## Supplementary Table 1. Data items in data request form sent to hospitals for weekly counts

Category	Presentation /diagnosis /treatment /procedure	Suggested A&E Diagnosis /ICD- 10 /OPCS-4 codes	Please note if alternative codes/method used					
Emergency department visits	Total ED visits							
	Cardiac conditions	A&E Diagnosis code <sup>1</sup> : 20						
	Cerebrovascular conditions	A&E Diagnosis code <sup>1</sup> : 21						
	Other vascular conditions	A&E Diagnosis code <sup>1</sup> : 22						
Hospital admissions	Total admissions							
	Total COVID admissions	ICD-10 <sup>2</sup> : U07.1, U07.2						
	Acute coronary syndromes	ICD-10 <sup>2</sup> : I21, I22, I24						
	Heart failure	ICD-10 <sup>2</sup> : I50						
	Acute stroke/TIA	ICD-10 <sup>2</sup> : 160, 161, 163, 164, G45						
	DVT or PE	ICD-10 <sup>2</sup> : I26, I80						
	Peripheral arterial disease	ICD-10 <sup>2</sup> : I70, I73, I74, I77						
	Aortic aneurysms	ICD-10 <sup>2</sup> : I71						
Hospital treatments/procedures	Percutaneous coronary intervention	OPCS-4 <sup>3</sup> : K49, K50, K75						
	CABG	OPCS-4 <sup>3</sup> : K40-K44						
	Cardiac resynchronisation therapy	OPCS-4 <sup>3</sup> : K59						
	Cardiac pacemaker procedures	OPCS-4 <sup>3</sup> : K60						
	Intravenous thrombolysis for acute ischaemic stroke	OPCS-4 <sup>3</sup> : X83.3 and ICD-10 <sup>2</sup> : I63						
	Mechanical thrombectomy for acute ischaemic stroke	OPCS-4 version 4.9 <sup>3</sup> : L35.4 <i>OR</i> OPCS-4 version 4.8 <sup>3</sup> : L71.2 and Y53 and Z35 and ICD-10 <sup>2</sup> : I63						
	Cerebral aneurysm coiling procedures	OPCS-4 <sup>3</sup> : 001-004 and Y53 and Z35						
	Carotid endarterectomy / stenting	OPCS-4 <sup>3</sup> : L29.4, L29.5, L31.4						
	Peripheral angioplasty	OPCS-4 <sup>3</sup> : L54-71						
	Limb revascularisation, bypass or amputation	Bypass OPCS-4: L16-65; Amputation OPCS-4: X09, X10, X11; Revascularisation: L48-L54; L56- L63						
	Aortic aneurysm repair	L18-L23; L25-L28						

## Supplementary Table 2. Percentage reduction in hospital admissions and ED attendances during the Christmas and New Year period\*

	% reduction 2018-2019 (95% Cl)	% reduction 2019-2020 (95% Cl)	% reduction pooled across both years (95% CI)
Hospital admissions	11.2 (10.7-11.8)	13.0 (12.4-13.6)	12.1 (11.7-12.6)
ED attendances	4.0 (3.7-4.4)	8.0 (7.6-8.4)	6.1 (5.8-6.4)

\* comparing the period 16 December 2019 to 12 January 2020 to the immediately preceding period 18 November to 15 December 2019 (and equivalent weeks for the previous year)

## **Supplementary Figure 1.** Relative change in hospital activities compared to before first case of COVID-19 across individual hospitals

	A2	A3	B2	B3	C2	C3	D2	D3	Hos E2	pital E3	F2	F3	G2	G3	H2	H3	12	13	
Total A&E visits	0.95	0.64	0.93	0.62	0.95	0.68	0.92	0.68	LZ	23	12	13	υz	05	0.93	0.58	12	15	
Total A&E VISIts	0.95	0.64	0.93	0.62	0.95	0.68	0.92	0.68					-	-	0.93	0.58			
Total hospital admissions	0.98	0.63	0.98	0.62	0.96	0.70	0.95	0.64	0.96	0.77	0.99	0.48	-	-	0.91	0.33	0.95	0.43	
Cardiac A&E attendances	1.01	0.82	-	-	0.88	0.64	0.90	0.63	-	-	-	-	-	-	0.92	0.79	-	-	
Cardiac admissions	0.96	0.77	0.95	0.69	0.99	0.76	0.94	0.65	0.94	0.75	1.00	0.55	0.91	0.82	0.89	0.34	0.91	1.00	
Cardiac procedures/treatments	1.00	0.76	1.00	0.66	0.97	0.77	1.55	0.60	0.95	0.76	1.01	0.57	1.13	0.85	0.96	0.31	0.91	0.99	F
Cerebrovascular A&E attendances	1.05	0.93	-	-	1.03	0.80	0.95	0.93	-	-	-	-	-	-	0.90	0.73	-	-	
Cerebrovascular admissions	0.98	0.95	0.92	0.78	0.93	0.89	1.09	0.72	1.02	0.73	-	-	-	-	0.97	0.38	-	-	
Cerebrovascular procedures/treatments	0.95	0.90	1.00	0.53	0.77	0.79	0.84	0.75	1.13	0.45	-	-	-	-	0.80	0.31	-	-	
Other vascular A&E attendances	0.87	0.65	-	-	0.85	0.70	1.01	0.85	-	-	-	-	-	-			-	-	
Other vascular admissions	1.01	0.84	0.96	0.66	0.94	0.65	0.94	0.58	0.83	0.64	1.02	0.57	-	-	0.85	0.30	-	-	
Other vascular procedures/treatments	0.98	0.58	1.05	0.62	0.95	0.50	1.04	0.72	0.89	0.37	1.09	0.97	-	-	1.02	0.16	-	-	

Hospitals are represented as A to I with affix referring to the phase: 2 = between first case and lockdown; 3 = after lockdown.