## STROBE REPORTING CHECKLIST FOR OBSERVATIONAL STUDIES

Strobe Checklist Item	Manuscript
Strobe Checkist item         Title and Abstract         (a) Indicate the study's design with a commonly used term in the title or the abstract         (b) Provide in the abstract an informative and balanced summary of what was done and what was found         Results- Participants         (a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study,	Manuscript         Title "Biological rhythms in COVID-19 vaccine effectiveness in an observational cohort study of 1.5 million patients."         Abstract consistent with STROBE guidelines.         Fig 1A provides a flow diagram of this information.
completing follow-up, and analysed. (b) Give reasons for non-participation at each stage (c) Consider use of a flow diagram. <b>Results- Descriptive Data</b>	
<ul> <li>(a) Give characteristics of study participants</li> <li>(eg demographic, clinical, social) and</li> <li>information on exposures and potential</li> <li>confounders</li> <li>(b) Indicate number of participants with</li> <li>missing data for each variable of interest</li> <li>(c) Summarise follow-up time (eg, average</li> <li>and total amount)</li> </ul>	<b>Table 1</b> provides this information. There is no missing data for the variables of interest.
Results- Outcome Data	
Report numbers of outcome events or summary measures over time. Results- Main Results	These data are contained in the main text, Fig. 2, and Supplemental Figs. 1-4.
<ul> <li>(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included.</li> <li>(b) Report category boundaries when continuous variables were categorized</li> <li>(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period.</li> </ul>	These data can be found in the main text, <b>Figs. 1-4</b> , and <b>Supplemental Tables 7-9</b> .

Results- Other Analyses		
Report other analyses done—eg analyses of	These can be found in Figs. 3, 4, and	
subgroups and interactions, and	Supplemental Figures 6 and 7;	
sensitivity analyses	Supplemental Tables 3-5, and 11-19.	
Discussion- Key Results		
Summarise key results with reference to	Included in the Discussion section.	
study objectives		
Discussion- Limitations		
Discuss limitations of the study, taking into	Included in the Discussion section.	
account sources of potential bias or		
imprecision. Discuss both direction and		
magnitude of any potential bias		
Discussion-Interpretation		
Give a cautious overall interpretation of	Included in the Discussion section.	
results considering objectives, limitations,		
multiplicity of analyses, results from similar		
studies, and other relevant evidence		
Discussion- Generalizability		
Discuss the generalisability (external validity)	Included in the Discussion section.	
of the study results		
Other Information		
Give the source of funding and the role of the	Included in the Funding section at the end of	
funders for the present study and, if	the document.	
applicable, for the original study on which the		
present article is based		