

## Iran COVID-19 epidemic models situation report No 52 – 2022-04-08

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### Combine and visualize international periodically updated estimates of COVID-19 pandemic at the country level, countries without subnational level estimates Iran

Based on uptake 20220408 in <https://github.com/pourmalek/covir2>

Study update dates in uptake 20220408:

**DELP 20220408**, IHME 20220322, **IMPE 20220131**, **SRIV 20220408**

Days old: DELP 0, IHME 18, IMPE 68, SRIV 0

#### Summary 20220408:



Daily official reported cases have already bounced up since late March 2022.<sup>1</sup>

Daily official reported deaths are starting to bounce up as of end of March 2022.<sup>2</sup>

The latest available predictions update of the IHME model is *18 days old*, and that of the IMPE model is *68 days old*. An example among the assumptions used by models is the assumption by IHME that percent of population using masks will continue onwards on a horizontal line with constant value equal to its value in early March 2022<sup>3</sup>. **This assumption simply does not hold true.**

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<sup>1</sup> See "graph (00) Iran Daily reported cases, JOHN, all times" below.

<sup>2</sup> See "graph (0) Iran Daily reported deaths, JOHN, all times" below.

<sup>3</sup> See "graph (16) Iran Daily mask use, 2 scenarios, all time, IHME" below.

**Strengths and weakness** of the international and periodically update COVID-19 pandemic models are discussed [here](#).

The New Year ceremonies and travels increase number of contacts and probability of transmission and spread the virus across the country. These factors are not fully included in the models. As such, **a new surge is folding out in Iran in April 2022**.

Considerable proportions of the COVID-19 cases and deaths that will occur in the new-coming **7th wave** can be **prevented** by Non-Pharmaceutical Interventions (NPIs) and vaccination.

Premature release of mandates for using masks and physical distancing serves the political and economic purposes of the governments, not the public health and survival needs of the populations.

People will die. **Do something now**, Ministry of Health and Medical Education.

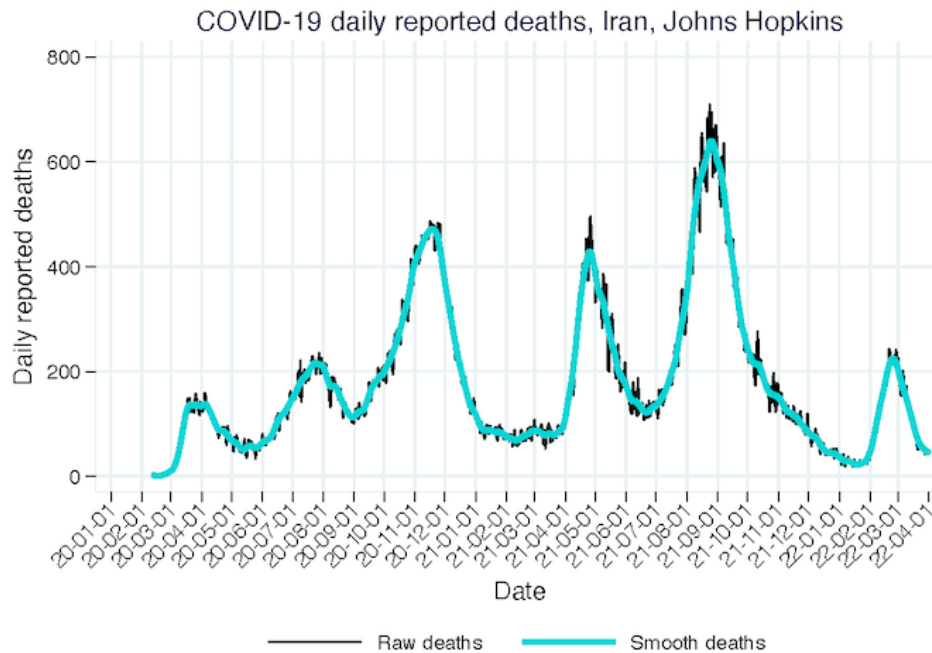
**If a new variant with more separability and fatality occurs, the 8th wave might cause one of the highest or the highest daily deaths, in summer 2022 (solar Hijri year 1401).**

#### **Names of models/studies in Farsi:**

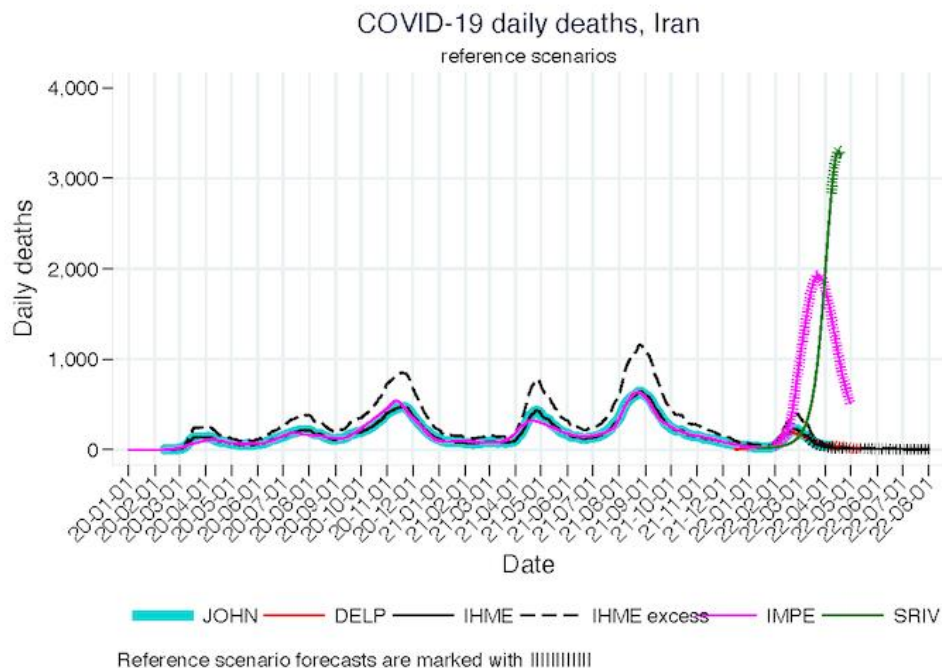
- (DELP) مطالعه دلفی، انستیتوی فناوری ماساچوست کمبریج (منحنی قرمز رنگ)
- (IHME) مطالعه موسسه آی اچ ام ای، دانشگاه واشنگتن سیاتل (منحنی سیاه رنگ)
- (IMPE) مطالعه ایمپریال کالج لندن (منحنی صورتی رنگ)
- (SRIV) مطالعه اسرئواستوا در دانشگاه کالیفرنیا جنوبی (منحنی سبز رنگ)
- (JOHN) دانشگاه جانز هاپکینز، انعکاس گزارش های رسمی کشور ها به سازمان جهانی بهداشت (منحنی آبی رنگ)

## Selected graphs

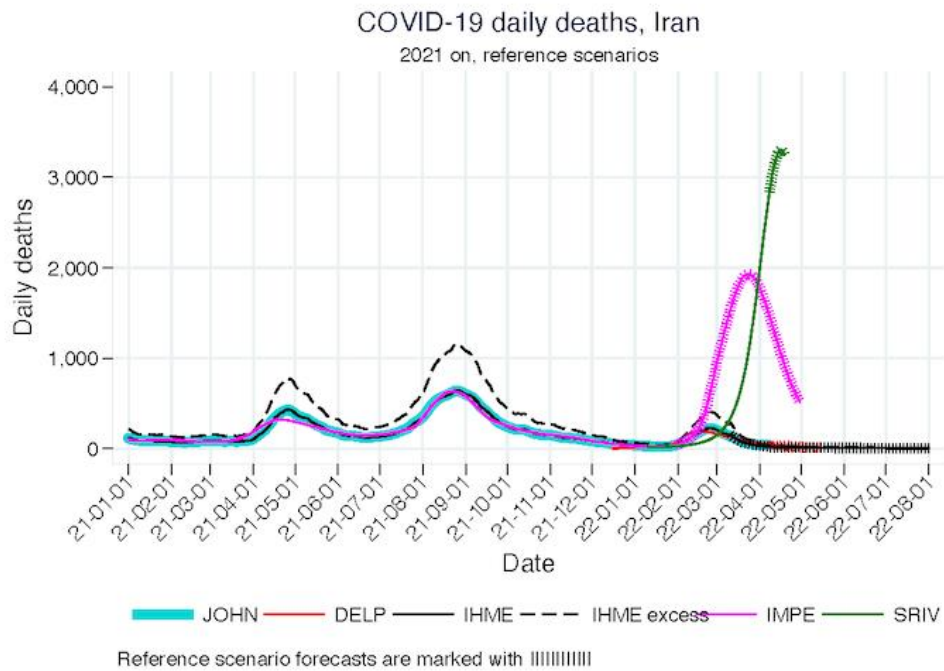
(0) Iran [Daily reported deaths, JOHN, all times](#)



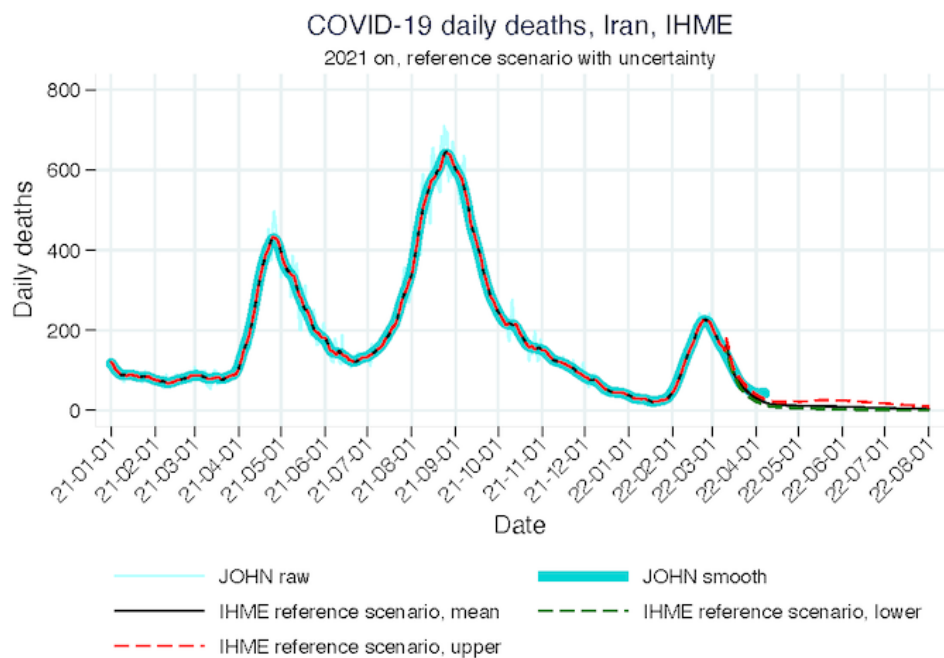
(1) Iran [Daily deaths, all time](#)



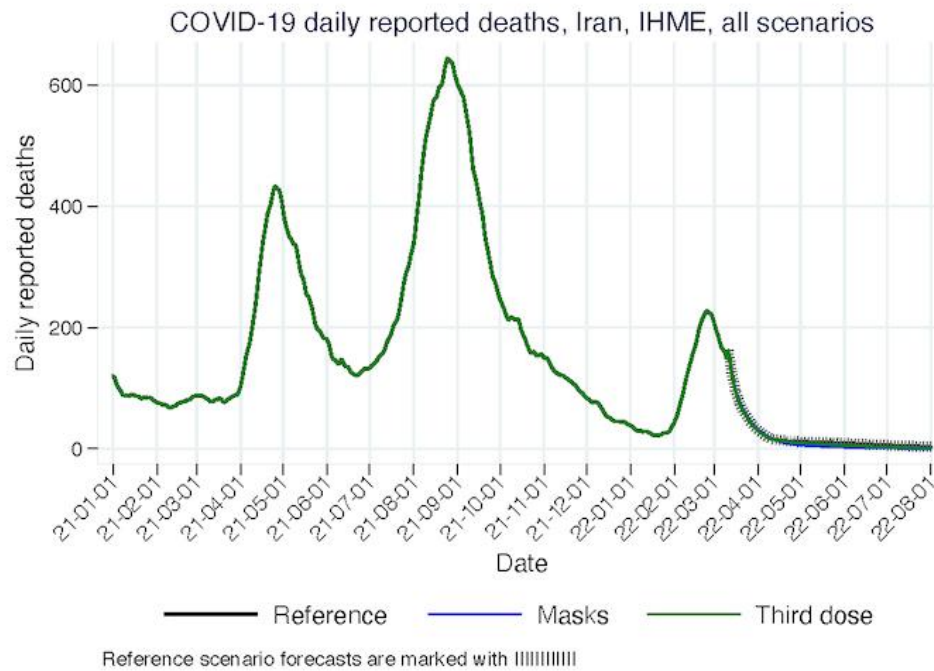
(2) Iran [Daily deaths, 2021 on](#)



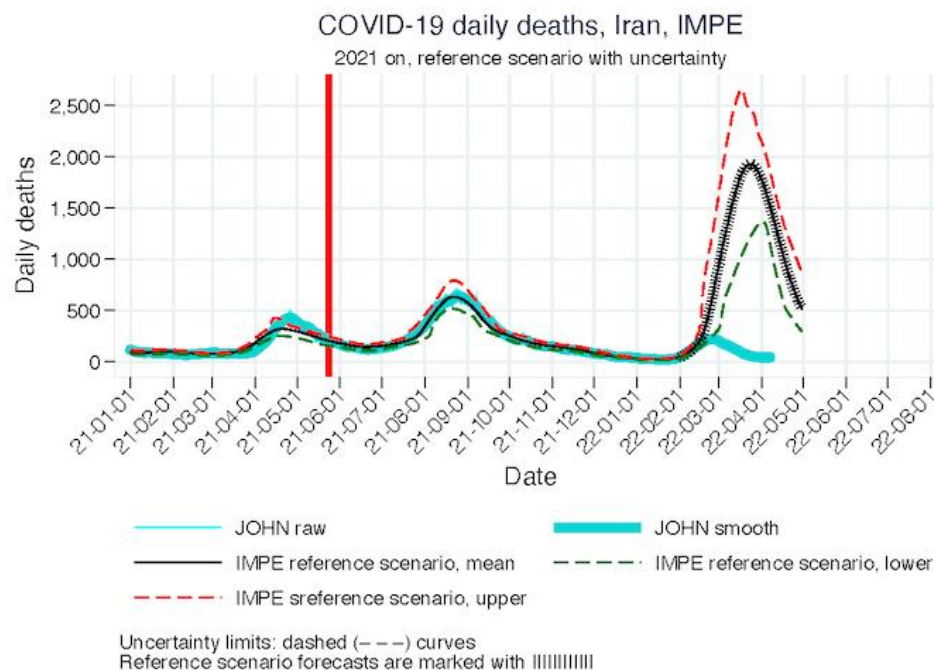
(3) Iran [Daily deaths, 2021 on, reference scenario with uncertainty, IHME](#)



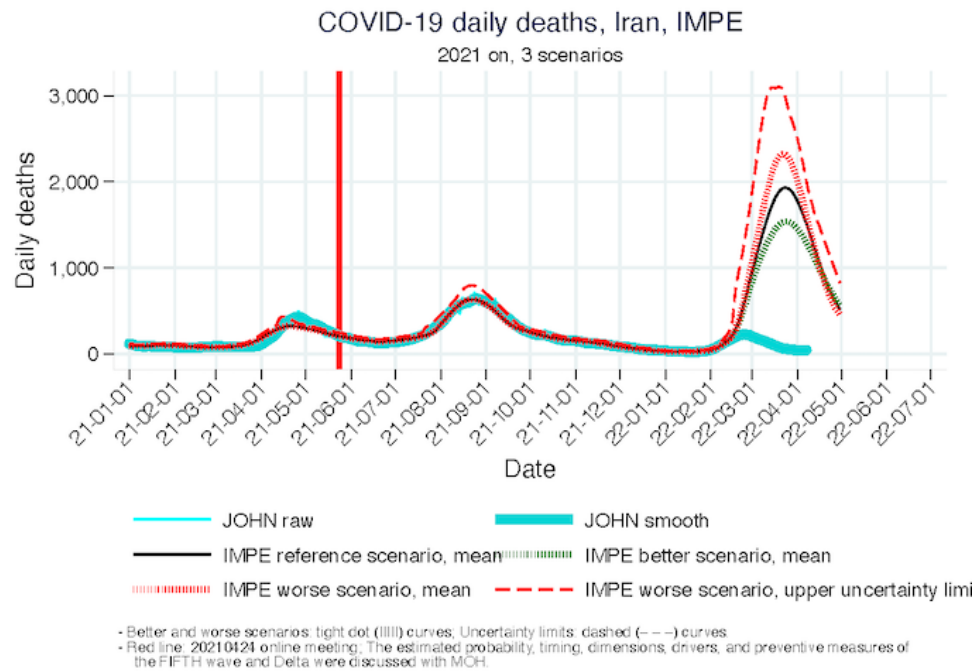
(4) Iran [Daily deaths, 2021 on, all scenarios, IHME](#)



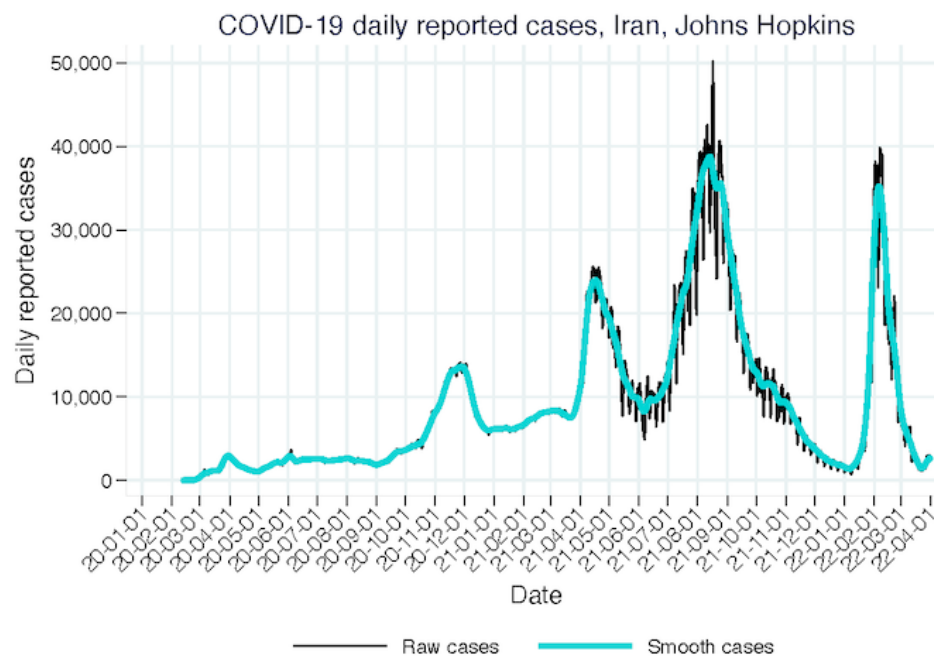
(5) Iran [Daily deaths, 2021 on, reference scenario with uncertainty, IMPE](#)



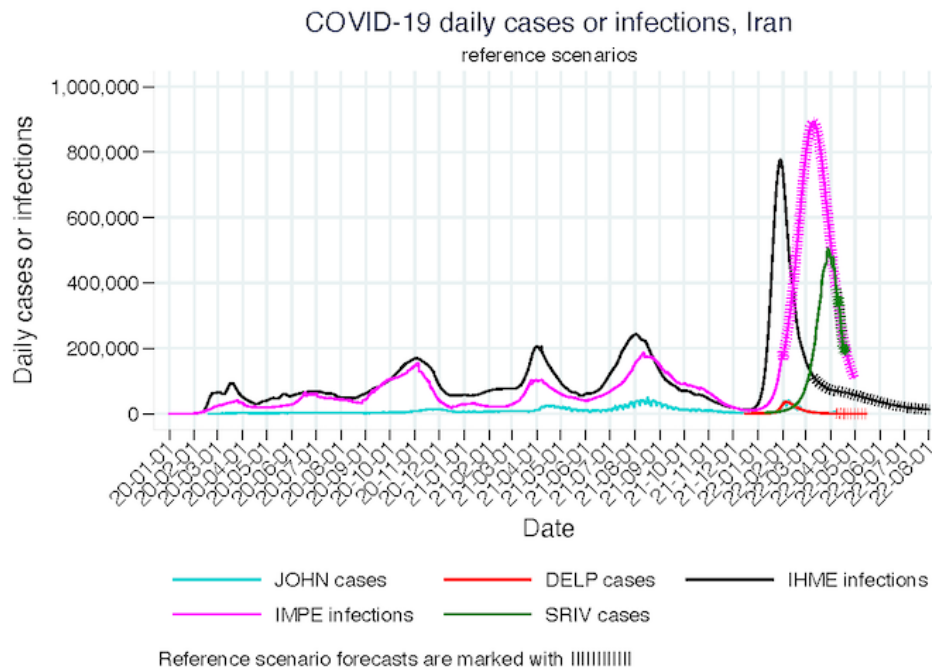
(6) Iran [Daily deaths, 2021 on, 3 scenarios, IMPE](#)



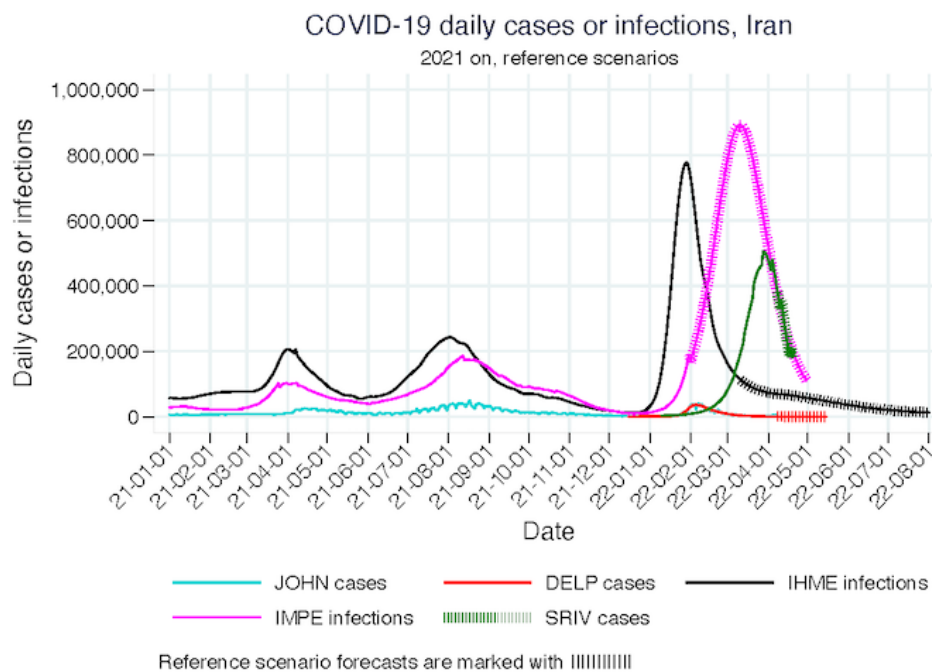
(00) Iran [Daily reported cases, JOHN, all times](#)



(7) Iran [Daily cases or infections, all time](#)

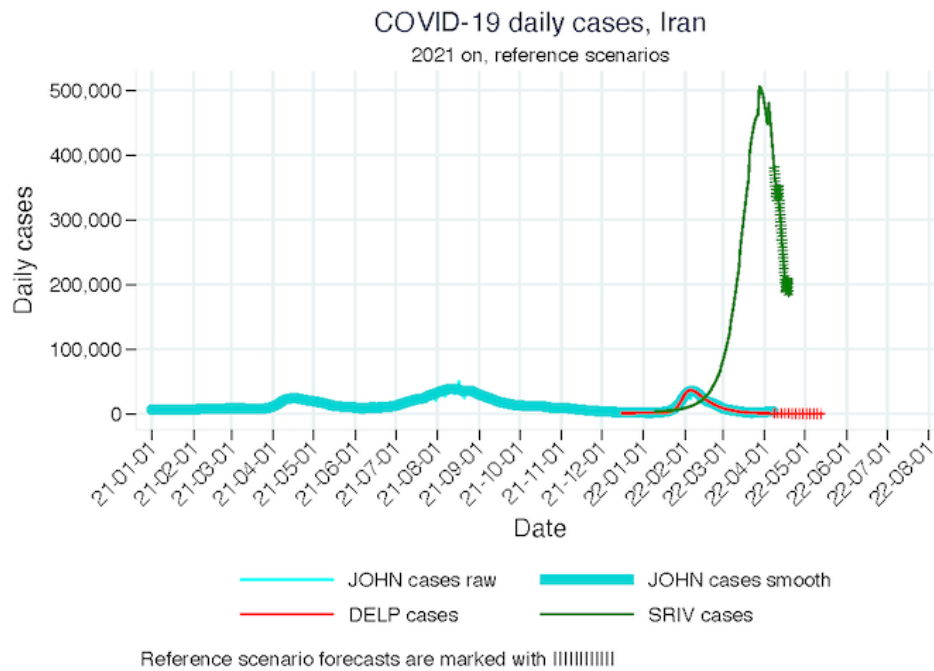


(8) Iran [Daily cases or infections, 2021 on](#)

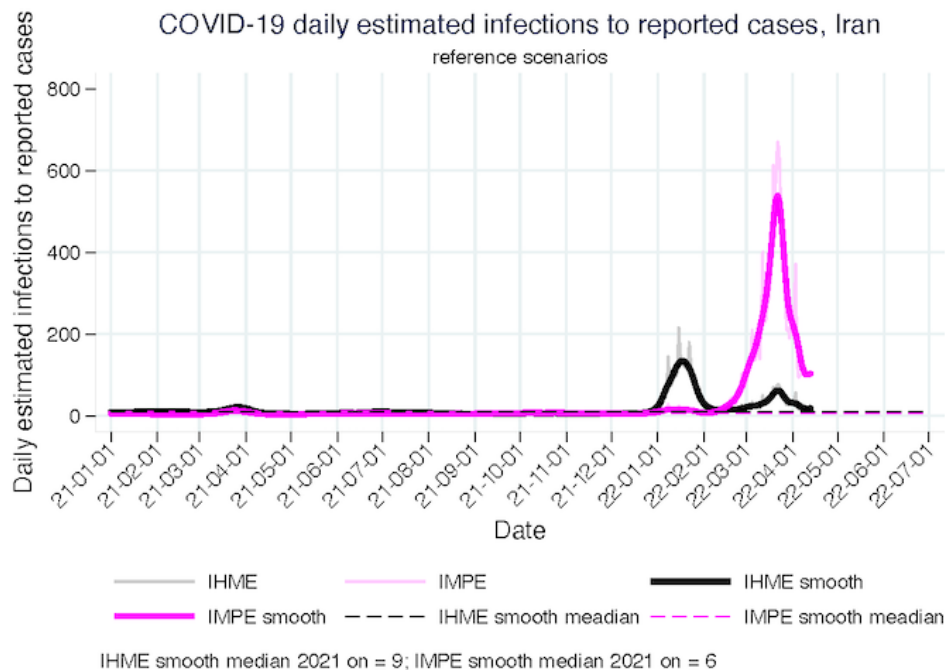




(8b) Iran [Daily cases, 2021 on](#)

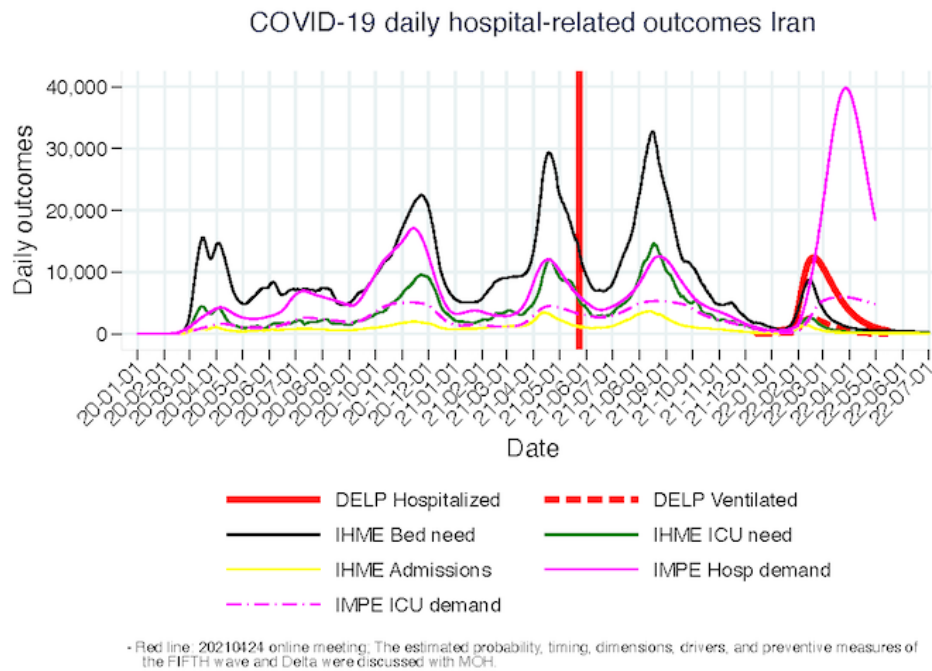


(8c) Iran [Daily estimated infections IHME, IMPE to reported cases JOHN, main scenarios, 2021 on](#)

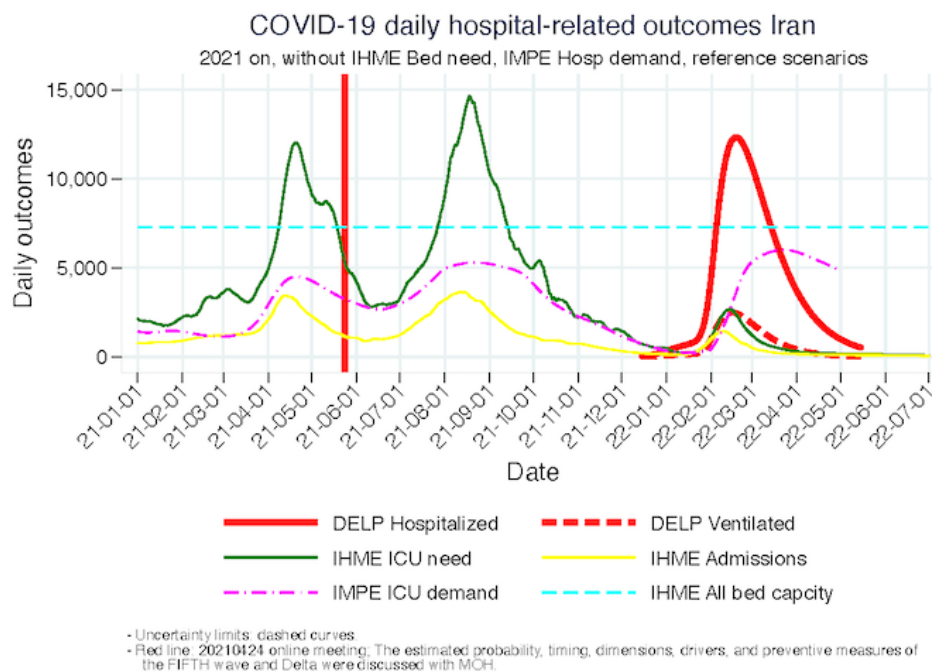




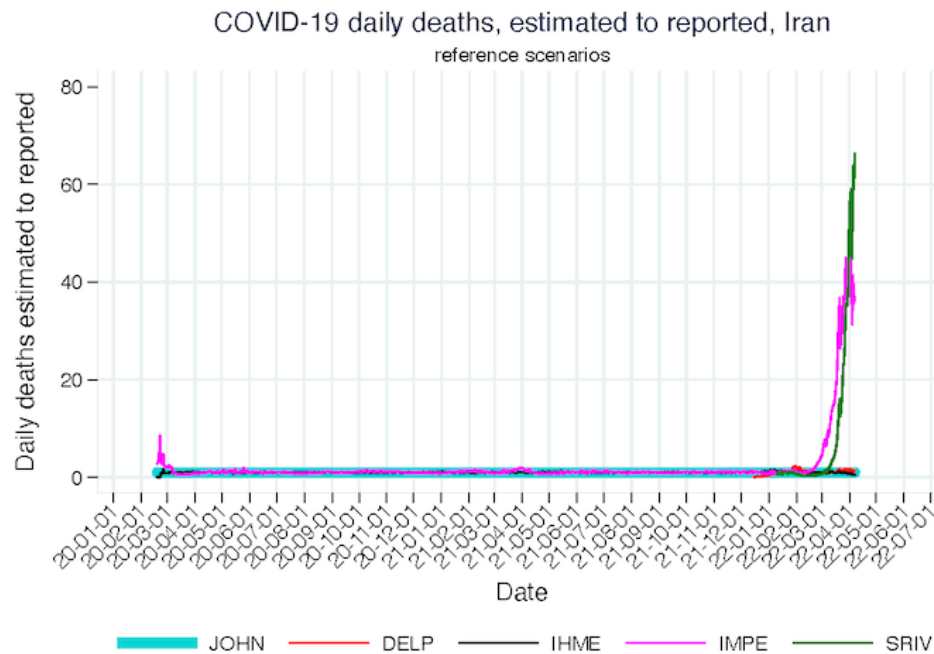
(9) Iran [Hospital-related outcomes, all time](#)



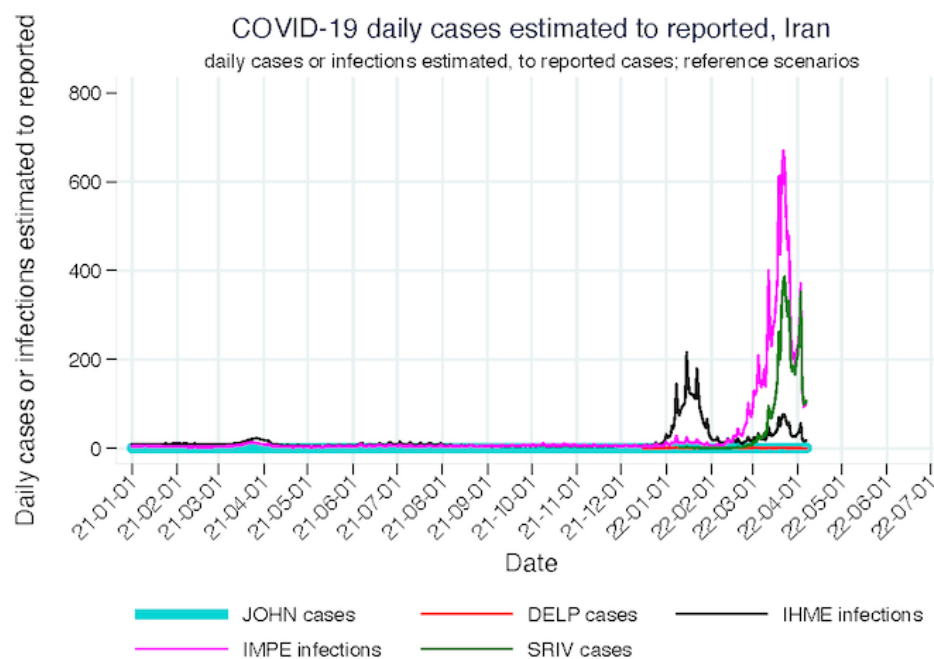
(10) Iran [Hospital-related outcomes, 2021 on](#)



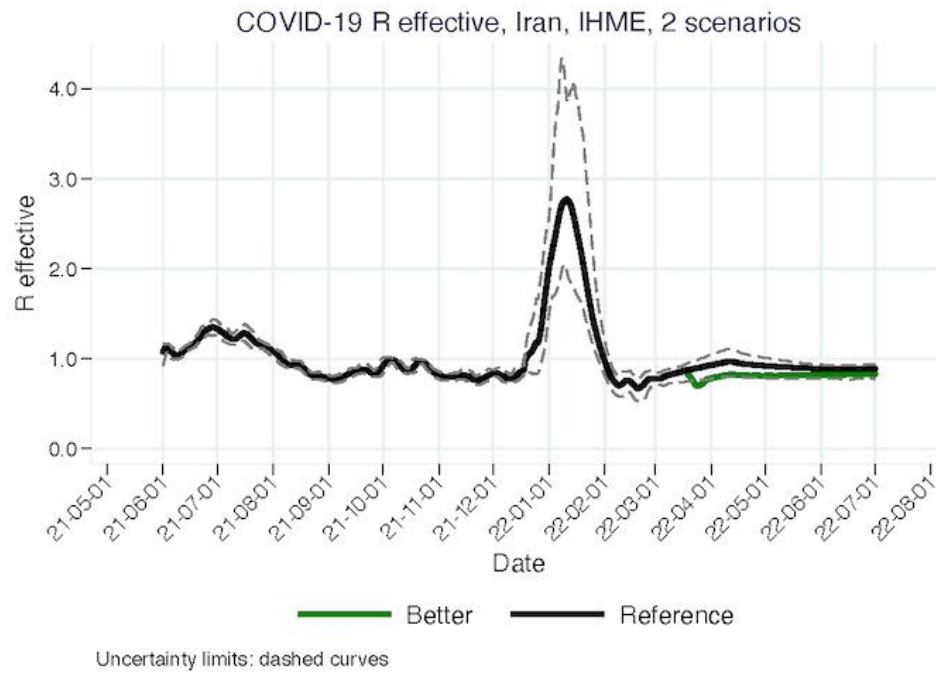
(11) Iran [Daily deaths estimated to reported, all time](#)



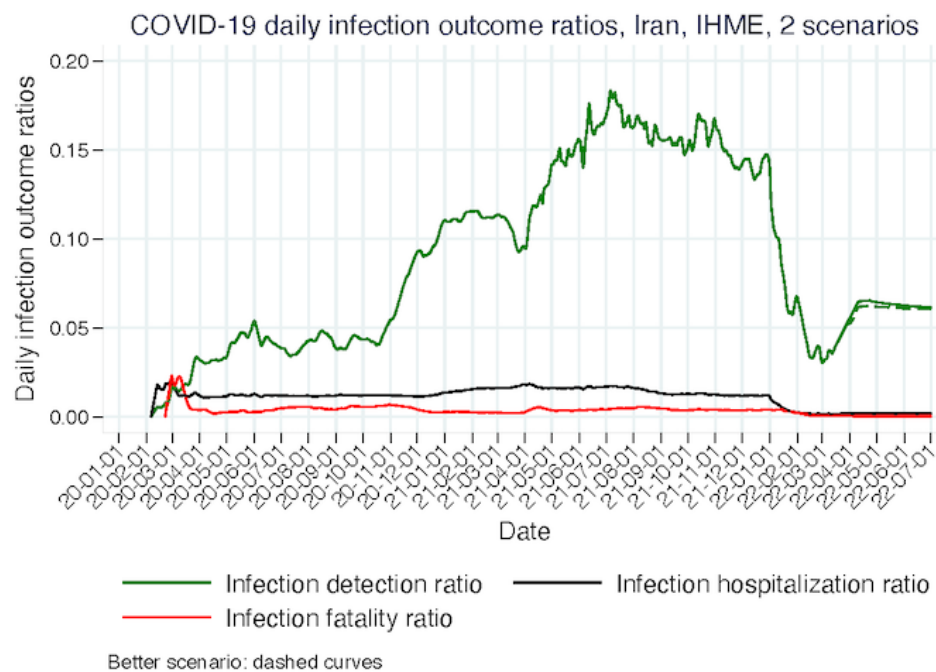
(12) Iran [Daily cases or infections estimated to reported cases, 2021 on](#)



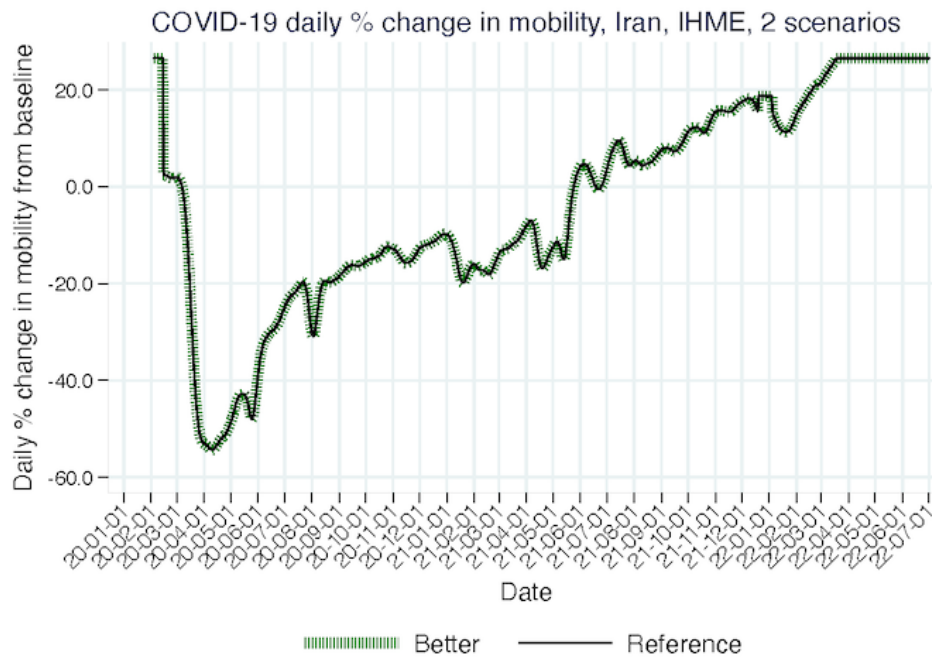
(13) Iran [R effective, 2 scenarios, 2021 on, IHME](#)



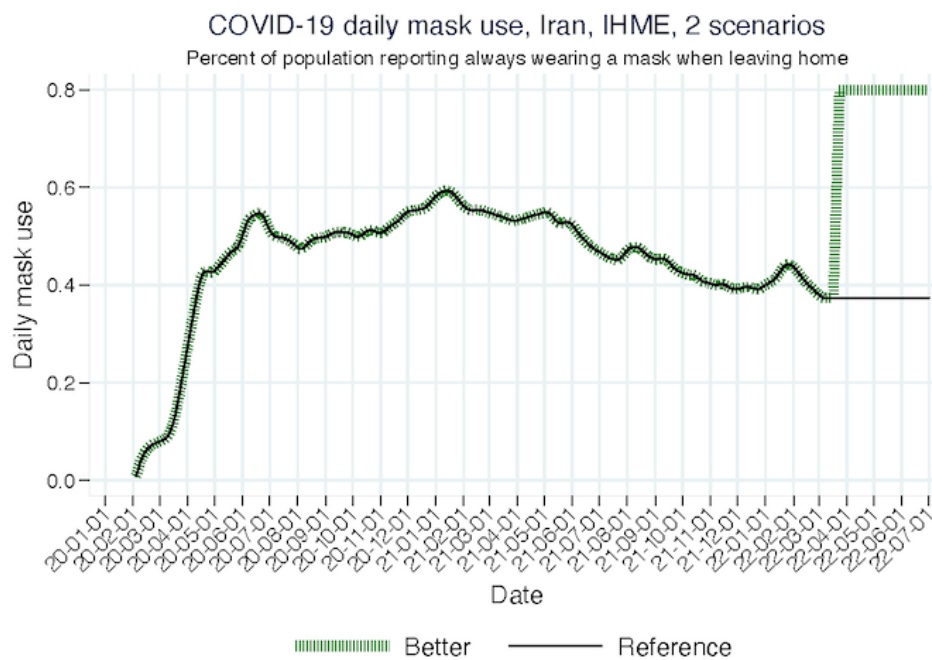
(14) Iran [Daily Infection-outcome ratios, 2 scenarios, 2021 on, IHME](#)



(15) Iran [Daily mobility, 2 scenarios, all time, IHME](#)



(16) Iran [Daily mask use, 2 scenarios, all time, IHME](#)



(17) Iran [Percent cumulative vaccinated, 2021 on, IHME](#)

