

## DATA BRIEF- CARDIO REHAB

### Data Captured

- 2017 Claims and expenditure associated with listed cardiology related procedures (surgical and non-surgical)
- 2017 Claims and expenditure associated with listed cardiology related diagnoses

### Disclaimer & Explanation

Data provided in this response is provided by the Bermuda Health Council and must be cited and authorized prior to publication or use. Bermuda Health Council does not make any guarantees or provide third party validation for the data sources.

Data briefs are created and posted based on input from a variety of stakeholders and are used for multiple applications. The data presented below are by topic, with specifics such as diagnoses codes and procedures codes often coming from the requestor. As a result, the same topic or condition may show different claims data, due to variability in coding selection. Additionally, as information is received, changes in data capture may occur, which may be corroborated by the dates of the request. Due to the nature of procedure coding, many codes are not mutually exclusive to a specific application or specialty, which means values for office visits, for example, may appear in multiple specialty analytics. Additional information is available, with regard to claim type and diagnosis to discern further follow up, as needed. Finally, analytics for “common” coding in any field are strictly based on identically matching values. It is possible other, frequent codes exist, but may not be captured if entered in multiple varied formats.

The data used to generate this brief includes claims data and expenditure from 1 April 2016 to 31 March 2017. For any clarification or follow up information, please email [healthcouncil@bhec.bm](mailto:healthcouncil@bhec.bm). To submit a topic of interest for a data brief, please complete an online [Data Analysis Interest Form](#).

### Data

Surgical Interventions			
Procedure	Description	Claims	Expenditure (Overseas)
<b>33510</b>	Coronary Bypass	0	\$ -
<b>33511</b>			
<b>33512</b>			
<b>33513</b>			
<b>33514</b>			
<b>33515</b>			
<b>33516</b>			
<b>93451</b>	Stents	143	\$ 479,445.66

<b>93452</b>					
<b>93453</b>					
<b>93454</b>					
<b>93455</b>					
<b>93456</b>					
<b>93457</b>					
<b>93458</b>					
<b>93459</b>					
<b>93460</b>					
<b>93461</b>					
<b>93462</b>					
<b>93463</b>					
<b>93464</b>					
<b>93503</b>					
<b>93505</b>					
<b>33470</b>	Value Work	1	\$	851.99	
<b>33471</b>					
<b>33472</b>					
<b>33473</b>					
<b>33474</b>					
<b>33475</b>					
<b>33476</b>					
<b>33477</b>					
<b>33478</b>					
<b>33216</b>	Pacemakers	0	\$	-	
<b>33217</b>					

<b>Non-Surgical Interventions</b>					
<b>Procedure</b>	<b>Description</b>	<b>Claims</b>	<b>Expenditure</b>	<b>Expenditure (Overseas)</b>	
<b>93797</b>	Physician or other qualified health care professional services for outpatient cardiac rehabilitation; with continuous ECG monitoring (per session) [not covered for Phase III or Phase IV]	23	\$ 7,938.75	\$ 7,938.75	
<b>93798</b>					
<b>93015</b>	Cardiovascular stress test using maximal or submaximal treadmill or bicycle exercise, continuous electrocardiographic monitoring, and/or pharmacological stress; with physician supervision, with	1074	\$ 285,056.51	\$ 27,645.21	
<b>93016</b>					
<b>93017</b>					
<b>93018</b>					
<b>93019</b>					

<b>93020</b>	interpretation and report, or				
<b>93021</b>	physician supervision only,				
<b>93022</b>	without interpretation and				
<b>93023</b>	report, or tracing only, without				
<b>93024</b>	interpretation and report, or				
	interpretation and report only				
<b>97110</b>	Therapeutic exercises (strength, endurance, range of motion and flexibility)	18083	\$	1,131,351.89	\$ 48,092.33
<b>97112</b>	Neuromuscular re-education of movement, balance, coordination, kinaesthetic sense, posture and/ or proprioception for sitting and/ or standing activities (PNF)	155	\$	6,587.90	\$ 6,587.90
<b>97140</b>	Manual therapy techniques (mobilization, manual traction, manual lymphatic drainage, manipulation, Instrument assisted soft tissue manipulation)	973	\$	61,739.82	\$ 14,055.98
<b>97530</b>	Therapeutic activities, direct (one on one) patient contact; use of dynamic activities to improve functional performance and involves functional activities such as bending, lifting carrying, reaching, catching or other activities to progressively restore function defined by patient and therapist established goals that may be challenging given patient condition	200	\$	18,178.14	\$ 6,664.14
<b>97161</b>	Physiotherapy evaluation - low complexity	7	\$	1,655.55	\$ 1,655.55
<b>97162</b>	Physiotherapy evaluation - medium complexity	5	\$	540.88	\$ 540.88
<b>97163</b>	Physiotherapy evaluation - high complexity	1	\$	186.56	\$ 186.56
<b>97164</b>	Physiotherapy re-evaluation (change in function/ status, new clinical finding that may impact plan of care/ completion of treatment plan)	1	\$	147.56	\$ 147.56
<b>97165</b>	Occupational Therapy evaluation low	4	\$	1,308.96	\$ 1,308.96
<b>97166</b>	Occupational Therapy evaluation medium	1	\$	347.50	\$ 347.50
<b>97167</b>	Occupational Therapy evaluation high complexity	0	\$	-	\$ -
<b>97168</b>	Occupational Therapy re-evaluation	1	\$	139.00	\$ 139.00

<b>93797</b>	Outpatient cardiac rehabilitation; without continuous ECG monitoring, per session	2	\$	428.04	\$	428.04
<b>G0424</b>	Pulmonary Rehabilitation, including exercise, per hour, per session	0	\$	-	\$	-
<b>G0422</b>	Intensive cardiac rehabilitation - with exercise, per session	0	\$	-	\$	-
<b>G0423</b>	Intensive cardiac rehabilitation - without exercise, per session	0	\$	-	\$	-

ICD 10 Diagnosis	Description	Claims	Expenditure
<b>I02.0</b>	Rheumatic chorea with heart involvement	0	\$ -
<b>I05.0</b>	Rheumatic mitral, aortic, tricuspid, and multiple valve diseases	0	\$ -
<b>I05.1</b>			
<b>I05.2</b>			
<b>I05.3</b>			
<b>I05.4</b>			
<b>I05.5</b>			
<b>I05.6</b>			
<b>I05.7</b>			
<b>I05.8</b>			
<b>I05.9</b>			
<b>I06.1</b>	-	0	\$ -
<b>I08.9</b>	-	0	\$ -
<b>I09.81</b>	Rheumatic heart failure (congestive)	0	\$ -
<b>I11.0</b>	Hypertensive heart disease with heart failure	10	\$ 250.06
<b>I13.0</b>	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4, chronic kidney disease, or unspecified chronic kidney disease	45	\$ 59,575.75
<b>I13.2</b>	Hypertensive heart and chronic kidney disease with heart failure and stage 5 chronic kidney disease or end stage renal disease	0	\$ -
<b>I20.9</b>	Angina pectoris, unspecified [stable]	5	\$ 523.67
<b>I21.A1</b>	Myocardial infarction type 2	0	\$ -

<b>I21.A9</b>	Other myocardial infarction type	0	\$ -
<b>I34.0</b>	Nonrheumatic mitral, tricuspid and pulmonary valve disorders	63	\$ 96,694.07
<b>I34.1</b>			
<b>I34.2</b>			
<b>I34.3</b>			
<b>I34.4</b>			
<b>I34.5</b>			
<b>I34.6</b>			
<b>I34.7</b>			
<b>I34.8</b>			
<b>I34.9</b>			
<b>I36.0</b>			
<b>I36.1</b>			
<b>I36.2</b>			
<b>I36.3</b>			
<b>I36.4</b>			
<b>I36.5</b>			
<b>I36.6</b>			
<b>I36.7</b>			
<b>I36.8</b>			
<b>I36.9</b>			
<b>I37.0</b>			
<b>I37.1</b>			
<b>I37.2</b>			
<b>I37.3</b>			
<b>I37.4</b>			
<b>I37.5</b>			
<b>I37.6</b>			
<b>I37.7</b>			
<b>I37.8</b>			
<b>I37.9</b>			
<b>I42.3</b>	Cardiomyopathy	9	\$ 3,373.12
<b>I42.4</b>			
<b>I42.5</b>			
<b>I42.6</b>			
<b>I42.7</b>			
<b>I46.2</b>	-	6	\$ 3,663.53
<b>I46.3</b>			
<b>I46.4</b>			
<b>I46.5</b>			
<b>I46.6</b>			
<b>I46.7</b>			
<b>I46.8</b>			
<b>I46.9</b>			

<b>I47.2</b>	Ventricular tachycardia	96	\$ 64,027.52
<b>I47.9</b>	Paroxysmal tachycardia, unspecified	0	\$ -
<b>I49.01</b>	Ventricular fibrillation	0	\$ -
<b>I49.02</b>	Ventricular flutter	0	\$ -
<b>I50.1</b>	Heart failure	53	\$ 13,638.38
<b>I50.2</b>			
<b>I50.3</b>			
<b>I50.4</b>			
<b>I50.5</b>			
<b>I50.6</b>			
<b>I50.7</b>			
<b>I50.8</b>			
<b>I50.9</b>			
<b>I97.0</b>			
<b>I97.110</b>			
<b>I97.130</b>			
<b>I97.190</b>			
<b>Z51.89</b>	Encounter for other specified aftercare	60	\$ 23,170.85
<b>Z94.1</b>	Heart transplant status, Presence of fully implantable artificial heart	40	\$ 12,971.00
<b>Z94.2</b>	Lung transplant status	0	\$ -
<b>Z95.1</b>	Presence of aortocoronary bypass graft	12	\$ 1,278.03
<b>Z95.2</b>	Presence of prosthetic heart valve	3	\$ 361.37
<b>Z95.3</b>	Presence of xenogenic heart valve	0	\$ -
<b>Z95.4</b>	Presence of other heart-hyphenvaive replacement	1	\$ 18.69
<b>Z95.5</b>	Presence of coronary angioplasty implant and graft	0	\$ -
<b>Z95.811</b>	Presence of heart assist device	81	\$ 5,908.25
<b>Z95.812</b>			
<b>Z98.61</b>	Coronary angioplasty status	0	\$ -
<b>Z98.89</b>	Other specified postprocedural status [surgery to heart and great vessels]	24	\$ 3,136.26