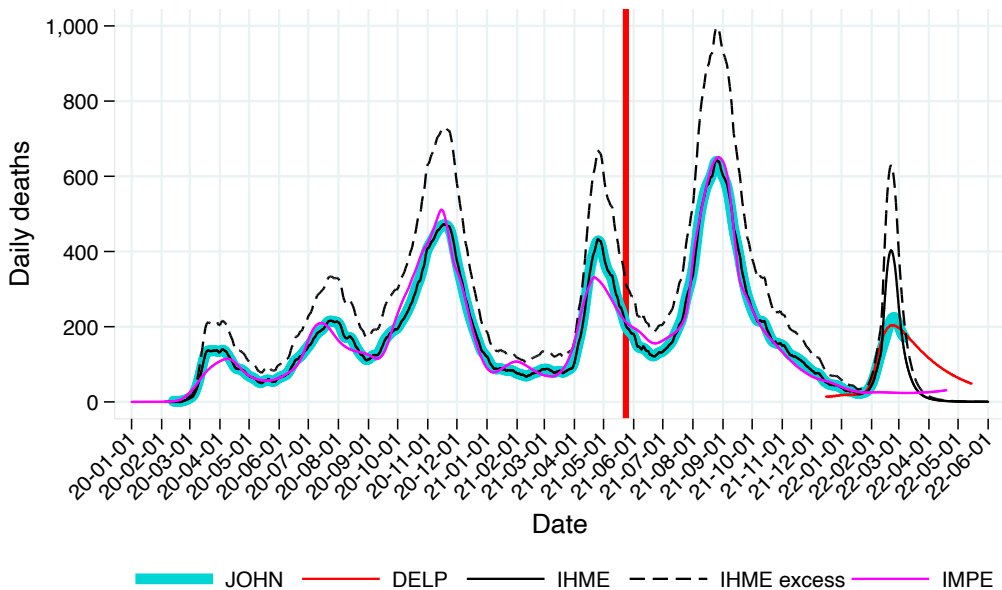


COVID-19 daily deaths, Iran

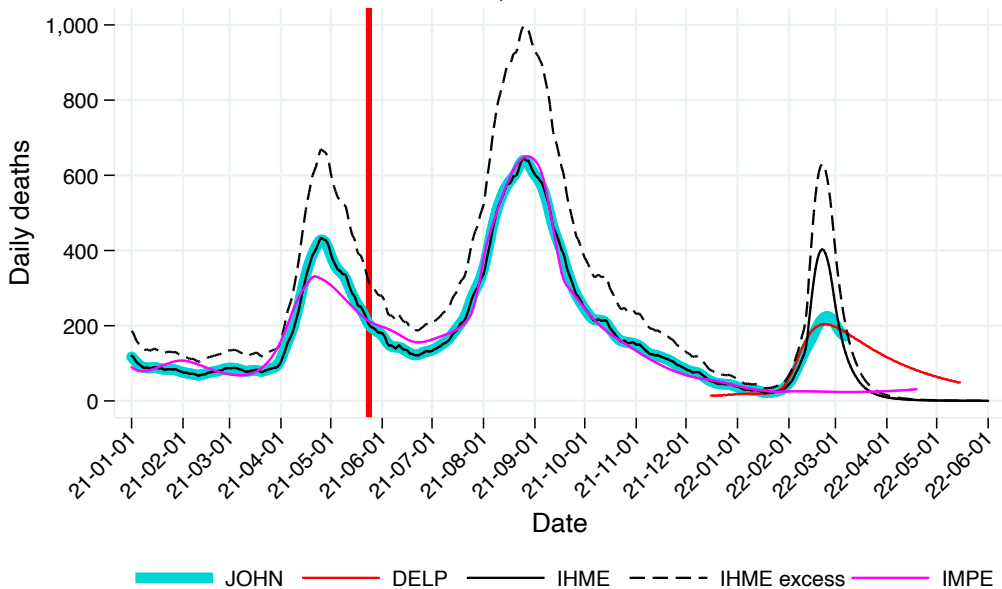
reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily deaths, Iran

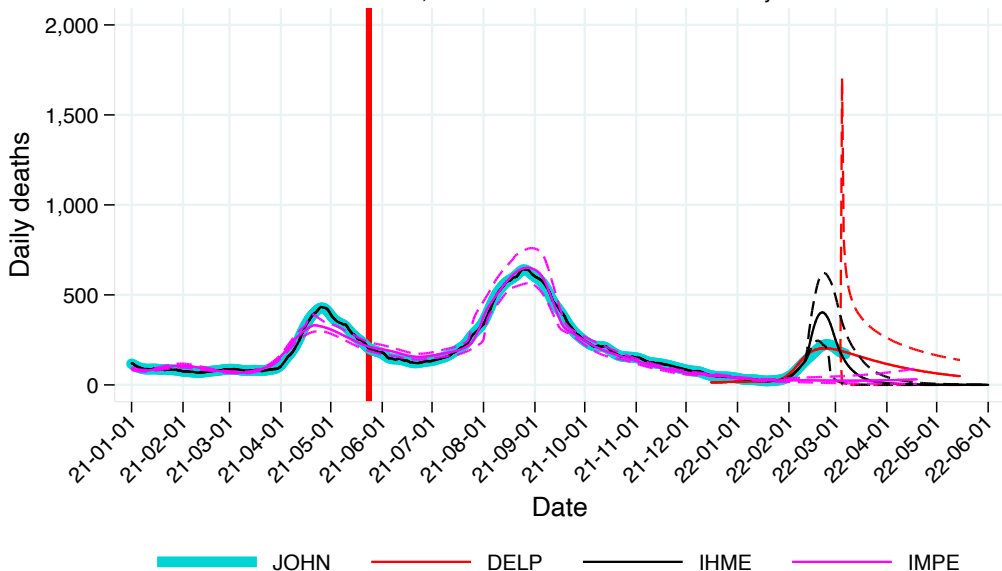
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily deaths, Iran

2021 on, reference scenarios with uncertainty

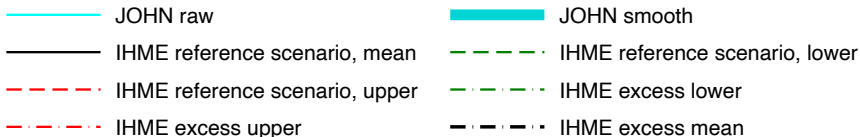
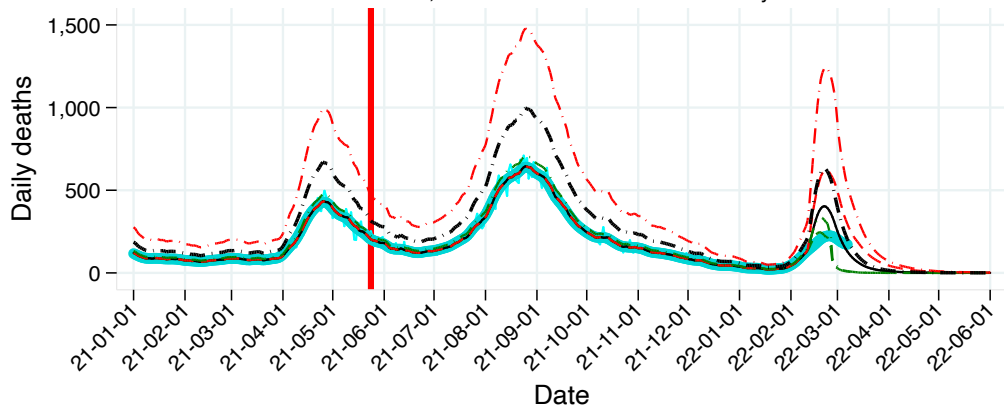


- Uncertainty limits: dashed curves

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily deaths, Iran, IHME

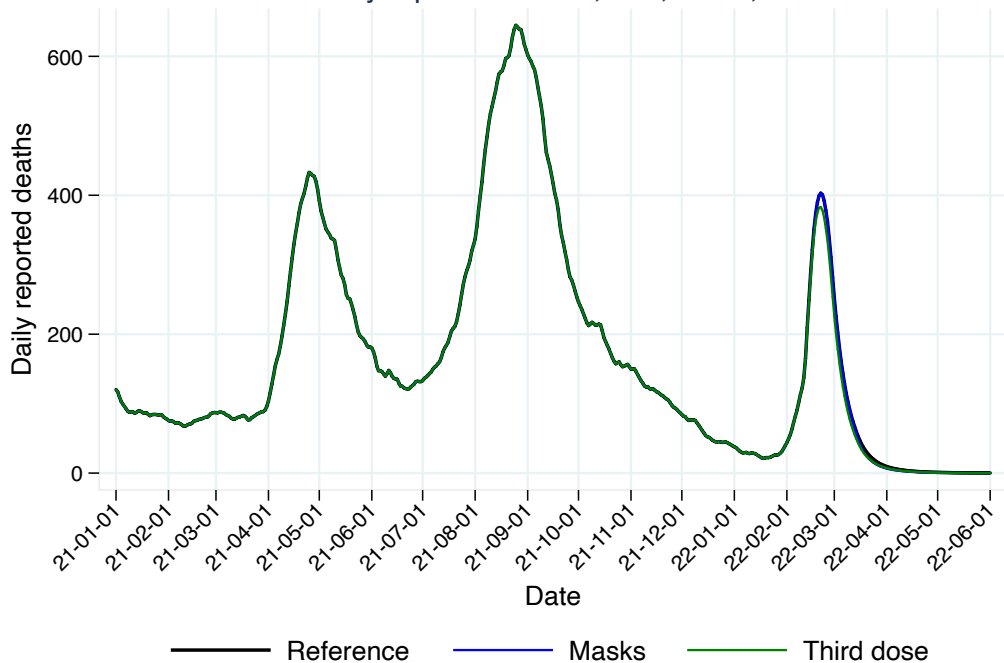
2021 on, reference scenario with uncertainty



- Uncertainty limits: dashed (---) curves

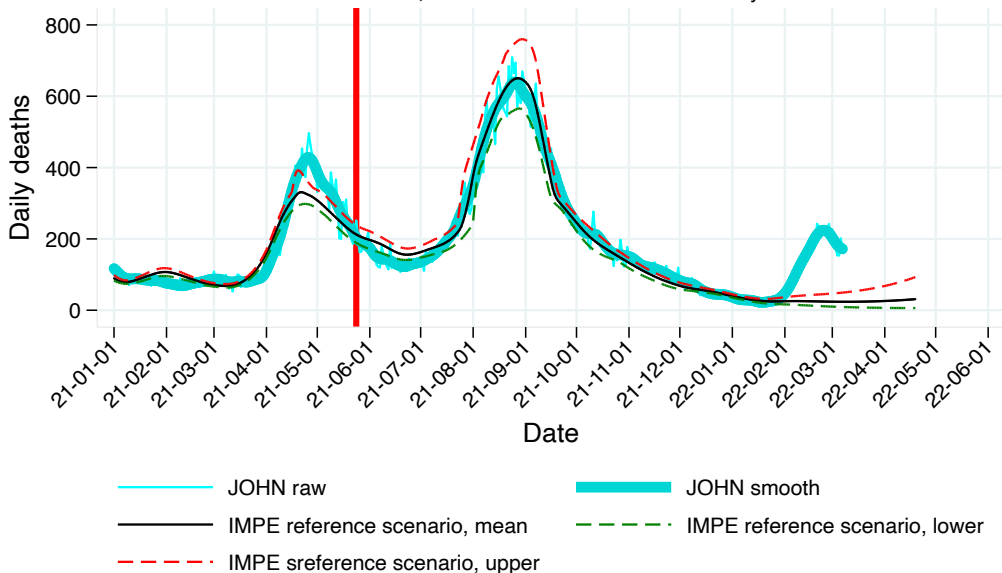
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily reported deaths, Iran, IHME, all scenarios



COVID-19 daily deaths, Iran, IMPE

2021 on, reference scenario with uncertainty

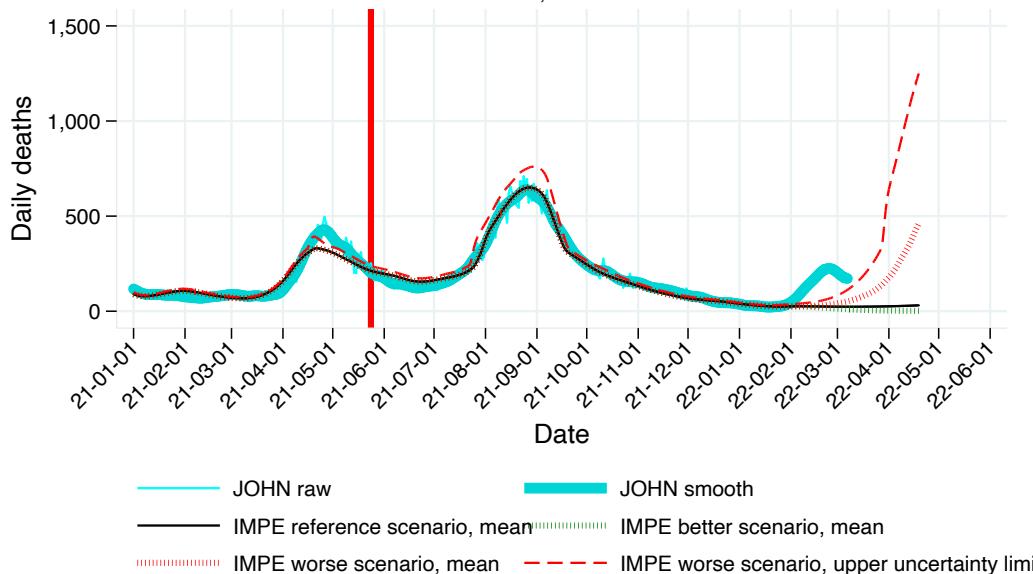


- Uncertainty limits: dashed (---) curves.

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily deaths, Iran, IMPE

2021 on, 3 scenarios

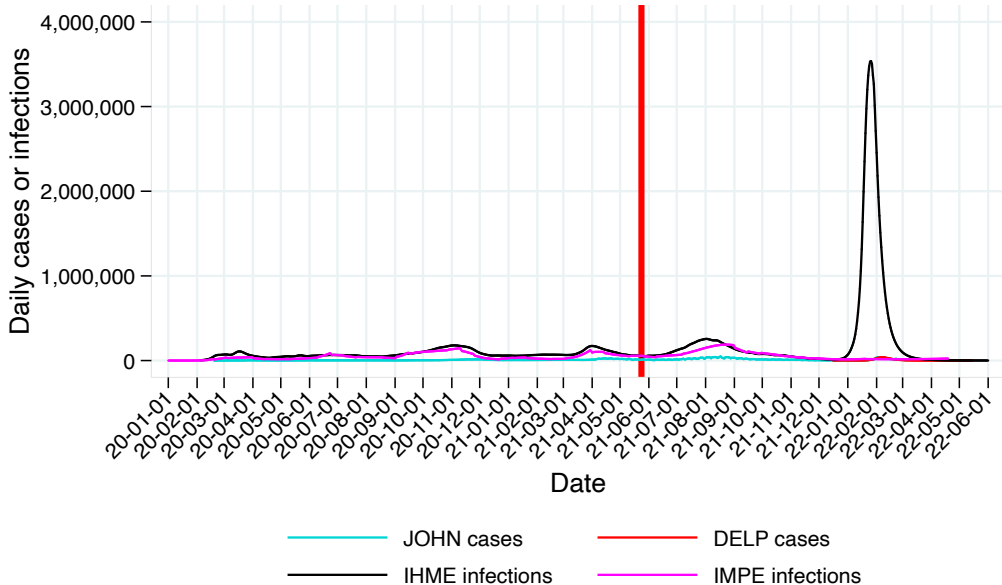


- Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves.

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases or infections, Iran

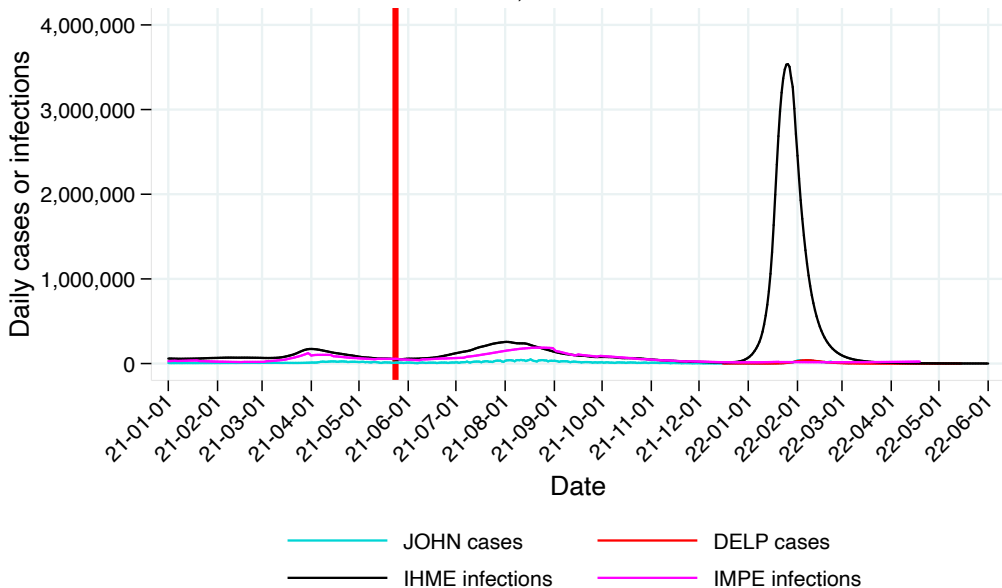
reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases or infections, Iran

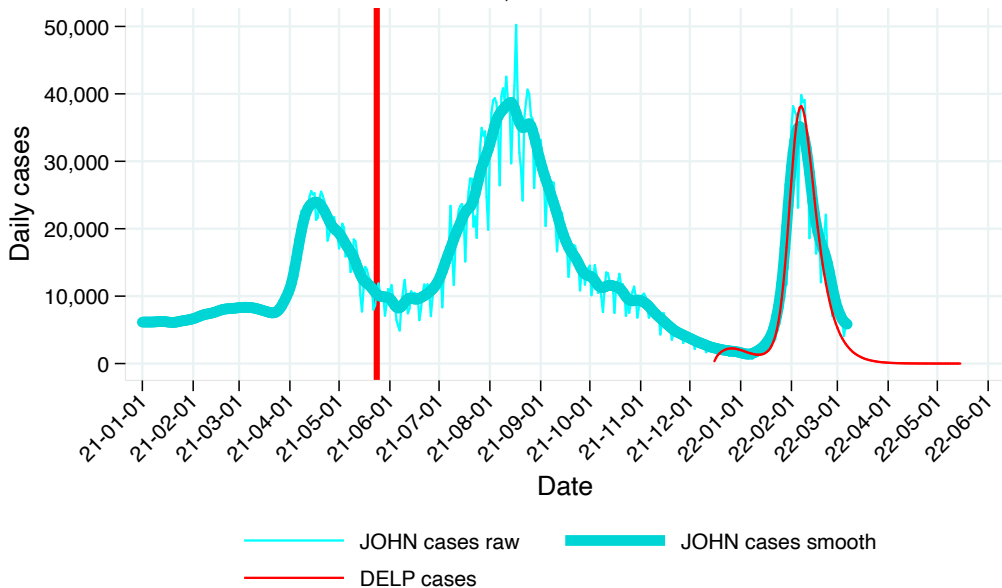
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases, Iran

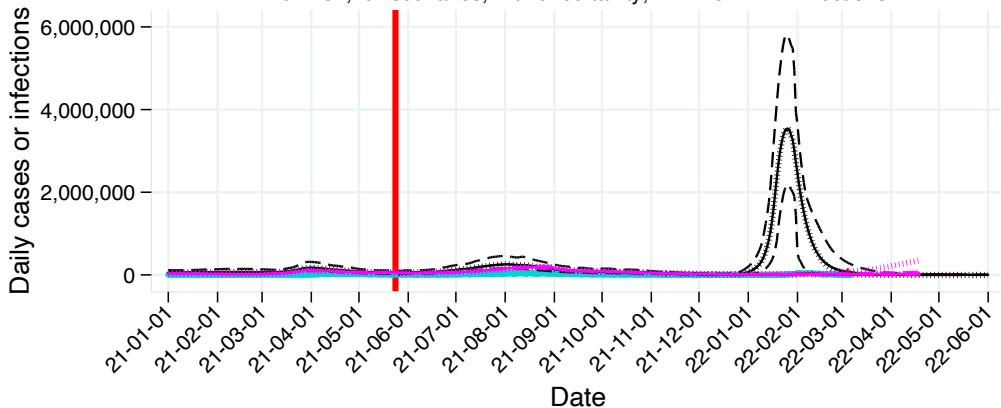
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases or infections, Iran

2021 on, full scenarios, with uncertainty; IHME & IMPE: infections



JOHN cases

IHME reference, mean

IHME better

IMPE ref, uncertainty

DELP cases

IHME ref, uncertainty

IMPE reference, mean

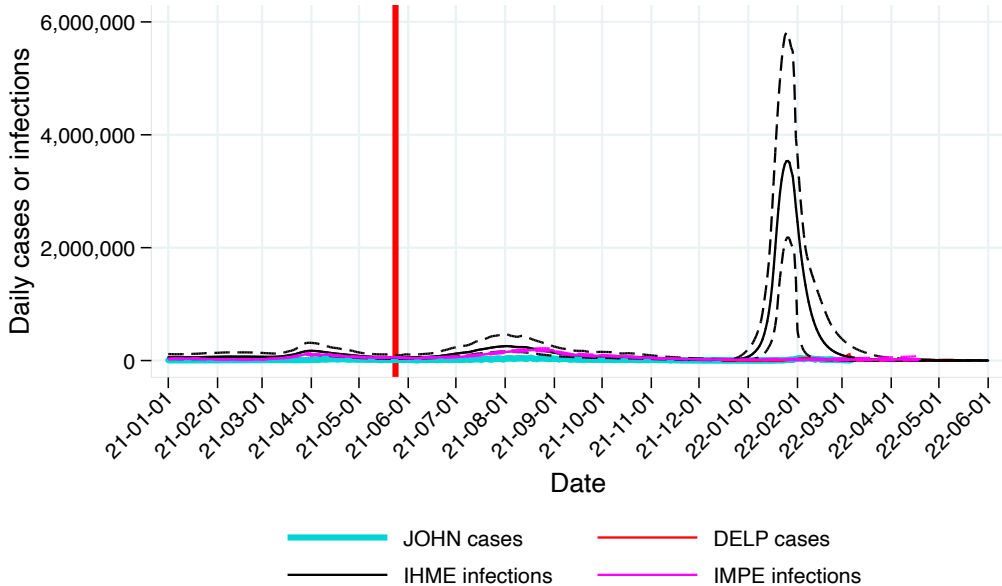
IMPE better and worse

- Uncertainty limits: dashed (---) curves; Better and worse scenarios: tight dot (|||||) curves.

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases or infections, Iran

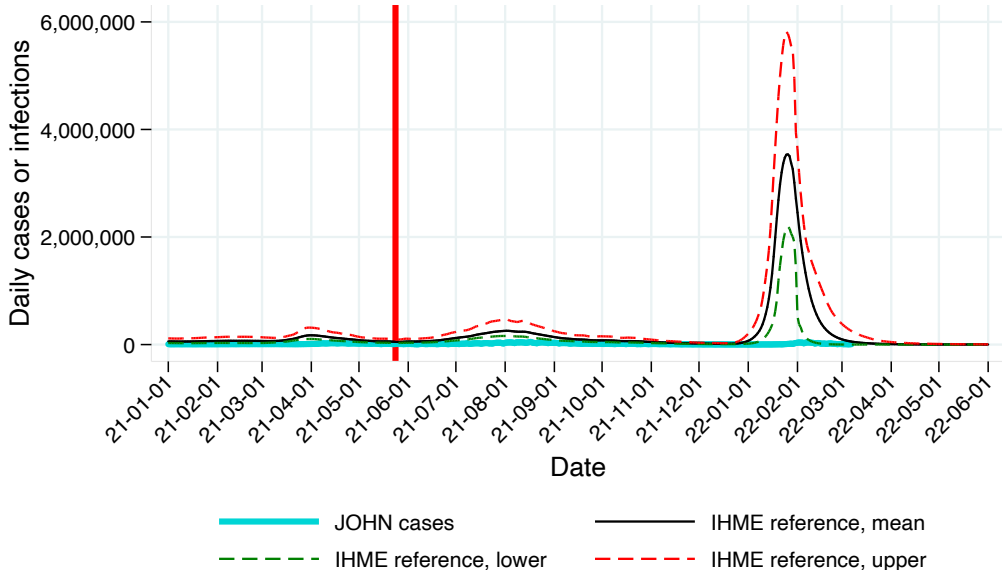
2021 on, reference scenarios with uncertainty



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases JOHN, and infections IHME, Iran

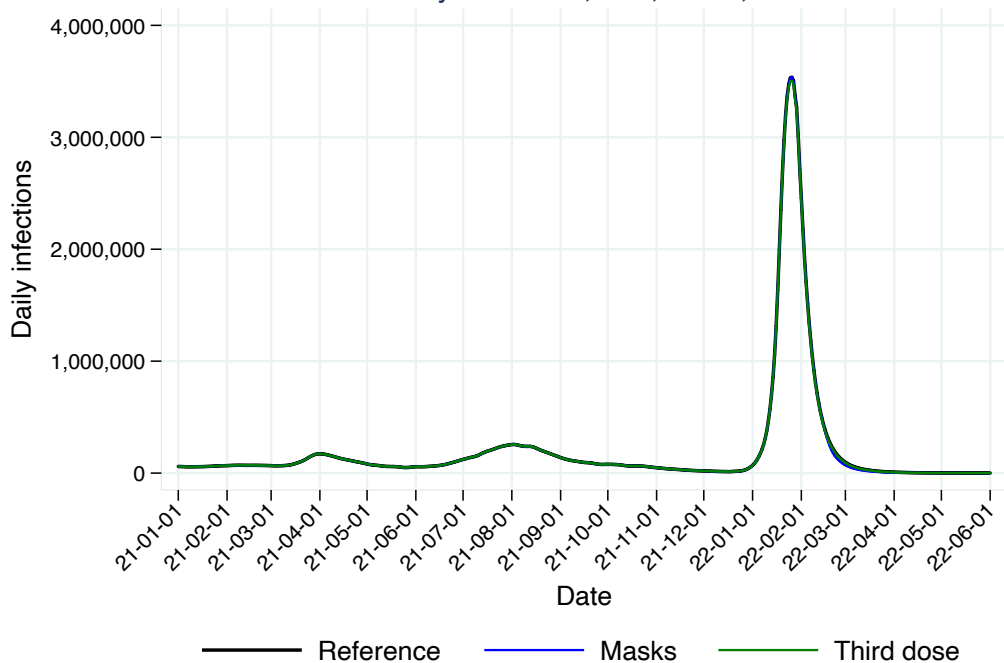
2021 on, IHME infections reference scenario with uncertainty



- Uncertainty limits: dashed (---) curves.

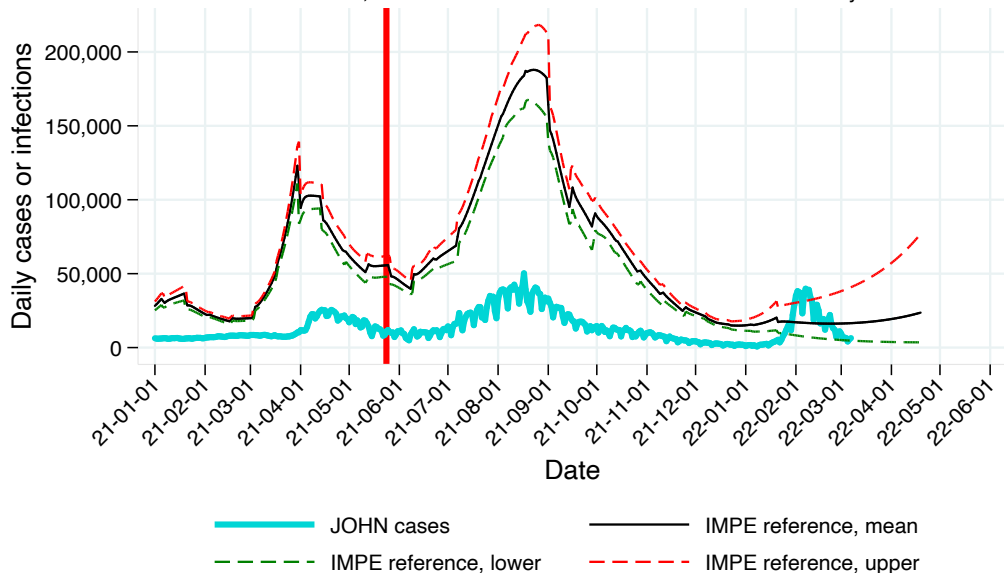
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily infections, Iran, IHME, all scenarios



COVID-19 daily cases JOHN, and infections IMPE, Iran

2021 on, IMPE infections reference scenario with uncertainty

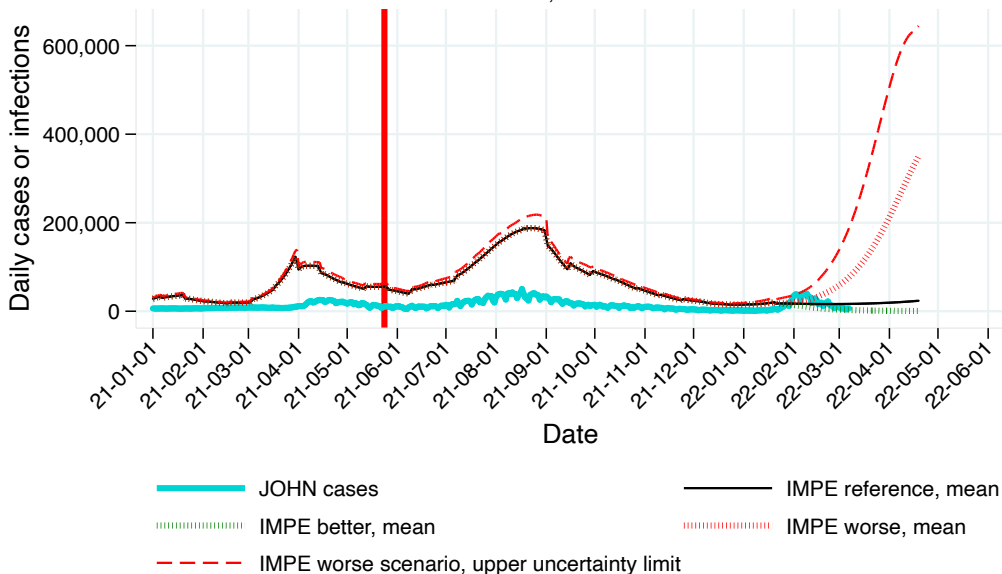


- Uncertainty limits: dashed (---) curves.

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily JOHN, and infections IMPE, Iran

2021 on, 2 scenarios

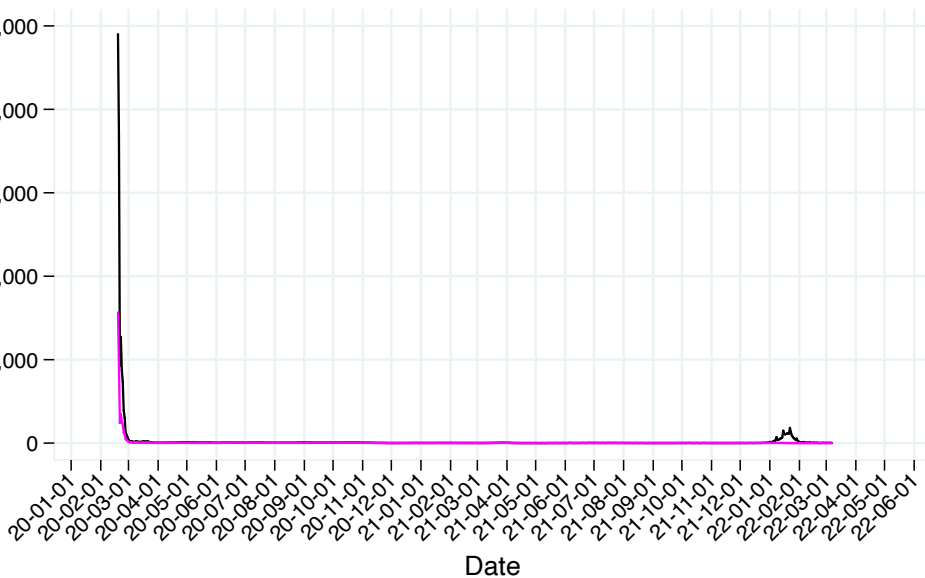


- Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves.
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

Daily estimated infections to reported cases



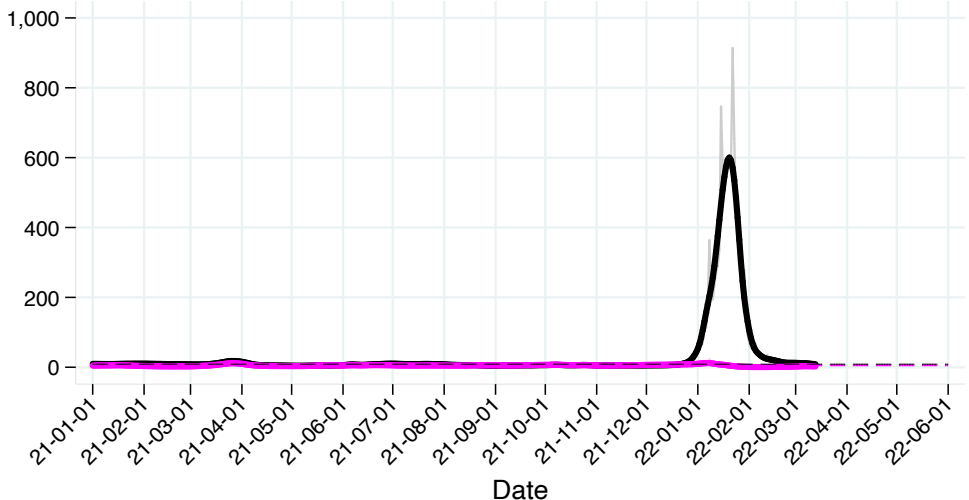
IHME

IMPE

COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

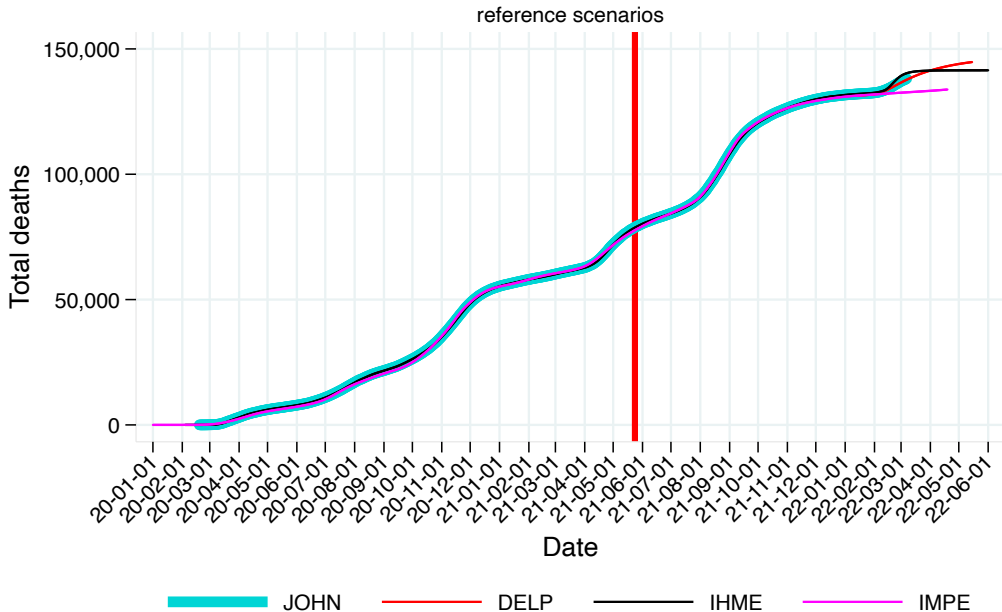
Daily estimated infections to reported cases



IHME IMPE IHME smooth IMPE smooth IHME smooth median IMPE smooth median

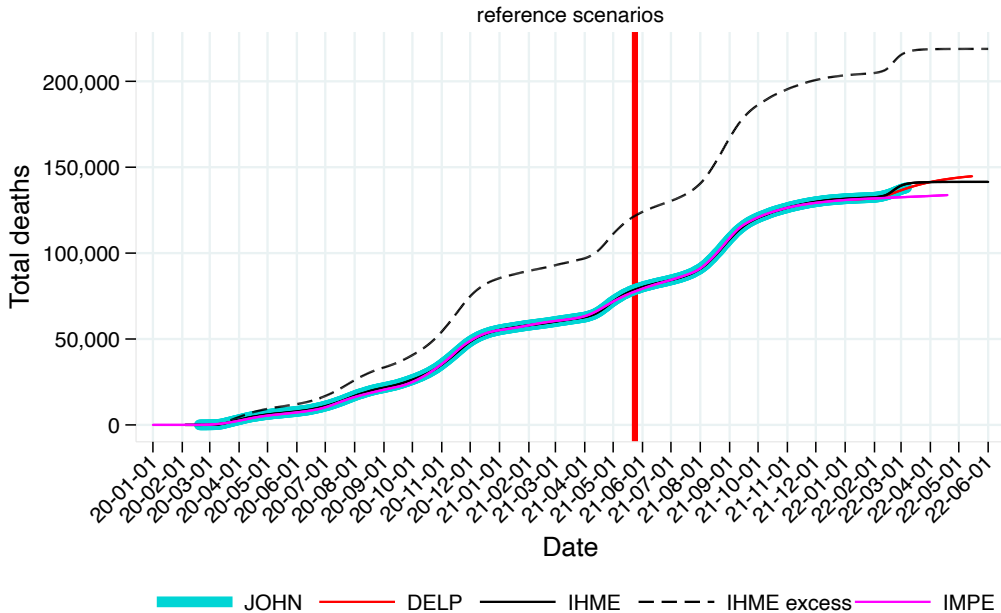
IHME smooth median 2021 on = 8; IMPE smooth median 2021 on = 5

COVID-19 total deaths, Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

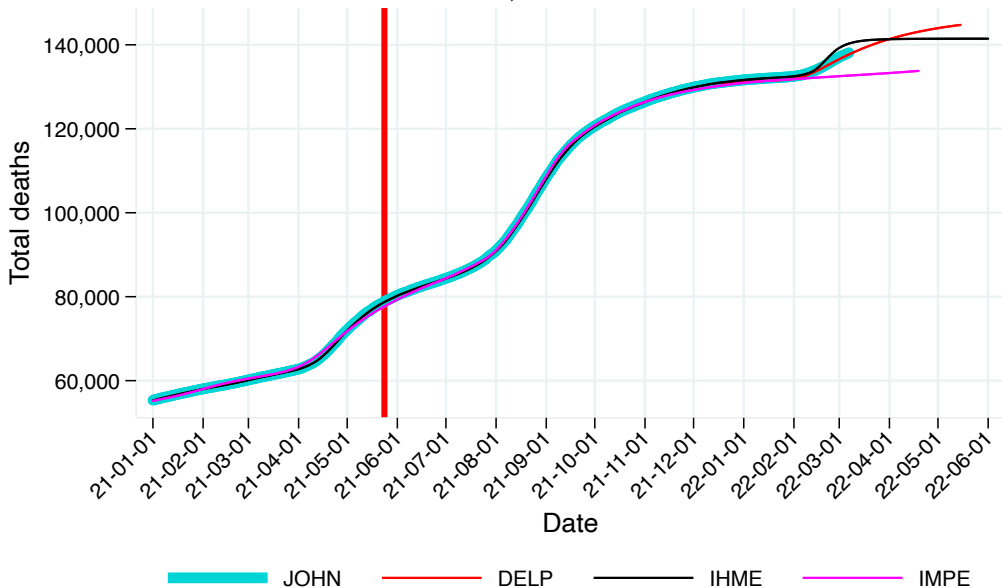
COVID-19 total deaths, Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 total deaths, Iran

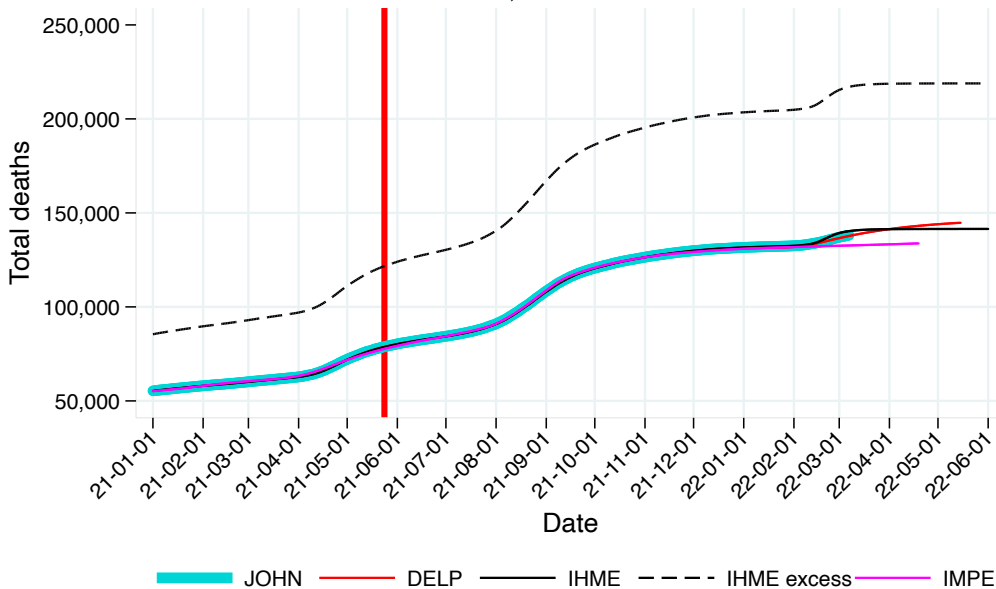
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 total deaths, Iran

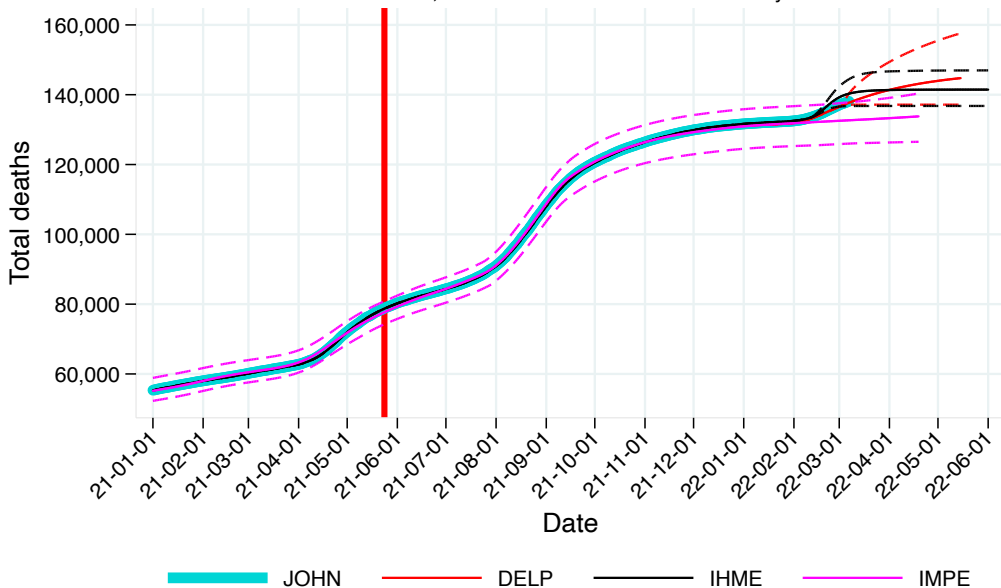
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

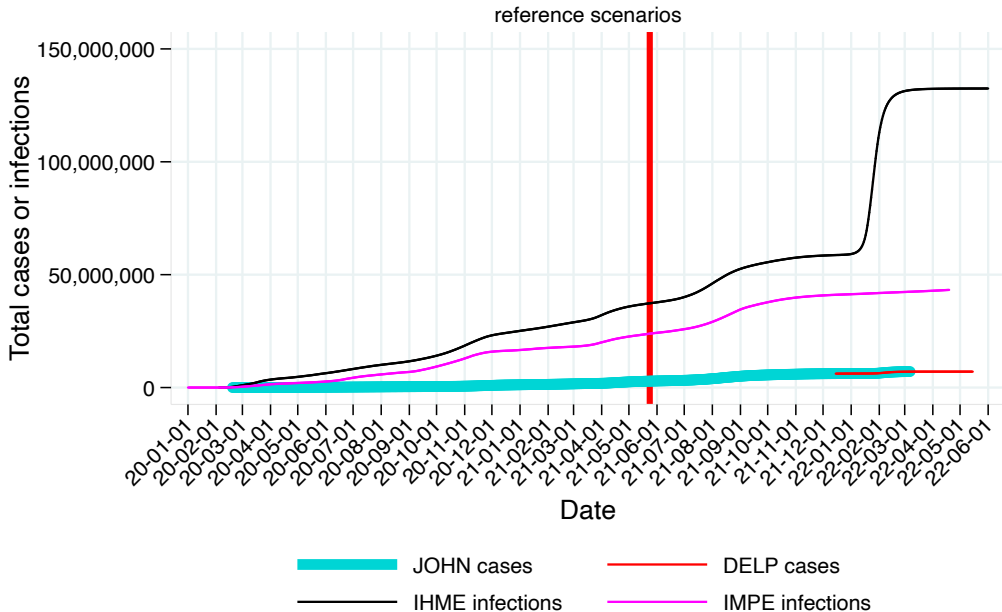
COVID-19 total deaths, Iran

2021 on, reference scenarios with uncertainty



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

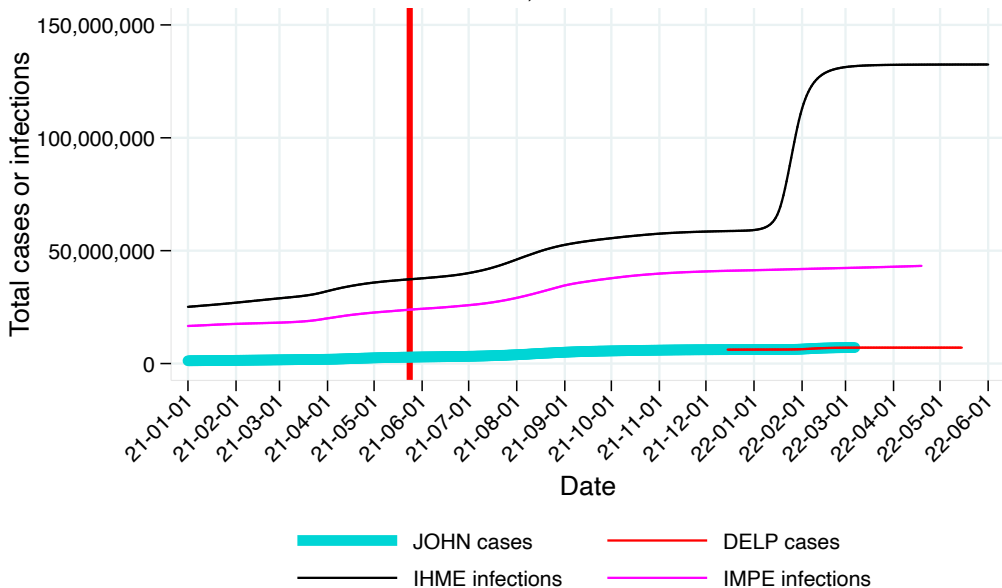
COVID-19 total cases or infections, Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 total cases or infections, Iran

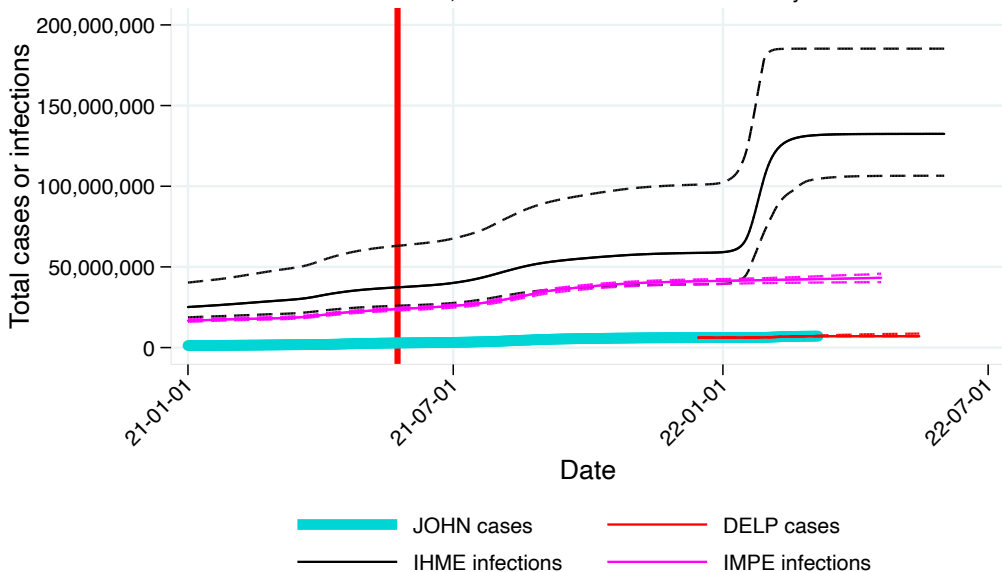
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 total cases or infections, Iran

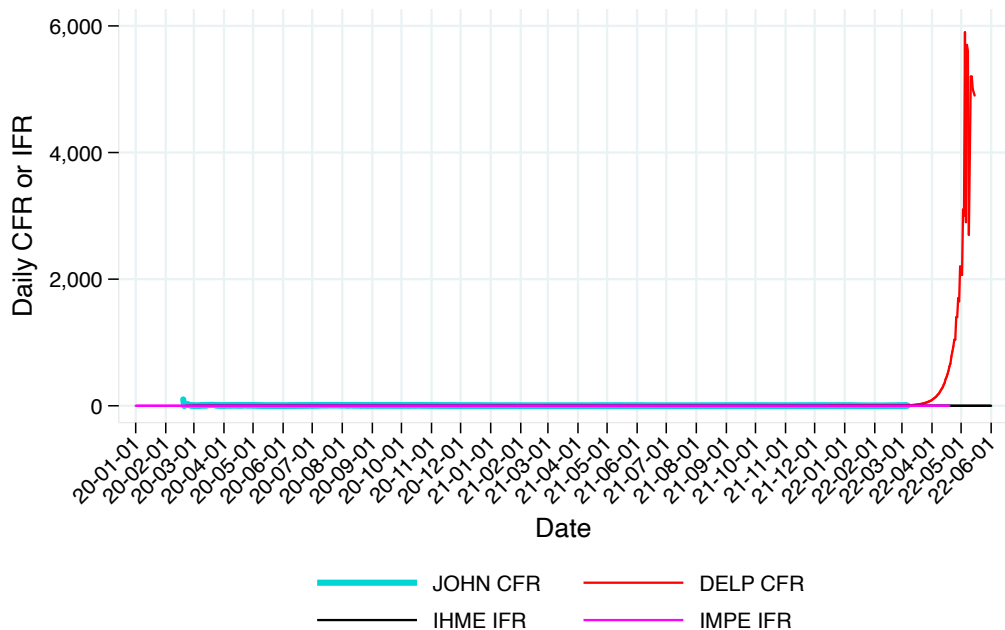
2021 on, reference scenarios with uncertainty



- Uncertainty limits: dashed curves.

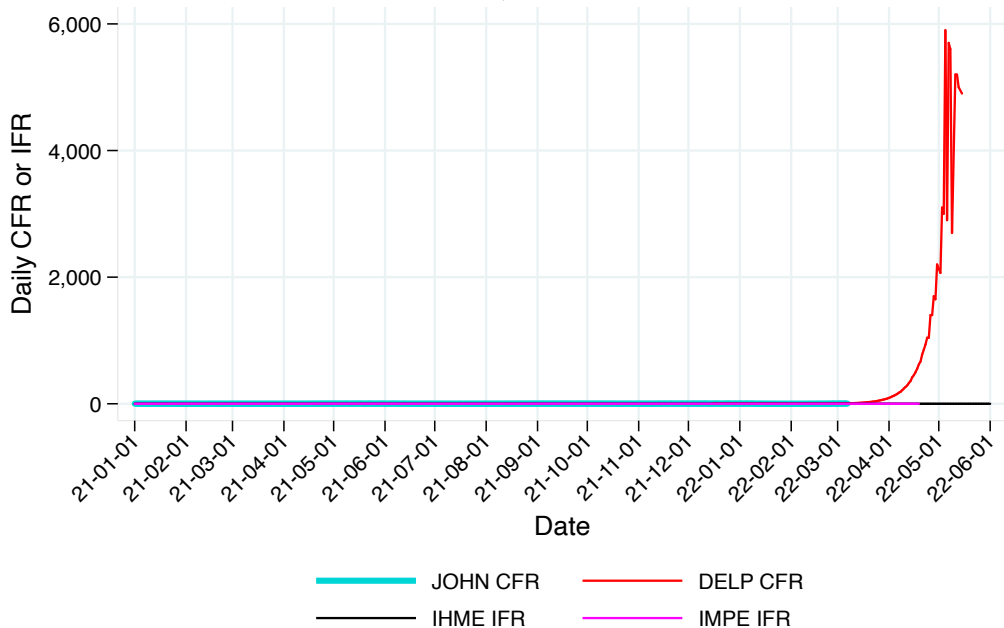
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily CFR or IFR, Iran

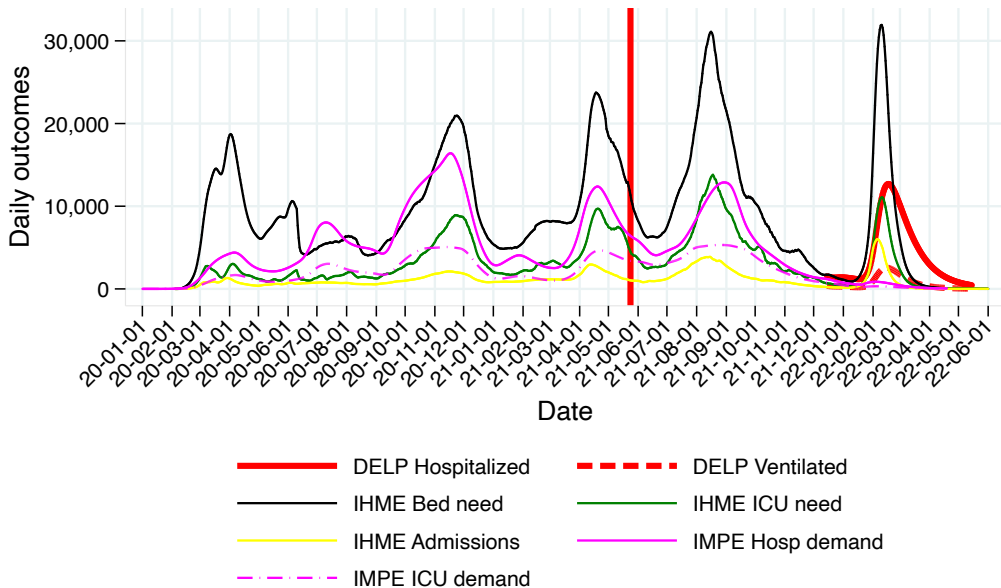


COVID-19 daily CFR or IFR, Iran

2021 on, reference scenarios

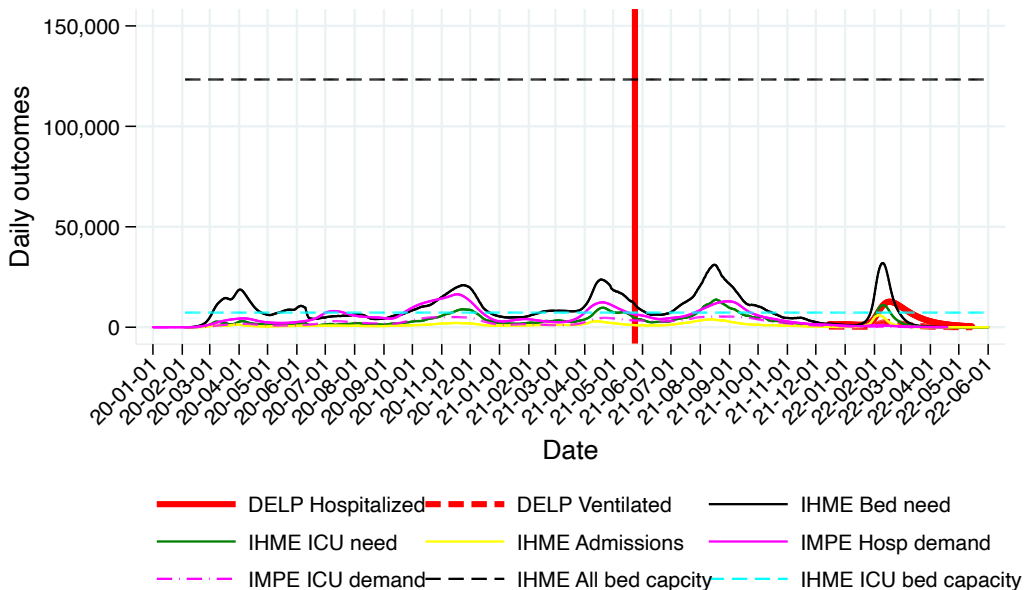


COVID-19 daily hospital-related outcomes Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

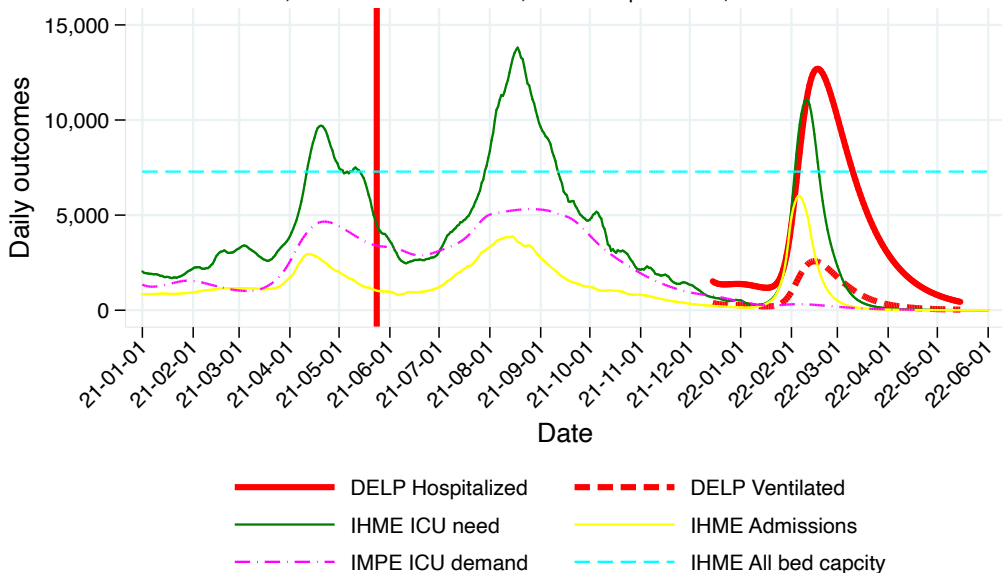
COVID-19 daily hospital-related outcomes Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily hospital-related outcomes Iran

2021 on, without IHME Bed need, IMPE Hosp demand, reference scenarios

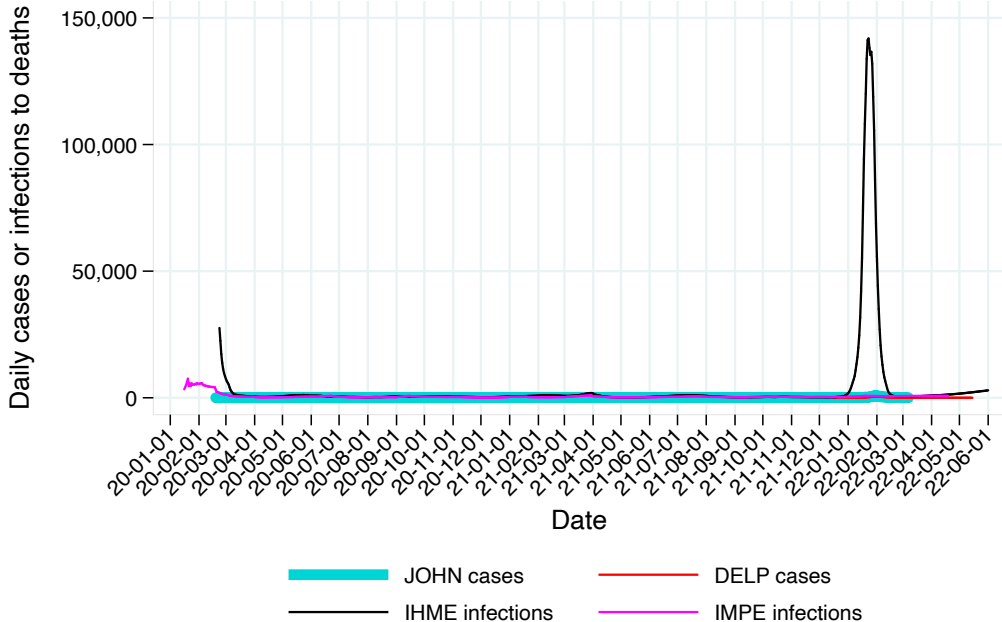


- Uncertainty limits: dashed curves.

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily cases or infections, to deaths, Iran

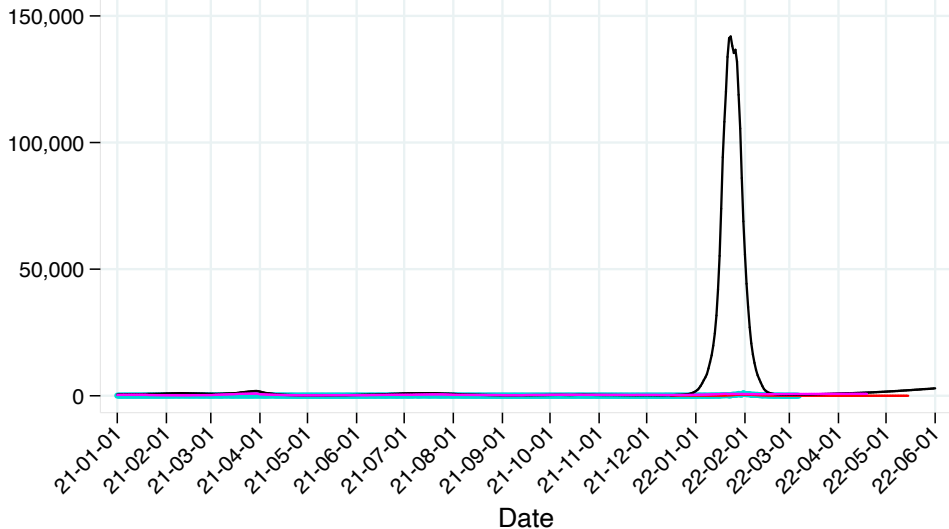
reference scenarios



COVID-19 daily cases or infections, to deaths, Iran

2021 on, reference scenarios

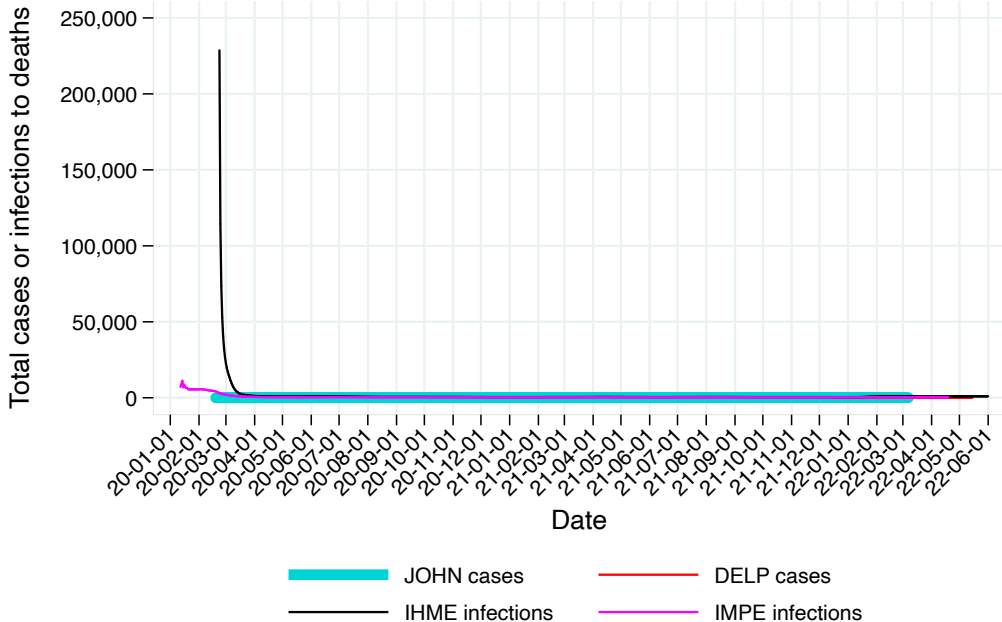
Daily cases or infections to deaths



JOHN cases
DELP cases
IHME infections
IMPE infections

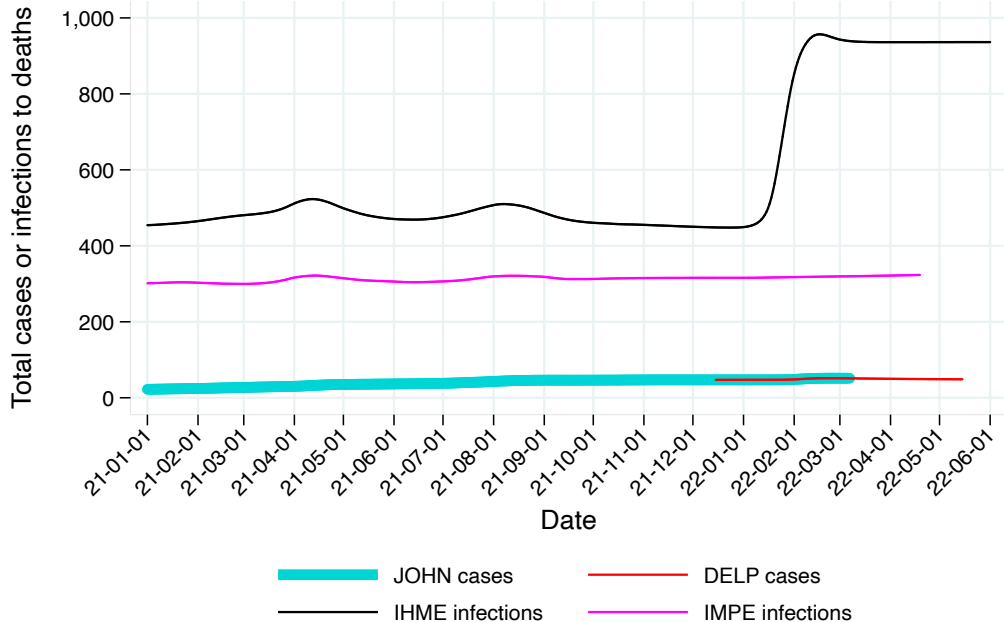
COVID-19 total cases or infections, to deaths, Iran

reference scenarios



COVID-19 total cases or infections, to deaths, Iran

2021 on, reference scenarios



COVID-19 daily deaths, estimated to reported, Iran

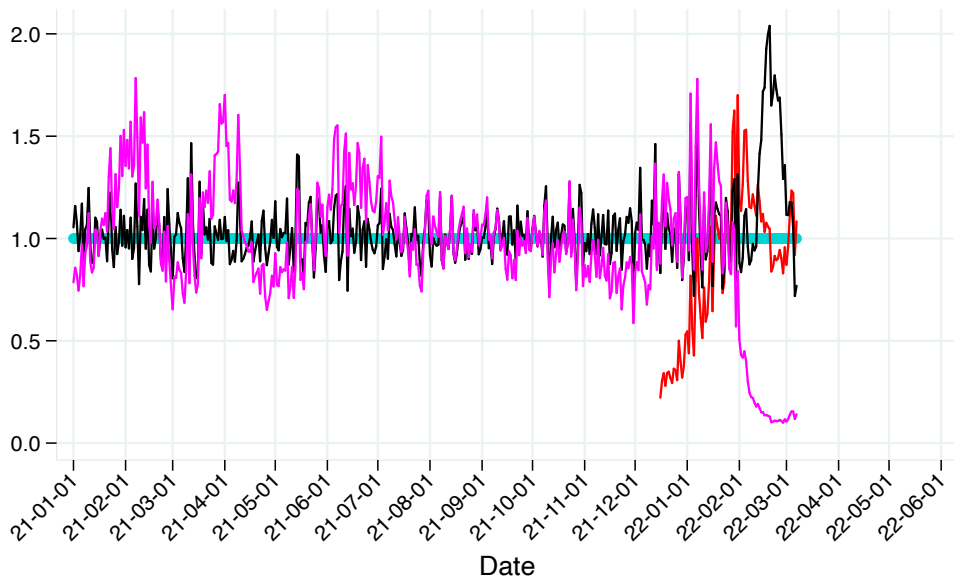
reference scenarios



COVID-19 daily deaths, estimated to reported, Iran

reference scenarios

Daily deaths estimated to reported

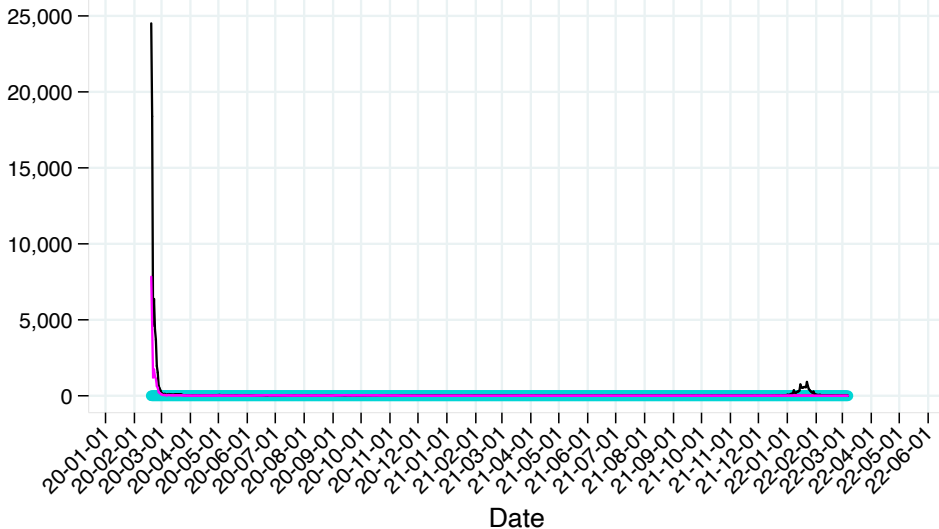


JOHN DELP IHME IMPE

COVID-19 daily cases estimated to reported, Iran

daily cases or infections estimated, to reported cases; reference scenarios

Daily cases or infections estimated to reported

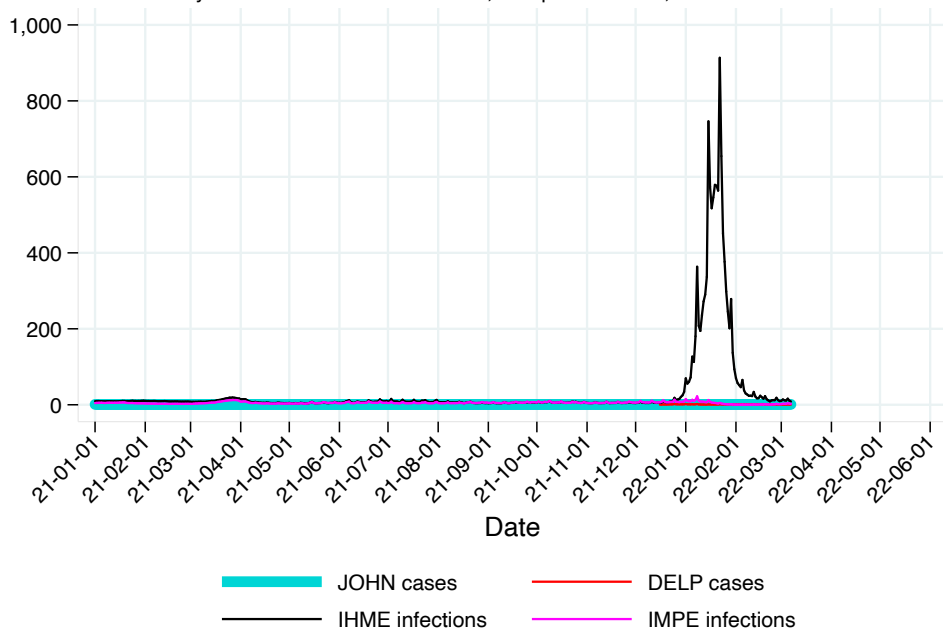


JOHN cases
DELP cases
IHME infections
IMPE infections

Daily cases or infections estimated to reported

COVID-19 daily cases estimated to reported, Iran

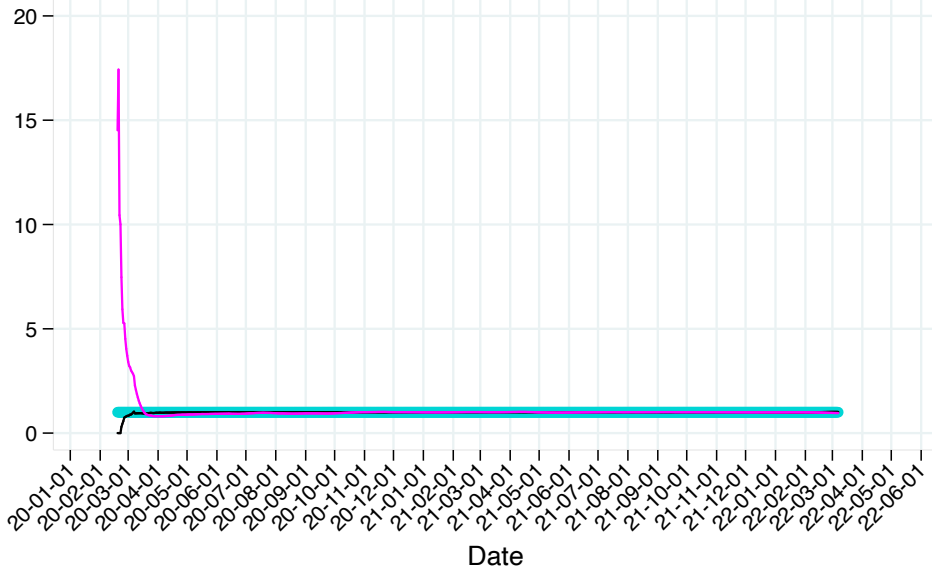
daily cases or infections estimated, to reported cases; reference scenarios



COVID-19 total deaths, estimated to reported, Iran

reference scenarios

Total deaths estimated to reported



JOHN



DELP



IHME

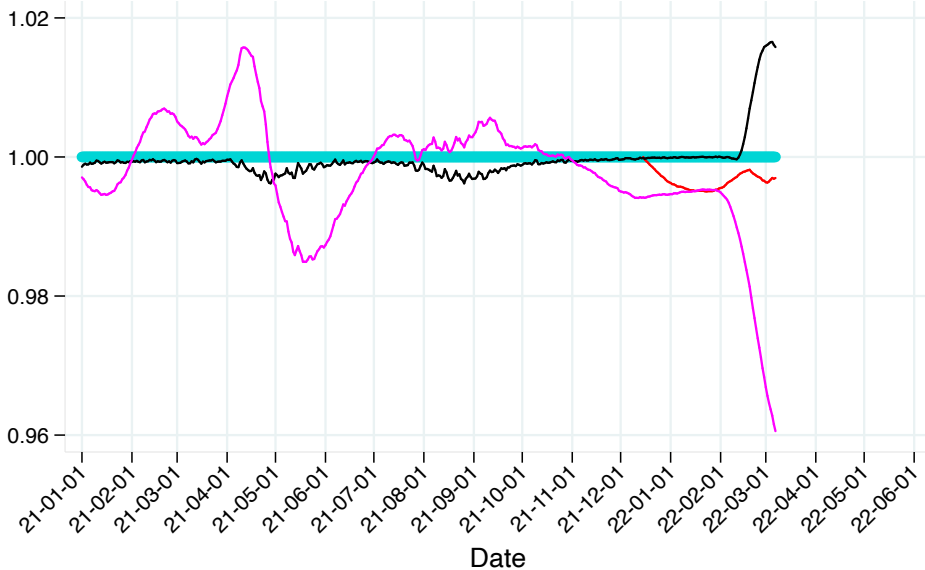


IMPE

COVID-19 total deaths, estimated to reported, Iran

reference scenarios

Total deaths estimated to reported



JOHN



DELP



IHME

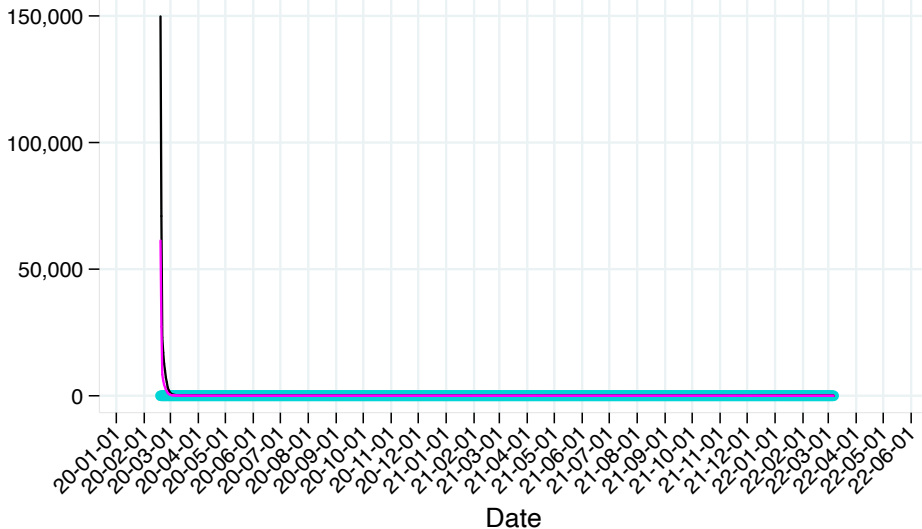


IMPE

COVID-19 total cases estimated to reported, Iran

total cases or infections estimated, to reported cases; reference scenarios

Total cases or infections estimated to reported

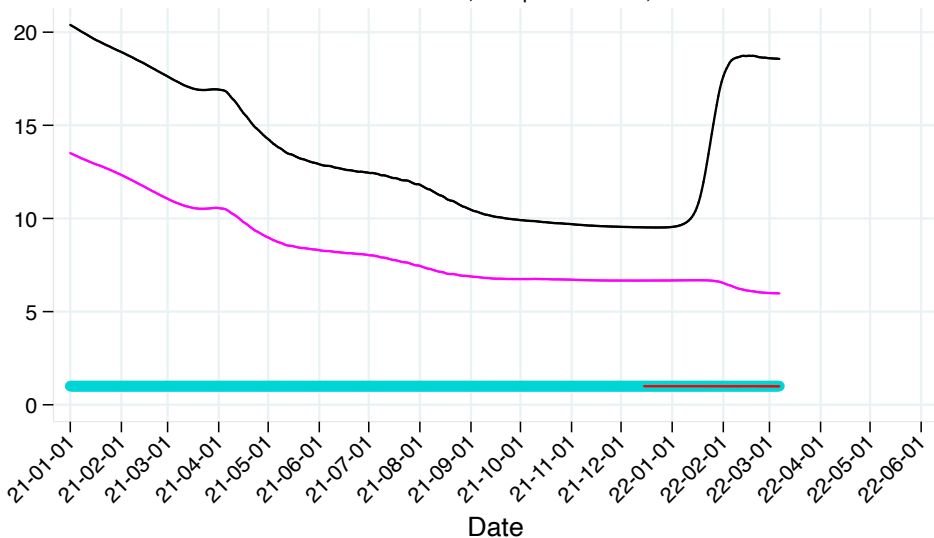


JOHN cases
DELP cases
IHME infections
IMPE infections

COVID-19 total cases estimated to reported, Iran

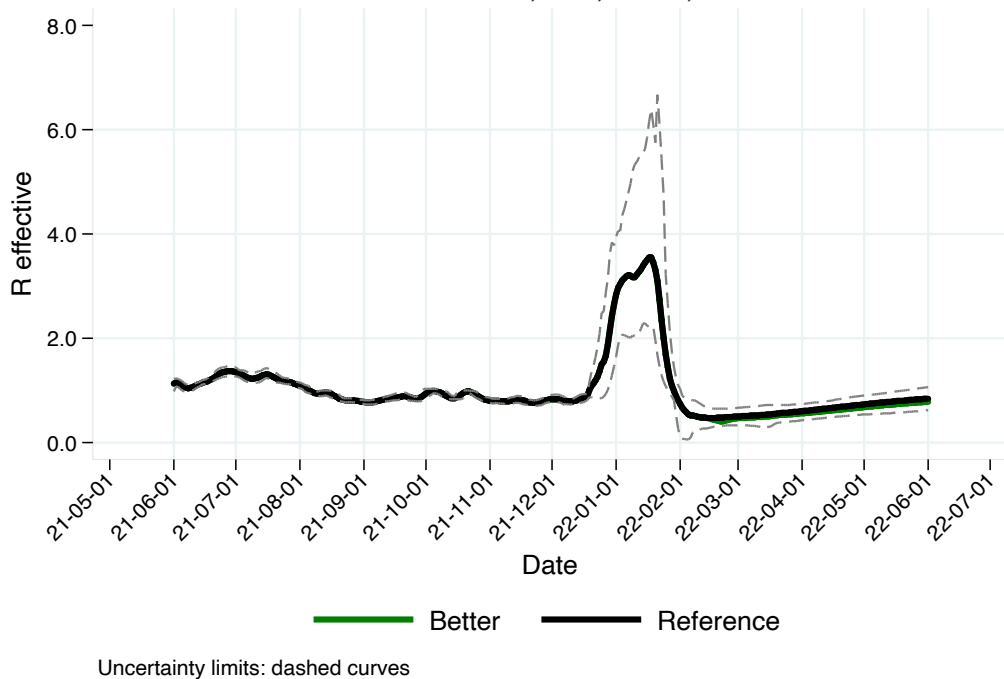
total cases or infections estimated, to reported cases; reference scenarios

Total cases or infections estimated to reported

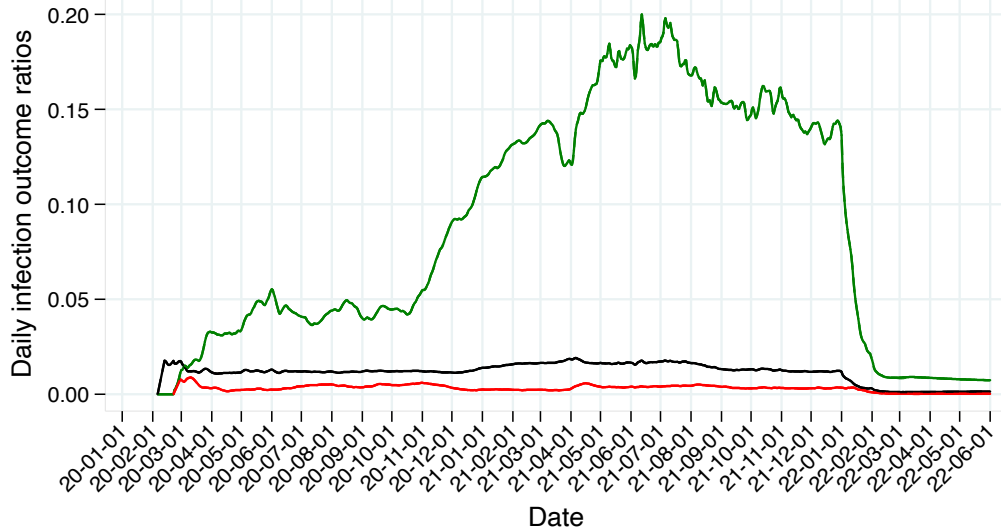


- JOHN cases
- DELP cases
- IHME infections
- IMPE infections

COVID-19 R effective, Iran, IHME, 2 scenarios



COVID-19 daily infection outcome ratios, Iran, IHME, 2 scenarios



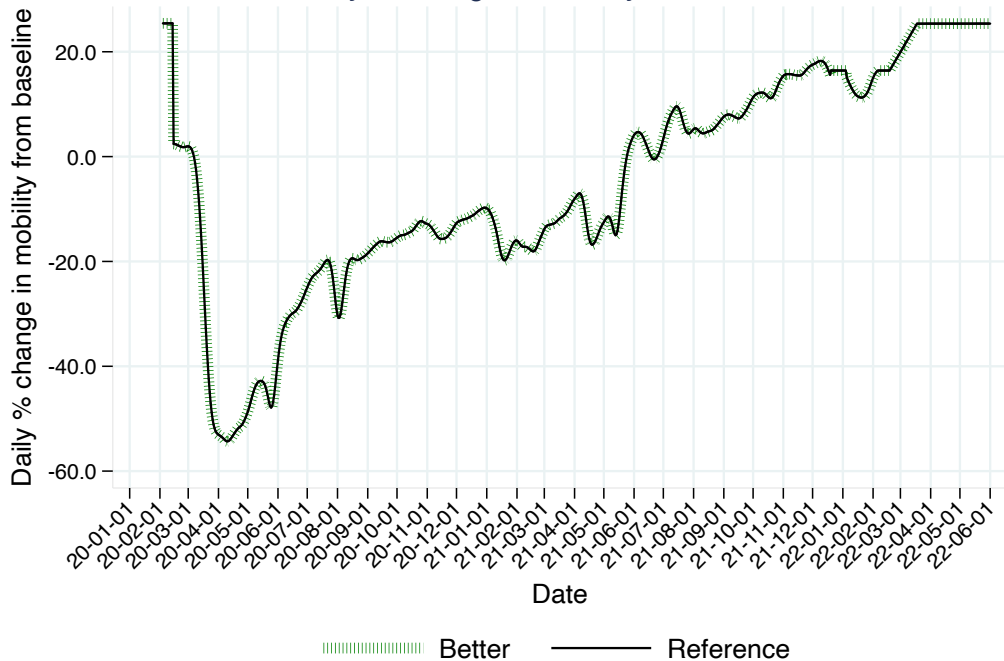
— Infection detection ratio

— Infection hospitalization ratio

— Infection fatality ratio

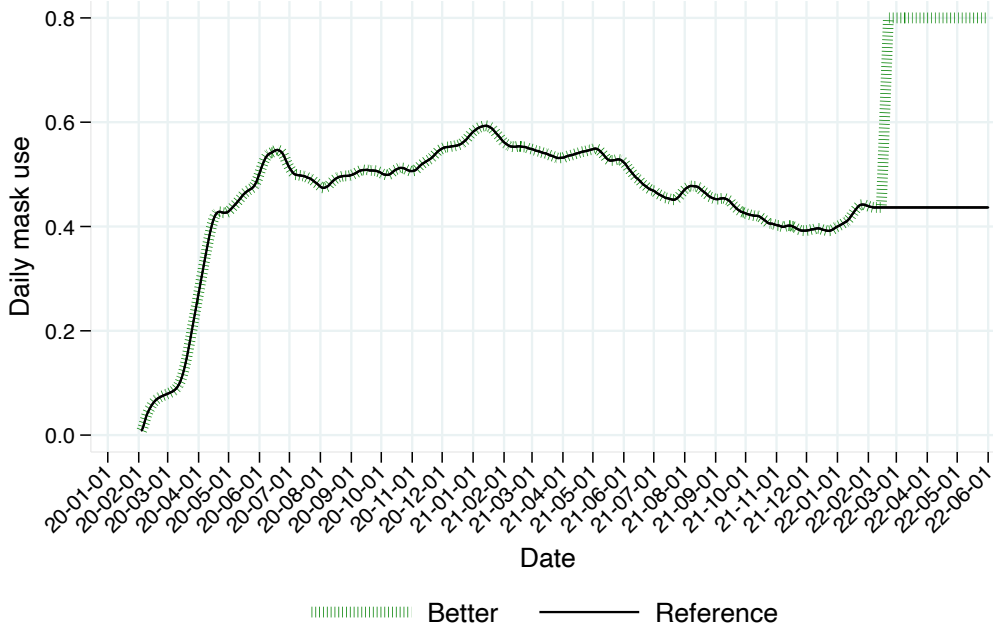
Better scenario: dashed curves

COVID-19 daily % change in mobility, Iran, IHME, 2 scenarios

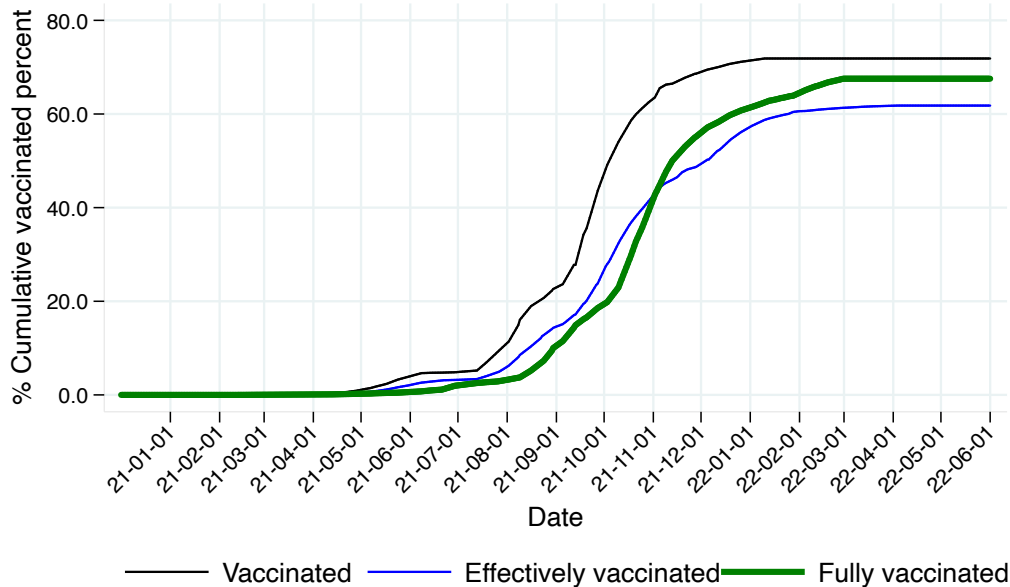


COVID-19 daily mask use, Iran, IHME, 2 scenarios

Percent of population reporting always wearing a mask when leaving home

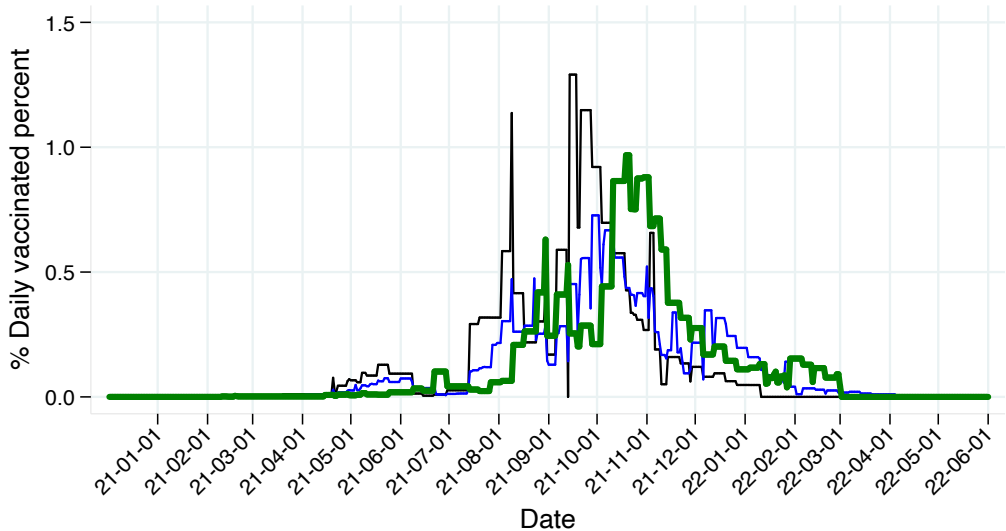


COVID-19 cumulative vaccinated percent, Iran, IHME, 2 scenarios



Vaccinated: Initially vaccinated (one dose of two doses)
Effectively vaccinated: one and two dose with efficacy
Fully vaccinated: one of one and two of two doses

COVID-19 daily vaccinated percent, Iran, IHME, 2 scenarios



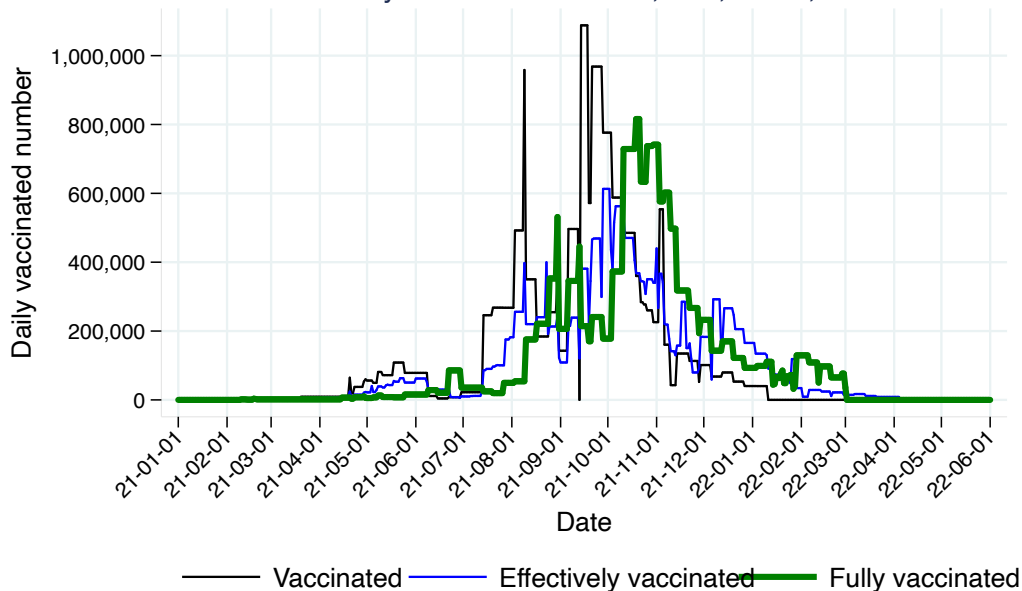
— Vaccinated — Effectively vaccinated — Fully vaccinated

Vaccinated: Initially vaccinated (one dose of two doses)

Effectively vaccinated: one and two dose with efficacy

Fully vaccinated: one of one and two of two doses

COVID-19 daily vaccinated number, Iran, IHME, 2 scenarios



Vaccinated: Initially vaccinated (one dose of two doses)

Effectively vaccinated: one and two dose with efficacy

Fully vaccinated: one of one and two of two doses