

Supplementary Appendix

Procedure Type	Oceania March 2019 Procedure Volume	Oceania April 2020 Procedure Volume	Percentage Reduction in Volume	P value*	Rest of World March 2019 Procedure Volume	Rest of World April 2020 Procedure Volume	Percentage Reduction in Volume	P value†
Stress ECG	1449	264	81.8%	<0.001	61872	9950	83.9%	0.003
Stress echo	2265	528	76.7%	<0.001	19853	3405	82.8%	<0.001
Stress SPECT	2481	1381	44.3%	<0.001	72164	17738	75.4%	<0.001
Stress PET	0	0	N/A	N/A	5792	2546	56.0%	N/A
Stress CMR	26	3	88.5%	0.08	3853	1091	71.7%	0.35
Total stress tests	6221	2176	65.0%	<0.001	163534	34730	78.8%	<0.001
CT Calcium Score	626	188	70.0%	<0.001	468	180	61.5%	<0.001
CTCA	2722	1706	37.3%	<0.001	2265	1541	32.0%	<0.001
TTE	13336	6456	51.6%	<0.001	8227	4508	45.2%	0.004
TOE	818	213	74.0%	<0.001	685	190	72.3%	0.03
PET for endocarditis	4	4	0.0%	<0.001	4	2	50.0%	0.14
CMR	451	303	32.8%	<0.001	288	263	8.7%	<0.001
Invasive angiography	3161	2016	36.2%	<0.001	2097	1389	33.8%	0.02
Total angiography (CT + Invasive)	5883	3722	36.7%	<0.001	4362	2930	32.8%	<0.001
TOTAL	27339	13062	52.2%	<0.001	177568	42803	75.9%	<0.001

Table S1. Oceania vs. Rest of the World – Procedure Volumes by Type March 2019 and April 2020.

*P value for percentage reduction in procedure volume within Oceania from March 2019 to April 2020 – calculated using paired t-test.

†P value for difference between percentage reduction in procedure volume within Oceania compared to percentage reduction in Rest of World from March 2019 to April 2020 – calculated using Wilcoxon rank-sum test.

Stress echo = stress echocardiography; Total Stress = combined stress ECG, stress echocardiography & stress SPECT; TTE = transthoracic echocardiography; TOE = transoesophageal echocardiography; CMR = cardiac MRI.

Procedure Type	Metropolitan Centres March 2019 Procedure Volume	Metropolitan Centres April 2020 Procedure Volume	Percentage reduction in volume	Regional Centres March 2019 Procedure Volume	Regional Centres April 2020 Procedure Volume	Percentage reduction in volume	P value†
Stress ECG	725	90	87.6%	724	172	76.2%	0.25
Stress echo	1506	421	72.0%	759	105	86.2%	0.34
Stress SPECT	1400	823	41.2%	1081	557	48.5%	0.40
Stress PET	0	0	N/A	0	0	N/A	N/A
Stress CMR	15	0	100.0%	11	0	100.0%	0.18
Total stress tests	3646	1334	63.4%	2575	834	67.6%	0.21
CT calcium score	355	123	65.4%	271	64	76.4%	0.58
CTCA	1615	1028	36.3%	1107	677	38.8%	0.48
TTE	6837	3633	46.9%	6499	2822	56.6%	0.02
TOE	602	169	71.9%	216	42	80.6%	0.08
PET for endocarditis	0	2	N/A	4	0	100.0%	N/A
CMR	215	164	23.7%	236	139	41.1%	0.18
Invasive angiography	1697	1202	29.2%	1464	813	44.5%	0.46
Total angiography (CT Invasive)	3312	2230	32.7%	2571	1490	42.0%	0.48
TOTAL	14967	7655	48.9%	12372	5391	56.4%	0.29

Table S2. Metropolitan vs Regional Sites – Procedure Volumes March 2019 and April 2020.

†P value for difference between percentage reduction in procedure volume within Metropolitan sites compared to percentage reduction within Regional sites from March 2019 to April 2020 – calculated using Wilcoxon rank-sum test.

Stress echo = stress echocardiography; Total Stress = combined stress ECG, stress echocardiography & stress SPECT; TTE = transthoracic echocardiography; TOE = transoesophageal echocardiography; CMR = cardiac MRI.

Procedure Type	Private Centres March 2019 Procedure Volume	Private Centres April 2020 Procedure Volume	Percentage reduction in volume	Public Centres March 2019 Procedure Volume	Public Centres April 2020 Procedure Volume	Percentage reduction in volume	P value [†]
Stress ECG	463	69	85.1%	986	173	82.5%	0.15
Stress echo	823	314	61.8%	1442	212	85.3%	0.28
Stress SPECT	1147	613	46.6%	1334	767	42.5%	0.54
Stress PET	0	0	N/A	0	0	N/A	N/A
Stress CMR	0	0	N/A	26	0	100.0%	N/A
Total stress tests	2433	996	59.1%	3788	1152	69.6%	0.81
CT calcium score	390	110	71.8%	236	77	67.4%	0.36
CTCA	1170	780	33.3%	1552	925	40.4%	0.44
TTE	2864	1293	54.9%	10472	5162	50.7%	1.00
TOE	121	18	85.1%	697	193	72.3%	0.84
PET for endocarditis	4	0	N/A	0	2	N/A	N/A
CMR	52	48	7.7%	399	255	36.1%	0.24
Invasive angiography	286	167	41.6%	2875	1848	35.7%	0.13
Total angiography (CT + Invasive)	1456	947	35.0%	4427	2773	37.4%	0.44
TOTAL	7320	3412	53.4%	20019	9614	52.0%	0.71

Table S3. Private vs Public Sites – Procedure Volumes March 2019 and April 2020.

[†]P value for difference between percentage reduction in procedure volume within Private sites compared to percentage reduction within Public sites from March 2019 to April 2020 – calculated using Wilcoxon rank-sum test.

Stress echo = stress echocardiography; Total Stress = combined stress ECG, stress echocardiography & stress SPECT; TTE = transthoracic echocardiography; TOE = transoesophageal echocardiography; CMR = cardiac MRI.

Procedure Type	Hospital Centres March 2019 Procedure Volume	Hospital Centres April 2020 Procedure Volume	Percentage reduction in volume	Outpatient Centres March 2019 Procedure Volume	Outpatient Centres April 2020 Procedure Volume	Percentage reduction in volume	P value [†]
Stress ECG	1193	246	79.4%	256	16	93.8%	0.22
Stress echo	1586	286	82.0%	679	240	64.7%	0.07
Stress SPECT	1660	912	45.1%	821	468	43.0%	0.85
Stress PET	0	0	N/A	0	0	N/A	N/A
Stress CMR	26	0	N/A	0	0	N/A	N/A
Total stress tests	4465	1444	67.7%	1756	724	58.8%	0.88
CT calcium score	305	118	61.3%	321	69	78.5%	0.23
CTCA	1941	1150	40.8%	781	555	28.9%	0.23
TTE	11336	5673	50.0%	2000	782	60.9%	0.24
TOE	741	197	73.4%	77	14	81.8%	0.34
PET for endocarditis	0	2	N/A	4	0	100.0%	N/A
CMR	439	290	33.9%	12	13	-8.3%	0.06
Invasive angiography	3056	1963	35.8%	105	52	50.5%	0.86
Total angiography (CT + Invasive)	4997	3113	37.7%	886	607	31.5%	0.23
TOTAL	22283	10837	51.4%	5056	2209	56.3%	0.71

Table S4. Hospital vs Outpatient Sites – Procedure Volumes March 2019 and April 2020.

[†]P value for difference between percentage reduction in procedure volume within Hospital sites compared to percentage reduction within Outpatient sites from March 2019 to April 2020 – calculated using Wilcoxon rank-sum test.

Stress echo = stress echocardiography; Total Stress = combined stress ECG, stress echocardiography & stress SPECT; TTE = transthoracic echocardiography; TOE = transoesophageal echocardiography; CMR = cardiac MRI.

Procedure Type	Teaching Centres March 2019 Procedure Volume	Teaching Centres April 2020 Procedure Volume	Percentage reduction in volume	Non-Teaching Centres March 2019 Procedure Volume	Non-Teaching Centres April 2020 Procedure Volume	Percentage reduction in volume	P value [†]
Stress ECG	1004	185	81.6%	445	77	82.7%	0.06
Stress echo	1457	249	82.9%	808	277	65.7%	0.02
Stress SPECT	1858	1080	41.9%	623	300	51.8%	0.42
Stress PET	0	0	N/A	0	0	N/A	N/A
Stress CMR	26	0	N/A	0	0	N/A	N/A
Total stress tests	4345	1514	65.2%	1876	654	65.1%	0.12
CT calcium score	306	121	60.5%	320	66	79.4%	0.47
CTCA	1812	1136	37.3%	910	569	37.5%	0.76
TTE	10039	5211	48.1%	3297	1244	62.3%	0.06
TOE	731	195	73.3%	87	16	81.6%	0.06
PET for endocarditis	4	2	50.0%	0	0	N/A	N/A
CMR	408	278	31.9%	43	25	41.9%	1.00
Invasive angiography	2832	1840	35.0%	329	175	46.8%	0.31
Total angiography (CT + Invasive)	4644	2976	35.9%	1239	744	40.0%	0.76
TOTAL	20477	10297	49.7%	6862	2749	59.9%	0.39

Table S5. Teaching vs Non-Teaching Sites – Procedure Volumes March 2019 and April 2020.

[†]P value for difference between percentage reduction in procedure volume within Teaching sites compared to percentage reduction within Non-Teaching sites from March 2019 to April 2020 – calculated using Wilcoxon rank-sum test.

Stress echo = stress echocardiography; Total Stress = combined stress ECG, stress echocardiography & stress SPECT; TTE = transthoracic echocardiography; TOE = transoesophageal echocardiography; CMR = cardiac MRI.

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