| Dependent: had\_HSA |  | 0 | 1 | p |
| --- | --- | --- | --- | --- |
| age\_at\_final\_date\_GB | >7-<9y | 189 (7.4) | 123 (25.1) | <0.001 |
|  | <5y | 346 (13.5) | 5 (1.0) |  |
|  | >5-<7y | 178 (7.0) | 24 (4.9) |  |
|  | >9-<11y | 683 (26.7) | 231 (47.1) |  |
|  | >11-<13y | 1041 (40.8) | 104 (21.2) |  |
|  | >13y | 117 (4.6) | 3 (0.6) |  |
| age\_at\_final\_date\_bio | >5-<8y | 264 (10.3) | 67 (13.7) | <0.001 |
|  | <5y | 346 (13.5) | 5 (1.0) |  |
|  | >8-<11y | 786 (30.8) | 311 (63.5) |  |
|  | >11-<13y | 1041 (40.8) | 104 (21.2) |  |
|  | >13y | 117 (4.6) | 3 (0.6) |  |
| age\_at\_final\_date\_quartiles | 0.74-<8.47 years | 649 (25.4) | 112 (22.9) | <0.001 |
|  | >=8.47-<10.68 years | 517 (20.2) | 241 (49.2) |  |
|  | >=10.68-<11.64 years | 683 (26.7) | 81 (16.5) |  |
|  | >=11.64-14.51 years | 705 (27.6) | 56 (11.4) |  |
|  | not\_recorded | 0 (0.0) | 0 (0.0) |  |
| age\_at\_neuter\_years\_quartiles | 0.15-<0.52y | 273 (10.7) | 39 (8.0) | 0.001 |
|  | >=0.52-<0.83y | 272 (10.6) | 40 (8.2) |  |
|  | >=0.83-2.44y | 250 (9.8) | 63 (12.9) |  |
|  | >=2.44-9.59y | 261 (10.2) | 52 (10.6) |  |
|  | Entire | 527 (20.6) | 75 (15.3) |  |
|  | not\_recorded | 971 (38.0) | 221 (45.1) |  |
| sex\_neuter | F Entire | 183 (7.2) | 11 (2.2) | <0.001 |
|  | F Neutered | 1108 (43.4) | 202 (41.2) |  |
|  | M Entire | 344 (13.5) | 64 (13.1) |  |
|  | M Neutered | 919 (36.0) | 213 (43.5) |  |
| sex | F | 1291 (50.5) | 213 (43.5) | 0.005 |
|  | M | 1263 (49.5) | 277 (56.5) |  |
| neuter | Entire | 527 (20.6) | 75 (15.3) | 0.008 |
|  | Neutered | 2027 (79.4) | 415 (84.7) |  |
| mismating\_ever | 0 | 2541 (99.5) | 490 (100.0) | 0.228 |
|  | 1 | 13 (0.5) | 0 (0.0) |  |
| neutered\_reason | Elective | 1772 (71.1) | 374 (77.8) | 0.032 |
|  | Medical Reason | 156 (6.3) | 23 (4.8) |  |
|  | Entire | 555 (22.3) | 83 (17.3) |  |
|  | Unknown | 8 (0.3) | 1 (0.2) |  |
| neutered\_ever\_bred | 0 | 2549 (99.8) | 489 (99.8) | 1.000 |
|  | 1 | 5 (0.2) | 1 (0.2) |  |
| spayed\_while\_in\_heat | 0 | 883 (34.6) | 162 (33.1) | <0.001 |
|  | 1 | 225 (8.8) | 40 (8.2) |  |
|  | Intact Female | 183 (7.2) | 11 (2.2) |  |
|  | Male | 1263 (49.5) | 277 (56.5) |  |
| spayed\_while\_pregnant | 0 | 2548 (99.8) | 487 (99.4) | 0.340 |
|  | 1 | 6 (0.2) | 3 (0.6) |  |
| prevent\_heat\_ever | 0 | 2549 (99.8) | 490 (100.0) | 0.710 |
|  | 1 | 5 (0.2) | 0 (0.0) |  |
| no\_pregnancy\_ever | 0 | 1291 (50.5) | 282 (57.6) | 0.005 |
|  | 1 | 1263 (49.5) | 208 (42.4) |  |
| intact\_sired\_litters\_natural\_ever | 0 | 2523 (98.8) | 482 (98.4) | 0.592 |
|  | 1 | 31 (1.2) | 8 (1.6) |  |
| neutered\_females\_bred\_with\_count\_ever | 0 | 2523 (98.8) | 482 (98.4) | 0.592 |
|  | 1 | 31 (1.2) | 8 (1.6) |  |
| neutered\_sired\_litters\_natural\_ever | 0 | 2550 (99.8) | 489 (99.8) | 1.000 |
|  | 1 | 4 (0.2) | 1 (0.2) |  |
| heats\_before\_neutering | Mean (SD) | 1.2 (2.0) | 1.2 (1.9) | 0.941 |
| heats\_before\_neutering\_terciles | >2-<=4 | 86 (3.4) | 24 (4.9) | <0.001 |
|  | >4-12 | 129 (5.1) | 18 (3.7) |  |
|  | 0 | 676 (26.5) | 114 (23.3) |  |
|  | 1-<=2 | 165 (6.5) | 38 (7.8) |  |
|  | Intact Female | 183 (7.2) | 11 (2.2) |  |
|  | Male | 1263 (49.5) | 277 (56.5) |  |
|  | not\_recorded | 52 (2.0) | 8 (1.6) |  |
| preg\_pre\_neuter | 0 | 2481 (97.1) | 478 (97.6) | 0.723 |
|  | 1 | 73 (2.9) | 12 (2.4) |  |
| num\_breeding\_before\_neutering\_terciles | >0-<3 | 15 (0.6) | 5 (1.0) | 0.190 |
|  | >=3-<9 | 36 (1.4) | 9 (1.8) |  |
|  | >=9-142 | 28 (1.1) | 10 (2.0) |  |
|  | not\_bred | 2475 (96.9) | 466 (95.1) |  |
|  | not\_recorded | 0 (0.0) | 0 (0.0) |  |
| ever\_bred\_from | 0 | 2393 (93.7) | 452 (92.2) | 0.275 |
|  | 1 | 161 (6.3) | 38 (7.8) |  |
| avg\_weight\_5y\_prior\_endpoint\_quartiles | 12.47-<20.83kg | 474 (18.6) | 76 (15.5) | <0.001 |
|  | >=20.83-<23.23kg | 494 (19.3) | 56 (11.4) |  |
|  | >=23.23-26.98kg | 437 (17.1) | 113 (23.1) |  |
|  | >=26.98-37.01 | 393 (15.4) | 158 (32.2) |  |
|  | not\_recorded | 756 (29.6) | 87 (17.8) |  |
| avg\_weight\_5y\_prior\_endpoint\_kg\_biological | >15-<=25kg | 1209 (47.3) | 183 (37.3) | <0.001 |
|  | >25-<=35kg | 550 (21.5) | 209 (42.7) |  |
|  | >35 | 32 (1.3) | 11 (2.2) |  |
|  | not\_recorded | 763 (29.9) | 87 (17.8) |  |
| avg\_height\_5y\_prior\_endpoint\_quartiles | 49.80-<56.30cm | 373 (14.6) | 86 (17.6) | <0.001 |
|  | >=56.30-<58.29cm | 373 (14.6) | 95 (19.4) |  |
|  | >=58.29-<60.32cm | 362 (14.2) | 99 (20.2) |  |
|  | >=60.32cm-67.73cm | 387 (15.2) | 79 (16.1) |  |
|  | not\_recorded | 1059 (41.5) | 131 (26.7) |  |
| avg\_purina\_BCS\_5y\_prior\_endpoint\_quartiles | 3.3-<5 | 353 (13.8) | 83 (16.9) | <0.001 |
|  | >=5-<5.28 | 500 (19.6) | 138 (28.2) |  |
|  | >=5.28-<5.86 | 502 (19.7) | 104 (21.2) |  |
|  | >=5.86 - 9 | 479 (18.8) | 89 (18.2) |  |
|  | not\_recorded | 720 (28.2) | 76 (15.5) |  |
| median\_weight\_5y\_prior\_endpoint\_kg\_outliers\_removed\_quartiles | 10.5-<16.1kg | 504 (19.7) | 54 (11.0) | <0.001 |
|  | >=16.1-<21.3kg | 510 (20.0) | 51 (10.4) |  |
|  | >=21.3-28.8kg | 424 (16.6) | 135 (27.6) |  |
|  | >=28.8-47.1kg | 390 (15.3) | 171 (34.9) |  |
|  | not\_recorded | 726 (28.4) | 79 (16.1) |  |
| median\_weight\_5y\_prior\_endpoint\_any\_records\_kg\_outliers\_removed\_quartiles | 10.5-<17.1kg | 667 (26.1) | 71 (14.5) | <0.001 |
|  | >=17.1-<24.7kg | 653 (25.6) | 101 (20.6) |  |
|  | >=24.7-30.6kg | 587 (23.0) | 159 (32.4) |  |
|  | >=30.6-49.1kg | 605 (23.7) | 146 (29.8) |  |
|  | not\_recorded | 42 (1.6) | 13 (2.7) |  |
| mode\_purina\_BCS\_5y\_prior\_endpoint | 5 | 1008 (39.5) | 253 (51.6) | <0.001 |
|  | 3 | 3 (0.1) | 0 (0.0) |  |
|  | 4 | 106 (4.2) | 22 (4.5) |  |
|  | 6 | 426 (16.7) | 80 (16.3) |  |
|  | 7 | 151 (5.9) | 44 (9.0) |  |
|  | 8 | 43 (1.7) | 6 (1.2) |  |
|  | 9 | 13 (0.5) | 1 (0.2) |  |
|  | not\_recorded | 804 (31.5) | 84 (17.1) |  |
| median\_weight\_5y\_prior\_endpoint\_any\_records\_kg\_outliers\_removed\_biological | >15-<=25kg | 1017 (45.8) | 135 (30.1) | <0.001 |
|  | >25-<=35kg | 949 (42.7) | 259 (57.7) |  |
|  | >35 | 214 (9.6) | 42 (9.4) |  |
|  | not\_recorded | 42 (1.9) | 13 (2.9) |  |
| median\_weight\_5y\_prior\_endpoint\_kg\_outliers\_removed\_biological | >15-<=25kg | 911 (40.9) | 121 (26.7) | <0.001 |
|  | >25-<=35kg | 484 (21.7) | 218 (48.1) |  |
|  | >35 | 107 (4.8) | 35 (7.7) |  |
|  | not\_recorded | 726 (32.6) | 79 (17.4) |  |
| mode\_BCS\_classify | ideal | 1114 (63.7) | 275 (67.7) | 0.227 |
|  | overweight | 633 (36.2) | 131 (32.3) |  |
|  | underweight | 3 (0.2) |  |  |
| main\_lifestyle\_category | breed/showing | 70 (2.7) | 8 (1.6) | 0.035 |
|  | companion/pet | 2222 (87.0) | 444 (90.6) |  |
|  | competitive | 211 (8.3) | 24 (4.9) |  |
|  | miscellaneous | 18 (0.7) | 6 (1.2) |  |
|  | working | 33 (1.3) | 8 (1.6) |  |
| main\_lifestyle\_category\_mode\_5yrs\_prior | breed/showing | 52 (2.0) | 7 (1.4) | <0.001 |
|  | companion/pet | 2062 (80.7) | 435 (88.8) |  |
|  | competitive | 192 (7.5) | 22 (4.5) |  |
|  | miscellaneous | 15 (0.6) | 6 (1.2) |  |
|  | working | 32 (1.3) | 8 (1.6) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| USDA\_30min\_sy1\_2 | below\_USDA | 936 (36.6) | 191 (39.0) | 0.399 |
|  | more\_than\_USDA | 1576 (61.7) | 294 (60.0) |  |
|  | not\_recorded | 42 (1.6) | 5 (1.0) |  |
| activity\_1h\_min\_sy1\_2 | below\_1h | 2166 (84.8) | 423 (86.3) | 0.498 |
|  | more\_than\_1h | 346 (13.5) | 62 (12.7) |  |
|  | not\_recorded | 42 (1.6) | 5 (1.0) |  |
| activity\_KC\_2h\_min\_sy1\_2 | below\_KC | 2500 (97.9) | 481 (98.2) | 0.372 |
|  | more\_than\_KC | 12 (0.5) | 4 (0.8) |  |
|  | not\_recorded | 42 (1.6) | 5 (1.0) |  |
| avg\_activity\_duration\_sy1\_2\_quartile | ≥0 - <26.67 | 634 (24.8) | 127 (25.9) | 0.024 |
|  | ≥26.67 - <33.33 | 615 (24.1) | 146 (29.8) |  |
|  | ≥33.33 - <40 | 651 (25.5) | 110 (22.4) |  |
|  | ≥40 - <100 | 654 (25.6) | 107 (21.8) |  |
| avg\_activity\_intensity\_sy3\_quartile | ≥0.91 - <4.06 | 547 (21.4) | 108 (22.0) | <0.001 |
|  | ≥4.06 - <5.71 | 549 (21.5) | 106 (21.6) |  |
|  | ≥5.71 - <9.38 | 521 (20.4) | 133 (27.1) |  |
|  | ≥9.38 - <100 | 521 (20.4) | 133 (27.1) |  |
|  | not\_recorded | 416 (16.3) | 10 (2.0) |  |
| avg\_intensity\_5y\_prior\_endpoint\_quartile | ≥0 - <50 | 623 (24.4) | 136 (27.8) | <0.001 |
|  | ≥50 - <61.33 | 627 (24.5) | 132 (26.9) |  |
|  | ≥61.33 - <68.9 | 676 (26.5) | 83 (16.9) |  |
|  | ≥68.9 - <100 | 628 (24.6) | 130 (26.5) |  |
|  | not\_recorded | 0 (0.0) | 9 (1.8) |  |
| avg\_frequency\_5y\_prior\_endpoint\_quartile | ≥20 - <71.67 | 653 (25.6) | 106 (21.6) | <0.001 |
|  | ≥71.67 - <80 | 607 (23.8) | 152 (31.0) |  |
|  | ≥80 - <85 | 623 (24.4) | 136 (27.8) |  |
|  | ≥85 - <100 | 671 (26.3) | 87 (17.8) |  |
|  | not\_recorded | 0 (0.0) | 9 (1.8) |  |
| avg\_activity\_duration\_sy1\_2\_splits | between\_30\_60\_min | 1452 (56.9) | 303 (61.8) | 0.071 |
|  | between\_60\_90\_min | 378 (14.8) | 66 (13.5) |  |
|  | between\_90\_120\_min | 179 (7.0) | 24 (4.9) |  |
|  | less\_than\_30min | 534 (20.9) | 92 (18.8) |  |
|  | more\_than\_120\_min | 11 (0.4) | 5 (1.0) |  |
| avg\_activity\_freq\_sy1\_2\_splits | daily | 757 (29.6) | 135 (27.6) | 0.297 |
|  | less\_than\_weekly | 90 (3.5) | 13 (2.7) |  |
|  | min\_weekly | 337 (13.2) | 71 (14.5) |  |
|  | multi\_daily | 1357 (53.1) | 271 (55.3) |  |
|  | never | 13 (0.5) |  |  |
| avg\_activity\_freq\_sy3\_splits | daily | 53 (2.5) | 5 (1.0) | 0.059 |
|  | monthly | 172 (8.0) | 34 (7.1) |  |
|  | multi\_daily | 19 (0.9) |  |  |
|  | rarely | 1867 (87.3) | 436 (90.8) |  |
|  | weekly | 27 (1.3) | 5 (1.0) |  |
| avg\_activity\_intensity\_sy3\_splits | average\_walks | 117 (5.5) | 15 (3.1) | 0.045 |
|  | brisk\_walks | 23 (1.1) | 2 (0.4) |  |
|  | jogs | 12 (0.6) | 2 (0.4) |  |
|  | runs | 13 (0.6) |  |  |
|  | slow\_walks | 1973 (92.3) | 461 (96.0) |  |
| avg\_frequency\_5y\_prior\_endpoint\_splits | daily | 53 (2.5) | 5 (1.0) | 0.059 |
|  | monthly | 172 (8.0) | 34 (7.1) |  |
|  | multi\_daily | 19 (0.9) |  |  |
|  | rarely | 1867 (87.3) | 436 (90.8) |  |
|  | weekly | 27 (1.3) | 5 (1.0) |  |
| avg\_activity\_freq\_sy3\_splits\_grouped | daily\_or\_more | 72 (3.4) | 5 (1.0) | 0.022 |
|  | rarely | 2039 (95.4) | 470 (97.9) |  |
|  | weekly | 27 (1.3) | 5 (1.0) |  |
| avg\_activity\_intensity\_sy3\_splits\_grouped | high\_intensity | 25 (1.2) | 2 (0.4) | 0.134 |
|  | low\_intensity | 2090 (97.8) | 476 (99.2) |  |
|  | moderate\_intensity | 23 (1.1) | 2 (0.4) |  |
| avg\_frequency\_5y\_prior\_endpoint\_splits\_grouped | daily\_or\_more | 72 (3.4) | 5 (1.0) | 0.022 |
|  | rarely | 2039 (95.4) | 470 (97.9) |  |
|  | weekly | 27 (1.3) | 5 (1.0) |  |
| avg\_intensity\_5y\_prior\_endpoint\_splits | average\_walks | 272 (10.6) | 47 (9.8) | 0.041 |
|  | brisk\_walks | 913 (35.7) | 207 (43.0) |  |
|  | jogs | 1103 (43.2) | 185 (38.5) |  |
|  | runs | 252 (9.9) | 41 (8.5) |  |
|  | slow\_walks | 14 (0.5) | 1 (0.2) |  |
| avg\_intensity\_5y\_prior\_endpoint\_splits\_grouped | high\_intensity | 1355 (53.1) | 226 (47.0) | 0.010 |
|  | low\_intensity | 286 (11.2) | 48 (10.0) |  |
|  | moderate\_intensity | 913 (35.7) | 207 (43.0) |  |
| MDI\_quintile | 1 | 880 (34.5) | 174 (35.5) | 0.782 |
|  | 2 | 568 (22.2) | 98 (20.0) |  |
|  | 3 | 421 (16.5) | 89 (18.2) |  |
|  | 4 | 215 (8.4) | 36 (7.3) |  |
|  | 5 | 208 (8.1) | 40 (8.2) |  |
|  | not\_recorded | 262 (10.3) | 53 (10.8) |  |
| owner\_MDI\_quintile | 1 | 963 (37.7) | 196 (40.0) | 0.680 |
|  | 2 | 643 (25.2) | 109 (22.2) |  |
|  | 3 | 461 (18.1) | 83 (16.9) |  |
|  | 4 | 221 (8.7) | 45 (9.2) |  |
|  | 5 | 211 (8.3) | 44 (9.0) |  |
|  | not\_recorded | 55 (2.2) | 13 (2.7) |  |
| area\_type\_mode\_5yrs\_prior | rural | 728 (28.5) | 141 (28.8) | <0.001 |
|  | suburban | 1427 (55.9) | 296 (60.4) |  |
|  | urban | 198 (7.8) | 41 (8.4) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| house\_type\_mode\_5yrs\_prior | apartment/condo/townhome | 131 (5.1) | 33 (6.7) | <0.001 |
|  | motor home | 2 (0.1) | 0 (0.0) |  |
|  | single family | 2220 (86.9) | 445 (90.8) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| water\_source\_mode\_5yrs\_prior | municipal | 1718 (67.3) | 355 (72.4) | <0.001 |
|  | other | 18 (0.7) | 5 (1.0) |  |
|  | well | 617 (24.2) | 118 (24.1) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| pipes\_metal\_any\_mode\_5yrs\_prior | 0 | 1115 (43.7) | 220 (44.9) | <0.001 |
|  | 1 | 1238 (48.5) | 258 (52.7) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| pipes\_plastic\_any\_mode\_5yrs\_prior | 0 | 1159 (45.4) | 240 (49.0) | <0.001 |
|  | 1 | 1194 (46.8) | 238 (48.6) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| heating\_fuel\_primary\_mode\_5yrs\_prior | electric | 572 (22.4) | 127 (25.9) | <0.001 |
|  | natural\_gas | 1303 (51.0) | 274 (55.9) |  |
|  | oil | 221 (8.7) | 25 (5.1) |  |
|  | other | 18 (0.7) | 2 (0.4) |  |
|  | propane | 176 (6.9) | 34 (6.9) |  |
|  | renewable | 17 (0.7) | 3 (0.6) |  |
|  | wood | 41 (1.6) | 12 (2.4) |  |
|  | not\_recorded | 206 (8.1) | 13 (2.7) |  |
| cooking\_fuel\_primary\_mode\_5yrs\_prior | electric | 1274 (49.9) | 236 (48.2) | <0.001 |
|  | natural gas | 878 (34.4) | 197 (40.2) |  |
|  | propane | 199 (7.8) | 45 (9.2) |  |
|  | not\_recorded | 203 (7.9) | 12 (2.4) |  |
| heating\_fuel\_secondary\_mode\_5yrs\_prior | electric | 375 (14.7) | 72 (14.7) | 0.186 |
|  | natural gas | 133 (5.2) | 23 (4.7) |  |
|  | oil | 23 (0.9) | 6 (1.2) |  |
|  | other | 329 (12.9) | 87 (17.8) |  |
|  | propane | 68 (2.7) | 13 (2.7) |  |
|  | renewable | 1 (0.0) | 0 (0.0) |  |
|  | wood | 196 (7.7) | 30 (6.1) |  |
|  | not\_recorded | 1429 (56.0) | 259 (52.9) |  |
| cooking\_fuel\_secondary\_mode\_5yrs\_prior | electric | 576 (22.6) | 130 (26.5) | <0.001 |
|  | natural gas | 62 (2.4) | 11 (2.2) |  |
|  | other | 360 (14.1) | 98 (20.0) |  |
|  | propane | 126 (4.9) | 28 (5.7) |  |
|  | not\_recorded | 1430 (56.0) | 223 (45.5) |  |
| region\_mode\_5y\_prior | midwest | 317 (12.4) | 61 (12.4) | 0.011 |
|  | northeast | 256 (10.0) | 60 (12.2) |  |
|  | south | 438 (17.1) | 104 (21.2) |  |
|  | west | 401 (15.7) | 86 (17.6) |  |
|  | not\_recorded | 1142 (44.7) | 179 (36.5) |  |
| use\_aerosol\_study\_years\_early\_life | Not within early life | 1122 (43.9) | 230 (46.9) | 0.239 |
|  | Within early life | 1432 (56.1) | 260 (53.1) |  |
| use\_air\_cleaner\_study\_years\_early\_life | Not within early life | 2082 (81.5) | 410 (83.7) | 0.285 |
|  | Within early life | 472 (18.5) | 80 (16.3) |  |
| use\_hepa\_filter\_study\_years\_early\_life | Not within early life | 1459 (57.1) | 279 (56.9) | 0.979 |
|  | Within early life | 1095 (42.9) | 211 (43.1) |  |
| use\_moth\_balls\_study\_years\_early\_life | Not within early life | 2484 (97.3) | 476 (97.1) | 1.000 |
|  | Within early life | 70 (2.7) | 14 (2.9) |  |
| use\_incense\_or\_candles\_study\_years\_early\_life | Not within early life | 983 (38.5) | 199 (40.6) | 0.405 |
|  | Within early life | 1571 (61.5) | 291 (59.4) |  |
| smoke\_exposure\_study\_years\_early\_life | Not within early life | 2282 (89.4) | 451 (92.0) | 0.085 |
|  | Within early life | 272 (10.6) | 39 (8.0) |  |
| use\_aerosol\_study\_years\_rest\_of\_life | Not within rest of life | 1414 (55.4) | 242 (49.4) | 0.017 |
|  | Within rest of life | 1140 (44.6) | 248 (50.6) |  |
| use\_air\_cleaner\_study\_years\_rest\_of\_life | Not within rest of life | 1925 (75.4) | 358 (73.1) | 0.305 |
|  | Within rest of life | 629 (24.6) | 132 (26.9) |  |
| use\_hepa\_filter\_study\_years\_rest\_of\_life | Not within rest of life | 1342 (52.5) | 234 (47.8) | 0.058 |
|  | Within rest of life | 1212 (47.5) | 256 (52.2) |  |
| use\_moth\_balls\_study\_years\_rest\_of\_life | Not within rest of life | 2512 (98.4) | 484 (98.8) | 0.627 |
|  | Within rest of life | 42 (1.6) | 6 (1.2) |  |
| use\_incense\_or\_candles\_study\_years\_rest\_of\_life | Not within rest of life | 1275 (49.9) | 221 (45.1) | 0.057 |
|  | Within rest of life | 1279 (50.1) | 269 (54.9) |  |
| smoke\_exposure\_study\_years\_rest\_of\_life | Not within rest of life | 2275 (89.1) | 434 (88.6) | 0.804 |
|  | Within rest of life | 279 (10.9) | 56 (11.4) |  |
| any\_treated\_weeds\_study\_years\_rest\_of\_life | Not within rest of life | 1133 (44.4) | 159 (32.4) | <0.001 |
|  | Within rest of life | 1421 (55.6) | 331 (67.6) |  |
| any\_treated\_insects\_study\_years\_rest\_of\_life | Not within rest of life | 1215 (47.6) | 185 (37.8) | <0.001 |
|  | Within rest of life | 1339 (52.4) | 305 (62.2) |  |
| any\_treated\_fertilizer\_study\_years\_rest\_of\_life | Not within rest of life | 1022 (40.0) | 134 (27.3) | <0.001 |
|  | Within rest of life | 1532 (60.0) | 356 (72.7) |  |
| use\_aerosol\_study\_years\_whole\_life | Not within whole life | 930 (36.4) | 185 (37.8) | 0.608 |
|  | Within whole life | 1624 (63.6) | 305 (62.2) |  |
| use\_air\_cleaner\_study\_years\_whole\_life | Not within whole life | 1722 (67.4) | 336 (68.6) | 0.657 |
|  | Within whole life | 832 (32.6) | 154 (31.4) |  |
| use\_hepa\_filter\_study\_years\_whole\_life | Not within whole life | 1029 (40.3) | 190 (38.8) | 0.564 |
|  | Within whole life | 1525 (59.7) | 300 (61.2) |  |
| use\_moth\_balls\_study\_years\_whole\_life | Not within whole life | 2468 (96.6) | 476 (97.1) | 0.659 |
|  | Within whole life | 86 (3.4) | 14 (2.9) |  |
| use\_incense\_or\_candles\_study\_years\_whole\_life | Not within whole life | 785 (30.7) | 165 (33.7) | 0.218 |
|  | Within whole life | 1769 (69.3) | 325 (66.3) |  |
| smoke\_exposure\_study\_years\_whole\_life | Not within whole life | 2151 (84.2) | 420 (85.7) | 0.443 |
|  | Within whole life | 403 (15.8) | 70 (14.3) |  |
| any\_treated\_weeds\_study\_years\_whole\_life | Not within whole life | 1133 (44.4) | 159 (32.4) | <0.001 |
|  | Within whole life | 1421 (55.6) | 331 (67.6) |  |
| any\_treated\_insects\_study\_years\_whole\_life | Not within whole life | 1059 (41.5) | 162 (33.1) | 0.001 |
|  | Within whole life | 1495 (58.5) | 328 (66.9) |  |
| any\_treated\_fertilizer\_study\_years\_whole\_life | Not within whole life | 1022 (40.0) | 134 (27.3) | <0.001 |
|  | Within whole life | 1532 (60.0) | 356 (72.7) |  |
| hours\_of\_smoke\_early\_life\_total\_dosage\_terciles | >=2-<7h | 112 (4.4) | 16 (3.3) | 0.286 |
|  | >=7-72h | 90 (3.5) | 15 (3.1) |  |
|  | >0-<2h | 70 (2.7) | 8 (1.6) |  |
|  | no\_smoke | 2282 (89.4) | 451 (92.0) |  |
| hours\_of\_smoke\_rest\_of\_life\_total\_dosage\_terciles | >=2-<9h | 95 (3.7) | 19 (3.9) | 0.846 |
|  | >=9-378h | 96 (3.8) | 17 (3.5) |  |
|  | >0-<2h | 85 (3.3) | 20 (4.1) |  |
|  | no\_smoke | 2278 (89.2) | 434 (88.6) |  |
| hours\_of\_smoke\_whole\_life\_total\_dosage\_terciles | >=10-388h | 132 (5.2) | 28 (5.7) | 0.211 |
|  | >=2-<10h | 160 (6.3) | 19 (3.9) |  |
|  | >0-<2h | 108 (4.2) | 23 (4.7) |  |
|  | no\_smoke | 2154 (84.3) | 420 (85.7) |  |
| in.the.garage\_YN\_study\_years\_early\_life | Not within early life | 2485 (97.3) | 484 (98.8) | 0.147 |
|  | Within early life | 67 (2.6) | 6 (1.2) |  |
|  | not\_recorded | 2 (0.1) | 0 (0.0) |  |
| in.the.house\_YN\_study\_years\_early\_life | Not within early life | 37 (1.4) | 4 (0.8) | 0.444 |
|  | Within early life | 2515 (98.5) | 486 (99.2) |  |
|  | not\_recorded | 2 (0.1) | 0 (0.0) |  |
| outside\_YN\_study\_years\_early\_life | Not within early life | 2397 (93.9) | 472 (96.3) | 0.040 |
|  | Within early life | 157 (6.1) | 18 (3.7) |  |
| in.the.garage\_YN\_study\_years\_rest\_of\_life | Not within rest of life | 2490 (97.5) | 479 (97.8) | 0.870 |
|  | Within rest of life | 63 (2.5) | 11 (2.2) |  |
|  | not\_recorded | 1 (0.0) | 0 (0.0) |  |
| in.the.house\_YN\_study\_years\_rest\_of\_life | Not within rest of life | 438 (17.1) | 11 (2.2) | <0.001 |
|  | Within rest of life | 2116 (82.9) | 479 (97.8) |  |
| outside\_YN\_study\_years\_rest\_of\_life | Not within rest of life | 2418 (94.7) | 473 (96.5) | 0.217 |
|  | Within rest of life | 135 (5.3) | 17 (3.5) |  |
|  | not\_recorded | 1 (0.0) | 0 (0.0) |  |
| in.the.house\_YN\_sum\_rest\_of\_life\_quartile | ≥0 - <4 | 707 (27.7) | 54 (11.0) | <0.001 |
|  | ≥13 - <60 | 613 (24.0) | 148 (30.2) |  |
|  | ≥4 - <9 | 615 (24.1) | 146 (29.8) |  |
|  | ≥9 - <13 | 619 (24.2) | 142 (29.0) |  |
| in.the.garage\_YN\_study\_years\_whole\_life | Not within whole life | 2454 (96.1) | 479 (97.8) | 0.175 |
|  | Within whole life | 97 (3.8) | 11 (2.2) |  |
|  | not\_recorded | 3 (0.1) | 0 (0.0) |  |
| in.the.house\_YN\_study\_years\_whole\_life | Not within whole life | 23 (0.9) | 2 (0.4) | 0.447 |
|  | Within whole life | 2529 (99.0) | 488 (99.6) |  |
|  | not\_recorded | 2 (0.1) | 0 (0.0) |  |
| outside\_YN\_study\_years\_whole\_life | Not within whole life | 2343 (91.7) | 466 (95.1) | 0.037 |
|  | Within whole life | 210 (8.2) | 24 (4.9) |  |
|  | not\_recorded | 1 (0.0) | 0 (0.0) |  |
| in.the.house\_YN\_sum\_whole\_life\_quartile | ≥0 - <7 | 702 (27.5) | 59 (12.0) | <0.001 |
|  | ≥12 - <17 | 615 (24.1) | 146 (29.8) |  |
|  | ≥17 - <69 | 613 (24.0) | 148 (30.2) |  |
|  | ≥7 - <12 | 624 (24.4) | 137 (28.0) |  |
| majority\_sleep\_location\_lifetime | in the garage\_YN | 20 (0.8) | 3 (0.6) | 0.172 |
|  | in the house\_YN | 2498 (97.8) | 485 (99.0) |  |
|  | outside\_YN | 36 (1.4) | 2 (0.4) |  |
| sleep\_location\_mode\_5yrs\_prior | in the garage | 27 (1.1) | 5 (1.0) | <0.001 |
|  | in the house | 2301 (90.1) | 472 (96.3) |  |
|  | outside | 25 (1.0) | 1 (0.2) |  |
|  | not\_recorded | 201 (7.9) | 12 (2.4) |  |
| use\_aerosol\_exposed\_5yrs\_prior | No | 1288 (50.4) | 243 (49.6) | 0.771 |
|  | Yes | 1266 (49.6) | 247 (50.4) |  |
| use\_air\_cleaner\_exposed\_5yrs\_prior | No | 1916 (75.0) | 373 (76.1) | 0.645 |
|  | Yes | 638 (25.0) | 117 (23.9) |  |
| use\_hepa\_filter\_exposed\_5yrs\_prior | No | 1322 (51.8) | 235 (48.0) | 0.135 |
|  | Yes | 1232 (48.2) | 255 (52.0) |  |
| use\_moth\_balls\_exposed\_5yrs\_prior | No | 2506 (98.1) | 484 (98.8) | 0.413 |
|  | Yes | 48 (1.9) | 6 (1.2) |  |
| use\_incense\_or\_candles\_exposed\_5yrs\_prior | No | 1157 (45.3) | 229 (46.7) | 0.593 |
|  | Yes | 1397 (54.7) | 261 (53.3) |  |
| smoke\_exposure\_exposed\_5yrs\_prior | No | 2263 (88.6) | 436 (89.0) | 0.872 |
|  | Yes | 291 (11.4) | 54 (11.0) |  |
| any\_treated\_weeds\_exposed\_5yrs\_prior | No | 1242 (48.6) | 189 (38.6) | <0.001 |
|  | Yes | 1312 (51.4) | 301 (61.4) |  |
| any\_treated\_insects\_exposed\_5yrs\_prior | No | 1252 (49.0) | 212 (43.3) | 0.022 |
|  | Yes | 1302 (51.0) | 278 (56.7) |  |
| any\_treated\_fertilizer\_exposed\_5yrs\_prior | No | 1148 (44.9) | 163 (33.3) | <0.001 |
|  | Yes | 1406 (55.1) | 327 (66.7) |  |
| chronic\_inflam\_present\_lifetime | 0 | 2467 (96.6) | 469 (95.7) | 0.406 |
|  | 1 | 87 (3.4) | 21 (4.3) |  |
| number\_comorbs\_present\_lifetime | 0 | 2467 (96.6) | 469 (95.7) | 0.061 |
|  | 1 | 68 (2.7) | 21 (4.3) |  |
|  | 2 | 13 (0.5) | 0 (0.0) |  |
|  | 3 | 6 (0.2) | 0 (0.0) |  |
| chronic\_inflam\_present.x | 0 | 2454 (96.1) | 461 (94.1) | 0.058 |
|  | 1 | 100 (3.9) | 29 (5.9) |  |
| chronic\_inflam\_present\_5y | 0 | 2493 (97.6) | 476 (97.1) | 0.650 |
|  | 1 | 61 (2.4) | 14 (2.9) |  |
| number\_comorbs\_present\_5y | 0 | 2493 (97.6) | 476 (97.1) | 0.131 |
|  | 1 | 45 (1.8) | 14 (2.9) |  |
|  | 2 | 11 (0.4) | 0 (0.0) |  |
|  | 3 | 5 (0.2) | 0 (0.0) |  |
| chronic\_inflam\_present\_no\_min\_year | 0 | 2455 (96.1) | 477 (97.3) | 0.235 |
|  | 1 | 99 (3.9) | 13 (2.7) |  |
| number\_comorbs\_present\_no\_min\_year | 0 | 2455 (96.1) | 477 (97.3) | 0.585 |
|  | 1 | 97 (3.8) | 13 (2.7) |  |
|  | 2 | 1 (0.0) | 0 (0.0) |  |
|  | 3 | 1 (0.0) | 0 (0.0) |  |
| intestinal\_parasitism | N | 2540 (99.5) | 486 (99.2) | 0.698 |
|  | Y | 14 (0.5) | 4 (0.8) |  |
| tick\_borne\_parasitism | N | 2522 (98.7) | 481 (98.2) | 0.416 |
|  | Y | 32 (1.3) | 9 (1.8) |  |
| other\_parasitism | N | 2551 (99.9) | 488 (99.6) | 0.397 |
|  | Y | 3 (0.1) | 2 (0.4) |  |
| all\_parasitism | N | 2507 (98.2) | 475 (96.9) | 0.115 |
|  | Y | 47 (1.8) | 15 (3.1) |  |
| infectious | N | 2553 (100.0) | 490 (100.0) | 1.000 |
|  | Y | 1 (0.0) | 0 (0.0) |  |
| immune\_mediated | 0 | 2476 (96.9) | 478 (97.6) | 0.563 |
|  | 1 | 78 (3.1) | 12 (2.4) |  |
| cardiovascular | 0 | 2510 (98.3) | 477 (97.3) | 0.226 |
|  | 1 | 44 (1.7) | 13 (2.7) |  |
| gastrointestinal | 0 | 2416 (94.6) | 442 (90.2) | <0.001 |
|  | 1 | 138 (5.4) | 48 (9.8) |  |
| inflammatory\_other | N | 2093 (81.9) | 386 (78.8) | 0.111 |
|  | Y | 461 (18.1) | 104 (21.2) |  |
| orthopaedic | 0 | 2290 (89.7) | 432 (88.2) | 0.363 |
|  | 1 | 264 (10.3) | 58 (11.8) |  |
| chronic\_inflammatory | 0 | 2270 (88.9) | 420 (85.7) | 0.054 |
|  | 1 | 284 (11.1) | 70 (14.3) |  |
| lifelong\_comorb\_present.x | 0 | 1966 (77.0) | 357 (72.9) | 0.057 |
|  | 1 | 588 (23.0) | 133 (27.1) |  |
| lifelong\_orthopaedic | 0 | 2256 (88.3) | 432 (88.2) | 0.976 |
|  | 1 | 298 (11.7) | 58 (11.8) |  |
| lifelong\_immune\_mediated | 0 | 2409 (94.3) | 463 (94.5) | 0.968 |
|  | 1 | 145 (5.7) | 27 (5.5) |  |
| lifelong\_cardiovascular | 0 | 2515 (98.5) | 481 (98.2) | 0.759 |
|  | 1 | 39 (1.5) | 9 (1.8) |  |
| lifelong\_gastrointestinal | 0 | 2518 (98.6) | 476 (97.1) | 0.034 |
|  | 1 | 36 (1.4) | 14 (2.9) |  |
| lifelong\_inflammatory\_other | 0 | 2504 (98.0) | 474 (96.7) | 0.099 |
|  | 1 | 50 (2.0) | 16 (3.3) |  |
| lifelong\_chronic\_inflammatory | 0 | 2198 (86.1) | 407 (83.1) | 0.097 |
|  | 1 | 356 (13.9) | 83 (16.9) |  |
| number\_lifelong\_comorbs\_present | 0 | 2472 (96.8) | 472 (96.3) | 0.528 |
|  | 1 | 78 (3.1) | 18 (3.7) |  |
|  | 2 | 4 (0.2) | 0 (0.0) |  |
| malig\_cancers\_count | 0 | 1940 (76.0) | 416 (84.9) | <0.001 |
|  | 1 | 491 (19.2) | 57 (11.6) |  |
|  | 2 | 121 (4.7) | 16 (3.3) |  |
|  | 3 | 2 (0.1) | 1 (0.2) |  |
| benign\_cancers\_count | 0 | 2443 (95.7) | 472 (96.3) | 0.591 |
|  | 1 | 107 (4.2) | 18 (3.7) |  |
|  | 2 | 4 (0.2) | 0 (0.0) |  |
| all\_cancers\_count | 0 | 1828 (71.6) | 410 (83.7) | <0.001 |
|  | 1 | 517 (20.2) | 35 (7.1) |  |
|  | 2 | 14 (0.5) | 3 (0.6) |  |
|  | 3 | 186 (7.3) | 35 (7.1) |  |
|  | 4 | 0 (0.0) | 2 (0.4) |  |
|  | 5 | 9 (0.4) | 5 (1.0) |  |
| all\_cancers\_YN | 0 | 1840 (72.0) | 413 (84.3) | <0.001 |
|  | 1 | 714 (28.0) | 77 (15.7) |  |
| benign\_cancers\_YN | 0 | 2525 (98.9) | 489 (99.8) | 0.096 |
|  | 1 | 29 (1.1) | 1 (0.2) |  |
| malig\_cancers\_YN | 0 | 1943 (76.1) | 417 (85.1) | <0.001 |
|  | 1 | 611 (23.9) | 73 (14.9) |  |
| all\_cancers\_count\_no\_HSA | 0 | 1840 (72.0) | 413 (84.3) | <0.001 |
|  | 1 | 712 (27.9) | 75 (15.3) |  |
|  | 2 | 2 (0.1) | 2 (0.4) |  |
| malig\_cancers\_count\_no\_HSA | 0 | 1943 (76.1) | 417 (85.1) | <0.001 |
|  | 1 | 608 (23.8) | 71 (14.5) |  |
|  | 2 | 3 (0.1) | 2 (0.4) |  |
| malig\_cancers\_YN\_no\_HSA | 0 | 1943 (76.1) | 417 (85.1) | <0.001 |
|  | 1 | 611 (23.9) | 73 (14.9) |  |
| all\_cancers\_YN\_no\_HSA | 0 | 1840 (72.0) | 413 (84.3) | <0.001 |
|  | 1 | 714 (28.0) | 77 (15.7) |  |
| lymphoma\_present | 0 | 826 (32.3) | 63 (12.9) | <0.001 |
|  | 1 | 156 (6.1) | 20 (4.1) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| carcinoma\_present | 0 | 870 (34.1) | 73 (14.9) | <0.001 |
|  | 1 | 112 (4.4) | 10 (2.0) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| sarcoma\_present | 0 | 793 (31.0) | 63 (12.9) | <0.001 |
|  | 1 | 189 (7.4) | 20 (4.1) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| melanoma\_present | 0 | 954 (37.4) | 77 (15.7) | <0.001 |
|  | 1 | 28 (1.1) | 6 (1.2) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| adenocarcinoma\_present | 0 | 955 (37.4) | 82 (16.7) | <0.001 |
|  | 1 | 27 (1.1) | 1 (0.2) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| mast\_cell\_tumor\_present | 0 | 848 (33.2) | 63 (12.9) | <0.001 |
|  | 1 | 134 (5.2) | 20 (4.1) |  |
|  | did\_not\_have\_endpoint\_data | 1572 (61.6) | 407 (83.1) |  |
| half\_anti\_microbials\_lifetime | lower\_half | 1098 (43.0) | 225 (45.9) | <0.001 |
|  | upper\_half | 860 (33.7) | 192 (39.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 596 (23.3) | 73 (14.9) |  |
| half\_dietary\_supplements\_lifetime | lower\_half | 544 (21.3) | 115 (23.5) | 0.010 |
|  | upper\_half | 304 (11.9) | 79 (16.1) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1706 (66.8) | 296 (60.4) |  |
| half\_enteric\_lifetime | lower\_half | 330 (12.9) | 89 (18.2) | 0.008 |
|  | upper\_half | 344 (13.5) | 66 (13.5) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1880 (73.6) | 335 (68.4) |  |
| half\_fluid\_metabolites\_lifetime | lower\_half | 37 (1.4) | 9 (1.8) | 0.394 |
|  | upper\_half | 7 (0.3) | 3 (0.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2510 (98.3) | 478 (97.6) |  |
| half\_hormones\_and\_related\_lifetime | lower\_half | 120 (4.7) | 25 (5.1) | 0.677 |
|  | upper\_half | 91 (3.6) | 21 (4.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2343 (91.7) | 444 (90.6) |  |
| half\_immunologicals\_lifetime | lower\_half | 401 (15.7) | 94 (19.2) | 0.001 |
|  | upper\_half | 233 (9.1) | 65 (13.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1920 (75.2) | 331 (67.6) |  |
| half\_misc\_lifetime | lower\_half | 344 (13.5) | 80 (16.3) | 0.049 |
|  | upper\_half | 268 (10.5) | 63 (12.9) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1942 (76.0) | 347 (70.8) |  |
| half\_neurological\_lifetime | lower\_half | 622 (24.4) | 125 (25.5) | 0.309 |
|  | upper\_half | 351 (13.7) | 78 (15.9) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1581 (61.9) | 287 (58.6) |  |
| half\_anti\_parasites\_lifetime | lower\_half | 1249 (48.9) | 217 (44.3) | <0.001 |
|  | upper\_half | 930 (36.4) | 232 (47.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 375 (14.7) | 41 (8.4) |  |
| half\_anti\_septics\_lifetime | lower\_half | 126 (4.9) | 19 (3.9) | 0.588 |
|  | upper\_half | 45 (1.8) | 8 (1.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2383 (93.3) | 463 (94.5) |  |
| half\_cardio\_respiratory\_lifetime | lower\_half | 96 (3.8) | 24 (4.9) | 0.371 |
|  | upper\_half | 56 (2.2) | 8 (1.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2402 (94.0) | 458 (93.5) |  |
| half\_diuretics\_lifetime | lower\_half | 16 (0.6) | 2 (0.4) | 0.769 |
|  | upper\_half | 1 (0.0) | 0 (0.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2537 (99.3) | 488 (99.6) |  |
| half\_anti\_hist\_lifetime | lower\_half | 43 (1.7) | 10 (2.0) | 0.473 |
|  | upper\_half | 23 (0.9) | 7 (1.4) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2488 (97.4) | 473 (96.5) |  |
| quartile\_anti\_inflam\_lifetime | Q1 | 501 (19.6) | 101 (20.6) | 0.001 |
|  | Q2 | 608 (23.8) | 138 (28.2) |  |
|  | Q3 | 196 (7.7) | 46 (9.4) |  |
|  | Q4 | 414 (16.2) | 91 (18.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 835 (32.7) | 114 (23.3) |  |
| quartile\_anti\_microbials\_lifetime | Q1 | 671 (26.3) | 136 (27.8) | 0.001 |
|  | Q2 | 427 (16.7) | 89 (18.2) |  |
|  | Q3 | 405 (15.9) | 98 (20.0) |  |
|  | Q4 | 455 (17.8) | 94 (19.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 596 (23.3) | 73 (14.9) |  |
| quartile\_dietary\_supplements\_lifetime | Q1 | 358 (14.0) | 80 (16.3) | 0.042 |
|  | Q2 | 186 (7.3) | 35 (7.1) |  |
|  | Q3 | 156 (6.1) | 41 (8.4) |  |
|  | Q4 | 148 (5.8) | 38 (7.8) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1706 (66.8) | 296 (60.4) |  |
| quartile\_hormones\_and\_related\_lifetime | Q1 | 81 (3.2) | 15 (3.1) | 0.853 |
|  | Q2 | 39 (1.5) | 10 (2.0) |  |
|  | Q3 | 42 (1.6) | 10 (2.0) |  |
|  | Q4 | 49 (1.9) | 11 (2.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2343 (91.7) | 444 (90.6) |  |
| quartile\_immunologicals\_lifetime | Q1 | 289 (11.3) | 62 (12.7) | 0.003 |
|  | Q2 | 112 (4.4) | 32 (6.5) |  |
|  | Q3 | 116 (4.5) | 37 (7.6) |  |
|  | Q4 | 117 (4.6) | 28 (5.7) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1920 (75.2) | 331 (67.6) |  |
| quartile\_misc\_lifetime | Q1 | 344 (13.5) | 80 (16.3) | 0.035 |
|  | Q3 | 139 (5.4) | 26 (5.3) |  |
|  | Q4 | 129 (5.1) | 37 (7.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1942 (76.0) | 347 (70.8) |  |
| quartile\_neurological\_lifetime | Q1 | 430 (16.8) | 82 (16.7) | 0.563 |
|  | Q2 | 192 (7.5) | 43 (8.8) |  |
|  | Q3 | 122 (4.8) | 27 (5.5) |  |
|  | Q4 | 229 (9.0) | 51 (10.4) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1581 (61.9) | 287 (58.6) |  |
| quartile\_anti\_parasites\_lifetime | Q1 | 680 (26.6) | 100 (20.4) | <0.001 |
|  | Q2 | 569 (22.3) | 117 (23.9) |  |
|  | Q3 | 453 (17.7) | 116 (23.7) |  |
|  | Q4 | 477 (18.7) | 116 (23.7) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 375 (14.7) | 41 (8.4) |  |
| half\_anti\_inflam\_5y\_prior\_endpoint | lower\_half | 881 (34.5) | 194 (39.6) | 0.004 |
|  | upper\_half | 669 (26.2) | 142 (29.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1004 (39.3) | 154 (31.4) |  |
| half\_anti\_microbials\_5y\_prior\_endpoint | lower\_half | 1038 (40.6) | 222 (45.3) | 0.033 |
|  | upper\_half | 740 (29.0) | 147 (30.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 776 (30.4) | 121 (24.7) |  |
| half\_enteric\_5y\_prior\_endpoint | lower\_half | 275 (10.8) | 76 (15.5) | 0.007 |
|  | upper\_half | 248 (9.7) | 52 (10.6) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2031 (79.5) | 362 (73.9) |  |
| half\_immunologicals\_5y\_prior\_endpoint | lower\_half | 398 (15.6) | 88 (18.0) | 0.004 |
|  | upper\_half | 219 (8.6) | 62 (12.7) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1937 (75.8) | 340 (69.4) |  |
| half\_misc\_5y\_prior\_endpoint | lower\_half | 281 (11.0) | 58 (11.8) | 0.049 |
|  | upper\_half | 196 (7.7) | 53 (10.8) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2077 (81.3) | 379 (77.3) |  |
| half\_neurological\_5y\_prior\_endpoint | lower\_half | 564 (22.1) | 111 (22.7) | 0.396 |
|  | upper\_half | 259 (10.1) | 59 (12.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1731 (67.8) | 320 (65.3) |  |
| half\_anti\_parasites\_5y\_prior\_endpoint | lower\_half | 1263 (49.5) | 218 (44.5) | 0.004 |
|  | upper\_half | 782 (30.6) | 187 (38.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 509 (19.9) | 85 (17.3) |  |
| half\_dietary\_supplements\_5y\_prior\_endpoint | lower\_half | 476 (18.6) | 103 (21.0) | 0.022 |
|  | upper\_half | 225 (8.8) | 59 (12.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1853 (72.6) | 328 (66.9) |  |
| half\_anti\_septics\_5y\_prior\_endpoint | lower\_half | 94 (3.7) | 14 (2.9) | 0.664 |
|  | upper\_half | 25 (1.0) | 5 (1.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2435 (95.3) | 471 (96.1) |  |
| half\_hormones\_and\_related\_5y\_prior\_endpoint | lower\_half | 108 (4.2) | 21 (4.3) | 0.654 |
|  | upper\_half | 88 (3.4) | 21 (4.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2358 (92.3) | 448 (91.4) |  |
| half\_cardio\_respiratory\_5y\_prior\_endpoint | lower\_half | 79 (3.1) | 17 (3.5) | 0.752 |
|  | upper\_half | 41 (1.6) | 6 (1.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2434 (95.3) | 467 (95.3) |  |
| half\_fluid\_metabolites\_5y\_prior\_endpoint | lower\_half | 21 (0.8) | 8 (1.6) | 0.122 |
|  | upper\_half | 4 (0.2) | 2 (0.4) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2529 (99.0) | 480 (98.0) |  |
| half\_diuretics\_5y\_prior\_endpoint | lower\_half | 15 (0.6) | 2 (0.4) | 0.807 |
|  | upper\_half | 1 (0.0) | 0 (0.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2538 (99.4) | 488 (99.6) |  |
| half\_anti\_hist\_5y\_prior\_endpoint | lower\_half | 32 (1.3) | 7 (1.4) | 0.738 |
|  | upper\_half | 14 (0.5) | 4 (0.8) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2508 (98.2) | 479 (97.8) |  |
| quartile\_anti\_inflam\_5y\_prior\_endpoint | Q1 | 538 (21.1) | 109 (22.2) | 0.013 |
|  | Q2 | 343 (13.4) | 85 (17.3) |  |
|  | Q3 | 425 (16.6) | 92 (18.8) |  |
|  | Q4 | 244 (9.6) | 50 (10.2) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1004 (39.3) | 154 (31.4) |  |
| quartile\_anti\_microbials\_5y\_prior\_endpoint | Q1 | 455 (17.8) | 98 (20.0) | 0.138 |
|  | Q2 | 583 (22.8) | 124 (25.3) |  |
|  | Q3 | 326 (12.8) | 67 (13.7) |  |
|  | Q4 | 414 (16.2) | 80 (16.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 776 (30.4) | 121 (24.7) |  |
| quartile\_immunologicals\_5y\_prior\_endpoint | Q1 | 287 (11.2) | 58 (11.8) | 0.006 |
|  | Q2 | 111 (4.3) | 30 (6.1) |  |
|  | Q3 | 116 (4.5) | 38 (7.8) |  |
|  | Q4 | 103 (4.0) | 24 (4.9) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1937 (75.8) | 340 (69.4) |  |
| quartile\_misc\_5y\_prior\_endpoint | Q1 | 281 (11.0) | 58 (11.8) | 0.090 |
|  | Q3 | 109 (4.3) | 27 (5.5) |  |
|  | Q4 | 87 (3.4) | 26 (5.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2077 (81.3) | 379 (77.3) |  |
| quartile\_neurological\_5y\_prior\_endpoint | Q1 | 387 (15.2) | 68 (13.9) | 0.366 |
|  | Q2 | 177 (6.9) | 43 (8.8) |  |
|  | Q3 | 94 (3.7) | 20 (4.1) |  |
|  | Q4 | 165 (6.5) | 39 (8.0) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1731 (67.8) | 320 (65.3) |  |
| quartile\_anti\_parasites\_5y\_prior\_endpoint | Q1 | 668 (26.2) | 111 (22.7) | <0.001 |
|  | Q2 | 595 (23.3) | 107 (21.8) |  |
|  | Q3 | 463 (18.1) | 72 (14.7) |  |
|  | Q4 | 319 (12.5) | 115 (23.5) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 509 (19.9) | 85 (17.3) |  |
| quartile\_dietary\_supplements\_5y\_prior\_endpoint | Q1 | 322 (12.6) | 67 (13.7) | 0.090 |
|  | Q2 | 154 (6.0) | 36 (7.3) |  |
|  | Q3 | 75 (2.9) | 21 (4.3) |  |
|  | Q4 | 150 (5.9) | 38 (7.8) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 1853 (72.6) | 328 (66.9) |  |
| quartile\_hormones\_and\_related\_5y\_prior\_endpoint | Q1 | 69 (2.7) | 13 (2.7) | 0.884 |
|  | Q2 | 39 (1.5) | 8 (1.6) |  |
|  | Q3 | 45 (1.8) | 12 (2.4) |  |
|  | Q4 | 43 (1.7) | 9 (1.8) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 2358 (92.3) | 448 (91.4) |  |
| NSAID\_5y | 0 | 1122 (43.9) | 187 (38.2) | 0.002 |
|  | 1 | 1237 (48.4) | 278 (56.7) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 195 (7.6) | 25 (5.1) |  |
| NSAID\_ever | 0 | 999 (39.1) | 167 (34.1) | <0.001 |
|  | 1 | 1409 (55.2) | 314 (64.1) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 146 (5.7) | 9 (1.8) |  |
| NSAID\_5y\_quantiles | no\_NSAID\_admin | 1135 (44.4) | 189 (38.6) | 0.004 |
|  | Q1(1) | 603 (23.6) | 130 (26.5) |  |
|  | Q2(1-2) | 292 (11.4) | 81 (16.5) |  |
|  | Q3(2-3) | 168 (6.6) | 31 (6.3) |  |
|  | Q4(3-11) | 161 (6.3) | 34 (6.9) |  |
|  | no\_med\_use\_recorded | 195 (7.6) | 25 (5.1) |  |
| steroid\_5y | 0 | 1318 (51.6) | 255 (52.0) | 0.128 |
|  | 1 | 1041 (40.8) | 210 (42.9) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 195 (7.6) | 25 (5.1) |  |
| steroid\_ever | 0 | 1139 (44.6) | 213 (43.5) | 0.001 |
|  | 1 | 1269 (49.7) | 268 (54.7) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 146 (5.7) | 9 (1.8) |  |
| fenbendazole\_5y | 0 | 2237 (87.6) | 431 (88.0) | 0.025 |
|  | 1 | 122 (4.8) | 34 (6.9) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 195 (7.6) | 25 (5.1) |  |
| fenbendazole\_ever | 0 | 2168 (84.9) | 411 (83.9) | <0.001 |
|  | 1 | 240 (9.4) | 70 (14.3) |  |
|  | no\_medication\_records\_for\_this\_time\_period | 146 (5.7) | 9 (1.8) |  |
| ecto\_5y\_quantiles | no\_ecto\_admin | 729 (28.5) | 132 (26.9) | <0.001 |
|  | Q1(1) | 452 (17.7) | 83 (16.9) |  |
|  | Q2(1-2) | 389 (15.2) | 74 (15.1) |  |
|  | Q3(2-4) | 563 (22.0) | 88 (18.0) |  |
|  | Q4(4-17) | 226 (8.8) | 88 (18.0) |  |
|  | no\_med\_use\_recorded | 195 (7.6) | 25 (5.1) |  |
| endo\_5y\_quantiles | no\_endo\_admin | 335 (13.1) | 61 (12.4) | <0.001 |
|  | Q1(1-2) | 440 (17.2) | 69 (14.1) |  |
|  | Q2(2-3) | 489 (19.1) | 62 (12.7) |  |
|  | Q3(3-4) | 320 (12.5) | 55 (11.2) |  |
|  | Q4(4-17) | 392 (15.3) | 130 (26.5) |  |
|  | no\_med\_use\_recorded | 578 (22.6) | 113 (23.1) |  |

# Finalfit Regression Results