,N390-N39099	Pyelonephritis, urinary infections
Cellulitis	A46-A46999,H000-H00099,H010-H01099,H050-H05099,J340-J34099, K122-K12299,L01-L0499,L08-L0899,L980-L98099	Skin infections - carbuncles, abscesses, impetigo, pilonidal cyst
Failure to thrive	R62-R6299,R633-R63399,R64-R6499	Feeding problems, Lack of expected development
Gangrene	R02-R0299	Gangrene
Motor vehicle crashes	E810 - 829	Motor vehicle crashes
Poisoning	E850 - 869	Poisoning
Swimming pool	E8830, 9105, 9106	Swimming pool falls and drowning
Recreation injury	E8840, 8845	Falls from playground equipment
Sport Injury	E8860, 9170, 927	Sport Injury
Fire	E890 - 899	Burns and scalds
Drowning	E910 - 9104, 9107-9109, 984	Drowning
Suicide	E950 - 959, 980-989	Suicide

Data Source NMDS (National Minimum Data Set)