



**Hospital Services**

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14 February 2022

Paul Blackham

**Via email:** [fyi-request-18360-d6f56cbd@requests.fyi.org.nz](mailto:fyi-request-18360-d6f56cbd@requests.fyi.org.nz)

Dear Paul

**Re: OIA request – Heart-related issues**

Thank you for your Official Information Act request, received 28 January, seeking the following information from Waitematā District Health Board (DHB):

**I am seeking the number of people that have visited any/all hospitals and doctor's surgeries within Waitematā DHB for any/all heart related issues, (including but not limited to pericarditis, myocarditis, heart attacks and strokes).**

**The data requested is for the 11 month period from February 2021 until December 2021 inclusive, displayed in month by month format, and compared to the monthly data for the previous three years.**

In response to your request, we are able to provide the following information:

Please note this is hospital data as diagnoses is only made in a secondary setting following referral from a primary care provider. If the GP suspects a heart condition, they will refer the patient to the specialist service (cardiology) at North Shore Hospital, where a diagnosis will be made.

The data requested is included in **Attachment 1**.

A list of the ICD (international classification of condition) codings and corresponding descriptions of the conditions that have been included in the data - please refer to **Attachment 2**.

A slight decline in the numbers in April 2020 is attributable to the first COVID-19 Alert Level 4 lockdown at that time.

I trust that this information is helpful.

Waitematā DHB supports the open disclosure of information to assist community understanding of how we are delivering publicly funded healthcare.

This includes the proactive publication of anonymised Official Information Act responses on our website from 10 working days after they have been released.

If you consider there are good reasons why this response should not be made publicly available, we will be happy to consider your views.

Yours sincerely

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the left.

**Mark Shepherd**  
**Executive Director Hospital Services**  
**Waitematā District Health Board**

Records confirming the diagnosis of heart or stroke conditions are held by the DHB as follows:

**Total discharges of Waitematā DHB patients with heart-related issues from 2018 to 2021 broken down by month**

Year	Month	Total
<b>2018</b>	Jan	1,149
	Feb	1,165
	Mar	1,322
	Apr	1,183
	May	1,403
	Jun	1,353
	Jul	1,399
	Aug	1,500
	Sep	1,371
	Oct	1,329
	Nov	1,406
	Dec	1,246
<b>2018 Total</b>		<b>15,826</b>

Year	Month	Total
<b>2019</b>	Jan	1,263
	Feb	1,117
	Mar	1,340
	Apr	1,243
	May	1,427
	Jun	1,226
	Jul	1,264
	Aug	1,272
	Sep	1,126
	Oct	1,136
	Nov	1,151
	Dec	1,088
<b>2019 Total</b>		<b>14,653</b>

Year	Month	Total
<b>2020</b>	Jan	1,129
	Feb	999
	Mar	1,054
	Apr	750
	May	1,076
	Jun	1,217
	Jul	1,396
	Aug	1,278
	Sep	1,321
	Oct	1,262
	Nov	1,215
	Dec	1,234
<b>2020 Total</b>		<b>13,931</b>

Year	Month	Total
<b>2021</b>	Jan	1,197
	Feb	1,038
	Mar	1,211
	Apr	1,239
	May	1,308
	Jun	1,293
	Jul	1,413
	Aug	1,262
	Sep	1,099
	Oct	1,134
	Nov	1,230
	Dec	1,149
<b>2021 Total</b>		<b>14,573</b>

## Attachment 2 - ICD codes for heart-related issues

ICD code	ICD short description
I010	Acute rheumatic pericarditis
I029	Rheumatic chorea without heart involvement
I058	Other mitral valve diseases
I069	Rheumatic aortic valve disease, unspecified
I079	Tricuspid valve disease, unspecified
I092	Chronic rheumatic pericarditis
I098	Other specified rheumatic heart diseases
I119	Hypertensive heart disease without (congestive) heart failure
I120	Hypertensive kidney disease with kidney failure
I151	Hypertension secondary to other kidney disorders
I158	Other secondary hypertension
I212	Acute transmural myocardial infarction of other sites
I214	Acute subendocardial myocardial infarction
I221	Subsequent myocardial infarction of inferior wall
I228	Subsequent myocardial infarction of other sites
I230	Haemopericardium as current complication following acute myocardial infarction
I241	Dressler's syndrome
I254	Coronary artery aneurysm and dissection
I256	Silent myocardial ischaemia
I00	Rheumatic fever without mention of heart involvement
I012	Acute rheumatic myocarditis
I019	Acute rheumatic heart disease, unspecified
I061	Rheumatic aortic insufficiency
I068	Other rheumatic aortic valve diseases
I259	Chronic ischaemic heart disease, unspecified
I280	Arteriovenous fistula of pulmonary vessels
I281	Aneurysm of pulmonary artery
I289	Disease of pulmonary vessels, unspecified
I310	Chronic adhesive pericarditis
I321	Pericarditis in other infectious and parasitic diseases classified elsewhere
I341	Mitral (valve) prolapse
I070	Tricuspid stenosis
I071	Tricuspid insufficiency
I072	Tricuspid stenosis with insufficiency

ICD code	ICD short description
I078	Other tricuspid valve diseases
I080	Disorders of both mitral and aortic valves
I088	Other multiple valve diseases
I091	Rheumatic diseases of endocardium, valve unspecified
I10	Essential (primary) hypertension
I139	Hypertensive heart and kidney disease, unspecified
I150	Renovascular hypertension
I342	Nonrheumatic mitral (valve) stenosis
I348	Other nonrheumatic mitral valve disorders
I358	Other aortic valve disorders
I360	Nonrheumatic tricuspid (valve) stenosis
I371	Pulmonary valve insufficiency
I379	Pulmonary valve disorder, unspecified
I390	Mitral valve disorders in diseases classified elsewhere
I401	Isolated myocarditis
I208	Other forms of angina pectoris
I209	Angina pectoris, unspecified
I211	Acute transmural myocardial infarction of inferior wall
I231	Atrial septal defect as current complication following acute myocardial infarction
I235	Rupture of papillary muscle as current complication following acute myocardial infarction
I238	Other current complications following acute myocardial infarction
I411	Myocarditis in viral diseases classified elsewhere
I421	Obstructive hypertrophic cardiomyopathy
I425	Other restrictive cardiomyopathy
I432	Cardiomyopathy in nutritional diseases
I444	Left anterior fascicular block
I447	Left bundle-branch block, unspecified
I451	Other and unspecified right bundle-branch block
I454	Nonspecific intraventricular block
I461	Sudden cardiac death, so described
I470	Re-entry ventricular arrhythmia
I249	Acute ischaemic heart disease, unspecified
I255	Ischaemic cardiomyopathy
I271	Kyphoscoliotic heart disease
I278	Other specified pulmonary heart diseases
I279	Pulmonary heart disease, unspecified

ICD code	ICD short description
I288	Other specified diseases of pulmonary vessels
I300	Acute nonspecific idiopathic pericarditis
I479	Paroxysmal tachycardia, unspecified
I480	Paroxysmal atrial fibrillation
I482	Chronic atrial fibrillation
I483	Typical atrial flutter
I491	Atrial premature depolarisation
I493	Ventricular premature depolarisation
I499	Cardiac arrhythmia, unspecified
I501	Left ventricular failure
I511	Rupture of chordae tendineae, not elsewhere classified
I516	Cardiovascular disease, unspecified
I521	Other heart disorders in other infectious and parasitic diseases classified elsewhere
I301	Infective pericarditis
I312	Haemopericardium, not elsewhere classified
I320	Pericarditis in bacterial diseases classified elsewhere
I339	Acute endocarditis, unspecified
I351	Aortic (valve) insufficiency
I361	Nonrheumatic tricuspid (valve) insufficiency
I394	Multiple valve disorders in diseases classified elsewhere
I011	Acute rheumatic endocarditis
I020	Rheumatic chorea with heart involvement
I050	Mitral stenosis
I052	Mitral stenosis with insufficiency
I059	Mitral valve disease, unspecified
I060	Rheumatic aortic stenosis
I062	Rheumatic aortic stenosis with insufficiency
I082	Disorders of both aortic and tricuspid valves
I090	Rheumatic myocarditis
I601	Subarachnoid haemorrhage from middle cerebral artery
I604	Subarachnoid haemorrhage from basilar artery
I609	Subarachnoid haemorrhage, unspecified
I633	Cerebral infarction due to thrombosis of cerebral arteries
I639	Cerebral infarction, unspecified
I423	Endomyocardial (eosinophilic) disease
I424	Endocardial fibroelastosis

ICD code	ICD short description
I426	Alcoholic cardiomyopathy
I427	Cardiomyopathy due to drugs and other external agents
I429	Cardiomyopathy, unspecified
I438	Cardiomyopathy in other diseases classified elsewhere
I443	Other and unspecified atrioventricular block
I131	Hypertensive heart and kidney disease with kidney failure
I132	Hypertensive heart and kidney disease with both (congestive) heart failure and kidney failure
I152	Hypertension secondary to endocrine disorders
I159	Secondary hypertension, unspecified
I201	Angina pectoris with documented spasm
I210	Acute transmural myocardial infarction of anterior wall
I213	Acute transmural myocardial infarction of unspecified site
I452	Bifascicular block
I453	Trifascicular block
I455	Other specified heart block
I469	Cardiac arrest, unspecified
I471	Supraventricular tachycardia
I481	Persistent atrial fibrillation
I489	Atrial fibrillation and atrial flutter, unspecified
I490	Ventricular fibrillation and flutter
I494	Other and unspecified premature depolarisation
I495	Sick sinus syndrome
I509	Heart failure, unspecified
I510	Cardiac septal defect, acquired
I512	Rupture of papillary muscle, not elsewhere classified
I219	Acute myocardial infarction, unspecified
I229	Subsequent myocardial infarction of unspecified site
I234	Rupture of chordae tendineae as current complication following acute myocardial infarction
I240	Coronary thrombosis not resulting in myocardial infarction
I248	Other forms of acute ischaemic heart disease
I250	Atherosclerotic cardiovascular disease, so described
I2510	Atherosclerotic heart disease, of unspecified vessel
I252	Old myocardial infarction
I253	Aneurysm of heart
I514	Myocarditis, unspecified
I515	Myocardial degeneration

ICD code	ICD short description
I520	Other heart disorders in bacterial diseases classified elsewhere
I606	Subarachnoid haemorrhage from other intracranial arteries
I610	Intracerebral haemorrhage in hemisphere, subcortical
I614	Intracerebral haemorrhage in cerebellum
I616	Intracerebral haemorrhage, multiple localised
I258	Other forms of chronic ischaemic heart disease
I260	Pulmonary embolism with mention of acute cor pulmonale
I269	Pulmonary embolism without mention of acute cor pulmonale
I313	Pericardial effusion (noninflammatory)
I328	Pericarditis in other diseases classified elsewhere
I350	Aortic (valve) stenosis
I359	Aortic valve disorder, unspecified
I621	Nontraumatic extradural haemorrhage
I629	Intracranial haemorrhage (nontraumatic), unspecified
I632	Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries
I634	Cerebral infarction due to embolism of cerebral arteries
I635	Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries
I64	Stroke, not specified as haemorrhage or infarction
I378	Other pulmonary valve disorders
I38	Endocarditis, valve unspecified
I393	Pulmonary valve disorders in diseases classified elsewhere
I412	Myocarditis in other infectious and parasitic diseases classified elsewhere
I418	Myocarditis in other diseases classified elsewhere
I422	Other hypertrophic cardiomyopathy
I430	Cardiomyopathy in infectious and parasitic diseases classified elsewhere
I440	Atrioventricular block, first degree
I445	Left posterior fascicular block
I458	Other specified conduction disorders
I459	Conduction disorder, unspecified
I460	Cardiac arrest with successful resuscitation
I472	Ventricular tachycardia
I018	Other acute rheumatic heart disease
I500	Congestive heart failure
I513	Intracardiac thrombosis, not elsewhere classified
I517	Cardiomegaly
I518	Other ill-defined heart diseases



ICD code	ICD short description
I519	Heart disease, unspecified
I528	Other heart disorders in other diseases classified elsewhere
I600	Subarachnoid haemorrhage from carotid siphon and bifurcation
I051	Rheumatic mitral insufficiency
I081	Disorders of both mitral and tricuspid valves
I083	Combined disorders of mitral, aortic and tricuspid valves
I089	Multiple valve disease, unspecified
I099	Rheumatic heart disease, unspecified
I110	Hypertensive heart disease with (congestive) heart failure
I611	Intracerebral haemorrhage in hemisphere, cortical
I618	Other intracerebral haemorrhage
I638	Other cerebral infarction
I129	Hypertensive kidney disease without kidney failure
I130	Hypertensive heart and kidney disease with (congestive) heart failure
I200	Unstable angina
I220	Subsequent myocardial infarction of anterior wall
I232	Ventricular septal defect as current complication following acute myocardial infarction
I233	Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction
I236	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction
I2511	Atherosclerotic heart disease, of native coronary artery
I2512	Atherosclerotic heart disease, of autologous bypass graft
I2513	Atherosclerotic heart disease, of nonautologous bypass graft
I270	Primary pulmonary hypertension
I272	Other secondary pulmonary hypertension
I308	Other forms of acute pericarditis
I309	Acute pericarditis, unspecified
I311	Chronic constrictive pericarditis
I318	Other specified diseases of pericardium
I319	Disease of pericardium, unspecified
I330	Acute and subacute infective endocarditis
I340	Mitral (valve) insufficiency
I349	Nonrheumatic mitral valve disorder, unspecified
I352	Aortic (valve) stenosis with insufficiency
I362	Nonrheumatic tricuspid (valve) stenosis with insufficiency
I368	Other nonrheumatic tricuspid valve disorders
I369	Nonrheumatic tricuspid valve disorder, unspecified

ICD code	ICD short description
I370	Pulmonary valve stenosis
I372	Pulmonary valve stenosis with insufficiency
I391	Aortic valve disorders in diseases classified elsewhere
I392	Tricuspid valve disorders in diseases classified elsewhere
I398	Endocarditis, valve unspecified, in diseases classified elsewhere
I400	Infective myocarditis
I408	Other acute myocarditis
I409	Acute myocarditis, unspecified
I410	Myocarditis in bacterial diseases classified elsewhere
I420	Dilated cardiomyopathy
I428	Other cardiomyopathies
I431	Cardiomyopathy in metabolic diseases
I441	Atrioventricular block, second degree
I442	Atrioventricular block, complete
I446	Other and unspecified fascicular block
I450	Right fascicular block
I456	Pre-excitation syndrome
I484	Atypical atrial flutter
I492	Junctional premature depolarisation
I498	Other specified cardiac arrhythmias
I602	Subarachnoid haemorrhage from anterior communicating artery
I603	Subarachnoid haemorrhage from posterior communicating artery
I605	Subarachnoid haemorrhage from vertebral artery
I607	Subarachnoid haemorrhage from intracranial artery, unspecified
I608	Other subarachnoid haemorrhage
I612	Intracerebral haemorrhage in hemisphere, unspecified
I613	Intracerebral haemorrhage in brain stem
I615	Intracerebral haemorrhage, intraventricular
I619	Intracerebral haemorrhage, unspecified
I620	Subdural haemorrhage (acute)(nontraumatic)
I630	Cerebral infarction due to thrombosis of precerebral arteries
I631	Cerebral infarction due to embolism of precerebral arteries
I636	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic