

# **Real-world COVID-19 vaccine effectiveness against the Omicron BA.2 variant in a SARS-CoV-2 infection-naïve population**

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**Supplementary Table 1. Parameters subject to statistical inference.**

<b>Parameters</b>	<b>Description</b>
$VE_{v,j}(0)$ for $v \in \{B, C\}, j \in \{2, 3, 4\}$	Initial vaccine effectiveness conferred by each successive dose of vaccine
$\lambda_v$ for $v = \{B, C\}$	Waning rate of VE
$\gamma$	The scaling factor that related FOI to sewage viral load
$f(10), f(18), f(50)$ and $f(65)$	The effect of age on FOI for age 10, 18, 50 and 65 years
$q_{sens,v}$ and $q_{spec,v}$ for $v \in \{U, B, C\}$	Sensitivity and specificity of serological assays for detecting recent Omicron infection among unvaccinated individuals ( $U$ ) and those vaccinated with BNT162b2 ( $B$ ) or Coronavac ( $C$ )