Supplementary material

- 2 This supplementary material is hosted by Eurosurveillance as supporting information alongside the article
- 3 mRNA vaccines effectiveness against COVID-19 hospitalizations and deaths in older adults: a cohort study
- 4 based on data-linkage of national health registries in Portugal on behalf of the authors who remain
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Supplementary Table S1 – Study period times (days) and date of last event for COVID-19

10 hospitalization and deaths - cohort 65-79 and 80 yo or older.

	Start	End	Duration (days)
65-79 Cohort			
Hospitalization	30.03.2021	11.08.2021	134
Deaths	30.03.2021	09.08.2021	132
80 + Cohort			
Hospitalization	02.02.2021	11.08.2021	190
Deaths	02.02.2021	07.08.2021	186

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13 Supplementary Table S2− Distribution of time (days) since second dose for cohort 65-79 and ≥80 yo.

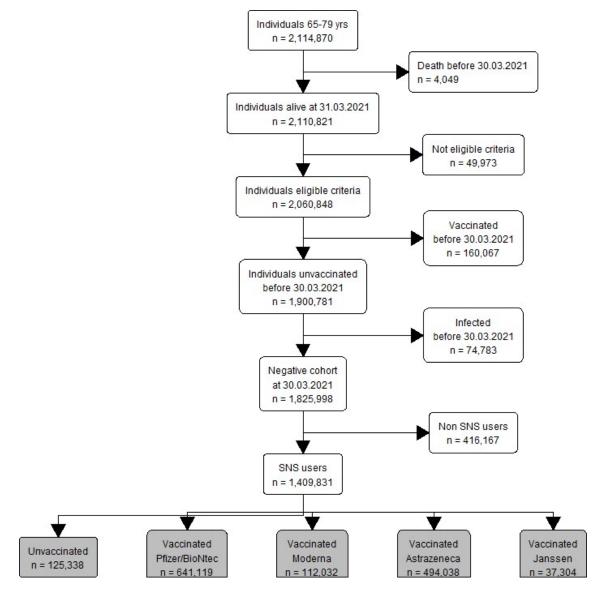
	Median	Interquartile Range	Minimum-Maximum
		(IQR)	
65-79 yo Cohort	78	71 to 94	1 - 113
≥80 yo Cohort	125	112 to 145	1 - 168

Supplementary Table S3 – Comparison between the age group, sex and region distribution of the individuals included in the 65-79 age cohort and the Portuguese population estimates

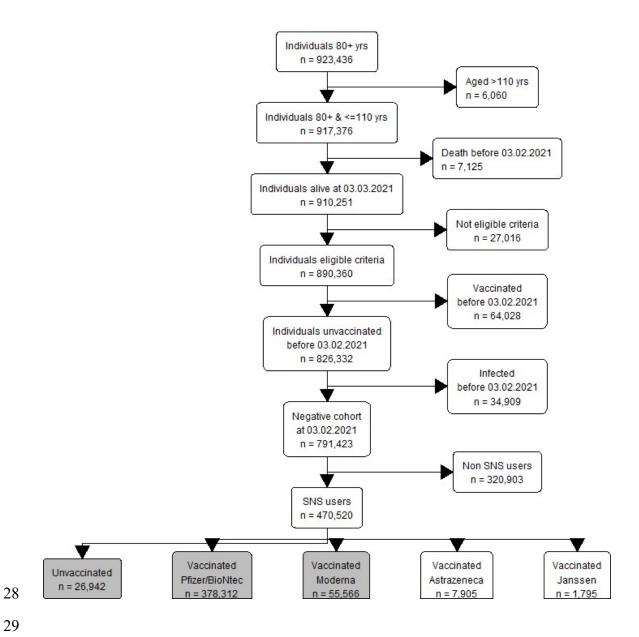
	Cohort (%)	Population (%)
65-79 yo cohort		
Age group		
65-69	341,953 (38.9)	602,210 (38.4)
70-74	298,253 (34.0)	536,388 (34.2)
75-79	238,283 (27.1)	428,706 (27.4)
Sex, male	385,128 (43.8)	694,974 (44.3)
≥80 yo cohort		
Age group		
80-84	232,429 (50.4)	337797 (51.0)
85+	228,391 (49.6)	324027 (49.0)
Sex, male	186,014 (40.4)	239,436 (36.2)

(Statistics Portugal, 2020 population estimates).

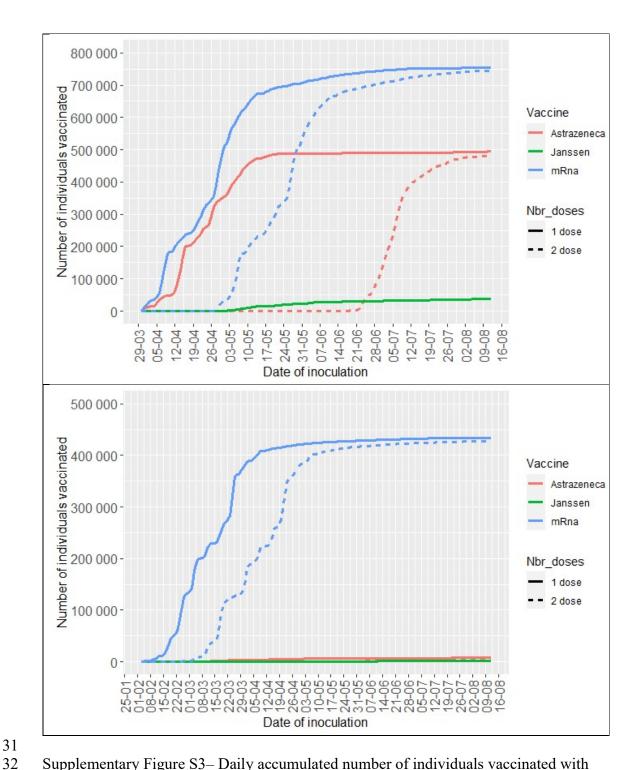
24 Figures



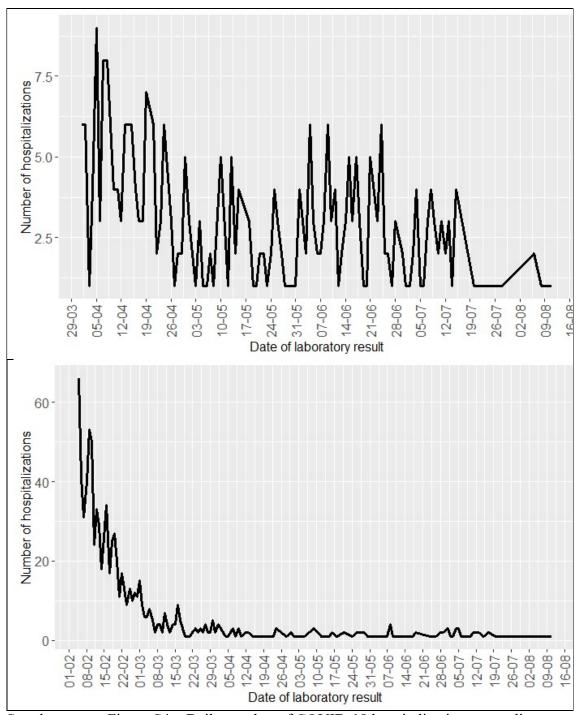
26 Supplementary Figure S1 – Participants selection flowcharts 65-79 years old cohort



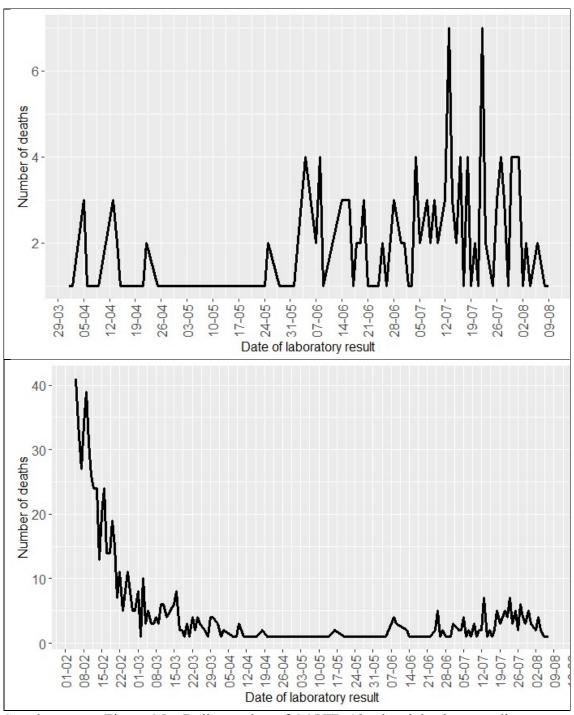
Supplementary Figure S2 - Participants selection flowcharts ≥ 80 years old cohort



Supplementary Figure S3– Daily accumulated number of individuals vaccinated with mRNA vaccines, according to the number of doses for the 65-79 age cohort (upper panel) and $\geq \!\! 80$ years old cohort (lower panel).



Supplementary Figure S4 – Daily number of COVID-19 hospitalizations according to date of SARS-CoV-2 infection diagnosis for 65 to 79 cohort (upper panel) and ≥80 years old cohort (lower panel)



Supplementary Figure S5 – Daily number of COVID-19 related deaths according to date SARS-CoV-2 infection diagnosis for 65 to 79 cohort (upper panel) and \geq 80 years old (lower panel)