

Supplementary Table S3: Table 1's categorical approach					
	Overall	ABC No Burden	ABC Low Burden	ABC High Burden	p-value
<b>n</b>	27092	25096	252	1744	
<b>Died, n (%)</b>	913 (3.4)	781 (3.1)	7 (2.8)	125 (7.2)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 10.00]	8.00 [6.00, 13.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.88 (7.64)	77.46 (7.68)	81.02 (7.71)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	10379 (41.4)	112 (44.4)	441 (25.3)	
76-85 years	11012 (40.6)	10153 (40.5)	90 (35.7)	769 (44.1)	
86-95 years	4958 (18.3)	4397 (17.5)	47 (18.7)	514 (29.5)	
>95 years	190 (0.7)	167 (0.7)	3 (1.2)	20 (1.1)	
<b>Female sex, n (%)</b>	14014 (51.7)	12930 (51.5)	135 (53.6)	949 (54.4)	0.055
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	13455 (53.6)	218 (86.5)	1446 (82.9)	<0.001
Surgical department	11973 (44.2)	11641 (46.4)	34 (13.5)	298 (17.1)	
<b>Hearing device, n (%)</b>					0.001
None	15674 (57.9)	14539 (57.9)	134 (53.2)	1001 (57.4)	
Hearing device	2976 (11.0)	2708 (10.8)	29 (11.5)	239 (13.7)	
Missing	8442 (31.2)	7849 (31.3)	89 (35.3)	504 (28.9)	
<b>Visual aid, n (%)</b>					0.074
None	4956 (18.3)	4579 (18.2)	35 (13.9)	342 (19.6)	
Glasses or contacts	13630 (50.3)	12608 (50.2)	129 (51.2)	893 (51.2)	
Missing	8506 (31.4)	7909 (31.5)	88 (34.9)	509 (29.2)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1309 (5.2)	11 (4.4)	122 (7.0)	0.005
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3584 (14.3)	45 (17.9)	1122 (64.3)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	3326 (13.3)	49 (19.4)	316 (18.1)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	3272 (13.0)	13 (5.2)	177 (10.1)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	2390 (9.5)	13 (5.2)	192 (11.0)	0.007
<b>COPD, n (%)</b>	3041 (11.2)	2630 (10.5)	78 (31.0)	333 (19.1)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	739 (2.9)	5 (2.0)	54 (3.1)	0.621
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	507 (2.0)	4 (1.6)	31 (1.8)	0.701
<b>Liverdisease, n (%)</b>	541 (2.0)	483 (1.9)	8 (3.2)	50 (2.9)	0.01
<b>Diabetes, n (%)</b>	5692 (21.0)	5144 (20.5)	44 (17.5)	504 (28.9)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	1159 (4.6)	7 (2.8)	66 (3.8)	0.108
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	5321 (21.2)	46 (18.3)	809 (46.4)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	4346 (17.3)	55 (21.8)	224 (12.8)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1537 (6.1)	10 (4.0)	148 (8.5)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	38.00 [35.00, 40.00]	36.00 [31.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [19.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 3.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	7129 (28.4)	25 (9.9)	719 (41.2)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	8458 (33.7)	22 (8.7)	196 (11.2)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 81.00]	71.00 [49.00, 84.00]	50.00 [33.50, 68.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [70.00, 113.50]	82.00 [66.00, 109.00]	104.50 [81.00, 143.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	136.50 [134.00, 140.00]	138.50 [135.50, 141.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	3.95 [3.70, 4.20]	4.10 [3.80, 4.45]	<0.001
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.00]	25.00 [15.00, 57.00]	21.00 [13.00, 39.00]	0.052
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	27.00 [21.00, 40.00]	27.00 [21.00, 39.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.50 [2.40, 55.00]	56.00 [18.15, 123.89]	16.00 [4.85, 54.98]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	7447 (29.7)	27 (10.7)	410 (23.5)	
5-10	2680 (9.9)	2440 (9.7)	13 (5.2)	227 (13.0)	
10-50	6070 (22.4)	5426 (21.6)	76 (30.2)	568 (32.6)	
>50	6116 (22.6)	5562 (22.2)	124 (49.2)	430 (24.7)	
Missing	4342 (16.0)	4221 (16.8)	12 (4.8)	109 (6.2)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.85 [36.40, 37.30]	36.60 [36.27, 36.90]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.49 (19.80)	129.02 (17.70)	130.08 (19.06)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.00 (11.68)	70.06 (10.46)	70.75 (11.73)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.03 (5.16)	25.46 (5.70)	27.03 (6.26)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.34 (3.76)	10.13 (3.88)	10.24 (3.73)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	2.00 (0.00)	4.91 (2.34)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	AEC No Burden	AEC Low Burden	AEC High Burden	p-value
<b>n</b>	27092	20728	4784	1580	
<b>Died, n (%)</b>	913 (3.4)	611 (2.9)	203 (4.2)	99 (6.3)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 11.00]	7.00 [5.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.60 (7.66)	79.33 (7.55)	80.56 (7.55)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	8926 (43.1)	1578 (33.0)	428 (27.1)	
76-85 years	11012 (40.6)	8182 (39.5)	2123 (44.4)	707 (44.7)	
86-95 years	4958 (18.3)	3489 (16.8)	1046 (21.9)	423 (26.8)	
>95 years	190 (0.7)	131 (0.6)	37 (0.8)	22 (1.4)	
<b>Female sex, n (%)</b>	14014 (51.7)	10471 (50.5)	2673 (55.9)	870 (55.1)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	10726 (51.7)	3236 (67.6)	1157 (73.2)	<0.001
Surgical department	11973 (44.2)	10002 (48.3)	1548 (32.4)	423 (26.8)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	11929 (57.6)	2822 (59.0)	923 (58.4)	
Hearing device	2976 (11.0)	2118 (10.2)	659 (13.8)	199 (12.6)	
Missing	8442 (31.2)	6681 (32.2)	1303 (27.2)	458 (29.0)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3639 (17.6)	937 (19.6)	380 (24.1)	
Glasses or contacts	13630 (50.3)	10351 (49.9)	2539 (53.1)	740 (46.8)	
Missing	8506 (31.4)	6738 (32.5)	1308 (27.3)	460 (29.1)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1119 (5.4)	255 (5.3)	68 (4.3)	0.174
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3189 (15.4)	1180 (24.7)	382 (24.2)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2688 (13.0)	784 (16.4)	219 (13.9)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2678 (12.9)	560 (11.7)	224 (14.2)	0.018
<b>Dementia, n (%)</b>	2595 (9.6)	1465 (7.1)	627 (13.1)	503 (31.8)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1943 (9.4)	904 (18.9)	194 (12.3)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	335 (1.6)	394 (8.2)	69 (4.4)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	409 (2.0)	96 (2.0)	37 (2.3)	0.601
<b>Liverdisease, n (%)</b>	541 (2.0)	424 (2.0)	87 (1.8)	30 (1.9)	0.575
<b>Diabetes, n (%)</b>	5692 (21.0)	4201 (20.3)	1123 (23.5)	368 (23.3)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	941 (4.5)	196 (4.1)	95 (6.0)	0.007
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	4175 (20.1)	1503 (31.4)	498 (31.5)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3557 (17.2)	809 (16.9)	259 (16.4)	0.698
<b>Delirium, n (%)</b>	1695 (6.3)	998 (4.8)	369 (7.7)	328 (20.8)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	37.00 [32.00, 40.00]	34.00 [27.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	21.00 [19.00, 23.00]	20.00 [17.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 3.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	6149 (29.7)	1240 (25.9)	484 (30.6)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	7312 (35.3)	1075 (22.5)	289 (18.3)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.50, 81.00]	59.00 [40.88, 77.62]	59.50 [40.67, 78.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [70.00, 113.00]	91.00 [71.50, 122.00]	90.50 [70.00, 120.25]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.50]	0.025
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.75, 4.40]	4.10 [3.70, 4.40]	0.449
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 36.00]	19.00 [13.00, 31.00]	19.00 [12.00, 32.75]	<0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 35.00]	25.00 [20.00, 34.00]	25.00 [19.00, 34.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.00 [2.25, 52.50]	16.00 [3.50, 64.91]	17.50 [4.00, 63.50]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	6253 (30.2)	1259 (26.3)	372 (23.5)	
5-10	2680 (9.9)	1997 (9.6)	534 (11.2)	149 (9.4)	
10-50	6070 (22.4)	4443 (21.4)	1227 (25.6)	400 (25.3)	
>50	6116 (22.6)	4424 (21.3)	1300 (27.2)	392 (24.8)	
Missing	4342 (16.0)	3611 (17.4)	464 (9.7)	267 (16.9)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.60 [36.30, 36.92]	36.65 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.96 (19.88)	131.87 (19.24)	130.91 (19.14)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.49 (11.82)	70.11 (10.95)	70.00 (11.25)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.20 (5.09)	25.81 (5.71)	25.63 (5.87)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.72 (3.47)	9.79 (3.73)	10.59 (3.98)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.35 (0.48)	4.51 (1.97)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	ACB No Burden	ACB Low Burden	ACB High Burden	p-value
<b>n</b>	27092	15993	6020	5079	
<b>Died, n (%)</b>	913 (3.4)	411 (2.6)	219 (3.6)	283 (5.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 10.00]	7.00 [4.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.43 (7.63)	78.41 (7.53)	79.70 (7.78)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	7033 (44.0)	2273 (37.8)	1626 (32.0)	
76-85 years	11012 (40.6)	6284 (39.3)	2563 (42.6)	2165 (42.6)	
86-95 years	4958 (18.3)	2583 (16.2)	1139 (18.9)	1236 (24.3)	
>95 years	190 (0.7)	93 (0.6)	45 (0.7)	52 (1.0)	
<b>Female sex, n (%)</b>	14014 (51.7)	8029 (50.2)	3227 (53.6)	2758 (54.3)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	8487 (53.1)	3521 (58.5)	3111 (61.3)	<0.001
Surgical department	11973 (44.2)	7506 (46.9)	2499 (41.5)	1968 (38.7)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	8971 (56.1)	3659 (60.8)	3044 (59.9)	
Hearing device	2976 (11.0)	1638 (10.2)	721 (12.0)	617 (12.1)	
<i>Missing</i>	<i>8442 (31.2)</i>	<i>5384 (33.7)</i>	<i>1640 (27.2)</i>	<i>1418 (27.9)</i>	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	2694 (16.8)	1191 (19.8)	1071 (21.1)	
Glasses or contacts	13630 (50.3)	7873 (49.2)	3169 (52.6)	2588 (51.0)	
<i>Missing</i>	<i>8506 (31.4)</i>	<i>5426 (33.9)</i>	<i>1660 (27.6)</i>	<i>1420 (28.0)</i>	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	793 (5.0)	390 (6.5)	259 (5.1)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2140 (13.4)	1352 (22.5)	1259 (24.8)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1973 (12.3)	969 (16.1)	749 (14.7)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2229 (13.9)	632 (10.5)	601 (11.8)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1155 (7.2)	438 (7.3)	1002 (19.7)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1497 (9.4)	893 (14.8)	651 (12.8)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	274 (1.7)	328 (5.4)	196 (3.9)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	336 (2.1)	112 (1.9)	94 (1.9)	0.367
<b>Liverdisease, n (%)</b>	541 (2.0)	346 (2.2)	115 (1.9)	80 (1.6)	0.029
<b>Diabetes, n (%)</b>	5692 (21.0)	3117 (19.5)	1394 (23.2)	1181 (23.3)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	803 (5.0)	189 (3.1)	240 (4.7)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	3141 (19.6)	1582 (26.3)	1453 (28.6)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	2806 (17.5)	992 (16.5)	827 (16.3)	0.044
<b>Delirium, n (%)</b>	1695 (6.3)	768 (4.8)	258 (4.3)	669 (13.2)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [36.00, 40.00]	39.00 [34.00, 40.00]	36.00 [31.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	4560 (28.5)	1568 (26.0)	1745 (34.4)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	5535 (34.6)	1766 (29.3)	1375 (27.1)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	66.00 [47.00, 81.00]	61.00 [43.00, 79.00]	60.00 [41.00, 78.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [70.00, 112.00]	89.33 [71.00, 120.00]	90.00 [71.00, 120.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	0.002
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.03 [3.80, 4.30]	4.10 [3.80, 4.40]	4.10 [3.80, 4.40]	0.001
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 37.00]	20.00 [14.00, 34.00]	19.00 [13.00, 33.00]	<0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 34.00]	0.01
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.30 [2.00, 53.00]	14.40 [3.00, 60.12]	15.00 [3.60, 57.50]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5031 (31.5)	1612 (26.8)	1241 (24.4)	
5-10	2680 (9.9)	1504 (9.4)	638 (10.6)	538 (10.6)	
10-50	6070 (22.4)	3333 (20.8)	1438 (23.9)	1299 (25.6)	
>50	6116 (22.6)	3475 (21.7)	1464 (24.3)	1177 (23.2)	
<i>Missing</i>	<i>4342 (16.0)</i>	<i>2650 (16.6)</i>	<i>868 (14.4)</i>	<i>824 (16.2)</i>	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.56 [36.25, 36.90]	36.60 [36.30, 36.95]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.84 (20.01)	133.31 (19.49)	133.07 (19.28)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.62 (12.01)	70.85 (11.14)	71.01 (11.13)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	25.97 (5.06)	26.40 (5.39)	26.12 (5.64)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.15 (3.36)	8.78 (3.48)	9.87 (3.83)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.32 (0.47)	4.89 (2.79)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	AIS No Burden	AIS Low Burden	AIS High Burden	p-value
<b>n</b>	27092	11532	7811	7749	
<b>Died, n (%)</b>	913 (3.4)	295 (2.6)	212 (2.7)	406 (5.2)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.62 (7.62)	77.95 (7.66)	78.89 (7.74)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	4954 (43.0)	3192 (40.9)	2786 (36.0)	
76-85 years	11012 (40.6)	4597 (39.9)	3180 (40.7)	3235 (41.7)	
86-95 years	4958 (18.3)	1912 (16.6)	1386 (17.7)	1660 (21.4)	
>95 years	190 (0.7)	69 (0.6)	53 (0.7)	68 (0.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	5476 (47.5)	4287 (54.9)	4251 (54.9)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	6490 (56.3)	3729 (47.7)	4900 (63.2)	<0.001
Surgical department	11973 (44.2)	5042 (43.7)	4082 (52.3)	2849 (36.8)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	6193 (53.7)	4792 (61.3)	4689 (60.5)	
Hearing device	2976 (11.0)	1128 (9.8)	950 (12.2)	898 (11.6)	
Missing	8442 (31.2)	4211 (36.5)	2069 (26.5)	2162 (27.9)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	1926 (16.7)	1428 (18.3)	1602 (20.7)	
Glasses or contacts	13630 (50.3)	5366 (46.5)	4286 (54.9)	3978 (51.3)	
Missing	8506 (31.4)	4240 (36.8)	2097 (26.8)	2169 (28.0)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	679 (5.9)	384 (4.9)	379 (4.9)	0.002
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	1845 (16.0)	1228 (15.7)	1678 (21.7)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1422 (12.3)	1081 (13.8)	1188 (15.3)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	1824 (15.8)	793 (10.2)	845 (10.9)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	875 (7.6)	619 (7.9)	1101 (14.2)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	913 (7.9)	674 (8.6)	1454 (18.8)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	181 (1.6)	279 (3.6)	338 (4.4)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	246 (2.1)	133 (1.7)	163 (2.1)	0.083
<b>Liverdisease, n (%)</b>	541 (2.0)	242 (2.1)	164 (2.1)	135 (1.7)	0.165
<b>Diabetes, n (%)</b>	5692 (21.0)	2332 (20.2)	1597 (20.4)	1763 (22.8)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	644 (5.6)	246 (3.1)	342 (4.4)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2388 (20.7)	1708 (21.9)	2080 (26.8)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	1852 (16.1)	1422 (18.2)	1351 (17.4)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	613 (5.3)	337 (4.3)	745 (9.6)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [36.00, 40.00]	39.00 [35.00, 40.00]	36.00 [31.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	3475 (30.1)	2200 (28.2)	2198 (28.4)	0.004
<b>Surgery during stay, n (%)</b>	8676 (32.0)	3839 (33.3)	2988 (38.3)	1849 (23.9)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 80.50]	63.00 [45.00, 80.00]	62.50 [44.00, 80.00]	0.015
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.50 [71.00, 115.50]	86.00 [69.50, 114.00]	87.00 [69.00, 117.00]	0.022
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [136.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.30]	4.05 [3.75, 4.35]	4.05 [3.75, 4.40]	0.913
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 37.62]	20.00 [14.00, 34.00]	20.00 [13.00, 34.00]	0.009
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 36.00]	25.00 [20.00, 34.00]	25.00 [20.00, 35.00]	0.01
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	9.00 [2.00, 47.00]	10.60 [2.40, 49.70]	21.00 [4.40, 72.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	3898 (33.8)	2219 (28.4)	1767 (22.8)	
5-10	2680 (9.9)	1107 (9.6)	800 (10.2)	773 (10.0)	
10-50	6070 (22.4)	2372 (20.6)	1683 (21.5)	2015 (26.0)	
>50	6116 (22.6)	2305 (20.0)	1547 (19.8)	2264 (29.2)	
Missing	4342 (16.0)	1850 (16.0)	1562 (20.0)	930 (12.0)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.50 [36.20, 36.90]	36.50 [36.20, 36.85]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	135.25 (20.54)	134.18 (18.95)	132.61 (19.43)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	73.09 (12.48)	71.70 (11.05)	70.51 (11.00)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.14 (5.00)	26.15 (5.15)	25.98 (5.69)	0.168
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	5.40 (3.00)	7.51 (3.24)	10.11 (3.72)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.41 (0.49)	6.09 (3.58)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	CABS No Burden	CABS Low Burden	CABS High Burden	p-value
<b>n</b>	27092	23444	1376	2272	
<b>Died, n (%)</b>	913 (3.4)	679 (2.9)	91 (6.6)	143 (6.3)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.50 [5.00, 12.00]	8.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.76 (7.62)	80.01 (7.78)	80.13 (7.81)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	9840 (42.0)	420 (30.5)	672 (29.6)	
76-85 years	11012 (40.6)	9435 (40.2)	596 (43.3)	981 (43.2)	
86-95 years	4958 (18.3)	4018 (17.1)	344 (25.0)	596 (26.2)	
>95 years	190 (0.7)	151 (0.6)	16 (1.2)	23 (1.0)	
<b>Female sex, n (%)</b>	14014 (51.7)	12115 (51.7)	735 (53.4)	1164 (51.2)	0.403
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	12137 (51.8)	932 (67.7)	2050 (90.2)	<0.001
Surgical department	11973 (44.2)	11307 (48.2)	444 (32.2)	222 (9.8)	
<b>Hearing device, n (%)</b>					0.01
None	15674 (57.9)	13618 (58.1)	775 (56.3)	1281 (56.4)	
Hearing device	2976 (11.0)	2513 (10.7)	169 (12.3)	294 (12.9)	
Missing	8442 (31.2)	7313 (31.2)	432 (31.4)	697 (30.7)	
<b>Visual aid, n (%)</b>					0.001
None	4956 (18.3)	4199 (17.9)	271 (19.7)	486 (21.4)	
Glasses or contacts	13630 (50.3)	11878 (50.7)	670 (48.7)	1082 (47.6)	
Missing	8506 (31.4)	7367 (31.4)	435 (31.6)	704 (31.0)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1221 (5.2)	89 (6.5)	132 (5.8)	0.072
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3122 (13.3)	509 (37.0)	1120 (49.3)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	3098 (13.2)	227 (16.5)	366 (16.1)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	3086 (13.2)	159 (11.6)	217 (9.6)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	2213 (9.4)	144 (10.5)	238 (10.5)	0.144
<b>COPD, n (%)</b>	3041 (11.2)	1898 (8.1)	282 (20.5)	861 (37.9)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	668 (2.8)	55 (4.0)	75 (3.3)	0.029
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	477 (2.0)	27 (2.0)	38 (1.7)	0.498
<b>Liverdisease, n (%)</b>	541 (2.0)	458 (2.0)	38 (2.8)	45 (2.0)	0.114
<b>Diabetes, n (%)</b>	5692 (21.0)	4729 (20.2)	363 (26.4)	600 (26.4)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	1084 (4.6)	54 (3.9)	94 (4.1)	0.297
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	4839 (20.6)	466 (33.9)	871 (38.3)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	4157 (17.7)	227 (16.5)	241 (10.6)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1427 (6.1)	108 (7.8)	160 (7.0)	0.009
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	38.00 [33.00, 40.00]	35.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [19.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	6744 (28.8)	416 (30.2)	713 (31.4)	0.02
<b>Surgery during stay, n (%)</b>	8676 (32.0)	8242 (35.2)	283 (20.6)	151 (6.6)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 81.00]	56.75 [38.00, 76.00]	57.00 [39.00, 76.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [70.00, 113.00]	93.00 [73.50, 131.00]	95.25 [73.50, 127.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.50]	0.031
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.70, 4.40]	4.10 [3.75, 4.40]	0.195
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.00]	20.00 [13.00, 38.00]	21.00 [13.00, 35.00]	0.931
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	27.00 [20.00, 37.00]	26.00 [20.88, 36.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.40 [2.20, 51.50]	17.70 [4.00, 68.06]	30.00 [8.11, 81.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	7160 (30.5)	350 (25.4)	374 (16.5)	
5-10	2680 (9.9)	2279 (9.7)	160 (11.6)	241 (10.6)	
10-50	6070 (22.4)	4947 (21.1)	366 (26.6)	757 (33.3)	
>50	6116 (22.6)	4906 (20.9)	396 (28.8)	814 (35.8)	
Missing	4342 (16.0)	4152 (17.7)	104 (7.6)	86 (3.8)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.60 [36.30, 36.93]	36.70 [36.33, 37.10]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.55 (19.62)	134.01 (22.48)	130.14 (18.93)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.09 (11.70)	71.20 (12.16)	70.34 (11.01)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.06 (5.13)	26.26 (5.63)	26.42 (6.14)	0.025
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.13 (3.66)	9.38 (3.83)	10.52 (3.86)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	2.00 (0.00)	5.48 (2.09)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	Chew No Burden	Chew Low Burden	Chew High Burden	p-value
<b>n</b>	27092	18548	5986	2558	
<b>Died, n (%)</b>	913 (3.4)	535 (2.9)	233 (3.9)	145 (5.7)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 9.00]	7.00 [4.00, 11.00]	8.00 [5.00, 13.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.52 (7.60)	79.19 (7.75)	79.49 (7.66)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	8026 (43.3)	2084 (34.8)	822 (32.1)	
76-85 years	11012 (40.6)	7370 (39.7)	2528 (42.2)	1114 (43.5)	
86-95 years	4958 (18.3)	3037 (16.4)	1319 (22.0)	602 (23.5)	
>95 years	190 (0.7)	115 (0.6)	55 (0.9)	20 (0.8)	
<b>Female sex, n (%)</b>	14014 (51.7)	9437 (50.9)	3153 (52.7)	1424 (55.7)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	9656 (52.1)	3762 (62.8)	1701 (66.5)	<0.001
Surgical department	11973 (44.2)	8892 (47.9)	2224 (37.2)	857 (33.5)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	10565 (57.0)	3562 (59.5)	1547 (60.5)	
Hearing device	2976 (11.0)	1933 (10.4)	749 (12.5)	294 (11.5)	
Missing	8442 (31.2)	6050 (32.6)	1675 (28.0)	717 (28.0)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3228 (17.4)	1207 (20.2)	521 (20.4)	
Glasses or contacts	13630 (50.3)	9223 (49.7)	3096 (51.7)	1311 (51.3)	
Missing	8506 (31.4)	6097 (32.9)	1683 (28.1)	726 (28.4)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1006 (5.4)	318 (5.3)	118 (4.6)	0.231
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2526 (13.6)	1472 (24.6)	753 (29.4)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2281 (12.3)	945 (15.8)	465 (18.2)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2409 (13.0)	727 (12.1)	326 (12.7)	0.236
<b>Dementia, n (%)</b>	2595 (9.6)	1228 (6.6)	867 (14.5)	500 (19.5)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1877 (10.1)	819 (13.7)	345 (13.5)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	488 (2.6)	180 (3.0)	130 (5.1)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	386 (2.1)	100 (1.7)	56 (2.2)	0.111
<b>Liverdisease, n (%)</b>	541 (2.0)	357 (1.9)	138 (2.3)	46 (1.8)	0.141
<b>Diabetes, n (%)</b>	5692 (21.0)	2859 (15.4)	1971 (32.9)	862 (33.7)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	826 (4.5)	271 (4.5)	135 (5.3)	0.172
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	3702 (20.0)	1709 (28.5)	765 (29.9)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3289 (17.7)	978 (16.3)	358 (14.0)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	868 (4.7)	464 (7.8)	363 (14.2)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [36.00, 40.00]	37.00 [32.00, 40.00]	35.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	21.00 [19.00, 23.00]	20.00 [18.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	5468 (29.5)	1661 (27.7)	744 (29.1)	0.037
<b>Surgery during stay, n (%)</b>	8676 (32.0)	6630 (35.7)	1528 (25.5)	518 (20.3)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 81.00]	60.00 [42.50, 78.00]	61.00 [43.00, 79.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [70.00, 113.00]	90.00 [72.00, 120.00]	88.00 [69.50, 118.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.50, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	0.197
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.30]	4.10 [3.80, 4.40]	4.10 [3.80, 4.40]	<0.001
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 36.00]	20.00 [13.00, 34.00]	19.00 [13.00, 35.00]	0.003
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [19.00, 34.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.00 [2.00, 51.00]	15.50 [3.10, 62.00]	20.45 [5.00, 69.50]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5708 (30.8)	1630 (27.2)	546 (21.3)	
5-10	2680 (9.9)	1788 (9.6)	619 (10.3)	273 (10.7)	
10-50	6070 (22.4)	3791 (20.4)	1554 (26.0)	725 (28.3)	
>50	6116 (22.6)	3827 (20.6)	1557 (26.0)	732 (28.6)	
Missing	4342 (16.0)	3434 (18.5)	626 (10.5)	282 (11.0)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.54 [36.20, 36.90]	36.60 [36.27, 36.95]	36.60 [36.30, 36.95]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.76 (20.06)	132.83 (19.03)	133.00 (19.22)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.46 (11.93)	70.68 (11.11)	70.87 (10.90)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	25.94 (4.94)	26.38 (5.66)	26.56 (6.30)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.46 (3.38)	9.09 (3.66)	10.91 (3.79)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.42 (0.49)	4.08 (1.39)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	AAS No Burden	AAS Low Burden	AAS High Burden	p-value
<b>n</b>	27092	21777	2604	2711	
<b>Died, n (%)</b>	913 (3.4)	620 (2.8)	128 (4.9)	165 (6.1)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.50 [5.00, 12.00]	8.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.50 (7.57)	81.02 (7.65)	79.88 (7.75)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	9422 (43.3)	675 (25.9)	835 (30.8)	
76-85 years	11012 (40.6)	8708 (40.0)	1129 (43.4)	1175 (43.3)	
86-95 years	4958 (18.3)	3520 (16.2)	769 (29.5)	669 (24.7)	
>95 years	190 (0.7)	127 (0.6)	31 (1.2)	32 (1.2)	
<b>Female sex, n (%)</b>	14014 (51.7)	11224 (51.5)	1409 (54.1)	1381 (50.9)	0.032
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	11058 (50.8)	1786 (68.6)	2275 (83.9)	<0.001
Surgical department	11973 (44.2)	10719 (49.2)	818 (31.4)	436 (16.1)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	12684 (58.2)	1473 (56.6)	1517 (56.0)	
Hearing device	2976 (11.0)	2286 (10.5)	365 (14.0)	325 (12.0)	
Missing	8442 (31.2)	6807 (31.3)	766 (29.4)	869 (32.1)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3826 (17.6)	539 (20.7)	591 (21.8)	
Glasses or contacts	13630 (50.3)	11088 (50.9)	1297 (49.8)	1245 (45.9)	
Missing	8506 (31.4)	6863 (31.5)	768 (29.5)	875 (32.3)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1165 (5.3)	128 (4.9)	149 (5.5)	0.592
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2821 (13.0)	917 (35.2)	1013 (37.4)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2880 (13.2)	385 (14.8)	426 (15.7)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2840 (13.0)	317 (12.2)	305 (11.3)	0.019
<b>Dementia, n (%)</b>	2595 (9.6)	1554 (7.1)	622 (23.9)	419 (15.5)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1783 (8.2)	256 (9.8)	1002 (37.0)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	618 (2.8)	81 (3.1)	99 (3.7)	0.053
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	443 (2.0)	54 (2.1)	45 (1.7)	0.406
<b>Liverdisease, n (%)</b>	541 (2.0)	434 (2.0)	57 (2.2)	50 (1.8)	0.665
<b>Diabetes, n (%)</b>	5692 (21.0)	4363 (20.0)	652 (25.0)	677 (25.0)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	987 (4.5)	127 (4.9)	118 (4.4)	0.637
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	4366 (20.0)	898 (34.5)	912 (33.6)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3955 (18.2)	348 (13.4)	322 (11.9)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1015 (4.7)	379 (14.6)	301 (11.1)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	35.00 [30.00, 39.00]	35.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	21.00 [18.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	6168 (28.3)	915 (35.1)	790 (29.1)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	7801 (35.8)	599 (23.0)	276 (10.2)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.50, 81.00]	55.50 [38.00, 74.50]	60.00 [41.00, 78.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	86.00 [69.50, 113.00]	94.50 [74.00, 128.00]	91.00 [72.00, 123.50]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.17 [135.50, 141.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.10 [3.80, 4.40]	4.10 [3.75, 4.40]	0.003
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.00]	21.00 [13.00, 37.00]	20.00 [13.00, 36.00]	0.783
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	26.00 [20.00, 36.00]	26.00 [20.00, 36.00]	0.039
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.00 [2.05, 51.00]	13.00 [3.30, 48.82]	36.00 [9.00, 93.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	6757 (31.0)	700 (26.9)	427 (15.8)	
5-10	2680 (9.9)	2123 (9.7)	310 (11.9)	247 (9.1)	
10-50	6070 (22.4)	4541 (20.9)	706 (27.1)	823 (30.4)	
>50	6116 (22.6)	4518 (20.7)	558 (21.4)	1040 (38.4)	
Missing	4342 (16.0)	3838 (17.6)	330 (12.7)	174 (6.4)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.53 [36.20, 36.90]	36.60 [36.25, 36.90]	36.70 [36.37, 37.12]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.95 (19.89)	131.85 (19.15)	130.18 (18.74)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.34 (11.77)	70.54 (11.36)	69.83 (10.92)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.08 (5.08)	26.07 (5.59)	26.28 (6.25)	0.318
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.95 (3.59)	9.25 (3.68)	10.38 (3.95)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.32 (0.47)	6.16 (3.24)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	ARS No Burden	ARS Low Burden	ARS High Burden	p-value
<b>n</b>	27092	22015	3806	1271	
<b>Died, n (%)</b>	913 (3.4)	639 (2.9)	177 (4.7)	97 (7.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 11.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.70 (7.62)	79.65 (7.78)	79.82 (7.61)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	9322 (42.3)	1227 (32.2)	383 (30.1)	
76-85 years	11012 (40.6)	8810 (40.0)	1625 (42.7)	577 (45.4)	
86-95 years	4958 (18.3)	3744 (17.0)	919 (24.1)	295 (23.2)	
>95 years	190 (0.7)	139 (0.6)	35 (0.9)	16 (1.3)	
<b>Female sex, n (%)</b>	14014 (51.7)	11102 (50.4)	2210 (58.1)	702 (55.2)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	11886 (54.0)	2363 (62.1)	870 (68.5)	<0.001
Surgical department	11973 (44.2)	10129 (46.0)	1443 (37.9)	401 (31.5)	
<b>Hearing device, n (%)</b>					0.002
None	15674 (57.9)	12667 (57.5)	2265 (59.5)	742 (58.4)	
Hearing device	2976 (11.0)	2381 (10.8)	456 (12.0)	139 (10.9)	
Missing	8442 (31.2)	6967 (31.6)	1085 (28.5)	390 (30.7)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3895 (17.7)	764 (20.1)	297 (23.4)	
Glasses or contacts	13630 (50.3)	11090 (50.4)	1954 (51.3)	586 (46.1)	
Missing	8506 (31.4)	7030 (31.9)	1088 (28.6)	388 (30.5)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1206 (5.5)	191 (5.0)	45 (3.5)	0.008
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3695 (16.8)	826 (21.7)	230 (18.1)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2916 (13.2)	605 (15.9)	170 (13.4)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2811 (12.8)	474 (12.5)	177 (13.9)	0.394
<b>Dementia, n (%)</b>	2595 (9.6)	1441 (6.5)	770 (20.2)	384 (30.2)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	2406 (10.9)	506 (13.3)	129 (10.1)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	625 (2.8)	143 (3.8)	30 (2.4)	0.004
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	431 (2.0)	83 (2.2)	28 (2.2)	0.576
<b>Liverdisease, n (%)</b>	541 (2.0)	440 (2.0)	82 (2.2)	19 (1.5)	0.346
<b>Diabetes, n (%)</b>	5692 (21.0)	4530 (20.6)	896 (23.5)	266 (20.9)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	966 (4.4)	174 (4.6)	92 (7.2)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	4746 (21.6)	1095 (28.8)	335 (26.4)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3718 (16.9)	669 (17.6)	238 (18.7)	0.16
<b>Delirium, n (%)</b>	1695 (6.3)	965 (4.4)	440 (11.6)	290 (22.8)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	36.00 [31.00, 40.00]	33.00 [25.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	21.00 [18.00, 23.00]	19.00 [17.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 3.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	6247 (28.4)	1214 (31.9)	412 (32.4)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	7422 (33.7)	1019 (26.8)	235 (18.5)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [46.00, 81.00]	60.50 [42.00, 78.00]	63.00 [44.00, 80.50]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [70.00, 115.00]	88.00 [69.50, 118.00]	85.50 [67.00, 115.00]	0.129
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	0.961
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.70, 4.40]	4.05 [3.70, 4.39]	0.443
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.25 [14.00, 36.00]	20.00 [13.00, 35.00]	18.00 [12.00, 30.88]	<0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 34.00]	0.037
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.22 [2.45, 55.00]	14.52 [3.12, 57.12]	18.00 [4.00, 65.19]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	6575 (29.9)	1005 (26.4)	304 (23.9)	
5-10	2680 (9.9)	2146 (9.7)	415 (10.9)	119 (9.4)	
10-50	6070 (22.4)	4777 (21.7)	970 (25.5)	323 (25.4)	
>50	6116 (22.6)	4878 (22.2)	912 (24.0)	326 (25.6)	
Missing	4342 (16.0)	3639 (16.5)	504 (13.2)	199 (15.7)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.22, 36.90]	36.60 [36.26, 36.93]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.64 (19.81)	132.38 (19.30)	131.24 (19.91)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.30 (11.74)	70.24 (11.19)	70.20 (11.41)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.19 (5.19)	25.83 (5.56)	25.15 (5.44)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.00 (3.62)	9.51 (3.85)	10.53 (3.81)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.28 (0.45)	4.24 (1.84)	<0.001



Supplementary Table S3: Table 1's categorical approach					
	Overall	ACL No Burden	ACL Low Burden	ACL High Burden	p-value
<b>n</b>	27092	19473	5506	2113	
<b>Died, n (%)</b>	913 (3.4)	603 (3.1)	191 (3.5)	119 (5.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 11.00]	8.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.90 (7.66)	78.45 (7.75)	78.71 (7.70)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	8065 (41.4)	2112 (38.4)	755 (35.7)	
76-85 years	11012 (40.6)	7845 (40.3)	2261 (41.1)	906 (42.9)	
86-95 years	4958 (18.3)	3427 (17.6)	1095 (19.9)	436 (20.6)	
>95 years	190 (0.7)	136 (0.7)	38 (0.7)	16 (0.8)	
<b>Female sex, n (%)</b>	14014 (51.7)	9546 (49.0)	3145 (57.1)	1323 (62.6)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	10633 (54.6)	3264 (59.3)	1222 (57.8)	<0.001
Surgical department	11973 (44.2)	8840 (45.4)	2242 (40.7)	891 (42.2)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	10983 (56.4)	3377 (61.3)	1314 (62.2)	
Hearing device	2976 (11.0)	2099 (10.8)	634 (11.5)	243 (11.5)	
Missing	8442 (31.2)	6391 (32.8)	1495 (27.2)	556 (26.3)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3438 (17.7)	1088 (19.8)	430 (20.4)	
Glasses or contacts	13630 (50.3)	9597 (49.3)	2915 (52.9)	1118 (52.9)	
Missing	8506 (31.4)	6438 (33.1)	1503 (27.3)	565 (26.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1077 (5.5)	274 (5.0)	91 (4.3)	0.026
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3335 (17.1)	1050 (19.1)	366 (17.3)	0.004
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2515 (12.9)	850 (15.4)	326 (15.4)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2587 (13.3)	655 (11.9)	220 (10.4)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1607 (8.3)	663 (12.0)	325 (15.4)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	2074 (10.7)	709 (12.9)	258 (12.2)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	496 (2.5)	198 (3.6)	104 (4.9)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	386 (2.0)	112 (2.0)	44 (2.1)	0.934
<b>Liverdisease, n (%)</b>	541 (2.0)	376 (1.9)	132 (2.4)	33 (1.6)	0.03
<b>Diabetes, n (%)</b>	5692 (21.0)	3181 (16.3)	1883 (34.2)	628 (29.7)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	893 (4.6)	235 (4.3)	104 (4.9)	0.419
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	4308 (22.1)	1385 (25.2)	483 (22.9)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3245 (16.7)	949 (17.2)	431 (20.4)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1090 (5.6)	369 (6.7)	236 (11.2)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	38.00 [33.00, 40.00]	35.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	21.00 [19.00, 23.00]	20.00 [18.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 3.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	5945 (30.5)	1434 (26.0)	494 (23.4)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	6676 (34.3)	1515 (27.5)	485 (23.0)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 80.00]	63.00 [45.00, 79.00]	65.00 [47.00, 81.50]	0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	88.00 [71.00, 117.00]	87.00 [69.00, 114.00]	82.50 [65.00, 108.25]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.50, 140.00]	138.00 [135.00, 140.00]	137.00 [134.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.10 [3.77, 4.40]	4.05 [3.70, 4.35]	0.066
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 37.00]	19.00 [13.00, 32.00]	19.00 [12.00, 32.75]	<0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 35.00]	25.00 [20.00, 34.00]	25.00 [20.00, 34.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.00 [2.30, 54.95]	14.00 [3.00, 57.46]	15.75 [3.64, 59.02]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5801 (29.8)	1520 (27.6)	563 (26.6)	
5-10	2680 (9.9)	1847 (9.5)	595 (10.8)	238 (11.3)	
10-50	6070 (22.4)	4073 (20.9)	1414 (25.7)	583 (27.6)	
>50	6116 (22.6)	4221 (21.7)	1343 (24.4)	552 (26.1)	
Missing	4342 (16.0)	3531 (18.1)	634 (11.5)	177 (8.4)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.60 [36.30, 36.90]	36.60 [36.30, 36.90]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.16 (19.99)	133.66 (19.05)	135.15 (19.64)	0.012
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.29 (11.96)	70.82 (10.85)	71.27 (11.02)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.02 (5.02)	26.39 (5.64)	26.02 (6.11)	0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.55 (3.43)	9.34 (3.57)	11.13 (3.81)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.40 (0.49)	4.42 (1.85)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	CrAS No Burden	CrAS Low Burden	CrAS High Burden	p-value
<b>n</b>	27092	16621	6698	3773	
<b>Died, n (%)</b>	913 (3.4)	470 (2.8)	205 (3.1)	238 (6.3)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.75 (7.63)	78.25 (7.65)	79.22 (7.88)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	6993 (42.1)	2643 (39.5)	1296 (34.3)	
76-85 years	11012 (40.6)	6709 (40.4)	2741 (40.9)	1562 (41.4)	
86-95 years	4958 (18.3)	2815 (16.9)	1261 (18.8)	882 (23.4)	
>95 years	190 (0.7)	104 (0.6)	53 (0.8)	33 (0.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	8146 (49.0)	3668 (54.8)	2200 (58.3)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	9568 (57.6)	3469 (51.8)	2082 (55.2)	<0.001
Surgical department	11973 (44.2)	7053 (42.4)	3229 (48.2)	1691 (44.8)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	9259 (55.7)	4112 (61.4)	2303 (61.0)	
Hearing device	2976 (11.0)	1762 (10.6)	796 (11.9)	418 (11.1)	
Missing	8442 (31.2)	5600 (33.7)	1790 (26.7)	1052 (27.9)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	2888 (17.4)	1270 (19.0)	798 (21.2)	
Glasses or contacts	13630 (50.3)	8100 (48.7)	3617 (54.0)	1913 (50.7)	
Missing	8506 (31.4)	5633 (33.9)	1811 (27.0)	1062 (28.1)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	868 (5.2)	409 (6.1)	165 (4.4)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2798 (16.8)	1246 (18.6)	707 (18.7)	0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2155 (13.0)	999 (14.9)	537 (14.2)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2356 (14.2)	678 (10.1)	428 (11.3)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1218 (7.3)	625 (9.3)	752 (19.9)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1858 (11.2)	758 (11.3)	425 (11.3)	0.952
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	427 (2.6)	229 (3.4)	142 (3.8)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	349 (2.1)	117 (1.7)	76 (2.0)	0.219
<b>Liverdisease, n (%)</b>	541 (2.0)	374 (2.3)	105 (1.6)	62 (1.6)	0.001
<b>Diabetes, n (%)</b>	5692 (21.0)	3377 (20.3)	1495 (22.3)	820 (21.7)	0.002
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	823 (5.0)	220 (3.3)	189 (5.0)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	3645 (21.9)	1637 (24.4)	894 (23.7)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	2966 (17.8)	1024 (15.3)	635 (16.8)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	803 (4.8)	351 (5.2)	541 (14.3)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [36.00, 40.00]	39.00 [34.00, 40.00]	36.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	4780 (28.8)	1947 (29.1)	1146 (30.4)	0.143
<b>Surgery during stay, n (%)</b>	8676 (32.0)	5196 (31.3)	2344 (35.0)	1136 (30.1)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.50, 80.00]	62.00 [44.00, 79.50]	64.00 [45.00, 81.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.17 [71.00, 115.50]	88.00 [70.00, 117.00]	84.00 [66.50, 113.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.50, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.77, 4.30]	4.10 [3.80, 4.40]	4.10 [3.80, 4.40]	0.019
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 36.00]	19.00 [13.00, 32.50]	20.00 [13.00, 36.00]	0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.50 [20.00, 36.00]	25.00 [20.00, 34.00]	25.00 [20.00, 34.00]	0.051
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.50 [2.10, 54.00]	13.10 [3.00, 56.00]	18.00 [4.00, 61.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5263 (31.7)	1765 (26.4)	856 (22.7)	
5-10	2680 (9.9)	1603 (9.6)	693 (10.3)	384 (10.2)	
10-50	6070 (22.4)	3524 (21.2)	1561 (23.3)	985 (26.1)	
>50	6116 (22.6)	3714 (22.3)	1480 (22.1)	922 (24.4)	
Missing	4342 (16.0)	2517 (15.1)	1199 (17.9)	626 (16.6)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.55 [36.25, 36.90]	36.60 [36.30, 36.90]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.60 (20.18)	133.51 (18.87)	133.37 (19.59)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.59 (12.11)	70.92 (10.80)	70.79 (11.13)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.02 (5.10)	26.46 (5.38)	25.74 (5.65)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.33 (3.46)	8.64 (3.49)	10.30 (3.80)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.46 (0.50)	5.03 (2.58)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	ADS No Burden	ADS Low Burden	ADS High Burden	p-value
<b>n</b>	27092	16306	7613	3173	
<b>Died, n (%)</b>	913 (3.4)	426 (2.6)	265 (3.5)	222 (7.0)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 10.00]	8.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	78.14 (7.64)	77.98 (7.79)	77.98 (7.69)	0.227
<b>Age, n (%)</b>					0.196
65-75 years	10932 (40.4)	6507 (39.9)	3126 (41.1)	1299 (40.9)	
76-85 years	11012 (40.6)	6733 (41.3)	3005 (39.5)	1274 (40.2)	
86-95 years	4958 (18.3)	2949 (18.1)	1427 (18.7)	582 (18.3)	
>95 years	190 (0.7)	117 (0.7)	55 (0.7)	18 (0.6)	
<b>Female sex, n (%)</b>	14014 (51.7)	7896 (48.4)	4256 (55.9)	1862 (58.7)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	9393 (57.6)	3870 (50.8)	1856 (58.5)	<0.001
Surgical department	11973 (44.2)	6913 (42.4)	3743 (49.2)	1317 (41.5)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	8968 (55.0)	4697 (61.7)	2009 (63.3)	
Hearing device	2976 (11.0)	1720 (10.5)	902 (11.8)	354 (11.2)	
Missing	8442 (31.2)	5618 (34.5)	2014 (26.5)	810 (25.5)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	2917 (17.9)	1398 (18.4)	641 (20.2)	
Glasses or contacts	13630 (50.3)	7732 (47.4)	4184 (55.0)	1714 (54.0)	
Missing	8506 (31.4)	5657 (34.7)	2031 (26.7)	818 (25.8)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	979 (6.0)	338 (4.4)	125 (3.9)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2475 (15.2)	1511 (19.8)	765 (24.1)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	2135 (13.1)	1042 (13.7)	514 (16.2)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2482 (15.2)	675 (8.9)	305 (9.6)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1671 (10.2)	615 (8.1)	309 (9.7)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1403 (8.6)	1069 (14.0)	569 (17.9)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	260 (1.6)	360 (4.7)	178 (5.6)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	342 (2.1)	140 (1.8)	60 (1.9)	0.37
<b>Liverdisease, n (%)</b>	541 (2.0)	315 (1.9)	148 (1.9)	78 (2.5)	0.141
<b>Diabetes, n (%)</b>	5692 (21.0)	3467 (21.3)	1512 (19.9)	713 (22.5)	0.005
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	855 (5.2)	242 (3.2)	135 (4.3)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	3570 (21.9)	1753 (23.0)	853 (26.9)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	2576 (15.8)	1431 (18.8)	618 (19.5)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1059 (6.5)	402 (5.3)	234 (7.4)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	39.00 [34.00, 40.00]	36.00 [31.25, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	4703 (28.8)	2243 (29.5)	927 (29.2)	0.603
<b>Surgery during stay, n (%)</b>	8676 (32.0)	5060 (31.0)	2752 (36.1)	864 (27.2)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 80.00]	63.00 [45.00, 81.00]	63.00 [44.00, 81.50]	0.578
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	88.00 [71.00, 116.00]	86.00 [69.00, 114.00]	86.00 [68.00, 116.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.50, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.79, 4.35]	4.05 [3.75, 4.40]	0.974
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.00]	20.00 [14.00, 36.00]	20.00 [13.75, 35.00]	0.928
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	0.859
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.00 [2.00, 51.00]	14.00 [3.00, 59.15]	19.80 [4.60, 69.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5262 (32.3)	1926 (25.3)	696 (21.9)	
5-10	2680 (9.9)	1560 (9.6)	775 (10.2)	345 (10.9)	
10-50	6070 (22.4)	3500 (21.5)	1743 (22.9)	827 (26.1)	
>50	6116 (22.6)	3492 (21.4)	1737 (22.8)	887 (28.0)	
Missing	4342 (16.0)	2492 (15.3)	1432 (18.8)	418 (13.2)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.55 [36.23, 36.90]	36.60 [36.30, 36.92]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.73 (20.04)	133.44 (19.22)	132.97 (19.67)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.36 (12.07)	71.40 (11.12)	70.85 (10.94)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.11 (5.10)	26.06 (5.28)	26.14 (5.85)	0.806
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.36 (3.37)	8.45 (3.65)	10.70 (3.83)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.35 (0.48)	4.24 (1.87)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	SCDL No Burden	SCDL Low Burden	SCDL High Burden	p-value
<b>n</b>	27092	17518	6272	3302	
<b>Died, n (%)</b>	913 (3.4)	527 (3.0)	150 (2.4)	236 (7.1)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.96 (7.68)	78.81 (7.61)	77.33 (7.77)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	7211 (41.2)	2262 (36.1)	1459 (44.2)	
76-85 years	11012 (40.6)	7013 (40.0)	2712 (43.2)	1287 (39.0)	
86-95 years	4958 (18.3)	3186 (18.2)	1241 (19.8)	531 (16.1)	
>95 years	190 (0.7)	108 (0.6)	57 (0.9)	25 (0.8)	
<b>Female sex, n (%)</b>	14014 (51.7)	9155 (52.3)	2995 (47.8)	1864 (56.5)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	9638 (55.0)	3950 (63.0)	1531 (46.4)	<0.001
Surgical department	11973 (44.2)	7880 (45.0)	2322 (37.0)	1771 (53.6)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	9853 (56.2)	3720 (59.3)	2101 (63.6)	
Hearing device	2976 (11.0)	1832 (10.5)	789 (12.6)	355 (10.8)	
Missing	8442 (31.2)	5833 (33.3)	1763 (28.1)	846 (25.6)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	3124 (17.8)	1155 (18.4)	677 (20.5)	
Glasses or contacts	13630 (50.3)	8520 (48.6)	3336 (53.2)	1774 (53.7)	
Missing	8506 (31.4)	5874 (33.5)	1781 (28.4)	851 (25.8)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	738 (4.2)	551 (8.8)	153 (4.6)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	3001 (17.1)	1255 (20.0)	495 (15.0)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1808 (10.3)	1395 (22.2)	488 (14.8)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2198 (12.5)	980 (15.6)	284 (8.6)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1705 (9.7)	646 (10.3)	244 (7.4)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1667 (9.5)	884 (14.1)	490 (14.8)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	310 (1.8)	282 (4.5)	206 (6.2)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	384 (2.2)	110 (1.8)	48 (1.5)	0.006
<b>Liverdisease, n (%)</b>	541 (2.0)	420 (2.4)	84 (1.3)	37 (1.1)	<0.001
<b>Diabetes, n (%)</b>	5692 (21.0)	3343 (19.1)	1659 (26.5)	690 (20.9)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	837 (4.8)	278 (4.4)	117 (3.5)	0.007
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	3880 (22.1)	1666 (26.6)	630 (19.1)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	3079 (17.6)	908 (14.5)	638 (19.3)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1187 (6.8)	366 (5.8)	142 (4.3)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	39.00 [34.00, 40.00]	38.00 [33.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	22.00 [19.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	5358 (30.6)	1475 (23.5)	1040 (31.5)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	5774 (33.0)	1549 (24.7)	1353 (41.0)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 80.00]	61.00 [43.00, 78.00]	67.00 [48.00, 84.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [70.00, 115.00]	90.50 [72.00, 120.00]	82.00 [66.00, 109.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	0.014
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.00 [3.75, 4.30]	4.10 [3.80, 4.40]	4.10 [3.80, 4.40]	<0.001
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 36.00]	20.00 [14.00, 33.00]	20.00 [14.00, 34.00]	0.127
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 36.00]	25.00 [20.00, 33.00]	25.00 [20.00, 34.38]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.10 [2.50, 53.00]	12.00 [2.40, 56.50]	18.50 [4.00, 68.50]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	5186 (29.6)	1997 (31.8)	701 (21.2)	
5-10	2680 (9.9)	1727 (9.9)	661 (10.5)	292 (8.8)	
10-50	6070 (22.4)	3823 (21.8)	1482 (23.6)	765 (23.2)	
>50	6116 (22.6)	3781 (21.6)	1518 (24.2)	817 (24.7)	
Missing	4342 (16.0)	3001 (17.1)	614 (9.8)	727 (22.0)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.57 [36.25, 36.90]	36.58 [36.25, 36.90]	0.336
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.27 (20.21)	134.55 (18.78)	132.67 (19.32)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.60 (12.12)	70.71 (10.81)	70.69 (10.70)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.12 (5.28)	26.13 (5.20)	25.93 (5.22)	0.289
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	6.44 (3.51)	9.07 (3.52)	9.81 (3.89)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	2.00 (0.04)	6.23 (4.47)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	PI No Burden	PI Low Burden	PI High Burden	p-value
<b>n</b>	27092	24893	62	2137	
<b>Died, n (%)</b>	913 (3.4)	789 (3.2)	2 (3.2)	122 (5.7)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 9.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.80 (7.64)	75.60 (7.51)	81.40 (7.49)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	10394 (41.8)	31 (50.0)	507 (23.7)	
76-85 years	11012 (40.6)	10042 (40.3)	24 (38.7)	946 (44.3)	
86-95 years	4958 (18.3)	4296 (17.3)	7 (11.3)	655 (30.7)	
>95 years	190 (0.7)	161 (0.6)	0 (0.0)	29 (1.4)	
<b>Female sex, n (%)</b>	14014 (51.7)	12829 (51.5)	41 (66.1)	1144 (53.5)	0.016
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	13624 (54.7)	43 (69.4)	1452 (67.9)	<0.001
Surgical department	11973 (44.2)	11269 (45.3)	19 (30.6)	685 (32.1)	
<b>Hearing device, n (%)</b>					0.005
None	15674 (57.9)	14435 (58.0)	41 (66.1)	1198 (56.1)	
Hearing device	2976 (11.0)	2690 (10.8)	3 (4.8)	283 (13.2)	
Missing	8442 (31.2)	7768 (31.2)	18 (29.0)	656 (30.7)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	4443 (17.8)	19 (30.6)	494 (23.1)	
Glasses or contacts	13630 (50.3)	12619 (50.7)	23 (37.1)	988 (46.2)	
Missing	8506 (31.4)	7831 (31.5)	20 (32.3)	655 (30.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1348 (5.4)	1 (1.6)	93 (4.4)	0.047
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	4240 (17.0)	3 (4.8)	508 (23.8)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	3381 (13.6)	2 (3.2)	308 (14.4)	0.032
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	3148 (12.6)	1 (1.6)	313 (14.6)	0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1796 (7.2)	8 (12.9)	791 (37.0)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	2808 (11.3)	2 (3.2)	231 (10.8)	0.109
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	746 (3.0)	0 (0.0)	52 (2.4)	0.131
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	496 (2.0)	0 (0.0)	46 (2.2)	0.466
<b>Liverdisease, n (%)</b>	541 (2.0)	507 (2.0)	1 (1.6)	33 (1.5)	0.289
<b>Diabetes, n (%)</b>	5692 (21.0)	5162 (20.7)	21 (33.9)	509 (23.8)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	1114 (4.5)	0 (0.0)	118 (5.5)	0.019
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	5506 (22.1)	9 (14.5)	661 (30.9)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	4358 (17.5)	4 (6.5)	263 (12.3)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1185 (4.8)	0 (0.0)	510 (23.9)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	35.00 [26.00, 40.00]	34.00 [26.25, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	21.00 [17.50, 22.50]	20.00 [17.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [0.50, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	7084 (28.5)	22 (35.5)	767 (35.9)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	8161 (32.8)	13 (21.0)	502 (23.5)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 81.00]	73.50 [52.25, 83.50]	59.00 [41.00, 77.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [70.00, 115.00]	76.50 [64.75, 100.75]	91.00 [71.50, 120.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	140.00 [137.00, 141.00]	138.50 [136.00, 140.67]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.10 [3.85, 4.35]	4.10 [3.75, 4.40]	0.329
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 36.00]	13.50 [9.00, 28.00]	19.00 [12.00, 33.00]	0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	21.00 [15.00, 30.00]	25.00 [20.00, 34.00]	0.002
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.90 [2.50, 55.25]	8.45 [3.15, 44.25]	17.00 [3.90, 61.30]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	7358 (29.6)	19 (30.6)	507 (23.7)	
5-10	2680 (9.9)	2457 (9.9)	12 (19.4)	211 (9.9)	
10-50	6070 (22.4)	5523 (22.2)	12 (19.4)	535 (25.0)	
>50	6116 (22.6)	5591 (22.5)	13 (21.0)	512 (24.0)	
Missing	4342 (16.0)	3964 (15.9)	6 (9.7)	372 (17.4)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.80 [36.41, 37.09]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.33 (19.80)	129.61 (18.75)	132.14 (19.35)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.04 (11.70)	70.10 (11.60)	70.26 (11.23)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.15 (5.25)	26.95 (5.89)	25.40 (5.28)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.37 (3.77)	9.19 (3.31)	9.63 (3.96)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	3.75 (3.57)	1031.65 (771.93)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	CI No Burden	CI Low Burden	CI High Burden	p-value
<b>n</b>	27092	24913	173	2006	
<b>Died, n (%)</b>	913 (3.4)	788 (3.2)	7 (4.0)	118 (5.9)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 12.00]	7.00 [5.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.78 (7.64)	80.27 (6.93)	81.52 (7.51)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	10422 (41.8)	42 (24.3)	468 (23.3)	
76-85 years	11012 (40.6)	10037 (40.3)	94 (54.3)	881 (43.9)	
86-95 years	4958 (18.3)	4296 (17.2)	34 (19.7)	628 (31.3)	
>95 years	190 (0.7)	158 (0.6)	3 (1.7)	29 (1.4)	
<b>Female sex, n (%)</b>	14014 (51.7)	12839 (51.5)	116 (67.1)	1059 (52.8)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	13629 (54.7)	118 (68.2)	1372 (68.4)	<0.001
Surgical department	11973 (44.2)	11284 (45.3)	55 (31.8)	634 (31.6)	
<b>Hearing device, n (%)</b>					0.005
None	15674 (57.9)	14457 (58.0)	88 (50.9)	1129 (56.3)	
Hearing device	2976 (11.0)	2693 (10.8)	19 (11.0)	264 (13.2)	
Missing	8442 (31.2)	7763 (31.2)	66 (38.2)	613 (30.6)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	4445 (17.8)	40 (23.1)	471 (23.5)	
Glasses or contacts	13630 (50.3)	12642 (50.7)	67 (38.7)	921 (45.9)	
Missing	8506 (31.4)	7826 (31.4)	66 (38.2)	614 (30.6)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1345 (5.4)	12 (6.9)	85 (4.2)	0.053
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	4242 (17.0)	29 (16.8)	480 (23.9)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	3387 (13.6)	19 (11.0)	285 (14.2)	0.444
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	3140 (12.6)	28 (16.2)	294 (14.7)	0.012
<b>Dementia, n (%)</b>	2595 (9.6)	1763 (7.1)	57 (32.9)	775 (38.6)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	2810 (11.3)	26 (15.0)	205 (10.2)	0.099
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	747 (3.0)	3 (1.7)	48 (2.4)	0.194
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	500 (2.0)	0 (0.0)	42 (2.1)	0.163
<b>Liverdisease, n (%)</b>	541 (2.0)	504 (2.0)	3 (1.7)	34 (1.7)	0.582
<b>Diabetes, n (%)</b>	5692 (21.0)	5175 (20.8)	41 (23.7)	476 (23.7)	0.005
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	1105 (4.4)	11 (6.4)	116 (5.8)	0.011
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	5513 (22.1)	52 (30.1)	611 (30.5)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	4354 (17.5)	25 (14.5)	246 (12.3)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1173 (4.7)	20 (11.6)	502 (25.0)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	33.00 [26.00, 37.00]	33.00 [26.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	19.00 [16.00, 21.50]	20.00 [17.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	2.00 [1.00, 3.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	7090 (28.5)	49 (28.3)	734 (36.6)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	8170 (32.8)	39 (22.5)	467 (23.3)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 81.00]	63.50 [45.50, 84.00]	59.00 [41.00, 76.50]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [70.00, 115.00]	81.00 [61.50, 104.50]	91.00 [72.00, 120.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	137.50 [134.75, 140.00]	138.50 [136.00, 141.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.10 [3.78, 4.30]	4.10 [3.75, 4.40]	0.264
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.88]	16.00 [9.25, 26.00]	19.00 [12.00, 33.50]	<0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	23.00 [19.00, 30.00]	25.00 [20.00, 34.50]	0.002
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	11.80 [2.50, 55.05]	13.50 [3.00, 61.75]	17.70 [4.00, 62.02]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	7376 (29.6)	51 (29.5)	457 (22.8)	
5-10	2680 (9.9)	2460 (9.9)	17 (9.8)	203 (10.1)	
10-50	6070 (22.4)	5527 (22.2)	38 (22.0)	505 (25.2)	
>50	6116 (22.6)	5593 (22.5)	44 (25.4)	479 (23.9)	
Missing	4342 (16.0)	3957 (15.9)	23 (13.3)	362 (18.0)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.60 [36.25, 36.90]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.34 (19.80)	131.88 (18.39)	131.94 (19.39)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.04 (11.70)	71.16 (10.99)	70.19 (11.27)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.15 (5.25)	25.38 (6.07)	25.37 (5.19)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.38 (3.78)	9.53 (3.63)	9.57 (3.94)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	20.00 (8.42)	340.20 (233.92)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	GABS No Burden	GABS Low Burden	GABS High Burden	p-value
<b>n</b>	27092	10057	8529	8506	
<b>Died, n (%)</b>	913 (3.4)	265 (2.6)	222 (2.6)	426 (5.0)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 9.00]	7.00 [5.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.74 (7.62)	77.81 (7.66)	78.74 (7.74)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	4226 (42.0)	3581 (42.0)	3125 (36.7)	
76-85 years	11012 (40.6)	4076 (40.5)	3404 (39.9)	3532 (41.5)	
86-95 years	4958 (18.3)	1694 (16.8)	1484 (17.4)	1780 (20.9)	
>95 years	190 (0.7)	61 (0.6)	60 (0.7)	69 (0.8)	
<b>Female sex, n (%)</b>	14014 (51.7)	4802 (47.7)	4531 (53.1)	4681 (55.0)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	5700 (56.7)	4184 (49.1)	5235 (61.5)	<0.001
Surgical department	11973 (44.2)	4357 (43.3)	4345 (50.9)	3271 (38.5)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	5241 (52.1)	5261 (61.7)	5172 (60.8)	
Hearing device	2976 (11.0)	974 (9.7)	1009 (11.8)	993 (11.7)	
Missing	8442 (31.2)	3842 (38.2)	2259 (26.5)	2341 (27.5)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	1631 (16.2)	1607 (18.8)	1718 (20.2)	
Glasses or contacts	13630 (50.3)	4560 (45.3)	4637 (54.4)	4433 (52.1)	
Missing	8506 (31.4)	3866 (38.4)	2285 (26.8)	2355 (27.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	608 (6.0)	416 (4.9)	418 (4.9)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	1453 (14.4)	1309 (15.3)	1989 (23.4)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1206 (12.0)	1174 (13.8)	1311 (15.4)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	1672 (16.6)	879 (10.3)	911 (10.7)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	763 (7.6)	626 (7.3)	1206 (14.2)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	738 (7.3)	835 (9.8)	1468 (17.3)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	166 (1.7)	269 (3.2)	363 (4.3)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	230 (2.3)	143 (1.7)	169 (2.0)	0.012
<b>Liverdisease, n (%)</b>	541 (2.0)	206 (2.0)	174 (2.0)	161 (1.9)	0.709
<b>Diabetes, n (%)</b>	5692 (21.0)	1696 (16.9)	1820 (21.3)	2176 (25.6)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	597 (5.9)	264 (3.1)	371 (4.4)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2025 (20.1)	1836 (21.5)	2315 (27.2)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	1644 (16.3)	1548 (18.1)	1433 (16.8)	0.004
<b>Delirium, n (%)</b>	1695 (6.3)	564 (5.6)	325 (3.8)	806 (9.5)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [37.00, 40.00]	39.00 [35.00, 40.00]	37.00 [32.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	2989 (29.7)	2383 (27.9)	2501 (29.4)	0.02
<b>Surgery during stay, n (%)</b>	8676 (32.0)	3260 (32.4)	3215 (37.7)	2201 (25.9)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 81.00]	63.00 [45.00, 80.00]	62.00 [43.88, 80.00]	0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [71.00, 115.00]	87.00 [70.00, 114.00]	87.50 [69.00, 117.50]	0.534
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [136.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.30]	4.05 [3.75, 4.35]	4.05 [3.75, 4.40]	0.28
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 38.00]	20.00 [14.00, 34.00]	20.00 [13.00, 34.00]	0.01
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 36.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	0.003
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	8.70 [2.00, 47.46]	11.00 [2.40, 52.50]	19.00 [4.00, 67.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	3447 (34.3)	2454 (28.8)	1983 (23.3)	
5-10	2680 (9.9)	970 (9.6)	838 (9.8)	872 (10.3)	
10-50	6070 (22.4)	2002 (19.9)	1821 (21.4)	2247 (26.4)	
>50	6116 (22.6)	2049 (20.4)	1770 (20.8)	2297 (27.0)	
Missing	4342 (16.0)	1589 (15.8)	1646 (19.3)	1107 (13.0)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.50 [36.20, 36.90]	36.54 [36.20, 36.90]	36.60 [36.30, 36.95]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	135.77 (20.96)	133.74 (18.86)	132.85 (19.26)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	73.41 (12.72)	71.50 (11.07)	70.72 (10.95)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	25.99 (4.91)	26.13 (5.12)	26.18 (5.72)	0.148
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	4.97 (2.79)	7.23 (3.11)	10.17 (3.63)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.44 (0.50)	5.39 (2.86)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	DS No Burden	DS Low Burden	DS High Burden	p-value
<b>n</b>	27092	11404	7898	7790	
<b>Died, n (%)</b>	913 (3.4)	281 (2.5)	196 (2.5)	436 (5.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 9.00]	6.00 [4.00, 10.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.87 (7.59)	77.74 (7.63)	78.72 (7.84)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	4697 (41.2)	3361 (42.6)	2874 (36.9)	
76-85 years	11012 (40.6)	4672 (41.0)	3137 (39.7)	3203 (41.1)	
86-95 years	4958 (18.3)	1966 (17.2)	1349 (17.1)	1643 (21.1)	
>95 years	190 (0.7)	69 (0.6)	51 (0.6)	70 (0.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	5426 (47.6)	4173 (52.8)	4415 (56.7)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	6450 (56.6)	3881 (49.1)	4788 (61.5)	<0.001
Surgical department	11973 (44.2)	4954 (43.4)	4017 (50.9)	3002 (38.5)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	6084 (53.3)	4896 (62.0)	4694 (60.3)	
Hearing device	2976 (11.0)	1140 (10.0)	945 (12.0)	891 (11.4)	
Missing	8442 (31.2)	4180 (36.7)	2057 (26.0)	2205 (28.3)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	1902 (16.7)	1468 (18.6)	1586 (20.4)	
Glasses or contacts	13630 (50.3)	5286 (46.4)	4362 (55.2)	3982 (51.1)	
Missing	8506 (31.4)	4216 (37.0)	2068 (26.2)	2222 (28.5)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	751 (6.6)	356 (4.5)	335 (4.3)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	1654 (14.5)	1318 (16.7)	1779 (22.8)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1418 (12.4)	1147 (14.5)	1126 (14.5)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	1842 (16.2)	818 (10.4)	802 (10.3)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	820 (7.2)	682 (8.6)	1093 (14.0)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	876 (7.7)	710 (9.0)	1455 (18.7)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	190 (1.7)	297 (3.8)	311 (4.0)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	253 (2.2)	133 (1.7)	156 (2.0)	0.033
<b>Liverdisease, n (%)</b>	541 (2.0)	217 (1.9)	183 (2.3)	141 (1.8)	0.049
<b>Diabetes, n (%)</b>	5692 (21.0)	1923 (16.9)	1994 (25.2)	1775 (22.8)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	627 (5.5)	262 (3.3)	343 (4.4)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2369 (20.8)	1806 (22.9)	2001 (25.7)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	1860 (16.3)	1489 (18.9)	1276 (16.4)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	594 (5.2)	368 (4.7)	733 (9.4)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [37.00, 40.00]	39.00 [35.00, 40.00]	36.00 [31.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	3339 (29.3)	2241 (28.4)	2293 (29.4)	0.273
<b>Surgery during stay, n (%)</b>	8676 (32.0)	3673 (32.2)	2928 (37.1)	2075 (26.6)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [46.00, 80.00]	63.00 [45.00, 80.00]	63.00 [44.00, 81.00]	0.653
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	88.00 [71.00, 115.00]	87.00 [70.50, 115.50]	86.00 [68.00, 116.00]	<0.001
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [136.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.75, 4.35]	4.05 [3.75, 4.40]	0.231
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.50 [14.00, 36.00]	20.00 [14.00, 34.00]	20.00 [13.00, 35.00]	0.077
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	0.051
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	7.50 [2.00, 41.00]	12.25 [2.60, 58.50]	21.80 [5.00, 70.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	4033 (35.4)	2209 (28.0)	1642 (21.1)	
5-10	2680 (9.9)	1120 (9.8)	800 (10.1)	760 (9.8)	
10-50	6070 (22.4)	2269 (19.9)	1705 (21.6)	2096 (26.9)	
>50	6116 (22.6)	2120 (18.6)	1787 (22.6)	2209 (28.4)	
Missing	4342 (16.0)	1862 (16.3)	1397 (17.7)	1083 (13.9)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.50 [36.20, 36.90]	36.55 [36.23, 36.90]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	136.02 (20.77)	133.65 (18.68)	132.18 (19.27)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	73.36 (12.55)	71.46 (10.92)	70.42 (10.99)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.09 (4.92)	26.25 (5.16)	25.93 (5.77)	0.007
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	5.38 (2.97)	7.62 (3.34)	9.98 (3.74)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.32 (0.72)	7.13 (4.24)	<0.001



Supplementary Table S3: Table 1's categorical approach					
	Overall	BAADS No Burden	BAADS Low Burden	BAADS High Burden	p-value
<b>n</b>	27092	11257	7692	8143	
<b>Died, n (%)</b>	913 (3.4)	276 (2.5)	197 (2.6)	440 (5.4)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [5.00, 11.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.54 (7.59)	77.99 (7.68)	78.91 (7.76)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	4873 (43.3)	3148 (40.9)	2911 (35.7)	
76-85 years	11012 (40.6)	4485 (39.8)	3092 (40.2)	3435 (42.2)	
86-95 years	4958 (18.3)	1836 (16.3)	1395 (18.1)	1727 (21.2)	
>95 years	190 (0.7)	63 (0.6)	57 (0.7)	70 (0.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	5326 (47.3)	4140 (53.8)	4548 (55.9)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	6138 (54.5)	3662 (47.6)	5319 (65.3)	<0.001
Surgical department	11973 (44.2)	5119 (45.5)	4030 (52.4)	2824 (34.7)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	6028 (53.5)	4761 (61.9)	4885 (60.0)	
Hearing device	2976 (11.0)	1117 (9.9)	931 (12.1)	928 (11.4)	
Missing	8442 (31.2)	4112 (36.5)	2000 (26.0)	2330 (28.6)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	1881 (16.7)	1418 (18.4)	1657 (20.3)	
Glasses or contacts	13630 (50.3)	5242 (46.6)	4239 (55.1)	4149 (51.0)	
Missing	8506 (31.4)	4134 (36.7)	2035 (26.5)	2337 (28.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	645 (5.7)	398 (5.2)	399 (4.9)	0.031
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	1556 (13.8)	1209 (15.7)	1986 (24.4)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1361 (12.1)	1064 (13.8)	1266 (15.5)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	1801 (16.0)	774 (10.1)	887 (10.9)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	833 (7.4)	637 (8.3)	1125 (13.8)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	802 (7.1)	569 (7.4)	1670 (20.5)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	185 (1.6)	262 (3.4)	351 (4.3)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	237 (2.1)	122 (1.6)	183 (2.2)	0.007
<b>Liverdisease, n (%)</b>	541 (2.0)	225 (2.0)	171 (2.2)	145 (1.8)	0.138
<b>Diabetes, n (%)</b>	5692 (21.0)	2236 (19.9)	1602 (20.8)	1854 (22.8)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	638 (5.7)	237 (3.1)	357 (4.4)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2177 (19.3)	1719 (22.3)	2280 (28.0)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	1826 (16.2)	1399 (18.2)	1400 (17.2)	0.002
<b>Delirium, n (%)</b>	1695 (6.3)	593 (5.3)	343 (4.5)	759 (9.3)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [37.00, 40.00]	39.00 [35.00, 40.00]	37.00 [31.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	3390 (30.1)	2215 (28.8)	2268 (27.9)	0.002
<b>Surgery during stay, n (%)</b>	8676 (32.0)	3860 (34.3)	2948 (38.3)	1868 (22.9)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [47.00, 81.00]	63.00 [45.00, 80.00]	62.00 [43.00, 80.00]	<0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [71.00, 113.00]	87.00 [70.00, 116.00]	88.00 [69.00, 118.00]	0.923
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [136.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.30]	4.05 [3.75, 4.39]	4.05 [3.75, 4.40]	0.99
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 37.00]	20.00 [14.00, 34.00]	20.00 [13.00, 35.00]	0.028
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	0.17
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	8.90 [2.00, 47.20]	10.90 [2.40, 50.50]	20.00 [4.40, 69.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	3811 (33.9)	2204 (28.7)	1869 (23.0)	
5-10	2680 (9.9)	1064 (9.5)	786 (10.2)	830 (10.2)	
10-50	6070 (22.4)	2255 (20.0)	1644 (21.4)	2171 (26.7)	
>50	6116 (22.6)	2257 (20.0)	1555 (20.2)	2304 (28.3)	
Missing	4342 (16.0)	1870 (16.6)	1503 (19.5)	969 (11.9)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.50 [36.20, 36.90]	36.50 [36.20, 36.85]	36.60 [36.30, 37.00]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	135.64 (20.53)	133.90 (19.03)	132.52 (19.36)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	73.24 (12.44)	71.48 (11.13)	70.64 (11.02)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.12 (4.94)	26.15 (5.11)	26.01 (5.75)	0.358
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	5.26 (2.90)	7.48 (3.20)	10.09 (3.71)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.39 (0.49)	6.13 (3.75)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	KABS No Burden	KABS Low Burden	KABS High Burden	p-value
<b>n</b>	27092	14287	7129	5676	
<b>Died, n (%)</b>	913 (3.4)	366 (2.6)	231 (3.2)	316 (5.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	7.00 [4.00, 10.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.64 (7.56)	78.24 (7.75)	78.97 (7.83)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	6094 (42.7)	2805 (39.3)	2033 (35.8)	
76-85 years	11012 (40.6)	5771 (40.4)	2889 (40.5)	2352 (41.4)	
86-95 years	4958 (18.3)	2334 (16.3)	1386 (19.4)	1238 (21.8)	
>95 years	190 (0.7)	88 (0.6)	49 (0.7)	53 (0.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	6770 (47.4)	4032 (56.6)	3212 (56.6)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	7981 (55.9)	3751 (52.6)	3387 (59.7)	<0.001
Surgical department	11973 (44.2)	6306 (44.1)	3378 (47.4)	2289 (40.3)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	7858 (55.0)	4363 (61.2)	3453 (60.8)	
Hearing device	2976 (11.0)	1452 (10.2)	867 (12.2)	657 (11.6)	
Missing	8442 (31.2)	4977 (34.8)	1899 (26.6)	1566 (27.6)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	2476 (17.3)	1298 (18.2)	1182 (20.8)	
Glasses or contacts	13630 (50.3)	6796 (47.6)	3913 (54.9)	2921 (51.5)	
Missing	8506 (31.4)	5015 (35.1)	1918 (26.9)	1573 (27.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	864 (6.0)	310 (4.3)	268 (4.7)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	2047 (14.3)	1373 (19.3)	1331 (23.4)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1860 (13.0)	991 (13.9)	840 (14.8)	0.003
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	2115 (14.8)	701 (9.8)	646 (11.4)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	1000 (7.0)	653 (9.2)	942 (16.6)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1252 (8.8)	974 (13.7)	815 (14.4)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	233 (1.6)	316 (4.4)	249 (4.4)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	306 (2.1)	113 (1.6)	123 (2.2)	0.014
<b>Liverdisease, n (%)</b>	541 (2.0)	278 (1.9)	153 (2.1)	110 (1.9)	0.576
<b>Diabetes, n (%)</b>	5692 (21.0)	2973 (20.8)	1442 (20.2)	1277 (22.5)	0.005
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	725 (5.1)	248 (3.5)	259 (4.6)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2982 (20.9)	1697 (23.8)	1497 (26.4)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	2366 (16.6)	1270 (17.8)	989 (17.4)	0.052
<b>Delirium, n (%)</b>	1695 (6.3)	689 (4.8)	369 (5.2)	637 (11.2)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [36.00, 40.00]	39.00 [34.00, 40.00]	36.00 [31.00, 40.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	4015 (28.1)	2052 (28.8)	1806 (31.8)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	4633 (32.4)	2535 (35.6)	1508 (26.6)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 80.92]	63.00 [44.50, 80.00]	62.00 [43.00, 80.00]	0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.42 [71.00, 115.00]	87.00 [69.50, 115.00]	87.00 [69.00, 117.00]	0.016
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.50, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	0.103
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.10 [3.75, 4.40]	0.138
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 37.00]	20.00 [14.00, 34.00]	19.00 [13.00, 34.00]	0.001
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.50 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 34.00]	0.007
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	10.20 [2.00, 54.50]	12.90 [3.00, 55.00]	16.00 [3.80, 58.35]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	4575 (32.0)	1923 (27.0)	1386 (24.4)	
5-10	2680 (9.9)	1354 (9.5)	708 (9.9)	618 (10.9)	
10-50	6070 (22.4)	2947 (20.6)	1633 (22.9)	1490 (26.3)	
>50	6116 (22.6)	3189 (22.3)	1558 (21.9)	1369 (24.1)	
Missing	4342 (16.0)	2222 (15.6)	1307 (18.3)	813 (14.3)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.20, 36.90]	36.55 [36.23, 36.90]	36.60 [36.30, 36.92]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	135.05 (20.35)	133.24 (19.10)	133.15 (19.14)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.66 (12.19)	71.19 (11.09)	71.02 (11.05)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.20 (5.04)	25.92 (5.30)	26.09 (5.67)	0.01
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	5.93 (3.15)	8.13 (3.55)	10.24 (3.78)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.39 (0.49)	4.98 (2.60)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	ATS No Burden	ATS Low Burden	ATS High Burden	p-value
<b>n</b>	27092	25722	415	955	
<b>Died, n (%)</b>	913 (3.4)	797 (3.1)	24 (5.8)	92 (9.6)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 10.00]	8.00 [5.00, 12.00]	7.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.94 (7.66)	78.08 (7.64)	81.64 (7.66)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	10563 (41.1)	158 (38.1)	211 (22.1)	
76-85 years	11012 (40.6)	10400 (40.4)	188 (45.3)	424 (44.4)	
86-95 years	4958 (18.3)	4594 (17.9)	62 (14.9)	302 (31.6)	
>95 years	190 (0.7)	165 (0.6)	7 (1.7)	18 (1.9)	
<b>Female sex, n (%)</b>	14014 (51.7)	13197 (51.3)	256 (61.7)	561 (58.7)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	14219 (55.3)	264 (63.6)	636 (66.6)	<0.001
Surgical department	11973 (44.2)	11503 (44.7)	151 (36.4)	319 (33.4)	
<b>Hearing device, n (%)</b>					0.001
None	15674 (57.9)	14849 (57.7)	279 (67.2)	546 (57.2)	
Hearing device	2976 (11.0)	2838 (11.0)	42 (10.1)	96 (10.1)	
Missing	8442 (31.2)	8035 (31.2)	94 (22.7)	313 (32.8)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	4626 (18.0)	88 (21.2)	242 (25.3)	
Glasses or contacts	13630 (50.3)	13000 (50.5)	233 (56.1)	397 (41.6)	
Missing	8506 (31.4)	8096 (31.5)	94 (22.7)	316 (33.1)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	1378 (5.4)	21 (5.1)	43 (4.5)	0.499
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	4480 (17.4)	67 (16.1)	204 (21.4)	0.005
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	3497 (13.6)	66 (15.9)	128 (13.4)	0.389
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	3293 (12.8)	40 (9.6)	129 (13.5)	0.126
<b>Dementia, n (%)</b>	2595 (9.6)	2198 (8.5)	35 (8.4)	362 (37.9)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	2888 (11.2)	56 (13.5)	97 (10.2)	0.198
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	760 (3.0)	19 (4.6)	19 (2.0)	0.031
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	520 (2.0)	7 (1.7)	15 (1.6)	0.558
<b>Liverdisease, n (%)</b>	541 (2.0)	511 (2.0)	8 (1.9)	22 (2.3)	0.785
<b>Diabetes, n (%)</b>	5692 (21.0)	5402 (21.0)	83 (20.0)	207 (21.7)	0.775
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	1154 (4.5)	20 (4.8)	58 (6.1)	0.067
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	5813 (22.6)	91 (21.9)	272 (28.5)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	4297 (16.7)	142 (34.2)	186 (19.5)	<0.001
<b>Delirium, n (%)</b>	1695 (6.3)	1424 (5.5)	22 (5.3)	249 (26.1)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	39.00 [35.00, 40.00]	36.00 [31.00, 40.00]	33.00 [25.00, 38.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	22.00 [20.00, 23.00]	20.00 [18.00, 22.00]	19.00 [17.00, 22.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	1.00 [1.00, 3.00]	2.00 [1.00, 3.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	7423 (28.9)	111 (26.7)	339 (35.5)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	8376 (32.6)	94 (22.7)	206 (21.6)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	64.00 [45.00, 80.00]	62.00 [47.00, 83.38]	61.00 [41.75, 79.00]	0.032
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [70.00, 115.50]	85.50 [66.12, 108.00]	85.00 [66.50, 118.00]	0.004
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	137.50 [135.00, 140.00]	0.069
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.35]	4.00 [3.70, 4.35]	4.10 [3.75, 4.40]	0.202
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	20.00 [14.00, 35.00]	19.00 [13.00, 35.75]	19.25 [12.00, 30.00]	0.092
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	25.00 [20.00, 35.00]	25.00 [20.00, 36.62]	25.00 [19.00, 35.00]	0.748
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	12.00 [2.50, 55.25]	16.55 [4.00, 69.00]	19.00 [4.00, 65.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	7558 (29.4)	103 (24.8)	223 (23.4)	
5-10	2680 (9.9)	2536 (9.9)	54 (13.0)	90 (9.4)	
10-50	6070 (22.4)	5702 (22.2)	101 (24.3)	267 (28.0)	
>50	6116 (22.6)	5753 (22.4)	114 (27.5)	249 (26.1)	
Missing	4342 (16.0)	4173 (16.2)	43 (10.4)	126 (13.2)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.55 [36.23, 36.90]	36.60 [36.30, 36.90]	36.60 [36.30, 37.00]	0.006
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	134.26 (19.74)	130.59 (19.89)	132.40 (20.10)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	71.96 (11.69)	70.41 (11.60)	70.71 (11.21)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.15 (5.24)	24.99 (5.19)	24.79 (5.61)	<0.001
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	7.44 (3.79)	10.40 (4.11)	9.70 (3.85)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.95 (0.45)	6.78 (3.98)	<0.001

Supplementary Table S3: Table 1's categorical approach					
	Overall	DRS No Burden	DRS Low Burden	DRS High Burden	p-value
<b>n</b>	27092	13523	7875	5694	
<b>Died, n (%)</b>	913 (3.4)	346 (2.6)	252 (3.2)	315 (5.5)	<0.001
<b>Length of stay, median days [IQR]</b>	6.00 [4.00, 10.00]	6.00 [4.00, 9.00]	7.00 [4.00, 10.00]	8.00 [5.00, 12.00]	<0.001
<b>Age, mean years (±SD)</b>	78.08 (7.69)	77.62 (7.62)	78.25 (7.66)	78.94 (7.80)	<0.001
<b>Age, n (%)</b>					<0.001
65-75 years	10932 (40.4)	5782 (42.8)	3111 (39.5)	2039 (35.8)	
76-85 years	11012 (40.6)	5423 (40.1)	3212 (40.8)	2377 (41.7)	
86-95 years	4958 (18.3)	2230 (16.5)	1492 (18.9)	1236 (21.7)	
>95 years	190 (0.7)	88 (0.7)	60 (0.8)	42 (0.7)	
<b>Female sex, n (%)</b>	14014 (51.7)	6470 (47.8)	4296 (54.6)	3248 (57.0)	<0.001
<b>Department, n (%)</b>					
Medical department	15119 (55.8)	7341 (54.3)	4231 (53.7)	3547 (62.3)	<0.001
Surgical department	11973 (44.2)	6182 (45.7)	3644 (46.3)	2147 (37.7)	
<b>Hearing device, n (%)</b>					<0.001
None	15674 (57.9)	7372 (54.5)	4832 (61.4)	3470 (60.9)	
Hearing device	2976 (11.0)	1391 (10.3)	930 (11.8)	655 (11.5)	
Missing	8442 (31.2)	4760 (35.2)	2113 (26.8)	1569 (27.6)	
<b>Visual aid, n (%)</b>					<0.001
None	4956 (18.3)	2315 (17.1)	1448 (18.4)	1193 (21.0)	
Glasses or contacts	13630 (50.3)	6409 (47.4)	4299 (54.6)	2922 (51.3)	
Missing	8506 (31.4)	4799 (35.5)	2128 (27.0)	1579 (27.7)	
<b>Acute myocardial infarction, n (%)</b>	1442 (5.3)	804 (5.9)	363 (4.6)	275 (4.8)	<0.001
<b>Congestive heart failure, n (%)</b>	4751 (17.5)	1905 (14.1)	1469 (18.7)	1377 (24.2)	<0.001
<b>Peripheal vascular disease, n (%)</b>	3691 (13.6)	1647 (12.2)	1085 (13.8)	959 (16.8)	<0.001
<b>Cerebrovascular disease, n (%)</b>	3462 (12.8)	1981 (14.6)	814 (10.3)	667 (11.7)	<0.001
<b>Dementia, n (%)</b>	2595 (9.6)	945 (7.0)	691 (8.8)	959 (16.8)	<0.001
<b>COPD, n (%)</b>	3041 (11.2)	1200 (8.9)	979 (12.4)	862 (15.1)	<0.001
<b>Rheumatoid disease, n (%)</b>	798 (2.9)	225 (1.7)	287 (3.6)	286 (5.0)	<0.001
<b>Peptic ulcer disease, n (%)</b>	542 (2.0)	288 (2.1)	147 (1.9)	107 (1.9)	0.317
<b>Liverdisease, n (%)</b>	541 (2.0)	262 (1.9)	158 (2.0)	121 (2.1)	0.696
<b>Diabetes, n (%)</b>	5692 (21.0)	2211 (16.3)	1856 (23.6)	1625 (28.5)	<0.001
<b>Hemiplegia, Paraplegia, n (%)</b>	1232 (4.5)	676 (5.0)	278 (3.5)	278 (4.9)	<0.001
<b>Renal dysfunction, n (%)</b>	6176 (22.8)	2746 (20.3)	1843 (23.4)	1587 (27.9)	<0.001
<b>Cancer, n (%)</b>	4625 (17.1)	2346 (17.3)	1394 (17.7)	885 (15.5)	0.002
<b>Delirium, n (%)</b>	1695 (6.3)	695 (5.1)	384 (4.9)	616 (10.8)	<0.001
<b>Self-care Index, median [IQR]</b>	39.00 [34.00, 40.00]	40.00 [36.00, 40.00]	39.00 [34.00, 40.00]	36.00 [30.00, 39.00]	<0.001
<b>Braden, median [IQR]</b>	22.00 [20.00, 23.00]	23.00 [21.00, 23.00]	22.00 [20.00, 23.00]	21.00 [18.00, 23.00]	<0.001
<b>Nutrition deficiency score, median [IQR]</b>	1.00 [1.00, 2.00]	1.00 [1.00, 1.00]	1.00 [1.00, 2.00]	1.00 [1.00, 2.00]	<0.001
<b>Catheterisation, n (%)</b>	7873 (29.1)	4091 (30.3)	2149 (27.3)	1633 (28.7)	<0.001
<b>Surgery during stay, n (%)</b>	8676 (32.0)	4652 (34.4)	2608 (33.1)	1416 (24.9)	<0.001
<b>GFR [ml/min], median [IQR]</b>	64.00 [45.00, 80.00]	65.00 [46.00, 81.00]	63.00 [45.00, 80.00]	62.00 [43.00, 80.00]	0.001
<b>Creatinine [µmol/l], median [IQR]</b>	87.00 [70.00, 115.50]	87.00 [71.00, 115.00]	87.00 [70.00, 115.25]	87.00 [69.00, 117.00]	0.094
<b>Sodium [mmol/l], median [IQR]</b>	138.00 [135.00, 140.00]	138.00 [135.88, 140.00]	138.00 [135.00, 140.00]	138.00 [135.00, 140.00]	<0.001
<b>Potassium [mmol/l], median [IQR]</b>	4.05 [3.80, 4.35]	4.05 [3.80, 4.30]	4.05 [3.80, 4.36]	4.10 [3.75, 4.40]	0.054
<b>ALAT [U/l], median [IQR]</b>	20.00 [14.00, 35.00]	21.00 [14.00, 36.00]	20.00 [14.00, 35.00]	19.00 [13.00, 35.00]	0.032
<b>ASAT [U/l], median [IQR]</b>	25.00 [20.00, 35.00]	26.00 [20.00, 36.00]	25.00 [20.00, 35.00]	25.00 [20.00, 34.00]	<0.001
<b>CRP [mg/l], median [IQR]</b>	12.00 [2.70, 56.00]	9.05 [2.00, 49.00]	13.30 [3.00, 59.00]	18.90 [4.30, 65.00]	<0.001
<b>CRP [mg/l], n (%)</b>					<0.001
< 5	7884 (29.1)	4414 (32.6)	2163 (27.5)	1307 (23.0)	
5-10	2680 (9.9)	1279 (9.5)	789 (10.0)	612 (10.7)	
10-50	6070 (22.4)	2718 (20.1)	1833 (23.3)	1519 (26.7)	
>50	6116 (22.6)	2750 (20.3)	1846 (23.4)	1520 (26.7)	
Missing	4342 (16.0)	2362 (17.5)	1244 (15.8)	736 (12.9)	
<b>Temperature [°C], median [IQR]</b>	36.55 [36.25, 36.90]	36.52 [36.20, 36.90]	36.57 [36.25, 36.90]	36.60 [36.30, 36.95]	<0.001
<b>Systolic blood pressure [mmHg], mean (±SD)</b>	134.14 (19.77)	135.02 (20.37)	133.67 (19.15)	132.88 (19.19)	<0.001
<b>Diastolic blood pressure [mmHg], mean (±SD)</b>	71.89 (11.67)	72.87 (12.27)	71.27 (11.08)	70.66 (10.98)	<0.001
<b>BMI, mean (±SD)</b>	26.10 (5.25)	26.05 (4.91)	26.09 (5.28)	26.23 (5.93)	0.213
<b>Polymedication, mean (±SD)</b>	7.58 (3.84)	5.67 (3.04)	8.04 (3.38)	10.55 (3.71)	<0.001
<b>ACH burden per scale, mean (±SD)</b>	-	0.00 (0.00)	1.45 (0.50)	4.86 (2.34)	<0.001