

Supplementary Table 1: Detailed demography and patient outcomes by trust (anonymised)

Trust	Age			Male		Deaths		AKI 1		AKI 2		AKI 3		AKI 1 deaths		AKI 2 deaths		AKI 3 deaths	
	N	Median	IQR	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Total	250,504	78.0	(67.0 ,85.9)	124,183	49.6	71,742	28.6	217,182	86.7	24,654	9.8	8,668	3.5	57,982	26.7	10,017	40.6	3,743	43.2
1	6,073	74.4	(62.2 ,82.9)	3,120	51.4	1,584	26.1	5,367	88.4	514	8.5	192	3.2	1,293	24.1	211	41.1	80	41.7
2	5,785	78.6	(68.7 ,86.1)	3,056	52.8	1,362	23.5	5,150	89.0	488	8.4	147	2.5	1,128	21.9	176	36.1	58	39.5
3	5,755	70.6	(57.4 ,81.8)	2,926	50.8	1,706	29.6	5,009	87.0	571	9.9	175	3.0	1,427	28.5	207	36.3	72	41.1
4	5,368	74.4	(61.5 ,83.7)	2,819	52.5	1,522	28.4	4,549	84.7	589	11.0	230	4.3	1,190	26.2	226	38.4	106	46.1
5	4,950	73.6	(60.8 ,83.0)	2,573	52.0	1,033	20.9	4,401	88.9	439	8.9	110	2.2	837	19.0	149	33.9	47	42.7
6	4,922	75.1	(63.4 ,83.9)	2,691	54.7	1,267	25.7	4,262	86.6	470	9.5	190	3.9	1,046	24.5	162	34.5	59	31.1
7	4,640	79.1	(68.9 ,86.3)	2,266	48.8	1,420	30.6	4,050	87.3	443	9.5	147	3.2	1,145	28.3	203	45.8	72	49.0
8	4,315	79.3	(68.8 ,86.7)	2,063	47.8	1,165	27.0	3,806	88.2	382	8.9	127	2.9	955	25.1	160	41.9	50	39.4
9	4,092	79.4	(70.0 ,86.6)	1,969	48.1	1,207	29.5	3,611	88.2	356	8.7	125	3.1	992	27.5	159	44.7	56	44.8
10	3,983	80.5	(71.4 ,87.3)	2,020	50.7	1,140	28.6	3,518	88.3	339	8.5	126	3.2	911	25.9	158	46.6	71	56.3
11	3,846	78.8	(67.1 ,86.7)	1,851	48.1	910	23.7	3,409	88.6	327	8.5	110	2.9	759	22.3	110	33.6	41	37.3
12	3,844	79.3	(69.2 ,87.0)	1,780	46.3	1,213	31.6	3,240	84.3	477	12.4	127	3.3	960	29.6	202	42.3	51	40.2
13	3,620	77.9	(68.4 ,85.5)	1,821	50.3	952	26.3	3,136	86.6	366	10.1	118	3.3	740	23.6	154	42.1	58	49.2
14	3,604	76.0	(66.3 ,84.5)	1,898	52.7	953	26.4	3,035	84.2	421	11.7	148	4.1	722	23.8	161	38.2	70	47.3
15	3,558	77.7	(67.4 ,85.3)	1,825	51.3	993	27.9	2,944	82.7	451	12.7	163	4.6	775	26.3	149	33.0	69	42.3
16	3,545	79.5	(69.1 ,86.8)	1,733	48.9	1,032	29.1	3,099	87.4	336	9.5	110	3.1	862	27.8	119	35.4	51	46.4
17	3,447	78.2	(67.7 ,85.6)	1,578	45.8	1,054	30.6	2,997	86.9	344	10.0	106	3.1	871	29.1	138	40.1	45	42.5
18	3,263	71.6	(57.6 ,83.3)	1,627	49.9	731	22.4	2,868	87.9	288	8.8	107	3.3	603	21.0	98	34.0	30	28.0
19	3,244	74.2	(61.5 ,83.6)	1,625	50.1	861	26.5	2,813	86.7	333	10.3	98	3.0	707	25.1	115	34.5	39	39.8
20	3,199	74.4	(60.5 ,84.3)	1,830	57.2	845	26.4	2,767	86.5	320	10.0	112	3.5	698	25.2	103	32.2	44	39.3
21	3,185	76.9	(67.8 ,84.8)	1,633	51.3	646	20.3	2,760	86.7	293	9.2	132	4.1	534	19.3	81	27.6	31	23.5
22	3,148	77.8	(67.7 ,85.5)	1,560	49.6	1,027	32.6	2,682	85.2	329	10.5	137	4.4	825	30.8	149	45.3	53	38.7
23	3,122	76.9	(65.5 ,85.2)	1,513	48.5	894	28.6	2,744	87.9	285	9.1	93	3.0	740	27.0	125	43.9	29	31.2
24	3,081	66.0	(51.8 ,77.3)	1,509	49.0	919	29.8	2,605	84.6	329	10.7	147	4.8	706	27.1	144	43.8	69	46.9
25	3,049	78.6	(69.1 ,86.1)	1,426	46.8	988	32.4	2,581	84.7	335	11.0	133	4.4	756	29.3	159	47.5	73	54.9
26	3,035	77.5	(66.4 ,85.5)	1,483	48.9	650	21.4	2,738	90.2	243	8.0	54	1.8	545	19.9	85	35.0	20	37.0
27	2,905	74.5	(63.1 ,82.8)	1,597	55.0	725	25.0	2,564	88.3	253	8.7	88	3.0	588	22.9	96	37.9	41	46.6
28	2,893	75.6	(64.8 ,83.6)	1,335	46.1	870	30.1	2,481	85.8	305	10.5	107	3.7	683	27.5	138	45.2	49	45.8
29	2,880	80.4	(69.7 ,87.5)	1,469	51.0	733	25.5	2,439	84.7	332	11.5	109	3.8	573	23.5	127	38.3	33	30.3
30	2,861	79.7	(70.8 ,86.4)	1,459	51.0	841	29.4	2,482	86.8	283	9.9	96	3.4	669	27.0	120	42.4	52	54.2
31	2,835	82.6	(72.3 ,88.5)	1,309	46.2	920	32.5	2,437	86.0	273	9.6	125	4.4	752	30.9	114	41.8	54	43.2
32	2,813	81.3	(70.5 ,88.2)	1,292	45.9	844	30.0	2,443	86.8	285	10.1	85	3.0	682	27.9	128	44.9	34	40.0
33	2,793	73.9	(62.4 ,83.0)	1,473	52.7	830	29.7	2,405	86.1	271	9.7	117	4.2	683	28.4	102	37.6	45	38.5
34	2,732	74.8	(63.2 ,82.8)	1,313	48.1	675	24.7	2,382	87.2	247	9.0	103	3.8	560	23.5	73	29.6	42	40.8
35	2,699	77.4	(67.5 ,85.4)	1,410	52.2	818	30.3	2,339	86.7	281	10.4	79	2.9	650	27.8	128	45.6	40	50.6
36	2,693	80.4	(70.2 ,87.2)	1,534	57.0	610	22.7	2,417	89.8	223	8.3	53	2.0	521	21.6	72	32.3	17	32.1
37	2,693	72.5	(58.9 ,82.3)	1,286	47.8	652	24.2	2,384	88.5	225	8.4	84	3.1	545	22.9	77	34.2	30	35.7
38	2,662	79.1	(69.0 ,86.1)	1,183	44.4	760	28.5	2,328	87.5	269	10.1	65	2.4	617	26.5	106	39.4	37	56.9
39	2,636	78.1	(67.9 ,85.5)	1,268	48.1	997	37.8	2,269	86.1	223	8.5	144	5.5	792	34.9	118	52.9	87	60.4
40	2,614	80.6	(71.8 ,87.3)	1,272	48.7	808	30.9	2,297	87.9	257	9.8	60	2.3	694	30.2	98	38.1	16	26.7

Trust	Age			Male		Deaths		AKI 1		AKI 2		AKI 3		AKI 1 deaths		AKI 2 deaths		AKI 3 deaths	
	N	Median	IQR	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
41	2,570	78.5	(68.3,86.2)	1,243	48.4	553	21.5	2,274	88.5	213	8.3	83	3.2	460	20.2	66	31.0	27	32.5
42	2,536	78.8	(68.7,85.8)	1,190	46.9	809	31.9	2,218	87.5	254	10.0	64	2.5	669	30.2	110	43.3	30	46.9
43	2,524	80.7	(71.5,88.0)	1,207	47.8	827	32.8	2,151	85.2	250	9.9	123	4.9	664	30.9	112	44.8	51	41.5
44	2,518	72.9	(61.5,82.5)	1,240	49.2	752	29.9	2,195	87.2	225	8.9	98	3.9	629	28.7	83	36.9	40	40.8
45	2,503	77.2	(67.0,85.4)	1,270	50.7	564	22.5	2,250	89.9	196	7.8	57	2.3	465	20.7	70	35.7	29	50.9
46	2,494	75.8	(63.9,84.8)	1,327	53.2	544	21.8	2,260	90.6	179	7.2	55	2.2	484	21.4	46	25.7	14	25.5
47	2,474	81.4	(71.2,87.8)	1,218	49.2	695	28.1	2,131	86.1	258	10.4	85	3.4	561	26.3	93	36.0	41	48.2
48	2,409	80.6	(70.8,87.4)	1,167	48.4	730	30.3	2,148	89.2	209	8.7	52	2.2	613	28.5	92	44.0	25	48.1
49	2,406	82.9	(73.3,88.9)	1,061	44.1	815	33.9	2,056	85.5	254	10.6	96	4.0	643	31.3	119	46.9	53	55.2
50	2,400	78.8	(66.5,86.1)	1,186	49.4	610	25.4	2,118	88.3	202	8.4	80	3.3	502	23.7	78	38.6	30	37.5
51	2,378	81.0	(71.0,87.5)	1,231	51.8	664	27.9	2,162	90.9	168	7.1	48	2.0	575	26.6	68	40.5	21	43.8
52	2,373	80.8	(70.9,87.8)	1,187	50.0	794	33.5	2,040	86.0	252	10.6	81	3.4	641	31.4	120	47.6	33	40.7
53	2,269	77.9	(65.1,86.1)	1,113	49.1	633	27.9	1,924	84.8	283	12.5	62	2.7	504	26.2	112	39.6	17	27.4
54	2,267	79.4	(69.1,86.7)	1,144	50.5	779	34.4	1,923	84.8	255	11.2	89	3.9	619	32.2	121	47.5	39	43.8
55	2,232	80.1	(70.8,87.6)	1,113	49.9	730	32.7	1,927	86.3	211	9.5	94	4.2	606	31.4	90	42.7	34	36.2
56	2,210	79.7	(69.1,86.9)	1,071	48.5	670	30.3	1,969	89.1	178	8.1	63	2.9	565	28.7	79	44.4	26	41.3
57	2,185	73.0	(60.9,82.3)	1,211	55.4	428	19.6	1,991	91.1	142	6.5	52	2.4	372	18.7	41	28.9	15	28.8
58	2,120	78.3	(67.3,85.2)	983	46.4	606	28.6	1,832	86.4	216	10.2	72	3.4	483	26.4	93	43.1	30	41.7
59	2,093	80.7	(71.6,87.0)	992	47.4	690	33.0	1,803	86.1	212	10.1	78	3.7	556	30.8	95	44.8	39	50.0
60	2,017	77.0	(64.9,84.8)	897	44.5	590	29.3	1,784	88.4	185	9.2	48	2.4	482	27.0	85	45.9	23	47.9
61	2,003	80.0	(69.4,86.6)	995	49.7	626	31.3	1,712	85.5	215	10.7	76	3.8	501	29.3	95	44.2	30	39.5
62	1,963	76.7	(66.0,85.2)	971	49.5	539	27.5	1,353	68.9	345	17.6	265	13.5	280	20.7	126	36.5	133	50.2
63	1,928	74.3	(61.6,83.5)	986	51.1	511	26.5	1,667	86.5	187	9.7	74	3.8	405	24.3	76	40.6	30	40.5
64	1,896	81.7	(72.0,88.0)	963	50.8	482	25.4	1,652	87.1	184	9.7	60	3.2	395	23.9	67	36.4	20	33.3
65	1,883	74.6	(63.6,82.9)	862	45.8	526	27.9	1,651	87.7	184	9.8	48	2.5	426	25.8	76	41.3	24	50.0
66	1,883	79.4	(70.3,86.9)	899	47.7	608	32.3	1,636	86.9	183	9.7	64	3.4	506	30.9	74	40.4	28	43.8
67	1,820	80.3	(71.1,86.9)	894	49.1	636	34.9	1,558	85.6	209	11.5	53	2.9	503	32.3	100	47.8	33	62.3
68	1,775	78.9	(67.2,86.4)	831	46.8	573	32.3	1,522	85.7	190	10.7	63	3.5	450	29.6	97	51.1	26	41.3
69	1,712	81.1	(70.1,88.1)	894	52.2	460	26.9	1,495	87.3	181	10.6	36	2.1	374	25.0	69	38.1	17	47.2
70	1,694	77.0	(68.3,84.4)	873	51.5	448	26.4	1,517	89.6	135	8.0	42	2.5	381	25.1	49	36.3	18	42.9
71	1,685	78.1	(67.4,86.2)	877	52.0	514	30.5	1,433	85.0	166	9.9	86	5.1	399	27.8	78	47.0	37	43.0
72	1,671	77.4	(68.4,84.8)	741	44.3	611	36.6	1,383	82.8	216	12.9	72	4.3	477	34.5	96	44.4	38	52.8
73	1,619	81.9	(72.8,88.5)	847	52.3	457	28.2	1,380	85.2	156	9.6	83	5.1	372	27.0	55	35.3	30	36.1
74	1,575	77.8	(67.3,85.8)	768	48.8	529	33.6	1,372	87.1	152	9.7	51	3.2	438	31.9	68	44.7	23	45.1
75	1,564	79.8	(68.0,86.8)	832	53.2	548	35.0	1,354	86.6	163	10.4	47	3.0	445	32.9	80	49.1	23	48.9
76	1,560	79.5	(69.6,86.7)	797	51.1	582	37.3	1,308	83.8	184	11.8	68	4.4	465	35.6	88	47.8	29	42.6
77	1,559	79.4	(68.0,86.8)	690	44.3	468	30.0	1,284	82.4	197	12.6	78	5.0	343	26.7	95	48.2	30	38.5
78	1,553	78.0	(67.5,85.6)	759	48.9	423	27.2	1,385	89.2	127	8.2	41	2.6	347	25.1	59	46.5	17	41.5
79	1,528	79.2	(69.4,87.3)	754	49.3	434	28.4	1,356	88.7	130	8.5	42	2.7	362	26.7	55	42.3	17	40.5
80	1,518	80.7	(71.5,87.2)	659	43.4	501	33.0	1,263	83.2	176	11.6	79	5.2	396	31.4	66	37.5	39	49.4
81	1,517	81.6	(72.0,87.9)	707	46.6	437	28.8	1,250	82.4	189	12.5	78	5.1	335	26.8	69	36.5	33	42.3
82	1,466	79.2	(70.0,86.2)	670	45.7	599	40.9	1,233	84.1	153	10.4	80	5.5	460	37.3	91	59.5	48	60.0
83	1,451	81.3	(71.8,87.4)	676	46.6	489	33.7	1,243	85.7	152	10.5	56	3.9	385	31.0	70	46.1	34	60.7
84	1,442	78.3	(67.9,86.4)	774	53.7	504	35.0	1,212	84.0	166	11.5	64	4.4	393	32.4	83	50.0	28	43.8

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	N	Median	IQR	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
85	1,421	77.4	(67.2,85.5)	707	49.8	521	36.7	1,211	85.2	157	11.0	53	3.7	400	33.0	93	59.2	28	52.8
86	1,420	79.8	(69.8,87.0)	697	49.1	472	33.2	1,251	88.1	118	8.3	51	3.6	395	31.6	53	44.9	24	47.1
87	1,354	78.9	(66.7,86.5)	624	46.1	438	32.3	1,141	84.3	149	11.0	64	4.7	334	29.3	74	49.7	30	46.9
88	1,344	80.1	(70.6,86.7)	630	46.9	488	36.3	1,024	76.2	227	16.9	93	6.9	337	32.9	104	45.8	47	50.5
89	1,343	76.6	(64.7,84.2)	610	45.4	416	31.0	1,162	86.5	142	10.6	39	2.9	336	28.9	63	44.4	17	43.6
90	1,331	80.8	(73.1,87.4)	629	47.3	415	31.2	1,173	88.1	123	9.2	35	2.6	344	29.3	53	43.1	18	51.4
91	1,317	80.1	(70.1,87.2)	628	47.7	438	33.3	1,151	87.4	133	10.1	33	2.5	353	30.7	68	51.1	17	51.5
92	1,214	80.1	(69.6,87.5)	544	44.8	401	33.0	1,076	88.6	116	9.6	22	1.8	345	32.1	47	40.5	9	40.9
93	1,189	80.8	(71.3,87.4)	585	49.2	391	32.9	1,030	86.6	117	9.8	42	3.5	314	30.5	52	44.4	25	59.5
94	1,146	81.5	(71.6,88.2)	523	45.6	337	29.4	1,011	88.2	104	9.1	31	2.7	279	27.6	46	44.2	12	38.7
95	1,100	81.3	(71.6,87.8)	517	47.0	288	26.2	986	89.6	88	8.0	26	2.4	251	25.5	26	29.5	11	42.3
96	1,077	81.2	(71.5,87.8)	503	46.7	356	33.1	929	86.3	118	11.0	30	2.8	289	31.1	54	45.8	13	43.3
97	1,000	80.7	(71.8,86.9)	509	50.9	328	32.8	834	83.4	120	12.0	46	4.6	259	31.1	52	43.3	17	37.0
98	964	72.4	(57.0,82.9)	504	52.3	208	21.6	832	86.3	102	10.6	30	3.1	173	20.8	29	28.4	6	20.0
99	897	73.6	(62.4,82.8)	477	53.2	255	28.4	772	86.1	84	9.4	41	4.6	201	26.0	39	46.4	15	36.6
100	795	81.2	(71.3,88.3)	378	47.5	250	31.4	696	87.5	81	10.2	18	2.3	208	29.9	30	37.0	12	66.7
101	777	81.0	(71.4,88.2)	373	48.0	225	29.0	678	87.3	78	10.0	21	2.7	186	27.4	31	39.7	8	38.1
102	636	80.4	(70.2,87.6)	292	45.9	196	30.8	567	89.2	57	9.0	12	1.9	163	28.7	26	45.6	7	58.3
103	554	81.4	(72.4,87.1)	288	52.0	174	31.4	475	85.7	63	11.4	16	2.9	148	31.2	22	34.9	4	25.0