

Appendix 2. Distributions in all potential predictors, split by with and without readmission within 30 days of discharge.

variable	total	with	without	P
n	138'222	10'300 (7.5%)	127'922 (92.5%)	
PCG acid disorder (= yes)	21'566 (15.6%)	1'908 (18.5%)	19'658 (15.4%)	<0.001 "
PCG bone disease (= yes)	5'141 (3.7%)	473 (4.6%)	4'668 (3.6%)	<0.001 "
PCG cancer (= yes)	2'952 (2.1%)	357 (3.5%)	2'595 (2.0%)	<0.001 "
PCG cardiac disease (= yes)	66'075 (47.8%)	5'657 (54.9%)	60'418 (47.2%)	<0.001 "
PCG dementia (= yes)	3'806 (2.8%)	277 (2.7%)	3'529 (2.8%)	0.707 "
PCG diabetes (= yes)	13'747 (9.9%)	1'278 (12.4%)	12'469 (9.7%)	<0.001 "
PCG epilepsy (= yes)	7'340 (5.3%)	635 (6.2%)	6'705 (5.2%)	<0.001 "
PCG glaucoma (= yes)	9'172 (6.6%)	714 (6.9%)	8'458 (6.6%)	0.209 "
PCG gout (= yes)	4'959 (3.6%)	501 (4.9%)	4'458 (3.5%)	<0.001 "
PCG hiv (= yes)	414 (0.3%)	36 (0.3%)	378 (0.3%)	0.348 "
PCG hyperlipedemia (= yes)	31'027 (22.4%)	2'748 (26.7%)	28'279 (22.1%)	<0.001 "
PCG intestinal inflammatory diseases (= yes)	1'244 (0.9%)	135 (1.3%)	1'109 (0.9%)	<0.001 "
PCG iron deficiency (= yes)	7'620 (5.5%)	602 (5.8%)	7'018 (5.5%)	0.127 "
PCG migraine (= yes)	2'304 (1.7%)	162 (1.6%)	2'142 (1.7%)	0.471 "
PCG pain (= yes)	20'348 (14.7%)	1'858 (18.0%)	18'490 (14.5%)	<0.001 "
PCG parkinsons disease (= yes)	2'444 (1.8%)	217 (2.1%)	2'227 (1.7%)	0.00818 "
PCG psychological disorder (= yes)	23'750 (17.2%)	2'013 (19.5%)	21'737 (17.0%)	<0.001 "
PCG psychosis (= yes)	17'329 (12.5%)	1'411 (13.7%)	15'918 (12.4%)	<0.001 "
PCG respiratory disease (= yes)	29'840 (21.6%)	2'330 (22.6%)	27'510 (21.5%)	0.00832 "
PCG rheuma (= yes)	4'429 (3.2%)	342 (3.3%)	4'087 (3.2%)	0.485 "
PCG thyroid disease (= yes)	9'095 (6.6%)	691 (6.7%)	8'404 (6.6%)	0.577 "
PCG tuberculosis (= yes)	147 (0.1%)	11 (0.1%)	136 (0.1%)	1 "
number of PCG				<0.001 ""
none	39'003 (28.2%)	2'387 (23.2%)	36'616 (28.6%)	
one	25'886 (18.7%)	1'743 (16.9%)	24'143 (18.9%)	
multiple	73'333 (53.1%)	6'170 (59.9%)	67'163 (52.5%)	
immunosuppressiva (= yes)	29'721 (21.5%)	2'412 (23.4%)	27'309 (21.3%)	<0.001 "
neurological disorder (= yes)	6'226 (4.5%)	501 (4.9%)	5'725 (4.5%)	0.0677 "
substance abuse (= yes)	1'038 (0.8%)	92 (0.9%)	946 (0.7%)	0.0852 "
prosthesis (= yes)	810 (0.6%)	48 (0.5%)	762 (0.6%)	0.107 "
functional restrictions (= yes)	3'692 (2.7%)	337 (3.3%)	3'355 (2.6%)	<0.001 "
emergency index admission (= yes)	40'058 (29.0%)	3'869 (37.6%)	36'189 (28.3%)	<0.001 "
number of emergency visits				<0.001 ""

never	106'494 (77.0%)	7'667 (74.4%)	98'827 (77.3%)	
once	21'534 (15.6%)	1'700 (16.5%)	19'834 (15.5%)	
multiple	10'194 (7.4%)	933 (9.1%)	9'261 (7.2%)	
costs general practitioners				<0.001 ""
0	32'196 (23.3%)	2'307 (22.4%)	29'889 (23.4%)	
low	79'519 (57.5%)	5'751 (55.8%)	73'768 (57.7%)	
high	26'507 (19.2%)	2'242 (21.8%)	24'265 (19.0%)	
costs specialists				<0.001 ""
0	37'122 (26.9%)	2'890 (28.1%)	34'232 (26.8%)	
low	75'825 (54.9%)	5'449 (52.9%)	70'376 (55.0%)	
high	25'275 (18.3%)	1'961 (19.0%)	23'314 (18.2%)	
costs hospital outpatient				<0.001 ""
0	57'415 (41.5%)	4'072 (39.5%)	53'343 (41.7%)	
low	60'605 (43.8%)	4'166 (40.4%)	56'439 (44.1%)	
high	20'202 (14.6%)	2'062 (20.0%)	18'140 (14.2%)	
costs home care				<0.001 ""
0	131'275 (95.0%)	9'619 (93.4%)	121'656 (95.1%)	
low	5'210 (3.8%)	499 (4.8%)	4'711 (3.7%)	
high	1'737 (1.3%)	182 (1.8%)	1'555 (1.2%)	
costs medication outpatient				<0.001 ""
0	12'661 (9.2%)	861 (8.4%)	11'800 (9.2%)	
low	94'172 (68.1%)	6'455 (62.7%)	87'717 (68.6%)	
high	31'389 (22.7%)	2'984 (29.0%)	28'405 (22.2%)	
costs laboratory				<0.001 ""
0	27'843 (20.1%)	1'828 (17.7%)	26'015 (20.3%)	
low	82'787 (59.9%)	5'978 (58.0%)	76'809 (60.0%)	
high	27'592 (20.0%)	2'494 (24.2%)	25'098 (19.6%)	
costs therapeutic devices				<0.001 ""
0	71'419 (51.7%)	4'917 (47.7%)	66'502 (52.0%)	
low	50'104 (36.2%)	3'754 (36.4%)	46'350 (36.2%)	
high	16'699 (12.1%)	1'629 (15.8%)	15'070 (11.8%)	
costs physiotherapy				0.00132 ""
0	107'920 (78.1%)	8'178 (79.4%)	99'742 (78.0%)	
low	22'726 (16.4%)	1'564 (15.2%)	21'162 (16.5%)	
high	7'576 (5.5%)	558 (5.4%)	7'018 (5.5%)	
costs acute care hospital				<0.001 ""
0	130'733 (94.6%)	9'533 (92.6%)	121'200 (94.7%)	
low	5'617 (4.1%)	532 (5.2%)	5'085 (4.0%)	
high	1'872 (1.4%)	235 (2.3%)	1'637 (1.3%)	
costs psychiatry				0.527 ""
0	137'590 (99.5%)	10'260 (99.6%)	127'330 (99.5%)	
low	474 (0.3%)	29 (0.3%)	445 (0.3%)	

high	158 (0.1%)	11 (0.1%)	147 (0.1%)	
costs rehabilitation				0.0161 ""
0	137'497 (99.5%)	10'226 (99.3%)	127'271 (99.5%)	
low	544 (0.4%)	57 (0.6%)	487 (0.4%)	
high	181 (0.1%)	17 (0.2%)	164 (0.1%)	
costs nursing home				0.503 ""
0	137'966 (99.8%)	10'276 (99.8%)	127'690 (99.8%)	
low	192 (0.1%)	18 (0.2%)	174 (0.1%)	
high	64 (0.0%)	6 (0.1%)	58 (0.0%)	
number of outpatient visits				<0.001 ""
0	10'260 (7.4%)	812 (7.9%)	9'448 (7.4%)	
low	96'410 (69.8%)	6'690 (65.0%)	89'720 (70.1%)	
high	31'552 (22.8%)	2'798 (27.2%)	28'754 (22.5%)	
number of hospitalisations				<0.001 ""
never	129'707 (93.8%)	9'456 (91.8%)	120'251 (94.0%)	
once	6'399 (4.6%)	579 (5.6%)	5'820 (4.5%)	
multiple	2'116 (1.5%)	265 (2.6%)	1'851 (1.4%)	
sex (= female)	73'580 (53.2%)	4'808 (46.7%)	68'772 (53.8%)	<0.001 "
age group				<0.001 ""
.. - 29	8'729 (6.3%)	482 (4.7%)	8'247 (6.4%)	
30 - 39	11'382 (8.2%)	616 (6.0%)	10'766 (8.4%)	
40 - 49	16'683 (12.1%)	1'053 (10.2%)	15'630 (12.2%)	
50 - 59	23'316 (16.9%)	1'627 (15.8%)	21'689 (17.0%)	
60 - 69	28'581 (20.7%)	2'282 (22.2%)	26'299 (20.6%)	
70 - 79	29'558 (21.4%)	2'418 (23.5%)	27'140 (21.2%)	
80 - 89	17'288 (12.5%)	1'605 (15.6%)	15'683 (12.3%)	
90 - ..	2'685 (1.9%)	217 (2.1%)	2'468 (1.9%)	
deductible (= high)	114'727 (83.0%)	8'750 (85.0%)	105'977 (82.8%)	<0.001 "
health plan				<0.001 ""
standard	67'980 (49.2%)	5'375 (52.2%)	62'605 (48.9%)	
family doctor	34'598 (25.0%)	2'560 (24.9%)	32'038 (25.0%)	
list	13'661 (9.9%)	940 (9.1%)	12'721 (9.9%)	
telemedicine w/ restrictions	7'800 (5.6%)	476 (4.6%)	7'324 (5.7%)	
telemedicine w/o restrictions	14'183 (10.3%)	949 (9.2%)	13'234 (10.3%)	
additional hospital insurance (= yes)	32'013 (23.2%)	2'389 (23.2%)	29'624 (23.2%)	0.932 "
language region				<0.001 ""
german	105'029 (76.0%)	8'023 (77.9%)	97'006 (75.8%)	
french	20'251 (14.7%)	1'265 (12.3%)	18'986 (14.8%)	
italian	12'942 (9.4%)	1'012 (9.8%)	11'930 (9.3%)	
urban/rural (= urban)	108'186 (78.3%)	8'056 (78.2%)	100'130 (78.3%)	0.882 "
geographical region				<0.001 ""

Zurich	33'861 (24.5%)	2'656 (25.8%)	31'205 (24.4%)	
Lake Geneva	17'165 (12.4%)	1'057 (10.3%)	16'108 (12.6%)	
Midland	25'790 (18.7%)	1'895 (18.4%)	23'895 (18.7%)	
Northwest	21'009 (15.2%)	1'565 (15.2%)	19'444 (15.2%)	
East	19'330 (14.0%)	1'583 (15.4%)	17'747 (13.9%)	
Ticino	12'562 (9.1%)	988 (9.6%)	11'574 (9.0%)	
Central	8'505 (6.2%)	556 (5.4%)	7'949 (6.2%)	
purchasing power				0.465 ""
low	35'181 (25.5%)	2'649 (25.7%)	32'532 (25.4%)	
mid	68'672 (49.7%)	5'141 (49.9%)	63'531 (49.7%)	
high	34'369 (24.9%)	2'510 (24.4%)	31'859 (24.9%)	
number of relocations				0.0501 ""
never	128'520 (93.0%)	9'631 (93.5%)	118'889 (92.9%)	
once	9'217 (6.7%)	642 (6.2%)	8'575 (6.7%)	
multiple	485 (0.4%)	27 (0.3%)	458 (0.4%)	

' ) Kruskal-Wallis test, " ) Fisher exact test, "" ) Chi-Square test