

# Protection provided by covid-19 vaccines and previous infection against the Omicron variant

Supplementary Material 2 – Results of Statistical Estimation

February 26, 2022 \*

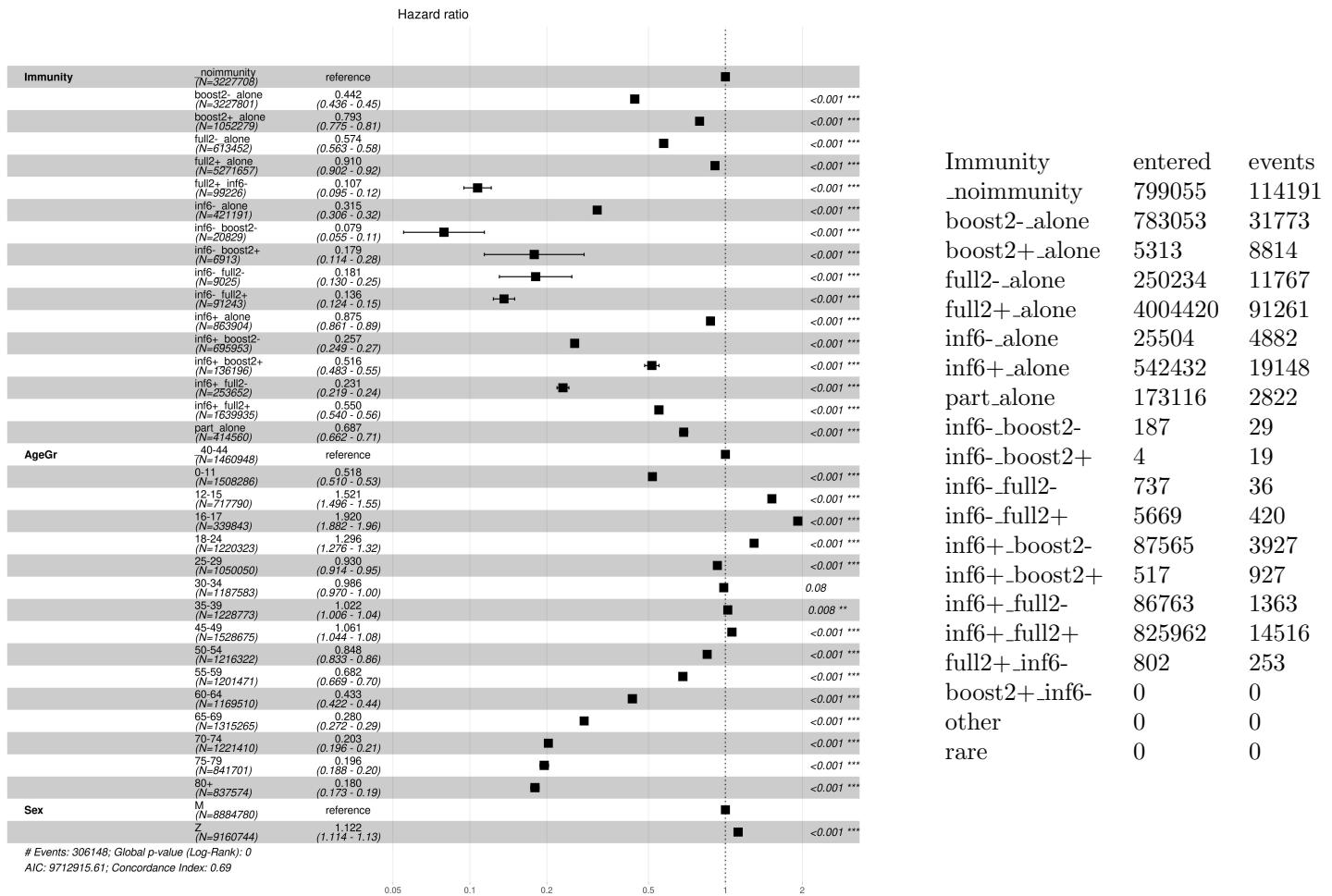
This material contains results of the analyses by Cox Regression (1–14) and Logistic Regression (15–19). The output information of the former include a forest plot of hazard ratios (the VE's and the protections can be computed by subtraction from one) and tables with the numbers of individuals<sup>1</sup> entering the study with the individual immunity statuses and the outcome numbers among people with the corresponding immunity statuses. The results of logistic regressions include forest plots of individual covariates and, in particular, the odds ratios between variants.

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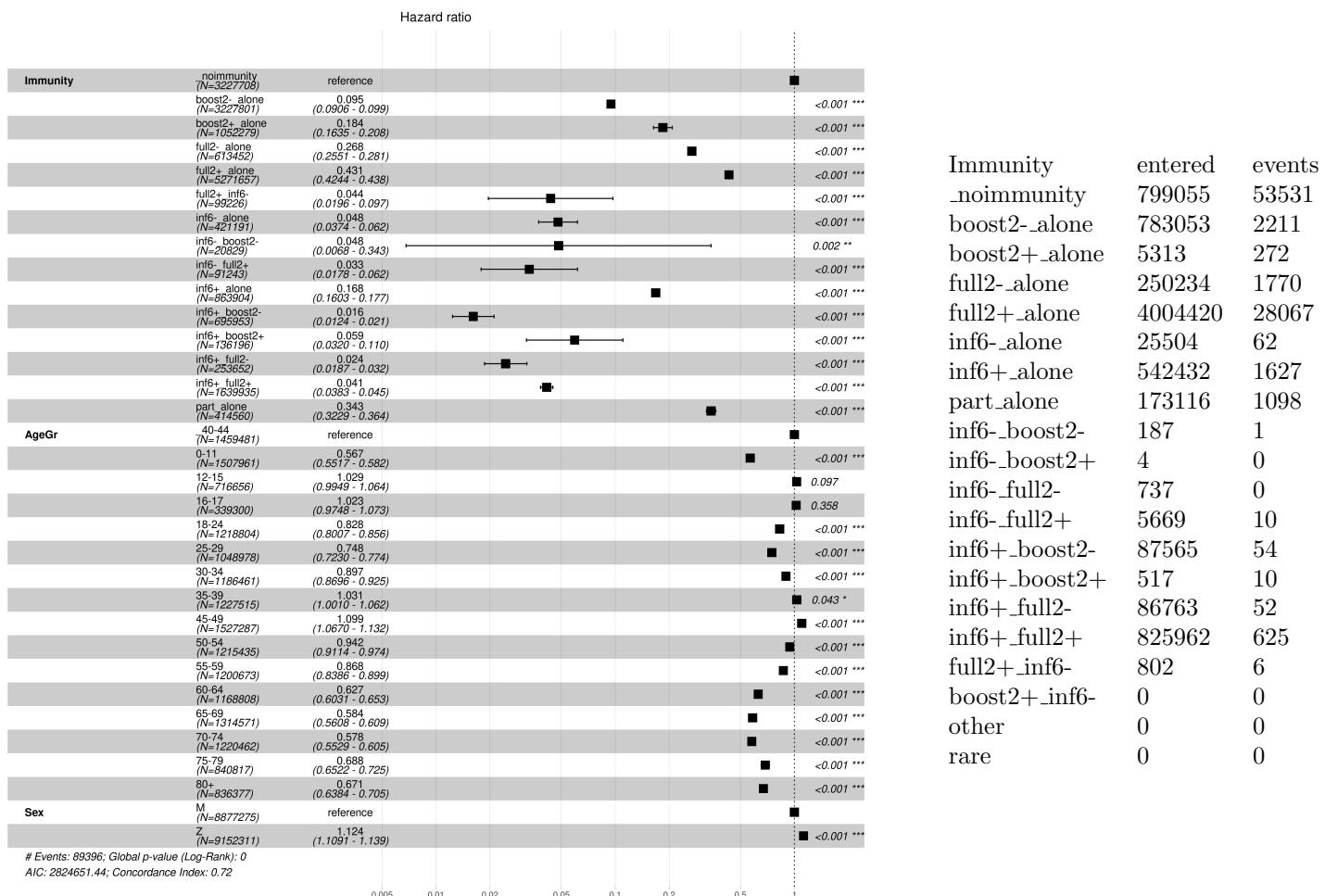
\*Minor corrections on July 24,22: (i) Wrong numbers of events in tables 7–10 corrected, (ii) rare categories grouped in Secs 16–19 to avoid the R's misleading reporting of zero event categories, (iii) typos and reformulations in the preamble corrected and an explanatory footnote added.

<sup>1</sup>Only the individuals from the IHIS database are recorded here.

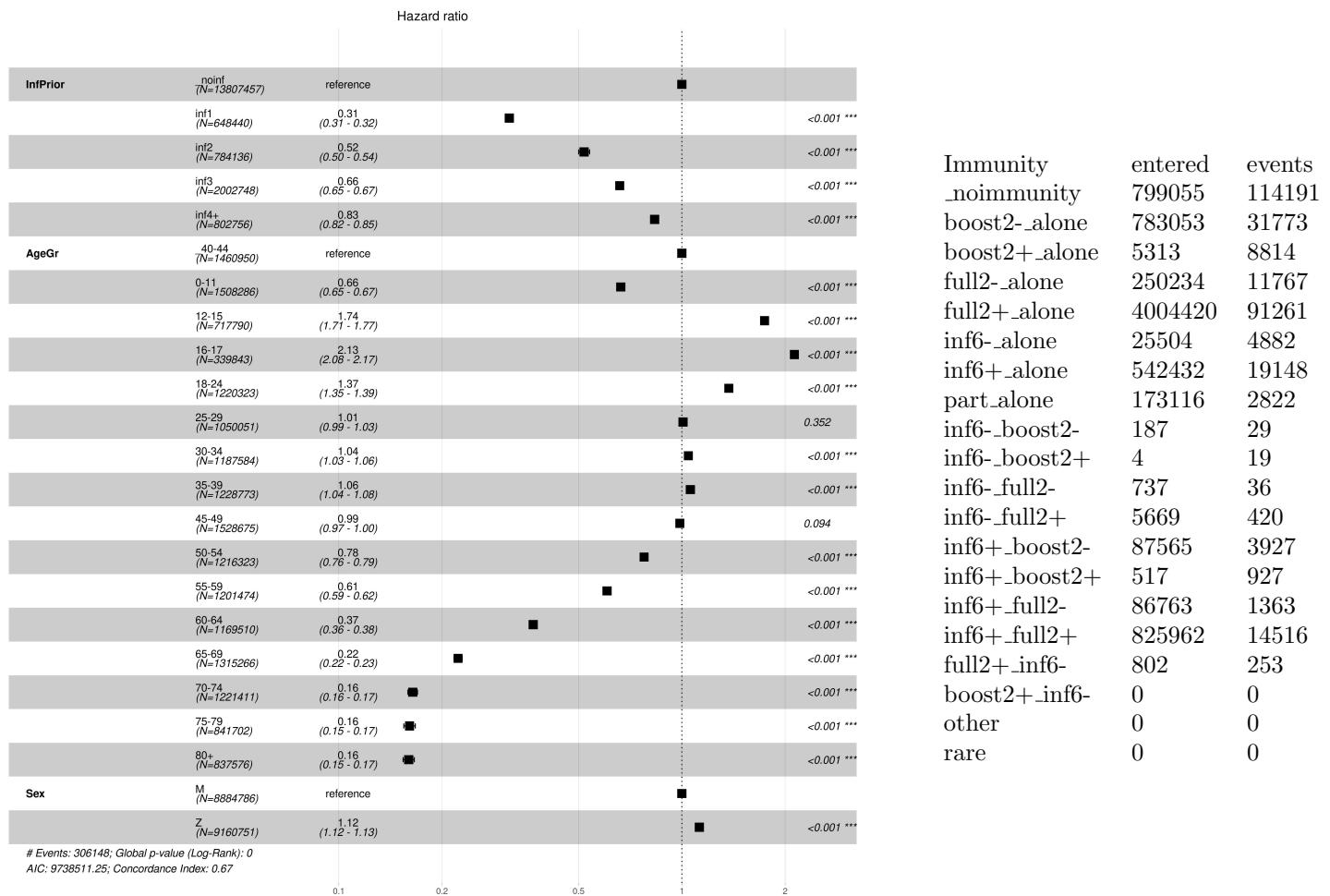
# 1 Infections – Omicron



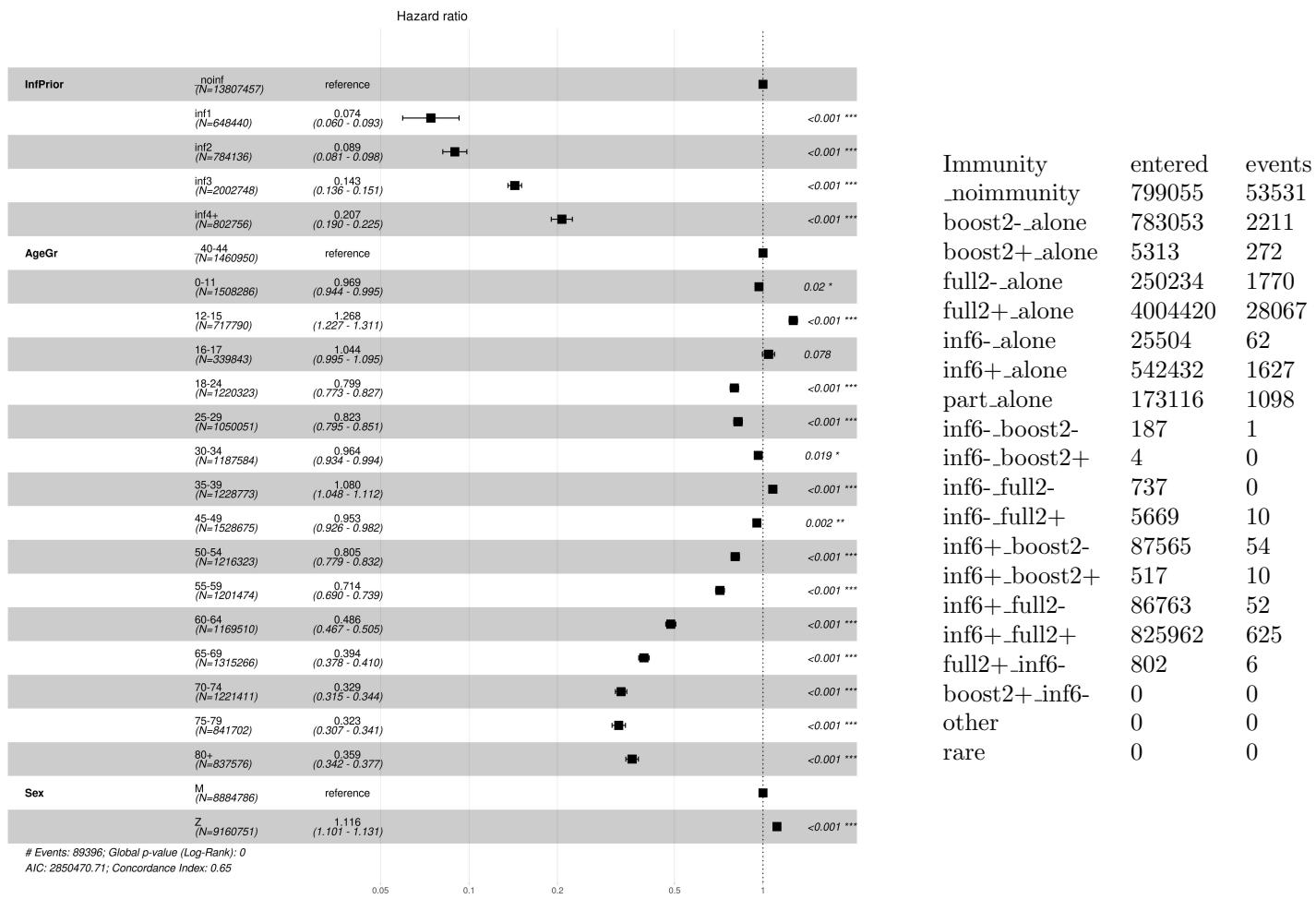
## 2 Infections – Delta



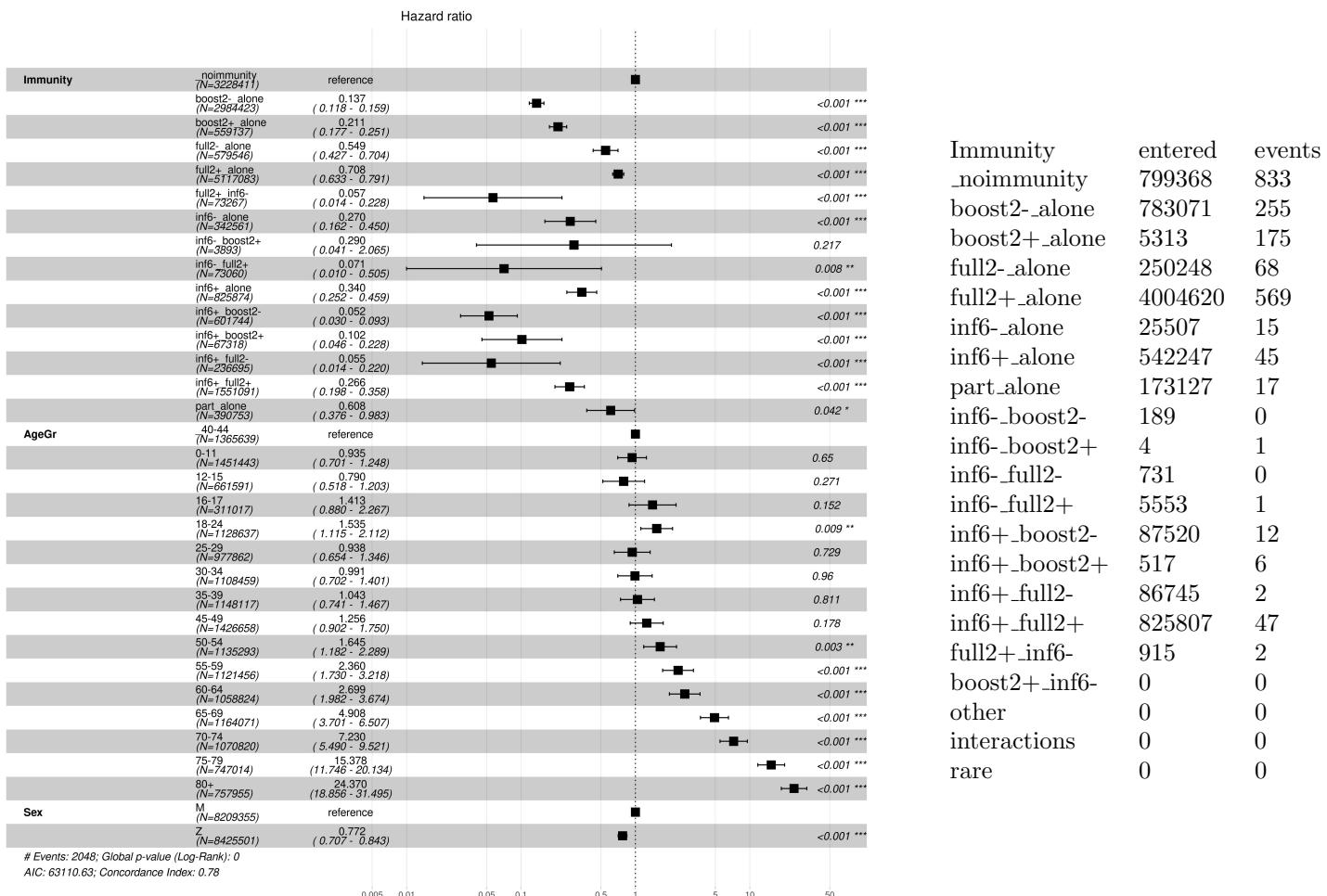
### 3 Protection by Infection – Omicron



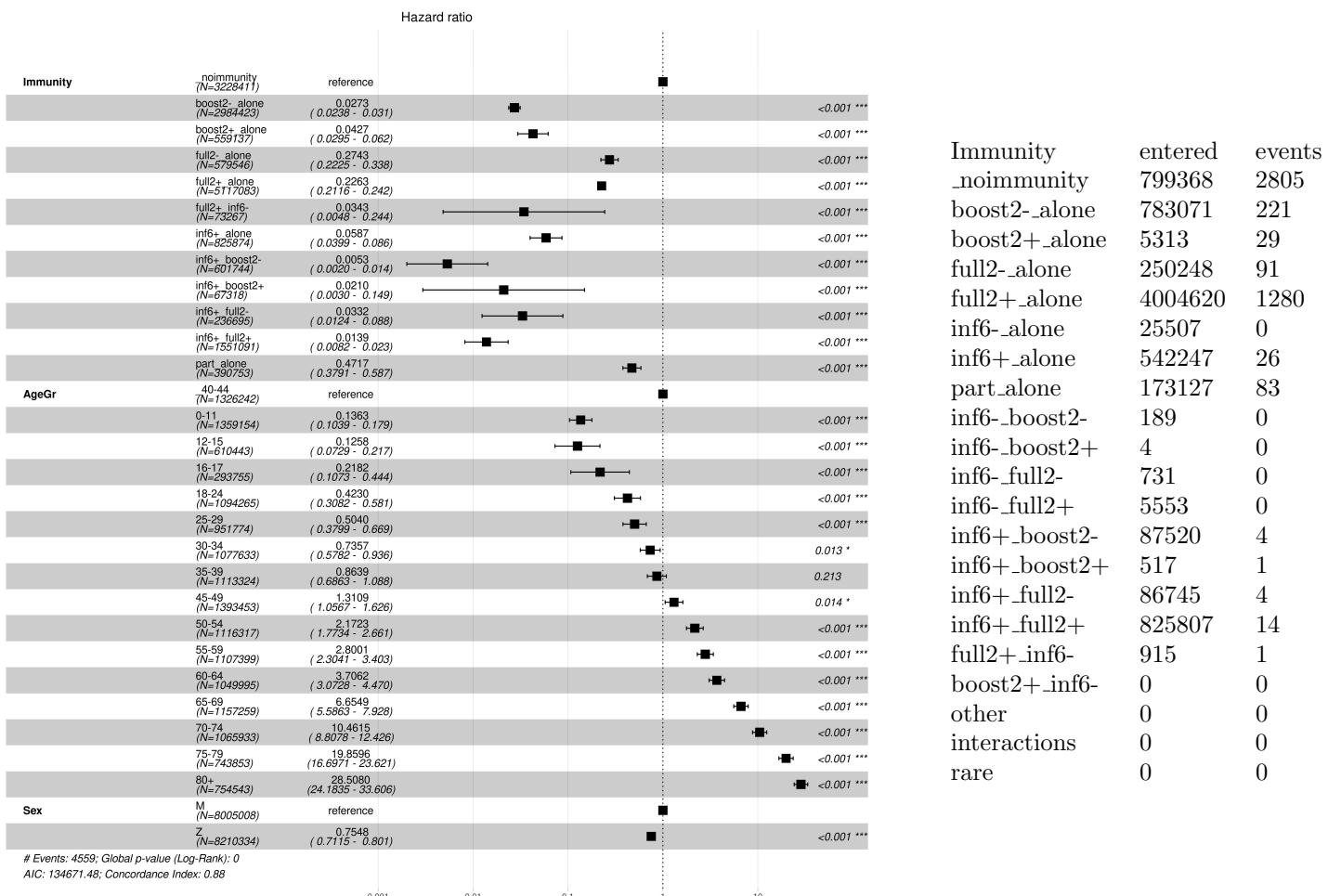
## 4 Protection by Infection – Delta



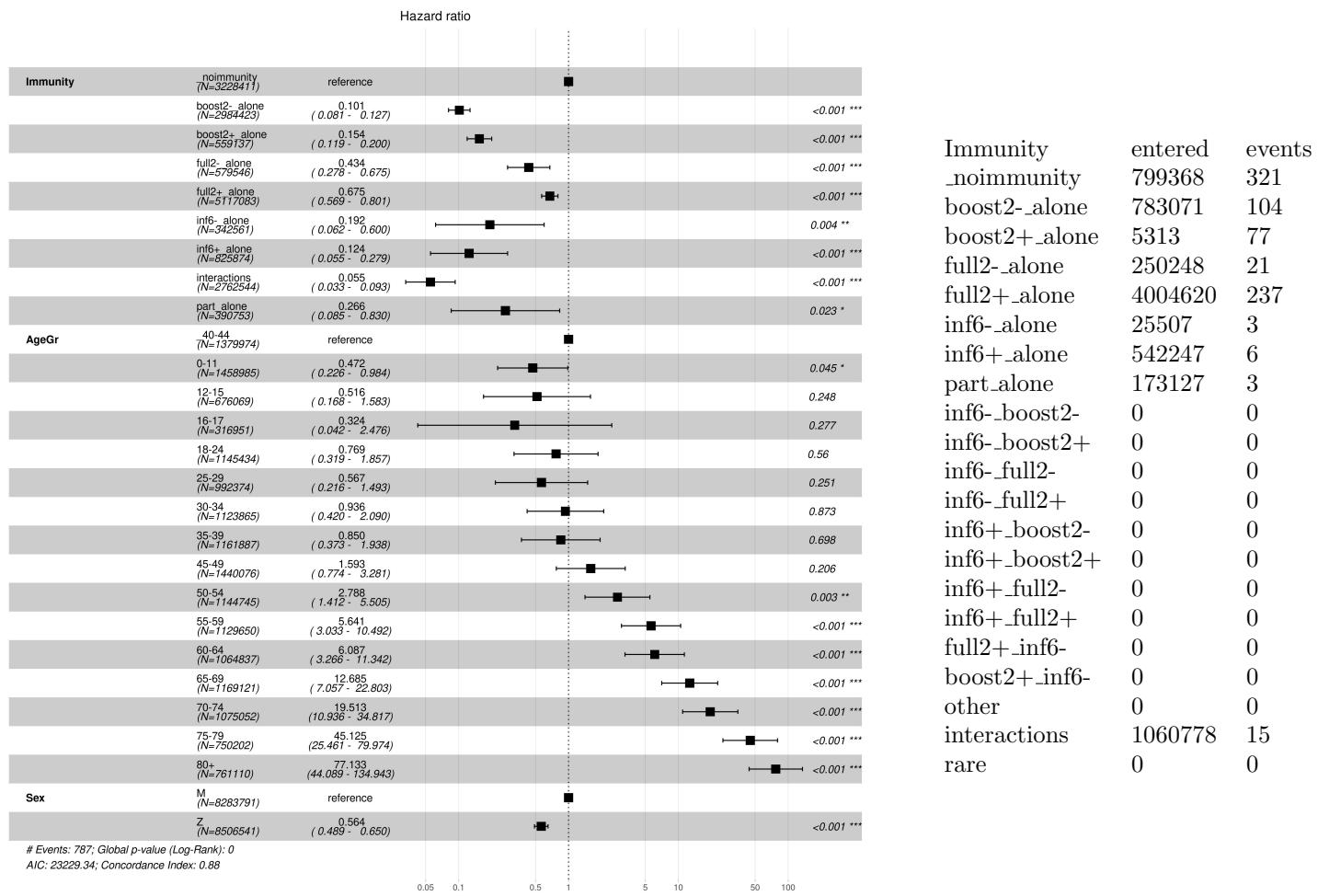
## 5 Hospitalizations – Omicron



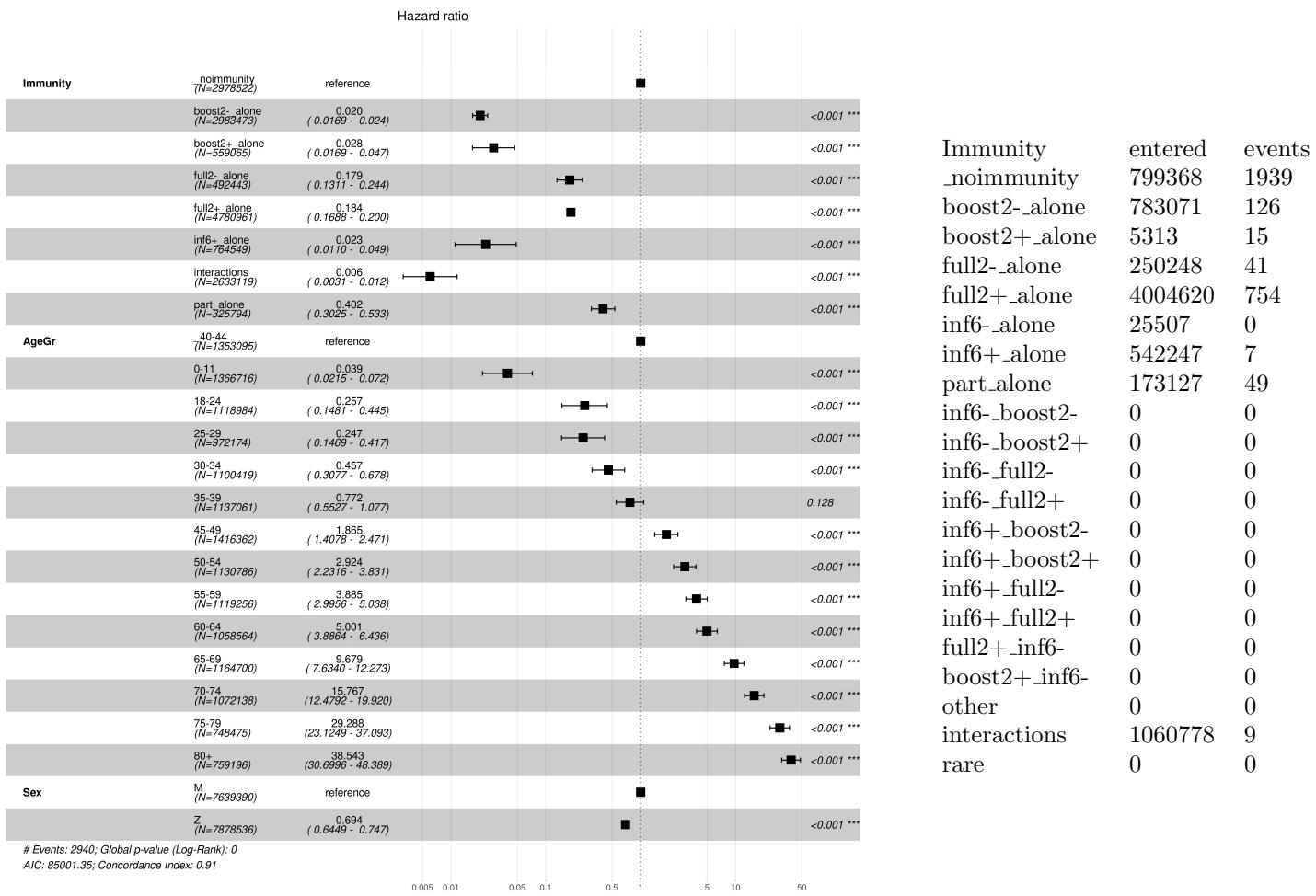
## 6 Hospitalizations – Delta



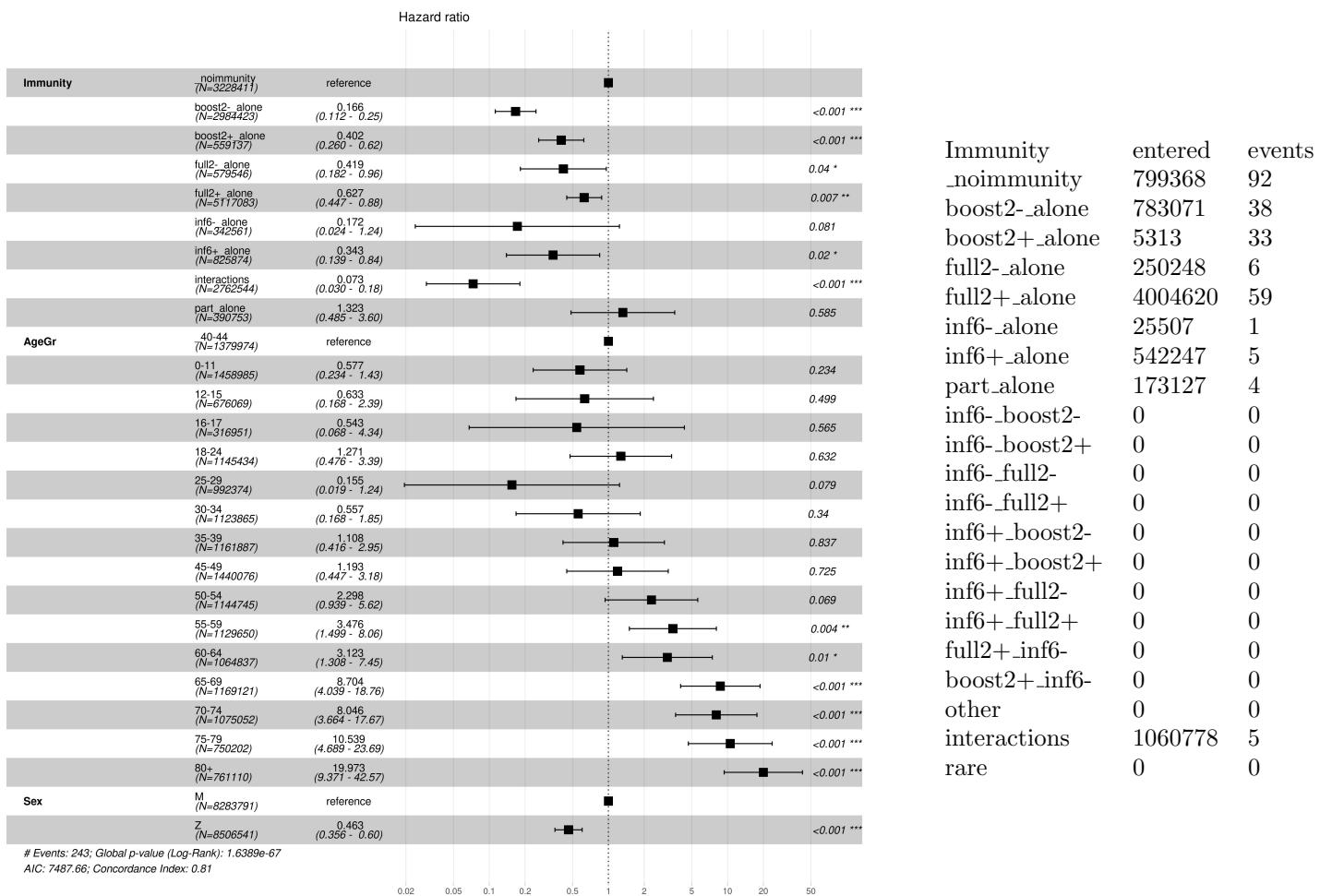
## 7 Oxygen therapy – Omicron



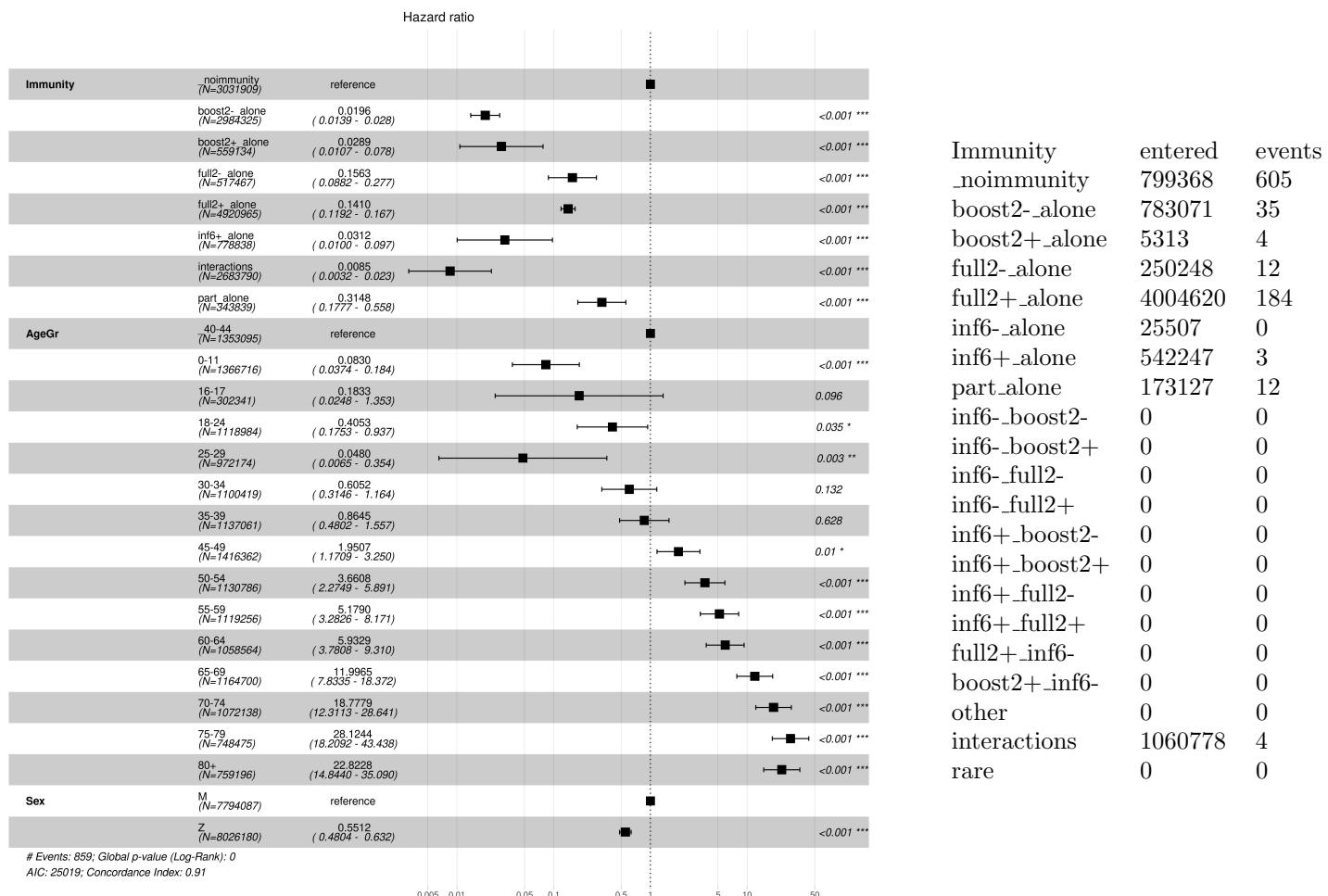
## 8 Oxygen therapy – Delta



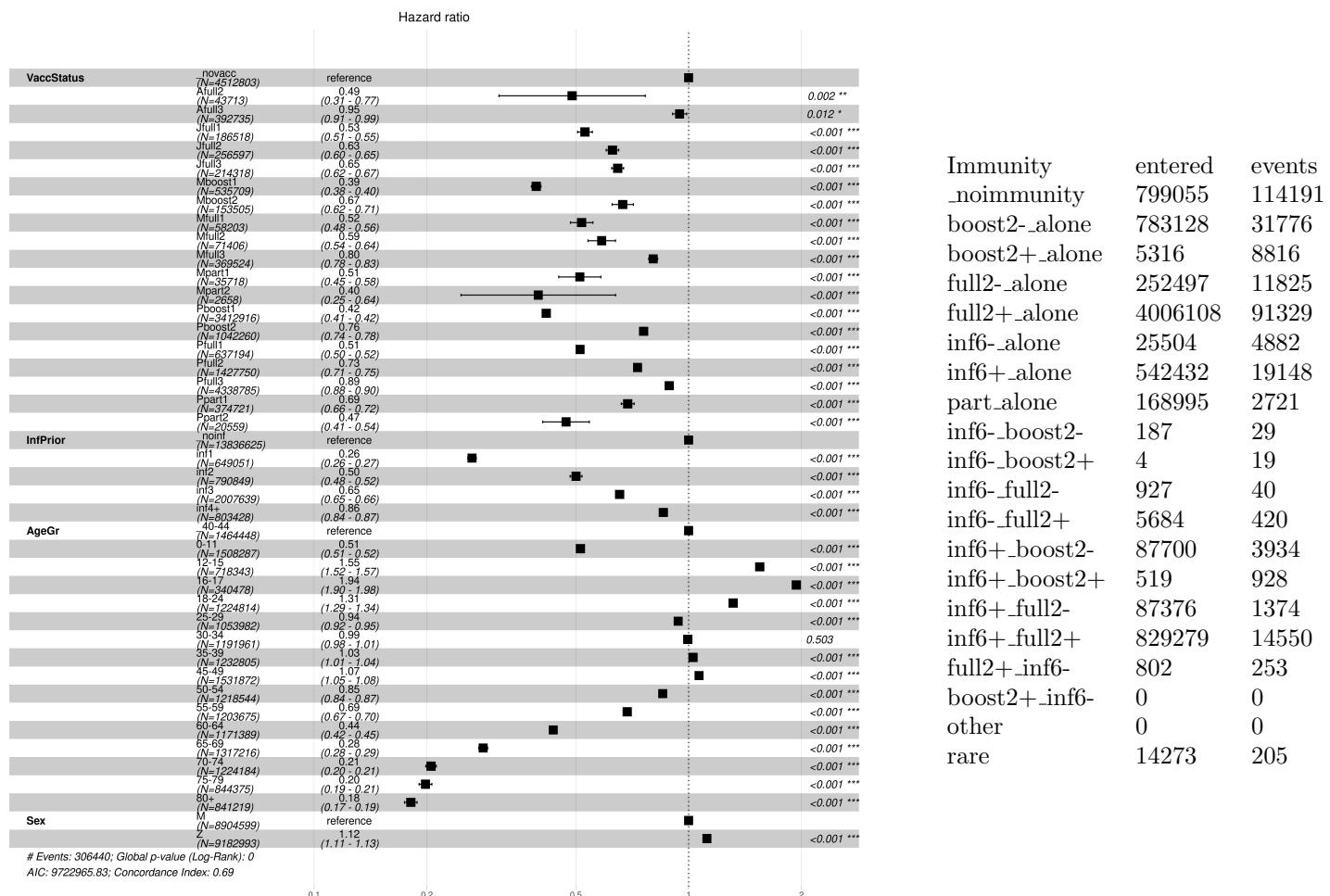
## 9 ICU therapy – Omicron



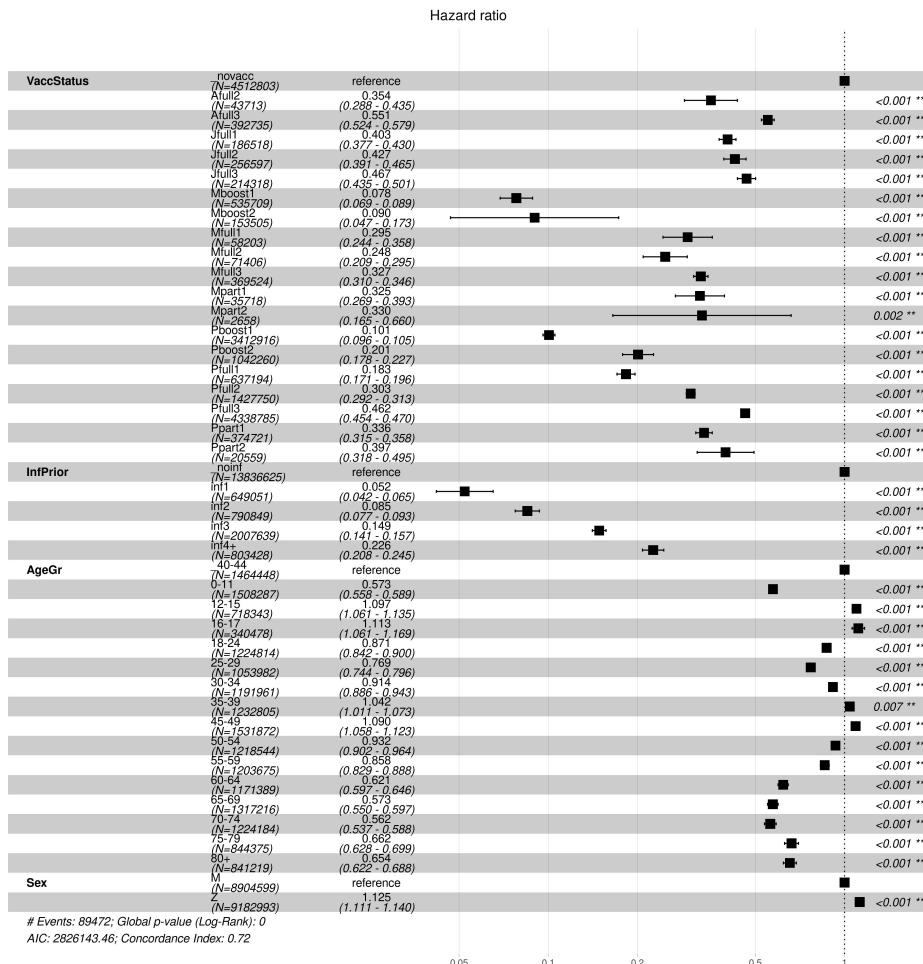
## 10 ICU therapy – Delta



## 11 Infections by Vaccines - Omicron

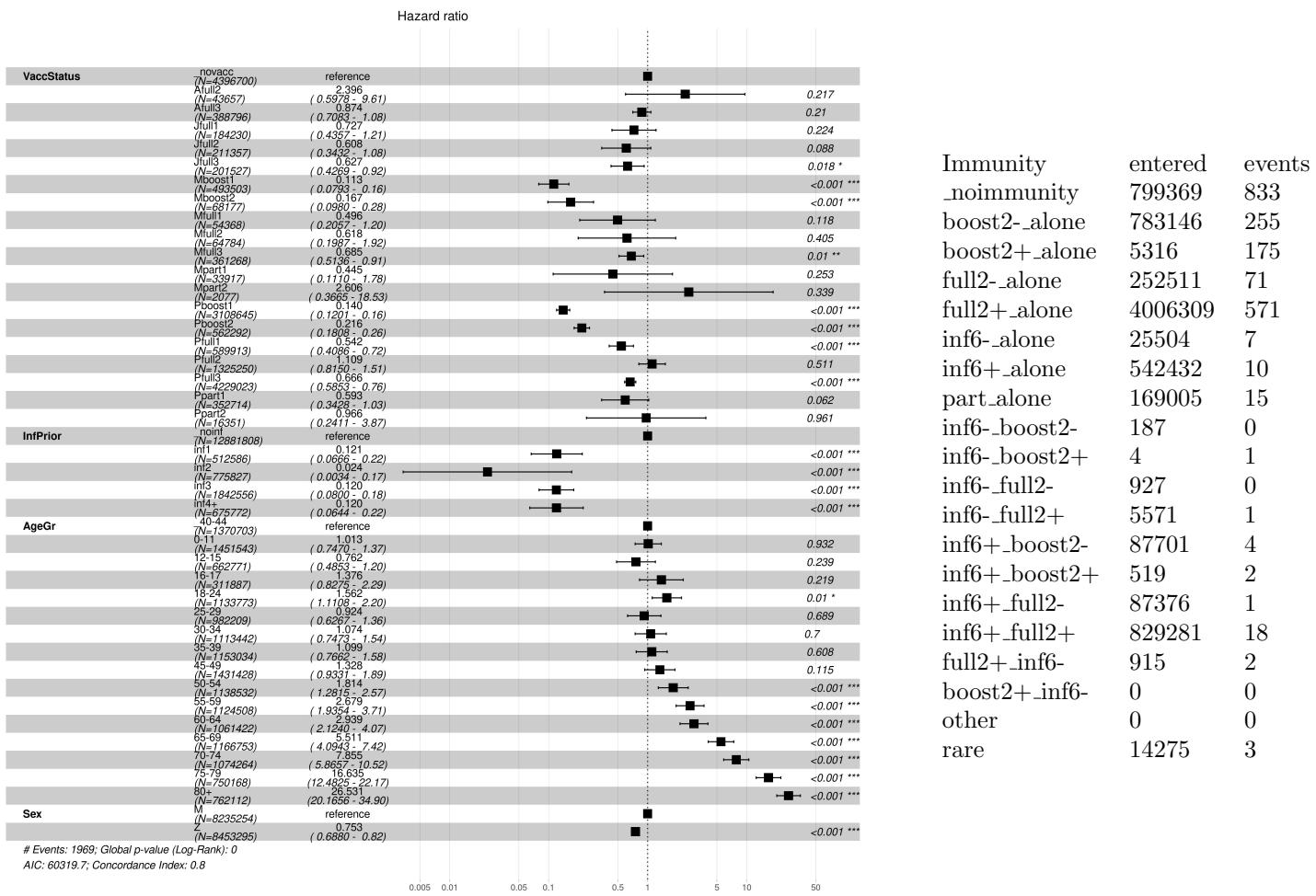


## 12 Infections by Vaccines - Delta

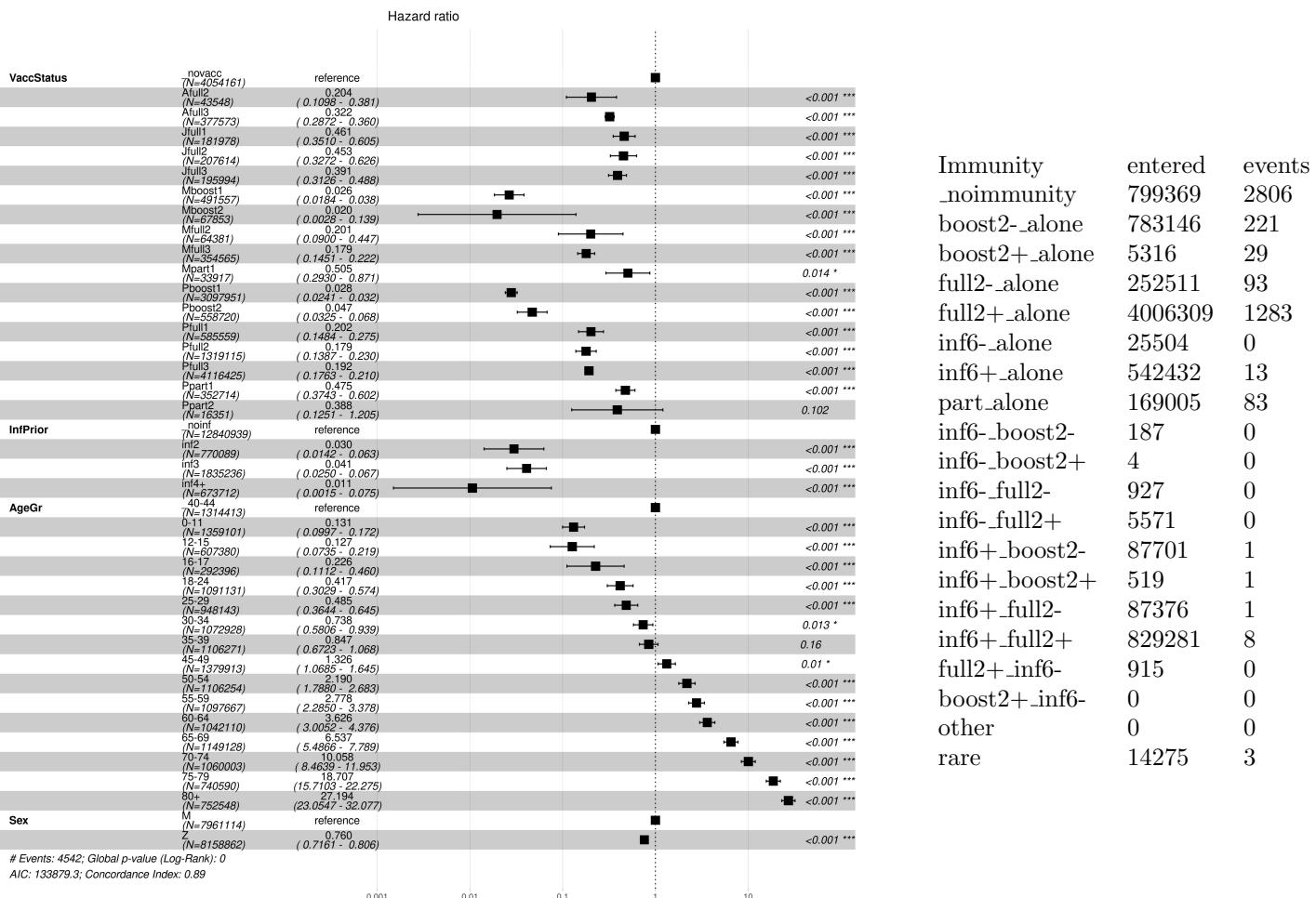


Immunity	entered	events
_noimmunity	799055	53531
boost2-_alone	783128	2212
boost2+_alone	5316	272
full2-_alone	252497	1776
full2+_alone	4006108	28077
inf6-_alone	25504	62
inf6+_alone	542432	1627
part_alone	168995	1068
inf6-_boost2-	187	1
inf6-_boost2+	4	0
inf6-_full2-	927	0
inf6-_full2+	5684	10
inf6+_boost2-	87700	54
inf6+_boost2+	519	10
inf6+_full2-	87376	52
inf6+_full2+	829279	627
full2+_inf6-	802	6
boost2+_inf6-	0	0
other	0	0
rare	14273	87

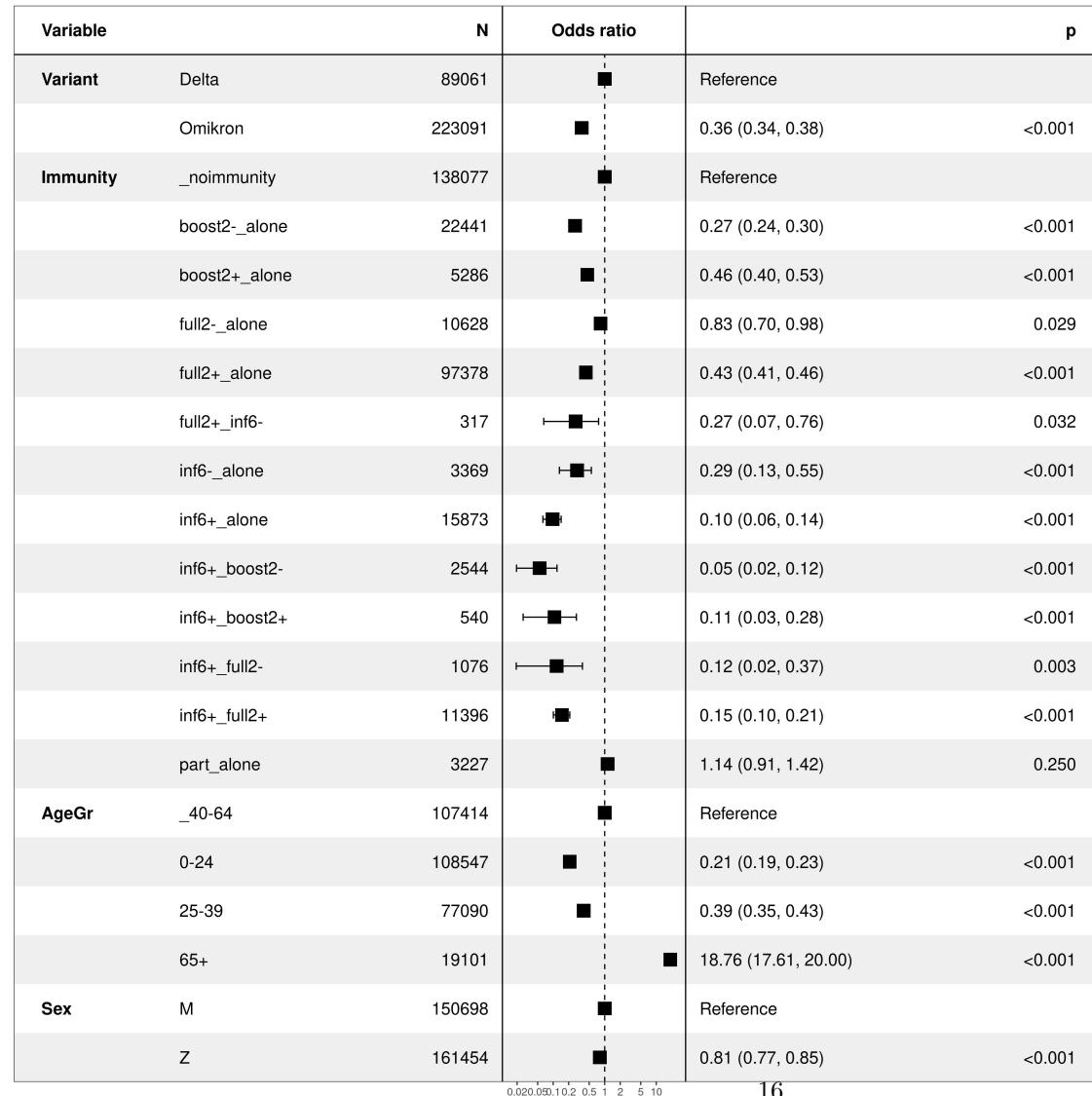
## 13 Hospitalizations by Vaccines - Omicron



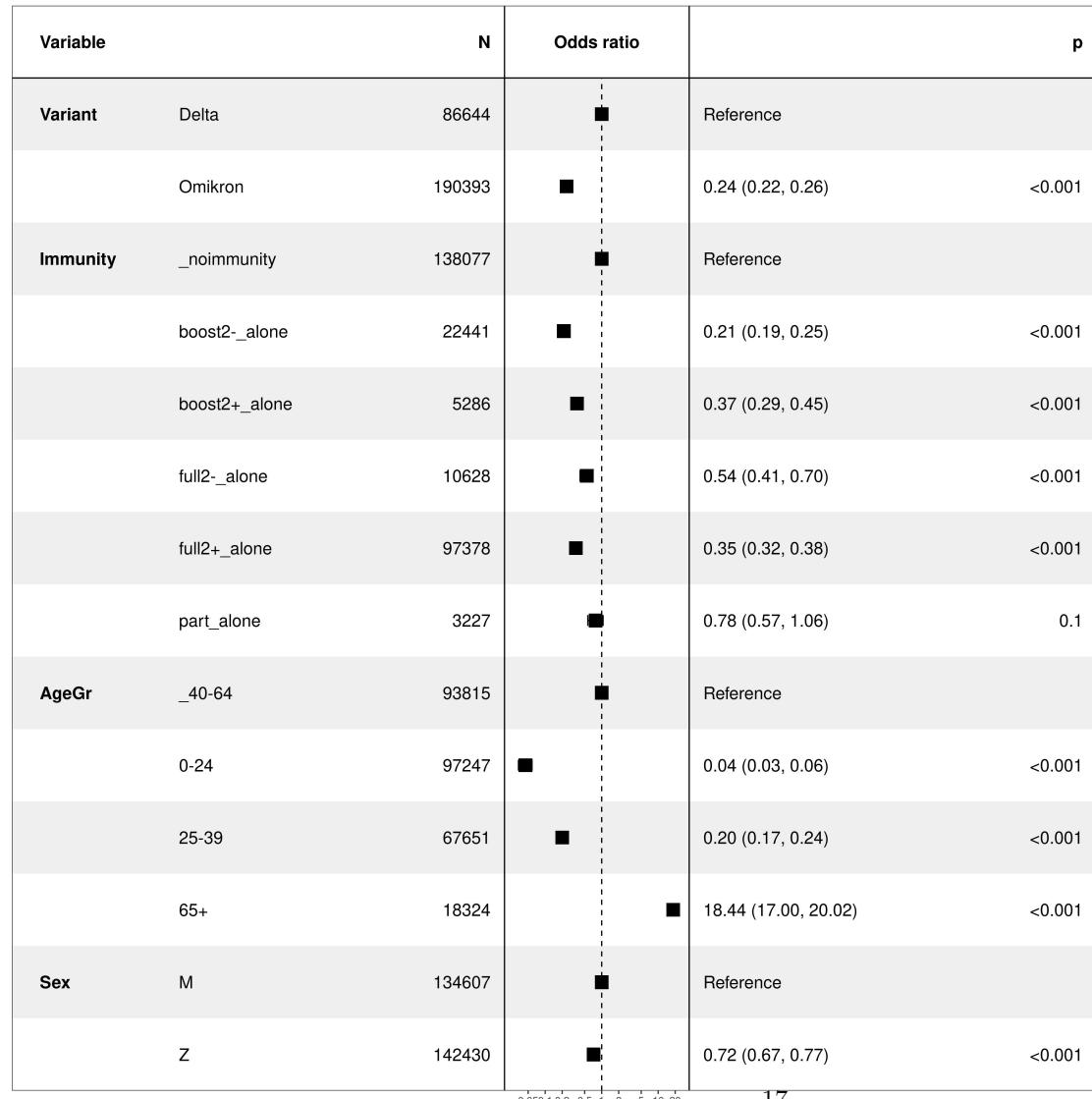
## 14 Hospitalizations by Vaccines - Delta



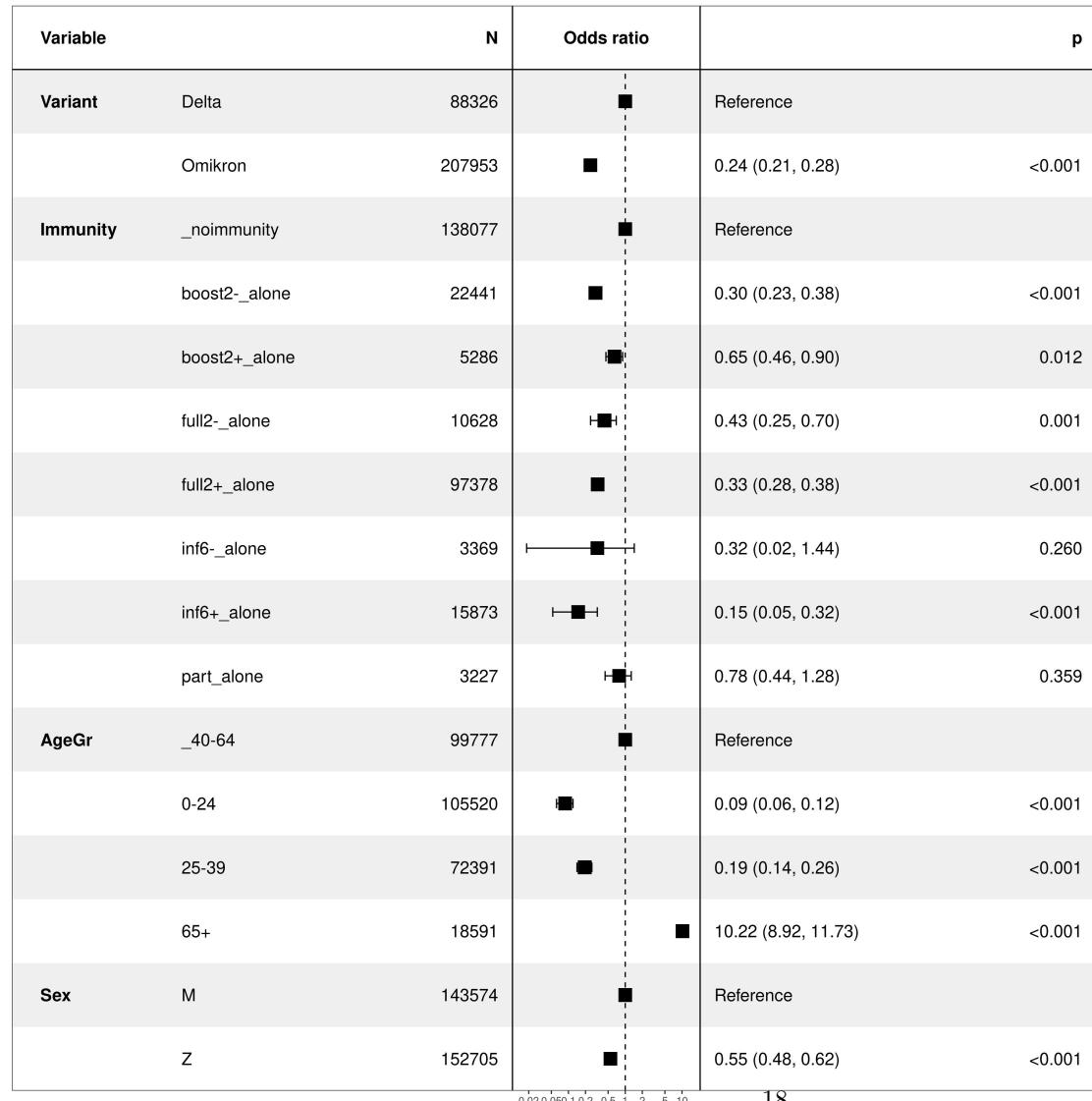
## 15 Hospitalization given Infection



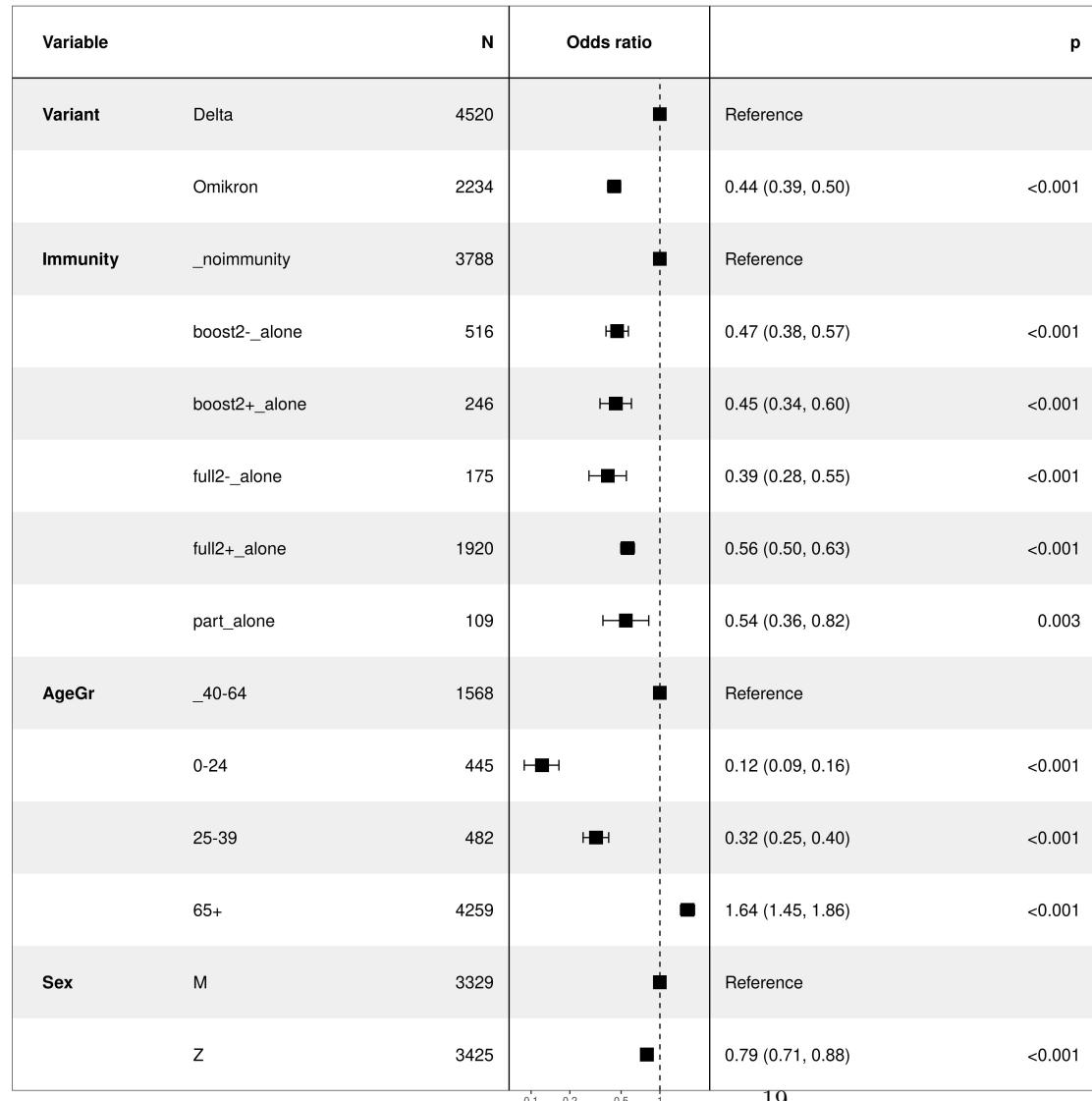
## 16 Oxygen given Infection



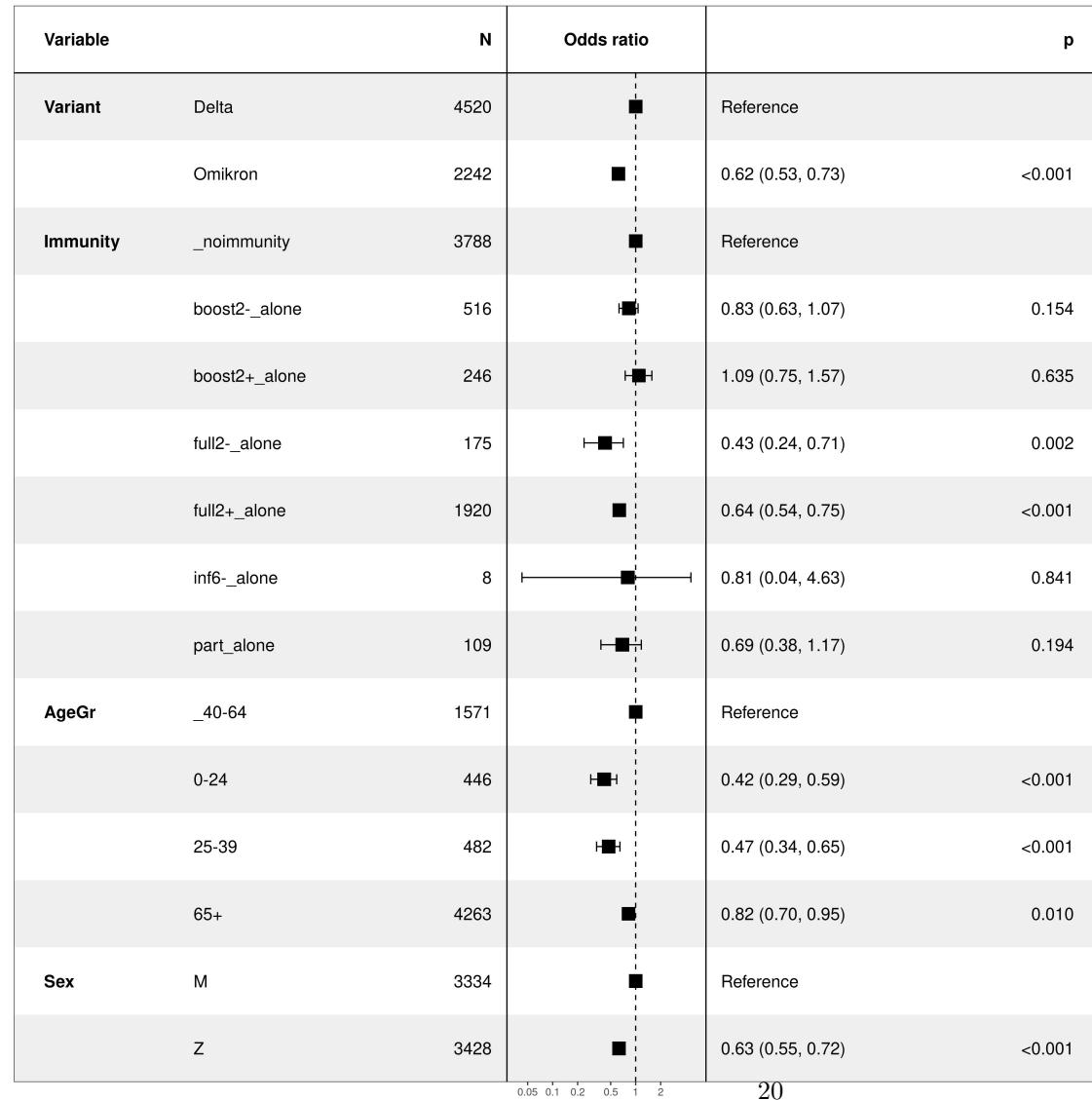
## 17 ICU given Infection



## 18 Oxagen given Hospitalization



## 19 ICU given Hospitalization



## 20 Infections – Omicron – Sensitivity

