

Features	Levels	Derivation:SurgWeek	Validation 1:CovidSurg–Cancer	Validation 2:Recon
Age				
	18–29 years	9106 (10.6%)	636 (2.1%)	276 (4.1%)
	30–39 years	12176 (14.1%)	1708 (5.6%)	555 (8.2%)
	40–49 years	13272 (15.4%)	3745 (12.3%)	983 (14.5%)
	50–59 years	15703 (18.2%)	6697 (22.0%)	1466 (21.6%)
	60–69 years	16665 (19.3%)	8347 (27.4%)	1623 (23.9%)
	70–79 years	13742 (15.9%)	6954 (22.8%)	1390 (20.5%)
	80–89 years	5110 (5.9%)	2265 (7.4%)	484 (7.1%)
	90+ years	457 (0.5%)	140 (0.5%)	12 (0.2%)
Anaesthetic_type				
	General	63235 (73.3%)	28771 (94.4%)	6789 (100.0%)
	Regional/local	22996 (26.7%)	1721 (5.6%)	missing
ASA_grade				
	Grade 1	21667 (25.1%)	6431 (21.1%)	1048 (15.4%)
	Grade 2	43099 (50.0%)	15752 (51.7%)	3903 (57.5%)
	Grade 3	19057 (22.1%)	7912 (25.9%)	1733 (25.5%)
	Grade 4+	2408 (2.8%)	397 (1.3%)	105 (1.5%)
BUPA_operation_grade				
	Major	53061 (61.5%)	24439 (80.1%)	6789 (100.0%)
	Minor	33170 (38.5%)	6053 (19.9%)	missing
Community_SARSCoV2_risk				
	High	57229 (66.4%)	16770 (55.0%)	missing
	Low	29002 (33.6%)	13722 (45.0%)	6789 (100.0%)
Compartment				
	Abdominopelvic	43761 (50.7%)	16817 (55.2%)	6665 (98.2%)
	Head & Neck	8228 (9.5%)	3823 (12.5%)	missing
	Limb	12514 (14.5%)	196 (0.6%)	missing
	Other	17516 (20.3%)	7226 (23.7%)	missing
	Thoracic	4212 (4.9%)	2430 (8.0%)	124 (1.8%)
Country_income				
	High income	59284 (68.8%)	24365 (79.9%)	6789 (100.0%)
	Low middle income	12333 (14.3%)	2742 (9.0%)	missing
	Upper middle income	14614 (16.9%)	3385 (11.1%)	missing
Country_income_SARSCoV2_risk				
	High income_High	48375 (56.1%)	14814 (48.6%)	missing
	High income_Low	10909 (12.7%)	9551 (31.3%)	6789 (100.0%)
	Low middle income_High	515 (0.6%)	647 (2.1%)	missing
	Low middle income_Low	11818 (13.7%)	2095 (6.9%)	missing
	Upper middle income_High	8339 (9.7%)	1309 (4.3%)	missing
	Upper middle income_Low	6275 (7.3%)	2076 (6.8%)	missing
Current_smoker				
	No	72830 (84.5%)	27311 (89.6%)	5852 (86.2%)
	Yes	13401 (15.5%)	3181 (10.4%)	937 (13.8%)
Death				
	No	85627 (99.3%)	30148 (98.9%)	6539 (96.3%)
	Yes	601 (0.7%)	320 (1.0%)	27 (0.4%)
Death	NA	3 (0.0%)	24 (0.1%)	223 (3.3%)
Hospital_type				
	COVID–19 free surgical pathway	71809 (83.3%)	8097 (26.6%)	6789 (100.0%)
	Hospital with no defined pathway	14422 (16.7%)	22395 (73.4%)	missing
Indication				
	Benign	64822 (75.2%)	missing	3884 (57.2%)
	Cancer	21409 (24.8%)	30492 (100.0%)	2905 (42.8%)
Label				
	Negative	84450 (97.9%)	29307 (96.1%)	6471 (95.3%)
	Positive	1781 (2.1%)	1185 (3.9%)	318 (4.7%)
Preexisting_respiratory_disease				
	No	77747 (90.2%)	27282 (89.5%)	5611 (82.6%)
	Yes	8484 (9.8%)	3210 (10.5%)	1178 (17.4%)
Preoperative_SARSCoV2_test				
	Negative	61339 (71.1%)	14128 (46.3%)	6789 (100.0%)
	Not performed	24892 (28.9%)	16364 (53.7%)	missing
RCRI				
	0	38541 (44.7%)	9245 (30.3%)	4112 (60.6%)
	1	37688 (43.7%)	15896 (52.1%)	2210 (32.6%)
	2	7595 (8.8%)	4284 (14.0%)	448 (6.6%)
	3+	2407 (2.8%)	1067 (3.5%)	19 (0.3%)
Sex				
	Female	47219 (54.8%)	18329 (60.1%)	3905 (57.5%)
	Male	39012 (45.2%)	12163 (39.9%)	2884 (42.5%)