

25 February 2022

OIA ref: OIA2022012602

Paul Blackham

Email: fyi-request-18331-dfeb6d56@requests.fyi.org.nz

Tēnā koe Paul

Official Information Act request OIA2022012602

Thank you for your Official Information Act request received by Capital & Coast (CCDHB) and Hutt Valley (HVDHB) District Health Boards on 26 January 2022 regarding *Data for hospital presentation of patients with heart related issues*.

You requested:

- *I am seeking the number of people that have visited any/all hospitals and doctor's surgeries within the HDHB 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.*

Due to our two DHBs sharing information, staff, many services, and a single Chief Executive, you are receiving a joint Hutt Valley and Capital & Coast DHB (2DHB) response.

We sincerely apologise for the lateness of this response.

Our joint 2DHB response to your request is outlined below.

Capital & Coast District Health Board

Outpatient Activity

When a patient has a condition that they feel needs treatment they should first see their primary care provider such as their GP, nurse, Māori health provider, optometrist or physiotherapist. They will assess the condition and discuss the best options with the patient, including whether to refer the patient to a specialist.

If the patient is referred to a specialist at a DHB public hospital then the DHB's local clinical staff will first assess how urgent the referral. If accepted a priority will be assigned and arrangements for the patient to see a specialist, which is called a First Specialist Assessment (or FSA), where the specialist assesses the patient's condition at the FSA and recommends the best option of care for the patient.

The table below summarises the number of Cardiology FSAs attendances by calendar year for the 11-month period February to December between 2018 and 2021.

Activity	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cardiology - 1st attendance	2018	210	236	167	312	157	208	216	186	182	263	228	2,365
	2019	188	296	234	263	254	330	258	227	242	222	162	2,676
	2020	205	235	185	212	217	214	263	238	181	206	165	2,321
	2021	195	250	199	296	208	267	179	266	193	219	140	2,412
Specialist Paediatric Cardiac - 1st Attendance	2018	20	7	15	21	27	16	19	12	19	19	16	191
	2019	16	18	*	23	10	12	14	11	14	11	10	144
	2020	13	6	*	*	*	6	*	*	6	*	*	61
	2021	*	*	*	14	12	16	7	16	9	12	6	104

*To avoid identification of patients/activity below 6, this information has been withheld under section 9(2)(a) of the Official Information Act to protect individual privacy, as there appear to be no countervailing public interest considerations under section 9(1), for disclosure to outweigh these patients' privacy interests.

Inpatient Activity

The clinical notes from all inpatient and day patients discharged from New Zealand public hospitals are coded using (ICD-10-AM) and recorded in the hospital's patient management system (PMS).

A primary diagnosis is the condition established to be predominantly responsible for the admission of the patient to the hospital for care. A secondary diagnoses are additional conditions the patient may have and these may or may not contribute to the Primary diagnosis.

The table below summarises the number of discharges by calendar year for the 11-month period February to December between 2018 and 2021 where the clinical coding included a **primary** ICD10 diagnosis code listed in 'Appendix 1 – Heart Related Issue' by reporting group.

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Acute rheumatic fever	2018	0	0	0	*	0	0	0	*	0	0	0	*
	2019	0	0	0	0	0	0	0	*	0	0	0	*
	2020	0	*	0	*	0	0	0	*	0	0	0	*
	2021	0	0	0	0	0	0	*	0	0	0	0	*

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Chronic rheumatic heart diseases	2018	11	13	14	6	11	10	12	10	14	6	13	120
	2019	7	10	10	8	10	8	9	8	6	*	9	90
	2020	9	12	6	10	6	12	14	8	8	7	10	102
	2021	13	14	6	11	7	7	9	9	8	*	*	92
Heart Attack	2018	74	83	77	118	97	107	98	102	86	120	75	1,037
	2019	76	97	88	120	99	120	101	91	90	72	84	1,038
	2020	81	78	75	86	99	101	91	104	109	93	92	1,009
	2021	90	89	105	118	127	112	95	91	111	90	111	1,139
Hypertensive diseases	2018	0	*	*	*	*	*	0	*	0	*	0	11
	2019	*	*	*	*	*	0	*	0	*	*	0	15
	2020	*	0	*	0	*	*	0	*	0	0	*	12
	2021	0	*	*	0	*	*	6	*	*	6	*	29
Ischemic heart diseases	2018	93	126	111	110	82	89	106	95	93	95	77	1,077
	2019	94	130	91	79	84	103	110	80	95	88	83	1,037
	2020	80	99	85	84	95	101	109	97	100	94	85	1,029
	2021	93	96	81	109	85	82	73	107	103	103	85	1,017
Myocarditis	2018	0	*	*	0	0	0	0	*	0	0	0	*
	2019	0	0	0	0	0	*	0	0	*	0	0	*
	2020	0	0	0	0	0	0	*	*	0	*	0	*
	2021	*	0	0	*	0	0	0	0	0	0	0	*
	2018	173	203	147	197	181	190	226	199	218	190	174	2,098

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Other forms of heart disease	2019	172	196	206	219	191	240	222	214	210	214	203	2,287
	2020	209	184	127	205	238	244	227	244	261	228	227	2,394
	2021	218	226	204	230	265	256	181	222	235	202	206	2,445
Pericarditis	2018	6	7	*	9	*	*	10	*	*	*	6	59
	2019	7	7	*	*	6	10	*	*	9	9	*	71
	2020	*	9	*	*	0	8	6	6	12	*	9	64
	2021	12	12	8	*	7	9	9	10	10	11	*	98
Pulmonary heart disease and diseases of pulmonary circulation	2018	17	13	15	12	9	12	11	13	17	9	11	139
	2019	12	10	9	18	17	14	17	14	18	9	17	155
	2020	12	11	9	20	21	14	13	11	13	16	13	153
	2021	18	13	14	15	14	17	11	19	13	13	14	161
Stroke	2018	62	53	66	87	71	57	87	64	72	72	58	749
	2019	83	67	74	49	53	54	80	80	77	78	79	774
	2020	79	72	65	86	87	88	75	81	70	88	90	881
	2021	75	77	69	83	72	74	65	83	86	77	92	853

The apparent growth in 'Other forms of heart disease' can be partly by explained by changes to the coding rules for rehabilitation events who were transferred from Wellington to Kenepuru and an increase in the number of statistical admissions for patient spending longer in the Emergency Department.

To avoid identification of patients/activity below 6, this information has been withheld under section 9(2)(a) of the Official Information Act to protect individual privacy, as there appear to be no countervailing public interest considerations under section 9(1), for disclosure to outweigh these patients' privacy interests.

Hutt Valley District Health Board

Outpatient Activity

The table below summarises the number of Cardiology FSAs attendances by calendar year for the 11-month period February to December between 2018 and 2021.

Activity	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cardiology - 1st attendance	2018	95	84	74	80	54	78	71	73	76	91	64	840
	2019	56	90	79	82	75	101	102	73	109	64	60	891
	2020	81	95	52	49	78	79	68	76	72	81	52	783
	2021	66	96	60	96	67	108	69	95	77	78	65	877

Inpatient Activity

The table below summarises the number of discharges by calendar year for the 11-month period February to December between 2018 and 2021 where the clinical coding included a **primary** ICD10 diagnosis code listed in Appendix 1 by reporting group.

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Acute rheumatic fever	2018	-	-	-	-	-	-	-	-	-	-	*	*
	2019	-	-	-	-	*	-	-	-	-	-	*	*
	2020	-	-	*	-	-	-	-	-	-	*	-	*
	2021	-	-	-	-	-	-	-	-	-	-	-	-
Chronic rheumatic heart diseases	2018	-	*	-	-	-	-	*	-	-	-	*	*
	2019	*	-	*	-	*	-	-	-	*	-	*	6
	2020	*	*	-	-	-	*	*	*	*	-	-	7
	2021	*	*	-	*	-	-	*	*	*	*	*	10

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Heart Attack	2018	20	25	19	32	26	29	27	18	18	25	13	252
	2019	20	22	16	19	14	25	25	16	27	18	12	214
	2020	19	23	14	17	21	17	14	24	24	19	27	219
	2021	20	20	15	27	21	36	24	13	25	24	29	254
Hypertensive diseases	2018	-	-	-	-	*	-	-	*	*	*	-	6
	2019	-	-	-	-	-	-	*	-	-	-	*	*
	2020	-	-	-	-	-	*	*	*	*	-	*	11
	2021	-	-	-	-	-	*	*	*	-	-	*	6
Ischemic heart diseases	2018	9	10	8	8	10	10	*	7	9	7	*	87
	2019	8	7	7	13	*	8	7	9	7	7	6	84
	2020	7	6	*	*	9	7	*	6	9	8	8	68
	2021	*	12	*	*	7	8	*	8	*	6	*	66
Myocarditis	2018	-	-	-	-	-	*	-	-	-	-	-	*
	2019	-	-	-	-	-	-	*	-	-	-	-	*
	2020	-	-	-	-	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-	-	-	-	-
Other forms of heart disease	2018	33	38	52	60	51	54	72	59	60	66	65	610
	2019	48	47	50	64	50	62	66	62	57	66	57	629
	2020	57	35	39	62	51	61	45	63	71	53	58	595

Group Report	Year	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	2021	61	60	54	62	54	54	56	72	72	68	50	663
Pericarditis	2018	*	*	*	*	*	*	*	-	*	-	*	15
	2019	-	*	*	-	*	*	*	*	*	-	*	13
	2020	-	*	*	*	*	*	*	*	*	*	*	20
	2021	*	*	*	*	-	*	*	*	*	*	*	21
Pulmonary heart disease and diseases of pulmonary circulation	2018	7	*	*	*	7	6	6	*	*	6	*	54
	2019	6	*	10	8	7	9	6	*	*	6	*	69
	2020	*	6	11	9	*	*	*	6	*	9	*	66
	2021	*	6	11	6	6	7	7	7	6	6	*	72
Stroke	2018	17	22	27	26	24	21	22	28	28	36	17	268
	2019	11	20	21	18	22	22	24	26	36	30	26	256
	2020	20	31	18	27	20	26	26	30	32	25	31	286
	2021	30	27	31	28	22	35	29	25	24	25	26	302

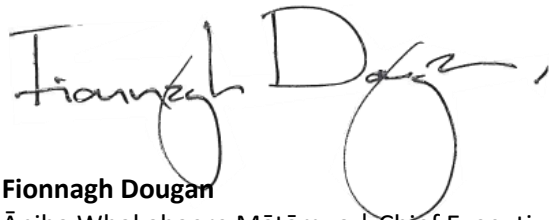
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Neither Capital and Coast DHB or Hutt Valley has access to primary care activity. This information will need to be sourced directly with primary care providers.

I trust this information fulfils your request.

You have the right, under section 28 of the OIA, to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at www.ombudsman.parliament.nz or you can free phone 0800 802 602.

Nāku ite noa, nā

 A handwritten signature in black ink that reads "Fionnagh Dougan".

Fionnagh Dougan

Āpiha Whakahaere Mātāmua | Chief Executive

Ūpoko ki te uru Hauora | Capital & Coast and Hutt Valley District Health Boards

Appendix 1 – ICD Diagnosis Code – Heart Related Issue

ICD Code	ICD Diagnosis Name	Block Category	Reporting Category
I010	Acute rheumatic pericarditis	I01 - Rheumatic fever with heart involvement	Acute rheumatic fever
I011	Acute rheumatic endocarditis	I01 - Rheumatic fever with heart involvement	Acute rheumatic fever
I012	Acute rheumatic myocarditis	I01 - Rheumatic fever with heart involvement	Acute rheumatic fever
I018	Other acute rheumatic heart disease	I01 - Rheumatic fever with heart involvement	Acute rheumatic fever
I019	Acute rheumatic heart disease, unspecified	I01 - Rheumatic fever with heart involvement	Acute rheumatic fever
I020	Rheumatic chorea with heart involvement	I02 - Rheumatic chorea	Acute rheumatic fever
I029	Rheumatic chorea without heart involvement	I02 - Rheumatic chorea	Acute rheumatic fever
I050	Mitral stenosis	I05 - Rheumatic mitral valve diseases	Chronic rheumatic heart diseases
I051	Rheumatic mitral insufficiency	I05 - Rheumatic mitral valve diseases	Chronic rheumatic heart diseases
I052	Mitral stenosis with insufficiency	I05 - Rheumatic mitral valve diseases	Chronic rheumatic heart diseases
I058	Other mitral valve diseases	I05 - Rheumatic mitral valve diseases	Chronic rheumatic heart diseases
I059	Mitral valve disease, unspecified	I05 - Rheumatic mitral valve diseases	Chronic rheumatic heart diseases
I060	Rheumatic aortic stenosis	I06 - Rheumatic aortic valve diseases	Chronic rheumatic heart diseases
I061	Rheumatic aortic insufficiency	I06 - Rheumatic aortic valve diseases	Chronic rheumatic heart diseases
I062	Rheumatic aortic stenosis with insufficiency	I06 - Rheumatic aortic valve diseases	Chronic rheumatic heart diseases
I068	Other rheumatic aortic valve diseases	I06 - Rheumatic aortic valve diseases	Chronic rheumatic heart diseases

I069	Rheumatic aortic valve disease, unspecified	I06 - Rheumatic aortic valve diseases	Chronic rheumatic heart diseases
I070	Tricuspid stenosis	I07 - Rheumatic tricuspid valve diseases	Chronic rheumatic heart diseases
I071	Tricuspid insufficiency	I07 - Rheumatic tricuspid valve diseases	Chronic rheumatic heart diseases
I072	Tricuspid stenosis with insufficiency	I07 - Rheumatic tricuspid valve diseases	Chronic rheumatic heart diseases
I078	Other tricuspid valve diseases	I07 - Rheumatic tricuspid valve diseases	Chronic rheumatic heart diseases
I079	Tricuspid valve disease, unspecified	I07 - Rheumatic tricuspid valve diseases	Chronic rheumatic heart diseases
I080	Disorders of both mitral and aortic valves	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I081	Disorders of both mitral and tricuspid valves	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I082	Disorders of both aortic and tricuspid valves	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I083	Combined disorders of mitral, aortic and tricuspid valves	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I088	Other multiple valve diseases	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I089	Multiple valve disease, unspecified	I08 - Multiple valve diseases	Chronic rheumatic heart diseases
I090	Rheumatic myocarditis	I09 - Other rheumatic heart diseases	Chronic rheumatic heart diseases
I091	Rheumatic diseases of endocardium, valve unspecified	I09 - Other rheumatic heart diseases	Chronic rheumatic heart diseases
I092	Chronic rheumatic pericarditis	I09 - Other rheumatic heart diseases	Chronic rheumatic heart diseases
I098	Other specified rheumatic heart diseases	I09 - Other rheumatic heart diseases	Chronic rheumatic heart diseases
I099	Rheumatic heart disease, unspecified	I09 - Other rheumatic heart diseases	Chronic rheumatic heart diseases

I110	Hypertensive heart disease with (congestive) heart failure	I11 - Hypertensive heart disease	Hypertensive diseases
I119	Hypertensive heart disease without (congestive) heart failure	I11 - Hypertensive heart disease	Hypertensive diseases
I130	Hypertensive heart and kidney disease with (congestive) heart failure	I13 - Hypertensive heart and chronic kidney disease	Hypertensive diseases
I131	Hypertensive heart and kidney disease with kidney failure	I13 - Hypertensive heart and chronic kidney disease	Hypertensive diseases
I132	Hypertensive heart and kidney disease with both (congestive) heart failure and kidney failure	I13 - Hypertensive heart and chronic kidney disease	Hypertensive diseases
I139	Hypertensive heart and kidney disease, unspecified	I13 - Hypertensive heart and chronic kidney disease	Hypertensive diseases
I200	Unstable angina	I20 - Angina pectoris	Ischemic heart diseases
I201	Angina pectoris with documented spasm	I20 - Angina pectoris	Ischemic heart diseases
I208	Other forms of angina pectoris	I20 - Angina pectoris	Ischemic heart diseases
I209	Angina pectoris, unspecified	I20 - Angina pectoris	Ischemic heart diseases
I210	Acute transmural myocardial infarction of anterior wall	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I211	Acute transmural myocardial infarction of inferior wall	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I212	Acute transmural myocardial infarction of other sites	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I213	Acute transmural myocardial infarction of unspecified site	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I214	Acute subendocardial myocardial infarction	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I219	Acute myocardial infarction, unspecified	I21 - ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases

I220	Subsequent myocardial infarction of anterior wall	I22 - Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I221	Subsequent myocardial infarction of inferior wall	I22 - Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I228	Subsequent myocardial infarction of other sites	I22 - Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I229	Subsequent myocardial infarction of unspecified site	I22 - Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Ischemic heart diseases
I230	Haemopericardium as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I231	Atrial septal defect as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I232	Ventricular septal defect as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I233	Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I234	Rupture of chordae tendineae as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I235	Rupture of papillary muscle as current complication following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I236	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I238	Other current complications following acute myocardial infarction	I23 - Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Ischemic heart diseases
I240	Coronary thrombosis not resulting in myocardial infarction	I24 - Other acute ischemic heart diseases	Ischemic heart diseases
I241	Dressler's syndrome	I24 - Other acute ischemic heart diseases	Ischemic heart diseases

I248	Other forms of acute ischaemic heart disease	I24 - Other acute ischemic heart diseases	Ischemic heart diseases
I249	Acute ischaemic heart disease, unspecified	I24 - Other acute ischemic heart diseases	Ischemic heart diseases
I250	Atherosclerotic cardiovascular disease, so described	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I2510	Atherosclerotic heart disease, of unspecified vessel	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I2511	Atherosclerotic heart disease, of native coronary artery	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I2512	Atherosclerotic heart disease, of autologous bypass graft	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I2513	Atherosclerotic heart disease, of nonautologous bypass graft	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I252	Old myocardial infarction	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I253	Aneurysm of heart	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I254	Coronary artery aneurysm and dissection	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I255	Ischaemic cardiomyopathy	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I256	Silent myocardial ischaemia	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I258	Other forms of chronic ischaemic heart disease	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I259	Chronic ischaemic heart disease, unspecified	I25 - Chronic ischemic heart disease	Ischemic heart diseases
I260	Pulmonary embolism with mention of acute cor pulmonale	I26 - Pulmonary embolism	Pulmonary heart disease and diseases of pulmonary circulation
I269	Pulmonary embolism without mention of acute cor pulmonale	I26 - Pulmonary embolism	Pulmonary heart disease and diseases

			of pulmonary circulation
I270	Primary pulmonary hypertension	I27 - Other pulmonary heart diseases	Pulmonary heart disease and diseases of pulmonary circulation
I271	Kyphoscoliotic heart disease	I27 - Other pulmonary heart diseases	Pulmonary heart disease and diseases of pulmonary circulation
I272	Other secondary pulmonary hypertension	I27 - Other pulmonary heart diseases	Pulmonary heart disease and diseases of pulmonary circulation
I278	Other specified pulmonary heart diseases	I27 - Other pulmonary heart diseases	Pulmonary heart disease and diseases of pulmonary circulation
I279	Pulmonary heart disease, unspecified	I27 - Other pulmonary heart diseases	Pulmonary heart disease and diseases of pulmonary circulation
I280	Arteriovenous fistula of pulmonary vessels	I28 - Other diseases of pulmonary vessels	Pulmonary heart disease and diseases of pulmonary circulation
I281	Aneurysm of pulmonary artery	I28 - Other diseases of pulmonary vessels	Pulmonary heart disease and diseases of pulmonary circulation
I288	Other specified diseases of pulmonary vessels	I28 - Other diseases of pulmonary vessels	Pulmonary heart disease and diseases of pulmonary circulation
I289	Disease of pulmonary vessels, unspecified	I28 - Other diseases of pulmonary vessels	Pulmonary heart disease and diseases of pulmonary circulation
I300	Acute nonspecific idiopathic pericarditis	I30 - Acute pericarditis	Other forms of heart disease
I301	Infective pericarditis	I30 - Acute pericarditis	Other forms of heart disease

I308	Other forms of acute pericarditis	I30 - Acute pericarditis	Other forms of heart disease
I309	Acute pericarditis, unspecified	I30 - Acute pericarditis	Other forms of heart disease
I310	Chronic adhesive pericarditis	I31 - Other diseases of pericardium	Other forms of heart disease
I311	Chronic constrictive pericarditis	I31 - Other diseases of pericardium	Other forms of heart disease
I312	Haemopericardium, not elsewhere classified	I31 - Other diseases of pericardium	Other forms of heart disease
I313	Pericardial effusion (noninflammatory)	I31 - Other diseases of pericardium	Other forms of heart disease
I318	Other specified diseases of pericardium	I31 - Other diseases of pericardium	Other forms of heart disease
I319	Disease of pericardium, unspecified	I31 - Other diseases of pericardium	Other forms of heart disease
I320	Pericarditis in bacterial diseases classified elsewhere	I32 - Pericarditis in diseases classified elsewhere	Other forms of heart disease
I321	Pericarditis in other infectious and parasitic diseases classified elsewhere	I32 - Pericarditis in diseases classified elsewhere	Other forms of heart disease
I328	Pericarditis in other diseases classified elsewhere	I32 - Pericarditis in diseases classified elsewhere	Other forms of heart disease
I330	Acute and subacute infective endocarditis	I33 - Acute and subacute endocarditis	Other forms of heart disease
I339	Acute endocarditis, unspecified	I33 - Acute and subacute endocarditis	Other forms of heart disease
I340	Mitral (valve) insufficiency	I34 - Nonrheumatic mitral valve disorders	Other forms of heart disease
I341	Mitral (valve) prolapse	I34 - Nonrheumatic mitral valve disorders	Other forms of heart disease
I342	Nonrheumatic mitral (valve) stenosis	I34 - Nonrheumatic mitral valve disorders	Other forms of heart disease
I348	Other nonrheumatic mitral valve disorders	I34 - Nonrheumatic mitral valve disorders	Other forms of heart disease

1349	Nonrheumatic mitral valve disorder, unspecified	I34 - Nonrheumatic mitral valve disorders	Other forms of heart disease
1350	Aortic (valve) stenosis	I35 - Nonrheumatic aortic valve disorders	Other forms of heart disease
1351	Aortic (valve) insufficiency	I35 - Nonrheumatic aortic valve disorders	Other forms of heart disease
1352	Aortic (valve) stenosis with insufficiency	I35 - Nonrheumatic aortic valve disorders	Other forms of heart disease
1358	Other aortic valve disorders	I35 - Nonrheumatic aortic valve disorders	Other forms of heart disease
1359	Aortic valve disorder, unspecified	I35 - Nonrheumatic aortic valve disorders	Other forms of heart disease
1360	Nonrheumatic tricuspid (valve) stenosis	I36 - Nonrheumatic tricuspid valve disorders	Other forms of heart disease
1361	Nonrheumatic tricuspid (valve) insufficiency	I36 - Nonrheumatic tricuspid valve disorders	Other forms of heart disease
1362	Nonrheumatic tricuspid (valve) stenosis with insufficiency	I36 - Nonrheumatic tricuspid valve disorders	Other forms of heart disease
1368	Other nonrheumatic tricuspid valve disorders	I36 - Nonrheumatic tricuspid valve disorders	Other forms of heart disease
1369	Nonrheumatic tricuspid valve disorder, unspecified	I36 - Nonrheumatic tricuspid valve disorders	Other forms of heart disease
1370	Pulmonary valve stenosis	I37 - Nonrheumatic pulmonary valve disorders	Other forms of heart disease
1371	Pulmonary valve insufficiency	I37 - Nonrheumatic pulmonary valve disorders	Other forms of heart disease
1372	Pulmonary valve stenosis with insufficiency	I37 - Nonrheumatic pulmonary valve disorders	Other forms of heart disease
1378	Other pulmonary valve disorders	I37 - Nonrheumatic pulmonary valve disorders	Other forms of heart disease
1379	Pulmonary valve disorder, unspecified	I37 - Nonrheumatic pulmonary valve disorders	Other forms of heart disease
138	Endocarditis, valve unspecified	I38 - Endocarditis, valve unspecified	Other forms of heart disease

I390	Mitral valve disorders in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I391	Aortic valve disorders in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I392	Tricuspid valve disorders in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I393	Pulmonary valve disorders in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I394	Multiple valve disorders in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I398	Endocarditis, valve unspecified, in diseases classified elsewhere	I39 - Endocarditis and heart valve disorders in diseases classified elsewhere	Other forms of heart disease
I400	Infective myocarditis	I40 - Acute myocarditis	Other forms of heart disease
I401	Isolated myocarditis	I40 - Acute myocarditis	Other forms of heart disease
I408	Other acute myocarditis	I40 - Acute myocarditis	Other forms of heart disease
I409	Acute myocarditis, unspecified	I40 - Acute myocarditis	Other forms of heart disease
I410	Myocarditis in bacterial diseases classified elsewhere	I41 - Myocarditis in diseases classified elsewhere	Other forms of heart disease
I411	Myocarditis in viral diseases classified elsewhere	I41 - Myocarditis in diseases classified elsewhere	Other forms of heart disease
I412	Myocarditis in other infectious and parasitic diseases classified elsewhere	I41 - Myocarditis in diseases classified elsewhere	Other forms of heart disease
I418	Myocarditis in other diseases classified elsewhere	I41 - Myocarditis in diseases classified elsewhere	Other forms of heart disease
I420	Dilated cardiomyopathy	I42 - Cardiomyopathy	Other forms of heart disease
I421	Obstructive hypertrophic cardiomyopathy	I42 - Cardiomyopathy	Other forms of heart disease
I422	Other hypertrophic cardiomyopathy	I42 - Cardiomyopathy	Other forms of heart disease

I423	Endomyocardial (eosinophilic) disease	I42 - Cardiomyopathy	Other forms of heart disease
I424	Endocardial fibroelastosis	I42 - Cardiomyopathy	Other forms of heart disease
I425	Other restrictive cardiomyopathy	I42 - Cardiomyopathy	Other forms of heart disease
I426	Alcoholic cardiomyopathy	I42 - Cardiomyopathy	Other forms of heart disease
I427	Cardiomyopathy due to drugs and other external agents	I42 - Cardiomyopathy	Other forms of heart disease
I428	Other cardiomyopathies	I42 - Cardiomyopathy	Other forms of heart disease
I429	Cardiomyopathy, unspecified	I42 - Cardiomyopathy	Other forms of heart disease
I430	Cardiomyopathy in infectious and parasitic diseases classified elsewhere	I43 - Cardiomyopathy in diseases classified elsewhere	Other forms of heart disease
I431	Cardiomyopathy in metabolic diseases	I43 - Cardiomyopathy in diseases classified elsewhere	Other forms of heart disease
I432	Cardiomyopathy in nutritional diseases	I43 - Cardiomyopathy in diseases classified elsewhere	Other forms of heart disease
I438	Cardiomyopathy in other diseases classified elsewhere	I43 - Cardiomyopathy in diseases classified elsewhere	Other forms of heart disease
I440	Atrioventricular block, first degree	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I441	Atrioventricular block, second degree	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I442	Atrioventricular block, complete	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I443	Other and unspecified atrioventricular block	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I444	Left anterior fascicular block	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I445	Left posterior fascicular block	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease

I446	Other and unspecified fascicular block	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I447	Left bundle-branch block, unspecified	I44 - Atrioventricular and left bundle-branch block	Other forms of heart disease
I450	Right fascicular block	I45 - Other conduction disorders	Other forms of heart disease
I451	Other and unspecified right bundle-branch block	I45 - Other conduction disorders	Other forms of heart disease
I452	Bifascicular block	I45 - Other conduction disorders	Other forms of heart disease
I453	Trifascicular block	I45 - Other conduction disorders	Other forms of heart disease
I454	Nonspecific intraventricular block	I45 - Other conduction disorders	Other forms of heart disease
I455	Other specified heart block	I45 - Other conduction disorders	Other forms of heart disease
I456	Pre-excitation syndrome	I45 - Other conduction disorders	Other forms of heart disease
I458	Other specified conduction disorders	I45 - Other conduction disorders	Other forms of heart disease
I459	Conduction disorder, unspecified	I45 - Other conduction disorders	Other forms of heart disease
I460	Cardiac arrest with successful resuscitation	I46 - Cardiac arrest	Other forms of heart disease
I461	Sudden cardiac death, so described	I46 - Cardiac arrest	Other forms of heart disease
I469	Cardiac arrest, unspecified	I46 - Cardiac arrest	Other forms of heart disease
I470	Re-entry ventricular arrhythmia	I47 - Paroxysmal tachycardia	Other forms of heart disease
I471	Supraventricular tachycardia	I47 - Paroxysmal tachycardia	Other forms of heart disease
I472	Ventricular tachycardia	I47 - Paroxysmal tachycardia	Other forms of heart disease

I479	Paroxysmal tachycardia, unspecified	I47 - Paroxysmal tachycardia	Other forms of heart disease
I480	Paroxysmal atrial fibrillation	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I481	Persistent atrial fibrillation	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I482	Chronic atrial fibrillation	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I483	Typical atrial flutter	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I484	Atypical atrial flutter	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I489	Atrial fibrillation and atrial flutter, unspecified	I48 - Atrial fibrillation and flutter	Other forms of heart disease
I490	Ventricular fibrillation and flutter	I49 - Other cardiac arrhythmias	Other forms of heart disease
I491	Atrial premature depolarisation	I49 - Other cardiac arrhythmias	Other forms of heart disease
I492	Junctional premature depolarisation	I49 - Other cardiac arrhythmias	Other forms of heart disease
I493	Ventricular premature depolarisation	I49 - Other cardiac arrhythmias	Other forms of heart disease
I494	Other and unspecified premature depolarisation	I49 - Other cardiac arrhythmias	Other forms of heart disease
I495	Sick sinus syndrome	I49 - Other cardiac arrhythmias	Other forms of heart disease
I498	Other specified cardiac arrhythmias	I49 - Other cardiac arrhythmias	Other forms of heart disease
I499	Cardiac arrhythmia, unspecified	I49 - Other cardiac arrhythmias	Other forms of heart disease
I500	Congestive heart failure	I50 - Heart failure	Other forms of heart disease
I501	Left ventricular failure	I50 - Heart failure	Other forms of heart disease

I509	Heart failure, unspecified	I50 - Heart failure	Other forms of heart disease
I510	Cardiac septal defect, acquired	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I511	Rupture of chordae tendineae, not elsewhere classified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I512	Rupture of papillary muscle, not elsewhere classified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I513	Intracardiac thrombosis, not elsewhere classified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I514	Myocarditis, unspecified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I515	Myocardial degeneration	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I516	Cardiovascular disease, unspecified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I517	Cardiomegaly	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I518	Other ill-defined heart diseases	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I519	Heart disease, unspecified	I51 - Complications and ill-defined descriptions of heart disease	Other forms of heart disease
I520	Other heart disorders in bacterial diseases classified elsewhere	I52 - Other heart disorders in diseases classified elsewhere	Other forms of heart disease
I521	Other heart disorders in other infectious and parasitic diseases classified elsewhere	I52 - Other heart disorders in diseases classified elsewhere	Other forms of heart disease
I528	Other heart disorders in other diseases classified elsewhere	I52 - Other heart disorders in diseases classified elsewhere	Other forms of heart disease
I600	Subarachnoid haemorrhage from carotid siphon and bifurcation	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I601	Subarachnoid haemorrhage from middle cerebral artery	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I602	Subarachnoid haemorrhage from anterior communicating artery	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases

I603	Subarachnoid haemorrhage from posterior communicating artery	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I604	Subarachnoid haemorrhage from basilar artery	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I605	Subarachnoid haemorrhage from vertebral artery	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I606	Subarachnoid haemorrhage from other intracranial arteries	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I607	Subarachnoid haemorrhage from intracranial artery, unspecified	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I608	Other subarachnoid haemorrhage	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I609	Subarachnoid haemorrhage, unspecified	I60 - Nontraumatic subarachnoid hemorrhage	Cerebrovascular diseases
I610	Intracerebral haemorrhage in hemisphere, subcortical	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I611	Intracerebral haemorrhage in hemisphere, cortical	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I612	Intracerebral haemorrhage in hemisphere, unspecified	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I613	Intracerebral haemorrhage in brain stem	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I614	Intracerebral haemorrhage in cerebellum	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I615	Intracerebral haemorrhage, intraventricular	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I616	Intracerebral haemorrhage, multiple localised	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I618	Other intracerebral haemorrhage	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I619	Intracerebral haemorrhage, unspecified	I61 - Nontraumatic intracerebral hemorrhage	Cerebrovascular diseases
I620	Subdural haemorrhage (acute)(nontraumatic)	I62 - Other and unspecified nontraumatic intracranial hemorrhage	Cerebrovascular diseases

1621	Nontraumatic extradural haemorrhage	I62 - Other and unspecified nontraumatic intracranial hemorrhage	Cerebrovascular diseases
1629	Intracranial haemorrhage (nontraumatic), unspecified	I62 - Other and unspecified nontraumatic intracranial hemorrhage	Cerebrovascular diseases
1630	Cerebral infarction due to thrombosis of precerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1631	Cerebral infarction due to embolism of precerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1632	Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1633	Cerebral infarction due to thrombosis of cerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1634	Cerebral infarction due to embolism of cerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1635	Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	I63 - Cerebral infarction	Cerebrovascular diseases
1636	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	I63 - Cerebral infarction	Cerebrovascular diseases
1638	Other cerebral infarction	I63 - Cerebral infarction	Cerebrovascular diseases
1639	Cerebral infarction, unspecified	I63 - Cerebral infarction	Cerebrovascular diseases
164	Stroke, not specified as haemorrhage or infarction	I64 - Stroke, not specified	Cerebrovascular diseases
1650	Occlusion and stenosis of vertebral artery	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1651	Occlusion and stenosis of basilar artery	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1652	Occlusion and stenosis of carotid artery	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1653	Occlusion and stenosis of multiple and bilateral precerebral arteries	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1658	Occlusion and stenosis of other precerebral artery	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases

1659	Occlusion and stenosis of unspecified precerebral artery	I65 - Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1660	Occlusion and stenosis of middle cerebral artery	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1661	Occlusion and stenosis of anterior cerebral artery	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1662	Occlusion and stenosis of posterior cerebral artery	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1663	Occlusion and stenosis of cerebellar arteries	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1664	Occlusion and stenosis of multiple and bilateral cerebral arteries	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1668	Occlusion and stenosis of other cerebral artery	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1669	Occlusion and stenosis of unspecified cerebral artery	I66 - Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Cerebrovascular diseases
1670	Dissection of cerebral arteries, nonruptured	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1671	Cerebral aneurysm, nonruptured	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1672	Cerebral atherosclerosis	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1673	Progressive vascular leukoencephalopathy	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1674	Hypertensive encephalopathy	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1675	Moyamoya disease	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1676	Nonpyogenic thrombosis of intracranial venous system	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1677	Cerebral arteritis, not elsewhere classified	I67 - Other cerebrovascular diseases	Cerebrovascular diseases
1678	Other specified cerebrovascular diseases	I67 - Other cerebrovascular diseases	Cerebrovascular diseases

1679	Cerebrovascular disease, unspecified	167 - Other cerebrovascular diseases	Cerebrovascular diseases
1680	Cerebral amyloid angiopathy (E85.-+)	168 - Cerebrovascular disorders in diseases classified elsewhere	Cerebrovascular diseases
1681	Cerebral arteritis in infectious and parasitic diseases classified elsewhere	168 - Cerebrovascular disorders in diseases classified elsewhere	Cerebrovascular diseases
1682	Cerebral arteritis in other diseases classified elsewhere	168 - Cerebrovascular disorders in diseases classified elsewhere	Cerebrovascular diseases
1688	Other cerebrovascular disorders in diseases classified elsewhere	168 - Cerebrovascular disorders in diseases classified elsewhere	Cerebrovascular diseases
1690	Sequelae of subarachnoid haemorrhage	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases
1691	Sequelae of intracerebral haemorrhage	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases
1692	Sequelae of other nontraumatic intracranial haemorrhage	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases
1693	Sequelae of cerebral infarction	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases
1694	Sequelae of stroke, not specified as haemorrhage or infarction	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases
1698	Sequelae of other and unspecified cerebrovascular diseases	169 - Sequelae of cerebrovascular disease	Cerebrovascular diseases