

Post-Covid-Events Results Summary Report

Contents

| | |
|---|----------|
| Summary | 1 |
| Table 1 | 2 |
| Number of patients analysed in OpenSAFELY, and the numbers of people who were exposed to COVID-19 and those who were and were not hospitalised within 28 days of diagnosis of COVID-19. | 2 |
| Table 2 | 5 |
| Numbers of events in OpenSAFELY before and after diagnosis of COVID-19. | 5 |
| Venn Diagrams | 6 |
| Figure 1 | 7 |
| Age/sex/region adjusted and maximally adjusted hazard ratios (log scale) for different events by time since diagnosis of COVID-19. | 7 |
| Figure 2 | 8 |
| Hazard ratios (log scale) for event after COVID-19 stratified by subgroups (N.B. subgroups included will depend on outcome and number of events). | 8 |
| Diabetes flow chart | 9 |
| Flow chart showing the assignment of diabetes cases using the diabetes algorithm. | 9 |

Summary

This is a brief report generated using markdown to provide a summary of results from post-covid-events analyses performed in OpenSAFELY.

Table 1

Number of patients analysed in OpenSAFELY, and the numbers of people who were exposed to COVID-19 and those who were and were not hospitalised within 28 days of diagnosis of COVID-19.

| Covariate | Covariate_level | Whole_population | COVID_exposed | COVID_hospitalised | COVID_non_hospitalised |
|----------------|--------------------------|------------------|---------------|--------------------|------------------------|
| All | All | 16575039 | 3290372 | 83180 | 3207192 |
| sex | Female | 8373798 | 1801578 | 39131 | 1762447 |
| sex | Male | 8201241 | 1488794 | 44049 | 1444745 |
| ethnicity | White | 12880563 | 2617309 | 69474 | 2547835 |
| ethnicity | Mixed | 194478 | 42984 | 986 | 41998 |
| ethnicity | South Asian | 984707 | 215887 | 6995 | 208892 |
| ethnicity | Black | 348423 | 70377 | 2628 | 67749 |
| ethnicity | Other | 380564 | 54434 | 1817 | 52617 |
| ethnicity | Missing | 1786304 | 289381 | 1280 | 288101 |
| deprivation | 1-2 (most deprived) | 3150083 | 678445 | 21619 | 656826 |
| deprivation | 3-4 | 3277474 | 669624 | 17893 | 651731 |
| deprivation | 5-6 | 3586995 | 687312 | 16739 | 670573 |
| deprivation | 7-8 | 3408176 | 651846 | 14653 | 637193 |
| deprivation | 9-10 (least deprived) | 3152311 | 603145 | 12276 | 590869 |
| region | London | 1132182 | 197740 | 5097 | 192643 |
| region | East | 3871809 | 739104 | 18196 | 720908 |
| region | East_Midlands | 2865361 | 598350 | 16062 | 582288 |
| region | North_East | 798723 | 188885 | 5587 | 183298 |
| region | North_West | 1453203 | 343358 | 9034 | 334324 |
| region | South_East | 1138818 | 196558 | 5235 | 191323 |
| region | South_West | 2328449 | 377277 | 6641 | 370636 |
| region | West_Midlands | 662387 | 144787 | 4617 | 140170 |
| region | Yorkshire_and_The_Humber | 2324107 | 504313 | 12711 | 491602 |
| smoking status | Never smoker | 7732789 | 1610292 | 33867 | 1576425 |
| smoking status | Ever smoker | 5200004 | 1032738 | 40210 | 992528 |
| smoking status | Current smoker | 2891935 | 505229 | 8070 | 497159 |
| smoking status | Missing | 750311 | 142113 | 1033 | 141080 |
| bmi groups | Healthy_weight | 5320172 | 1008355 | 19276 | 989079 |
| bmi groups | Underweight | 362272 | 64495 | 1873 | 62622 |
| bmi groups | Overweight | 4791549 | 919436 | 26026 | 893410 |
| bmi groups | Obese | 3380435 | 726450 | 30293 | 696157 |

| Covariate | Covariate_level | Whole_population | COVID_exposed | COVID_hospitalised | COVID_non_hospitalised |
|--|-----------------|------------------|---------------|--------------------|------------------------|
| bmi groups | Missing | 2720611 | 571636 | 5712 | 565924 |
| age group | 18-29 | 3135558 | 850688 | 4727 | 845961 |
| age group | 30-39 | 3055989 | 754221 | 7792 | 746429 |
| age group | 40-49 | 2828588 | 680391 | 10205 | 670186 |
| age group | 50-59 | 2889820 | 531284 | 13708 | 517576 |
| age group | 60-69 | 2117573 | 244517 | 12437 | 232080 |
| age group | 70-79 | 1629079 | 129391 | 14943 | 114448 |
| age group | 80-89 | 747663 | 73617 | 14581 | 59036 |
| age group | 90+ | 170769 | 26263 | 4787 | 21476 |
| consulation rate group | 0 | 4755033 | 773259 | 11230 | 762029 |
| consulation rate group | 1-5 | 6430408 | 1384922 | 26027 | 1358895 |
| consulation rate group | 6+ | 5389598 | 1132191 | 45923 | 1086268 |
| consulation rate | Mean | 5.296 | 5.628 | 10.02 | 5.514 |
| tc hdl ratio | Mean | 11 | 13 | 3.54 | 14 |
| History of ami | TRUE | 303535 | 40808 | 6036 | 34772 |
| History of all stroke | TRUE | 224940 | 31745 | 4818 | 26927 |
| History of other arterial embolism | TRUE | 82334 | 11787 | 1486 | 10301 |
| History of vte | TRUE | 253731 | 41378 | 4071 | 37307 |
| History of hf | TRUE | 251880 | 36362 | 7137 | 29225 |
| History of angina | TRUE | 461897 | 60174 | 8670 | 51504 |
| History of dementia | TRUE | 167049 | 38670 | 6204 | 32466 |
| History of liver disease | TRUE | 99928 | 15250 | 1167 | 14083 |
| History of chronic kidney disease | TRUE | 795699 | 108107 | 16752 | 91355 |
| History of cancer | TRUE | 4914559 | 1136926 | 25070 | 1111856 |

| Covariate | Covariate_level | Whole_population | COVID_exposed | COVID_hospitalised | COVID_non_hospitalised |
|--|-----------------|------------------|---------------|--------------------|------------------------|
| History of hypertension | TRUE | 2789705 | 381487 | 34270 | 347217 |
| History of depression | TRUE | 4555520 | 967161 | 30161 | 937000 |
| History of chronic obstructive pulmonary disease | TRUE | 459094 | 61424 | 11052 | 50372 |
| History of healthcare worker | TRUE | 504488 | 167058 | 2219 | 164839 |
| History of carehome status | TRUE | 70124 | 22504 | 2658 | 19846 |
| History of prediabetes | TRUE | 804114 | 112275 | 9706 | 102569 |
| History of diabetes gestational | TRUE | 87970 | 27250 | 437 | 26813 |

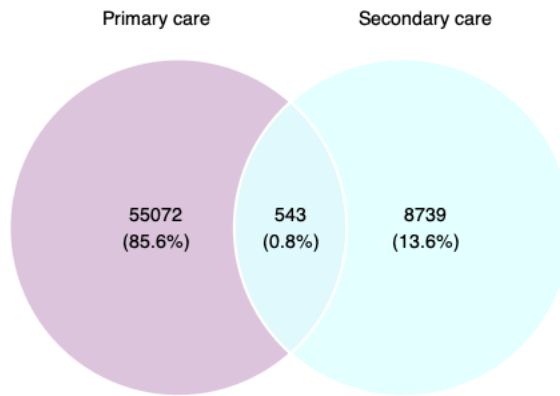
Table 2

Numbers of events in OpenSAFELY before and after diagnosis of COVID-19.

| event | strata | unexposed person days | unexposed event count | post exposure event count | total person days |
|------------------|------------------|--------------------------|--------------------------|------------------------------|-------------------|
| out date t1dm | hospitalised | 16924997 | 3661 | 9 | 16997587 |
| out date t1dm | non hospitalised | 9848343 | 3661 | 17 | 9947758 |
| out date t2dm | hospitalised | 19277628 | 34147 | 186 | 19351162 |
| out date t2dm | non hospitalised | 12215078 | 34147 | 147 | 12316148 |
| out date otherdm | hospitalised | 16830887 | 3683 | [Redacted] | 16903268 |
| out date otherdm | non hospitalised | 9752962 | 3683 | 15 | 9852394 |

Venn Diagrams

type 2 diabetes



type 1 diabetes

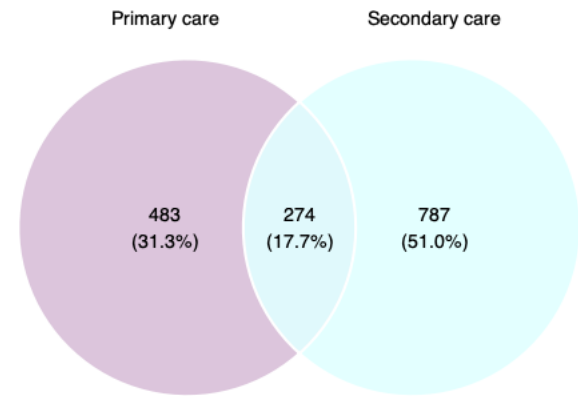


Figure 1

Age/sex/region adjusted and maximally adjusted hazard ratios (log scale) for different events by time since diagnosis of COVID-19.

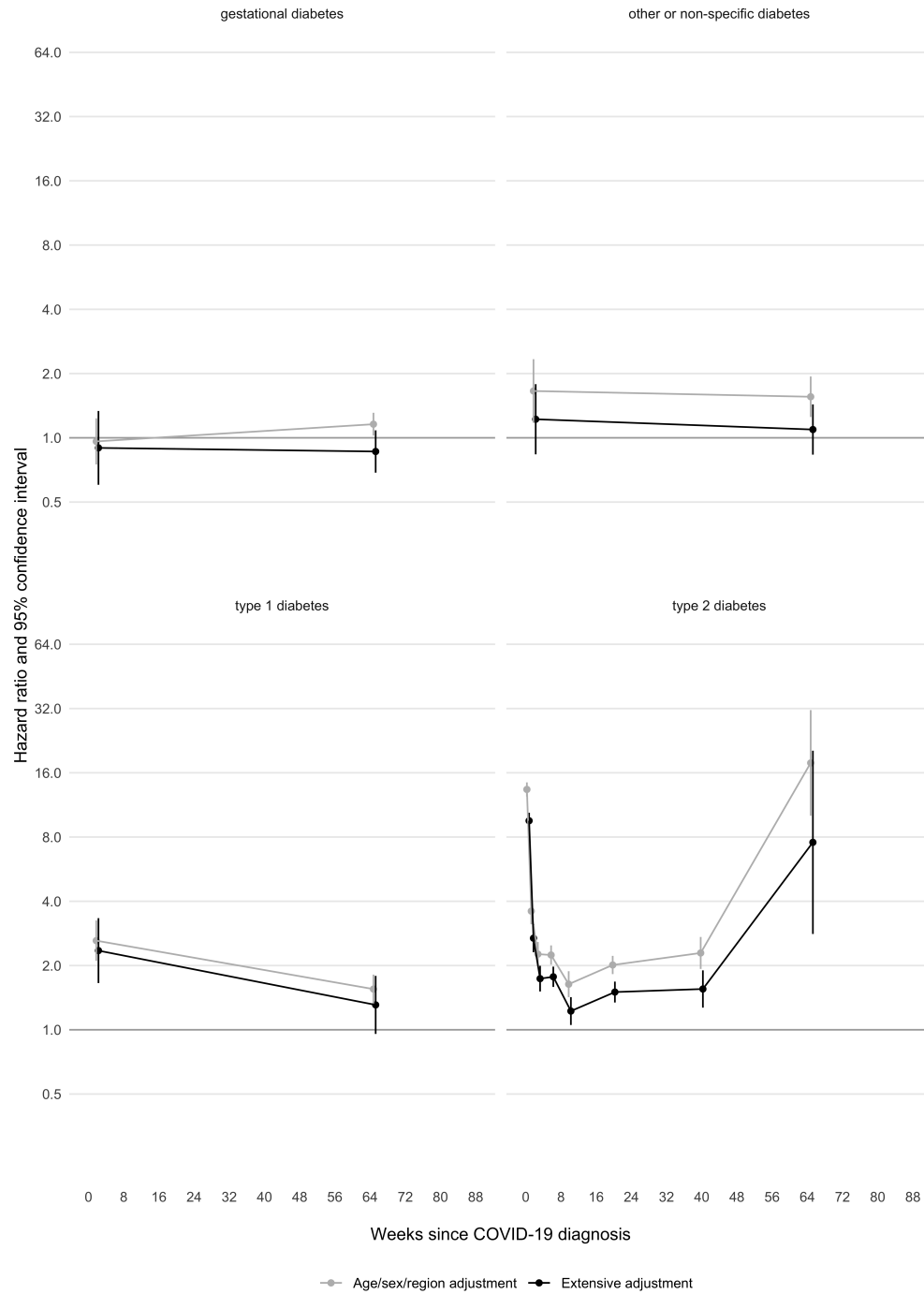
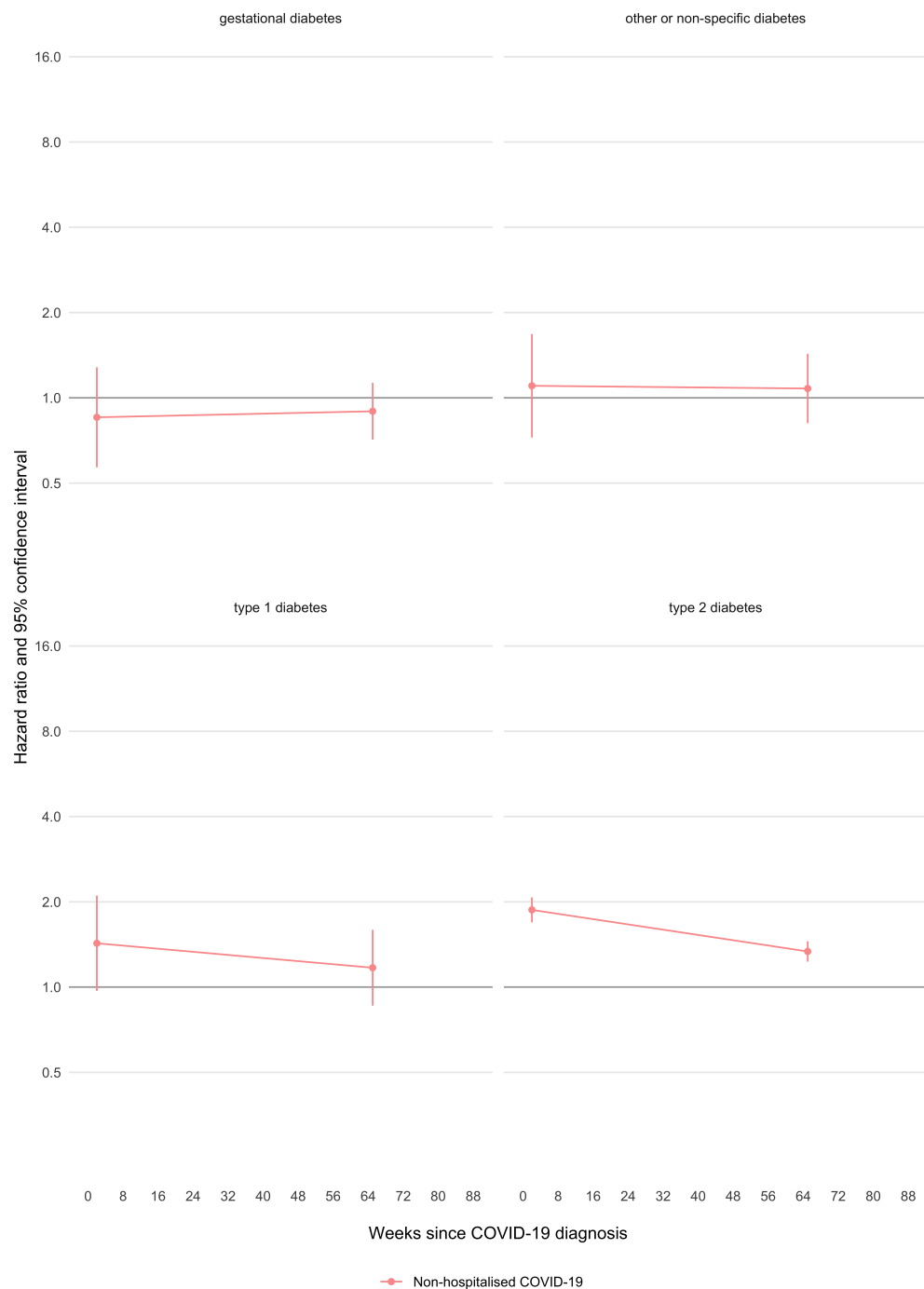


Figure 2

Hazard ratios (log scale) for event after COVID-19 stratified by subgroups (N.B. subgroups included will depend on outcome and number of events).



9

9

