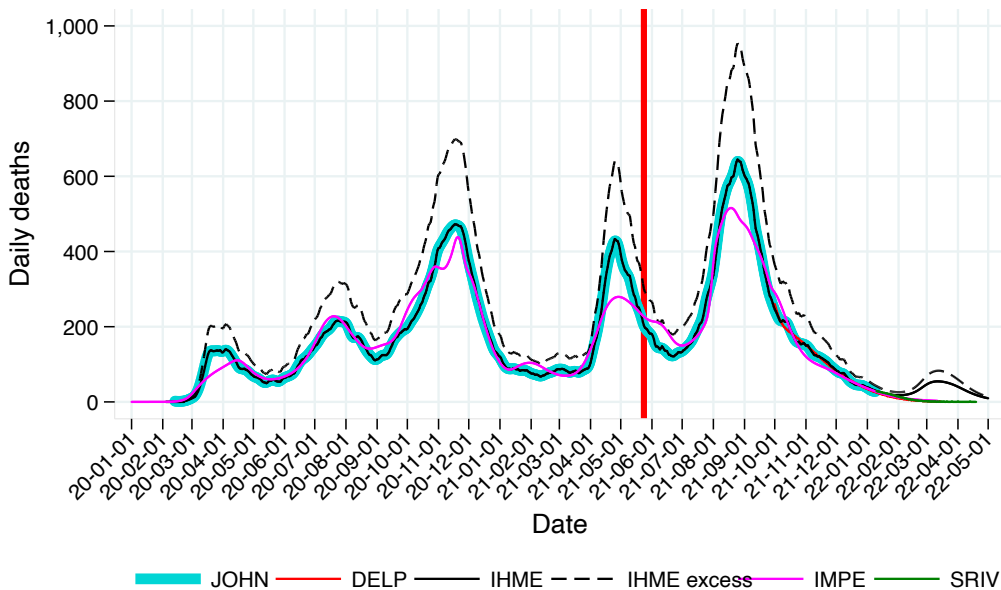


COVID-19 daily deaths, Iran

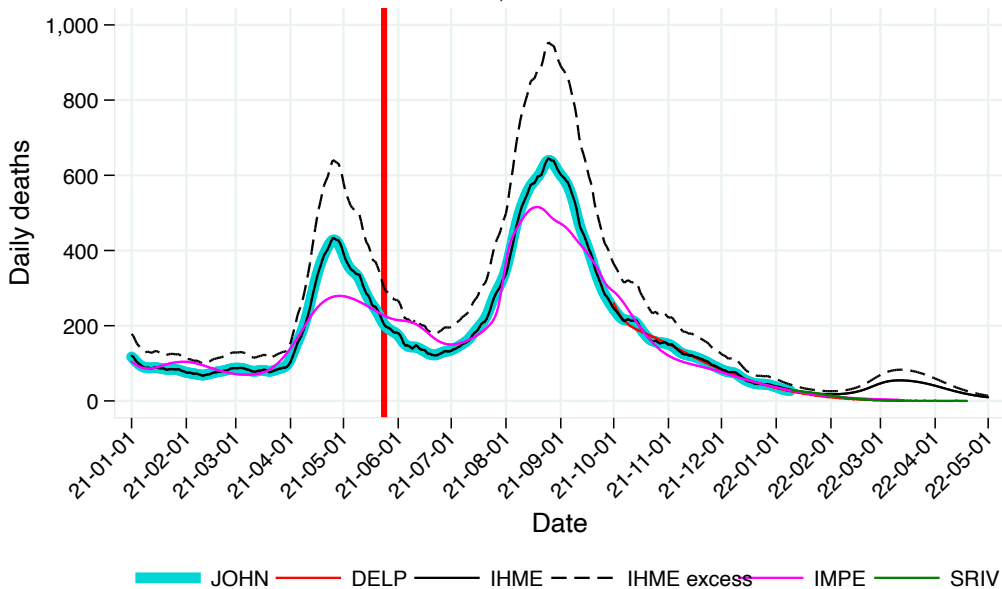
reference scenarios



- 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

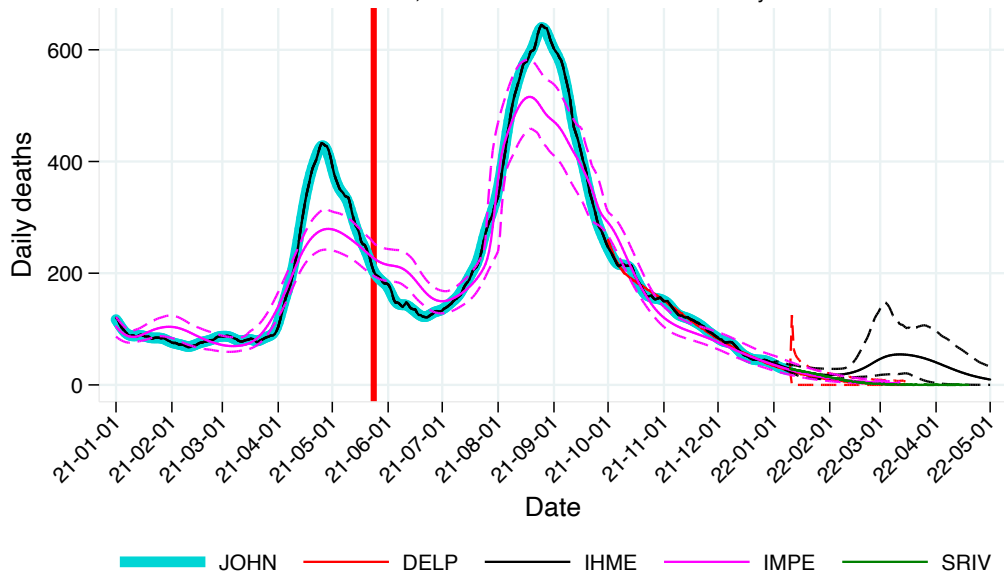
2021 on, reference scenarios



- 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

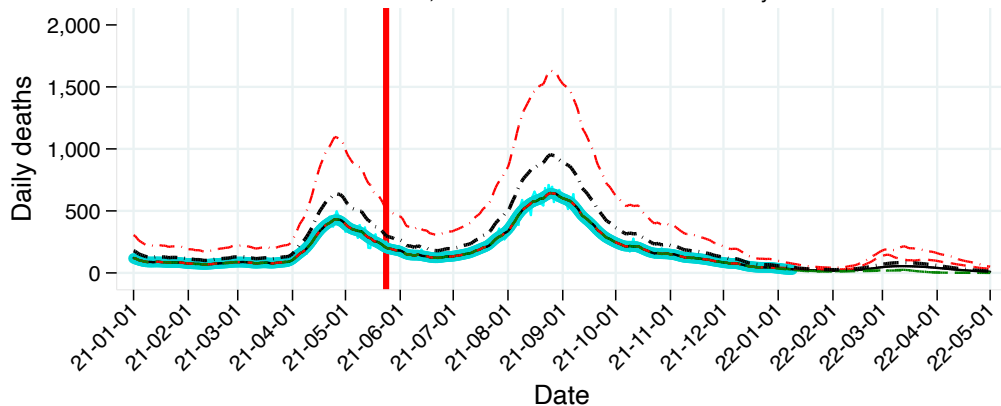


- Uncertainty limits: dashed curves

- 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

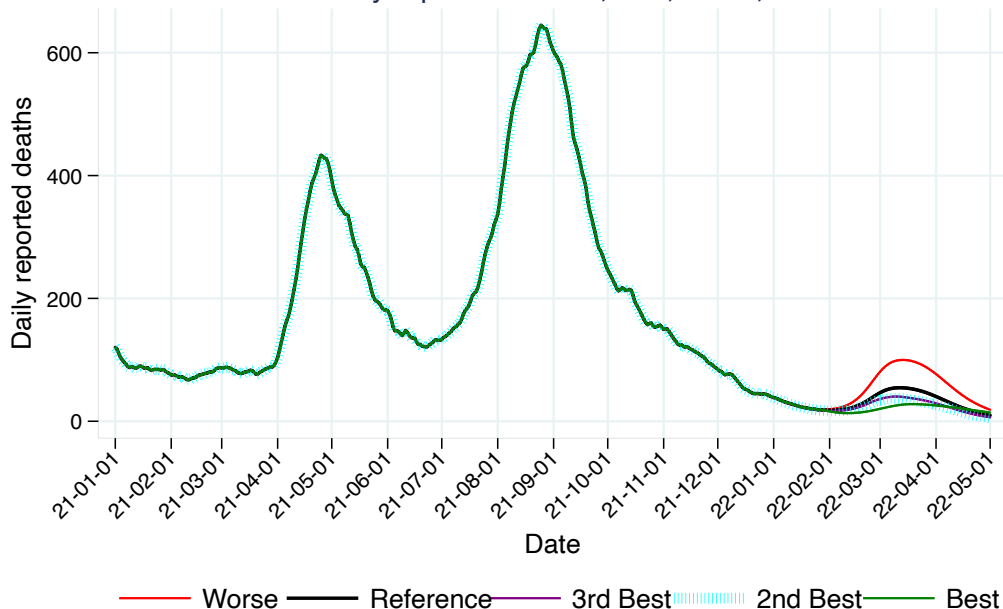
2021 on, reference scenario with uncertainty



- 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, 5 scenarios

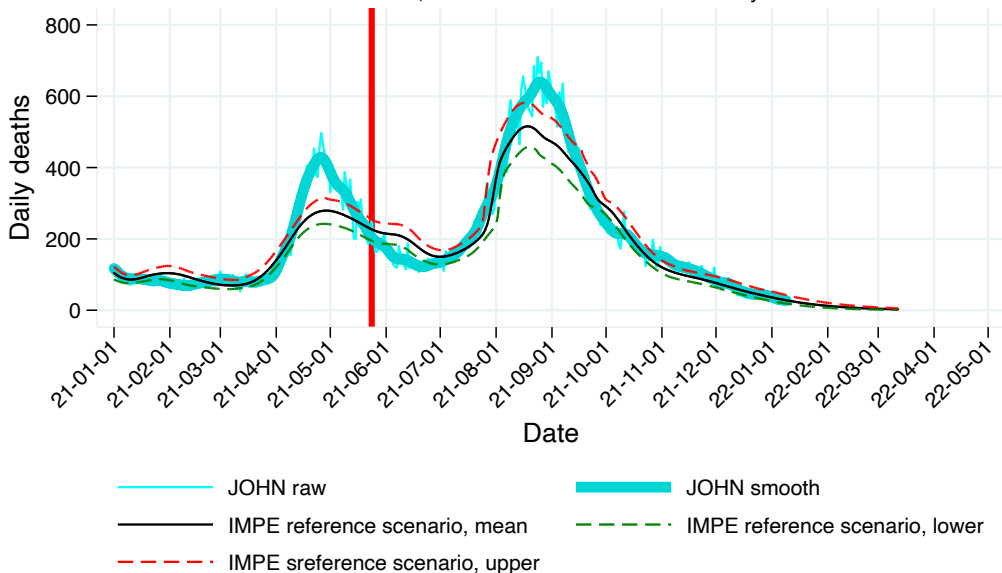


Worse = High severity of Omicron; Reference = Current projection

3rd best = Reduced vaccine hesitancy; 2nd Best = Vaccine 3rd dose; Best = 80% mask use

COVID-19 daily deaths, Iran, IMPE

2021 on, reference scenario with uncertainty

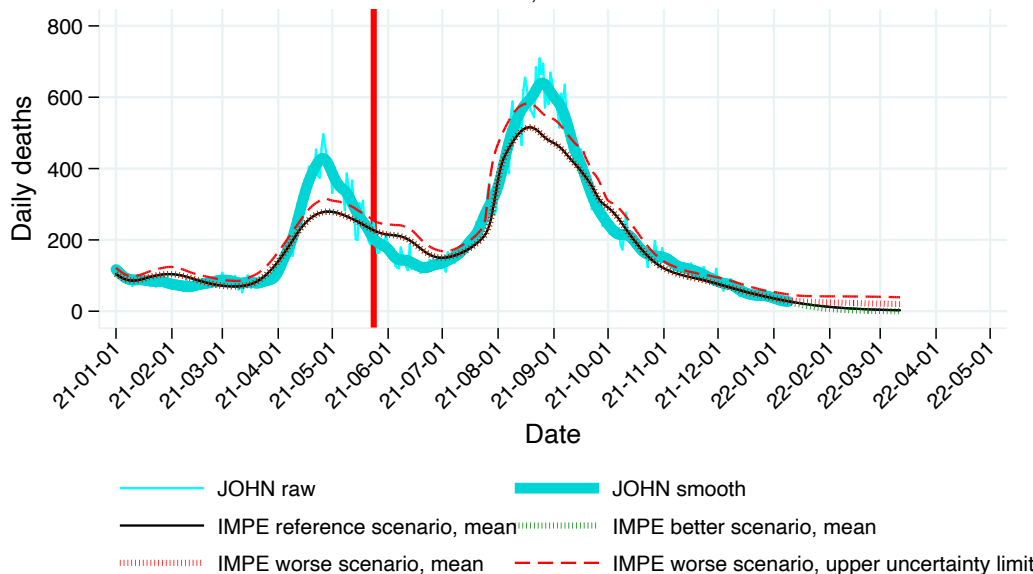


- Uncertainty limits: dashed (---) curves.

- 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

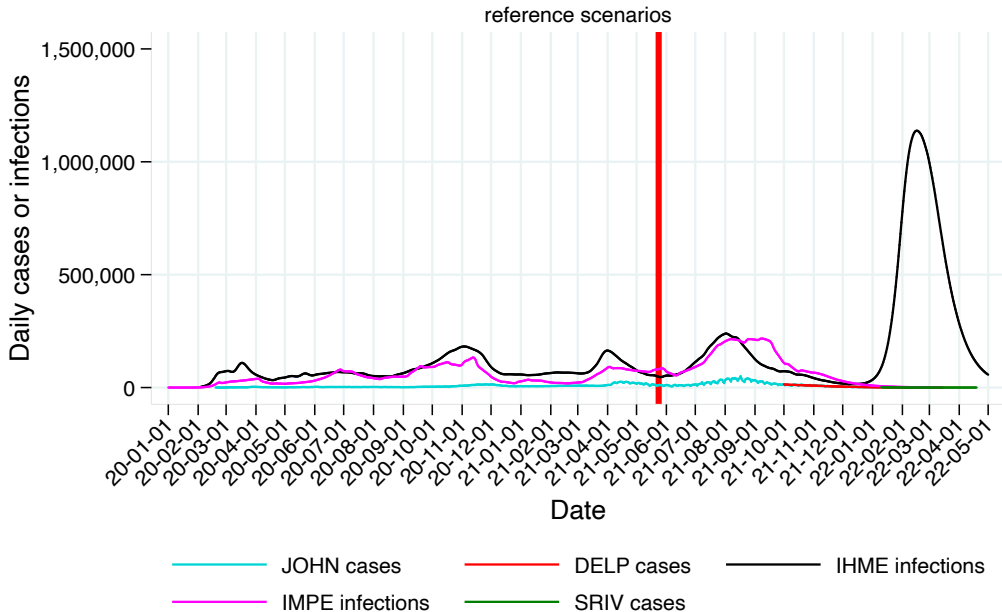
2021 on, 3 scenarios



- 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.

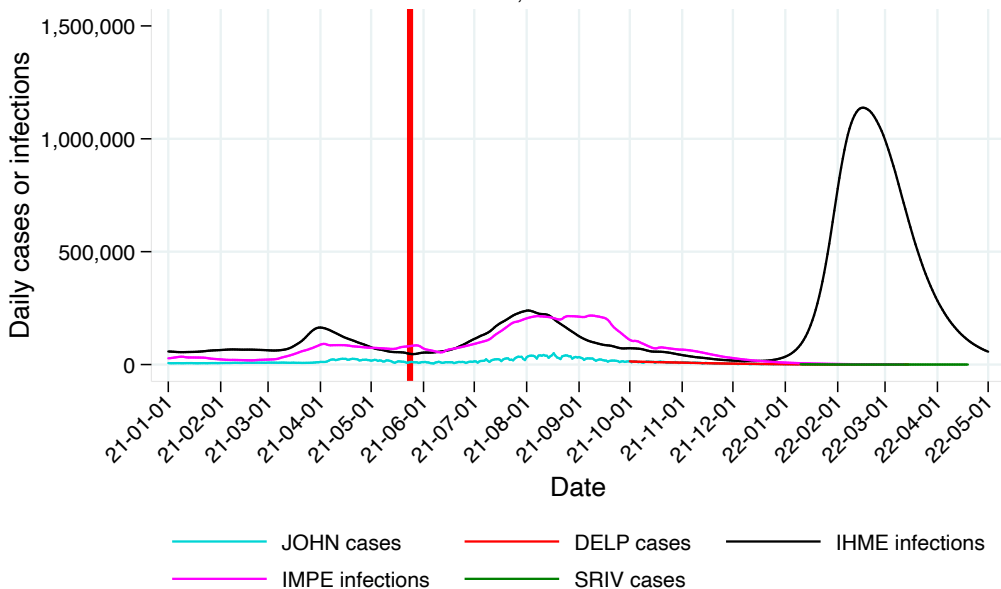
COVID-19 daily cases or infections, Iran



- 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

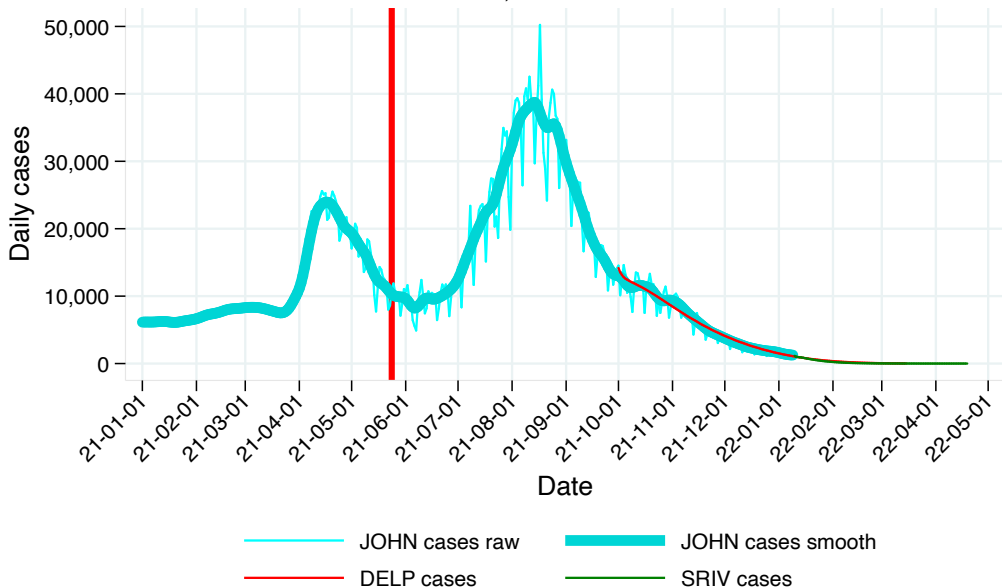
2021 on, reference scenarios



- 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

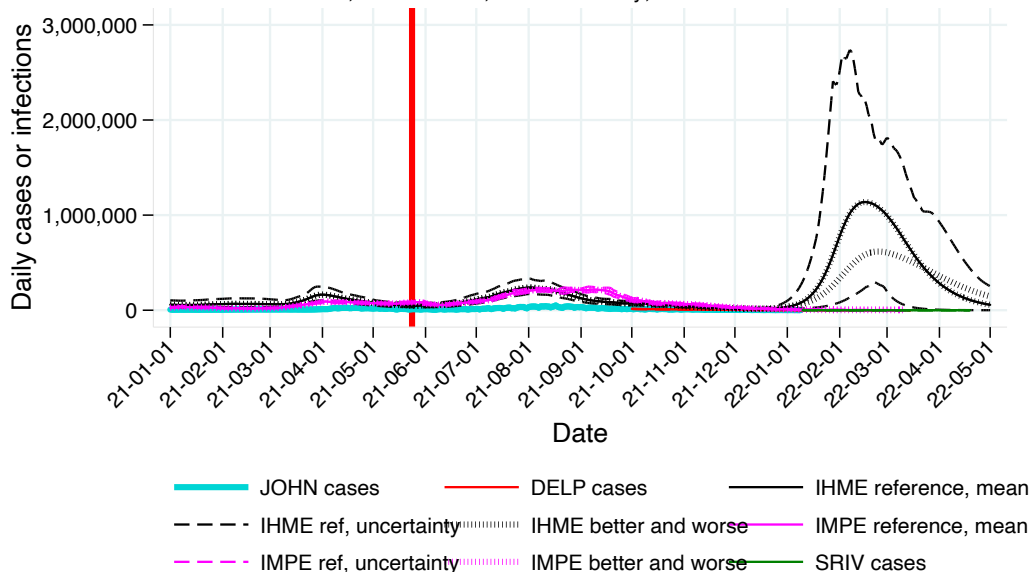
2021 on, reference scenarios



- 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

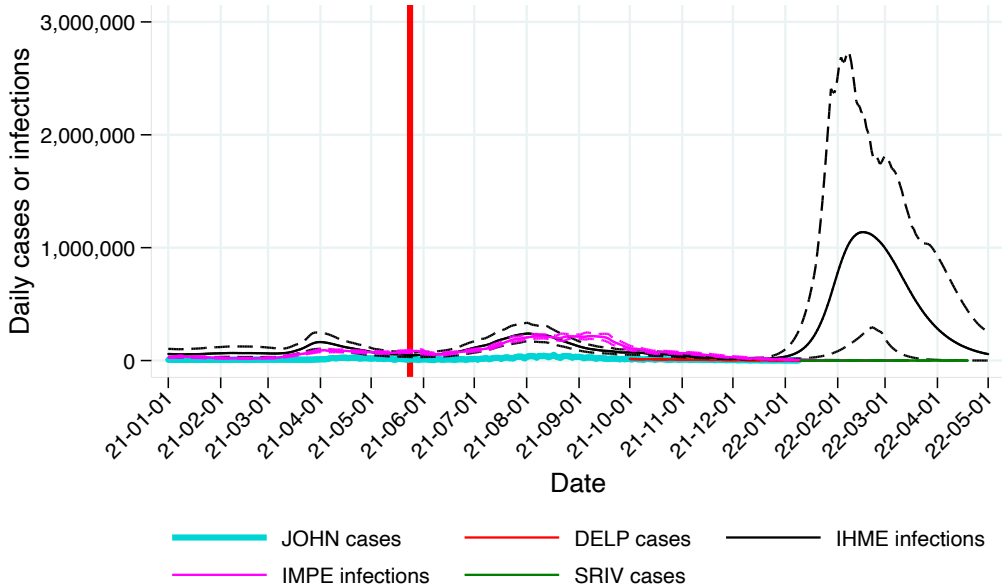


- Uncertainty limits: dashed (---) curves; Better and worse scenarios: tight dot (|||||) curves.

- 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

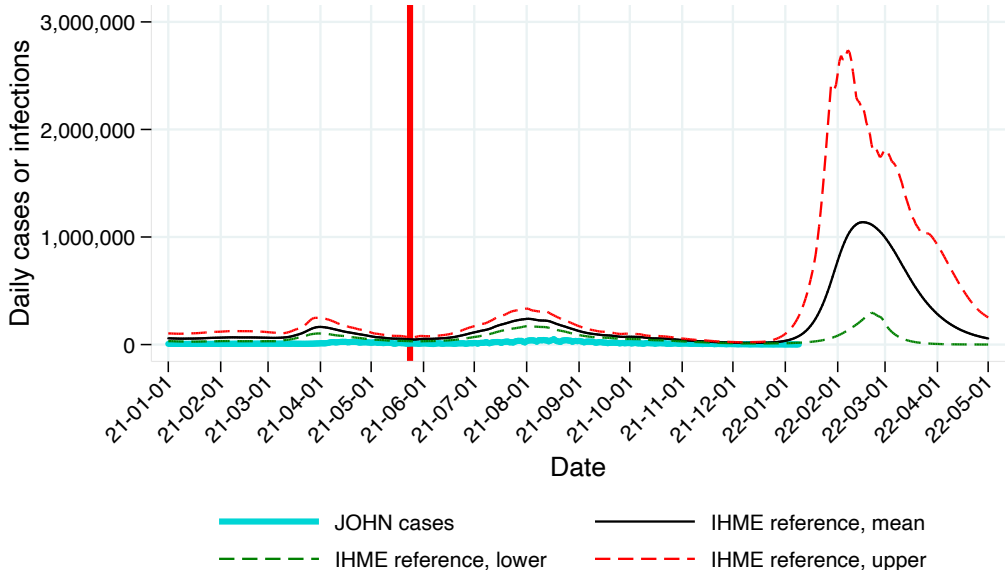
2021 on, reference scenarios with uncertainty



- 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.

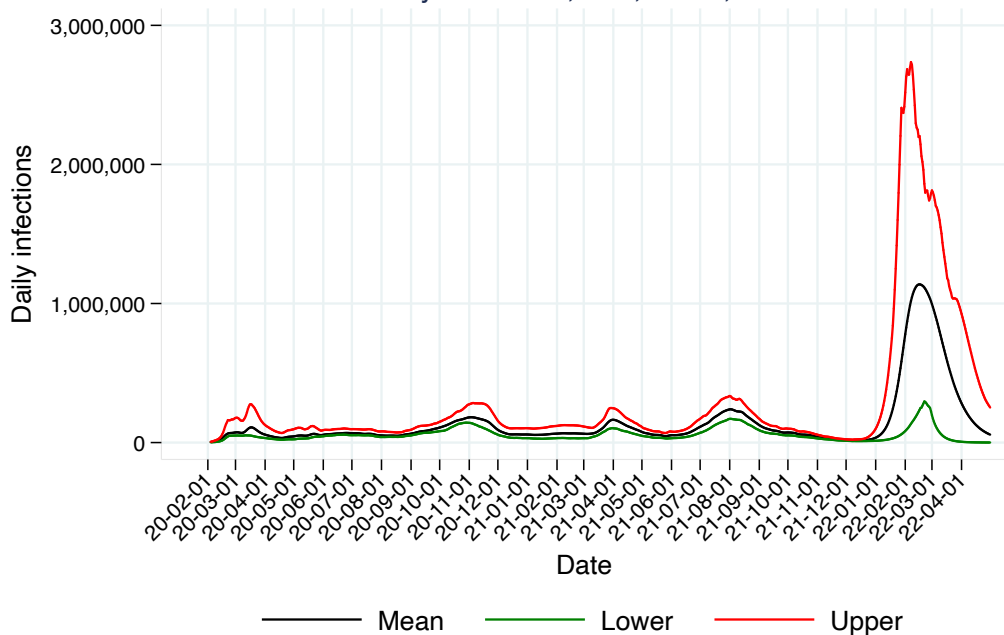
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily infections, Iran, IHME, 5 scenarios



Worse = High severity of Omicron; Reference = Current projection
3rd best = Reduced vaccine hesitancy; 2nd Best = Vaccine 3rd dose; Best = 80% mask use

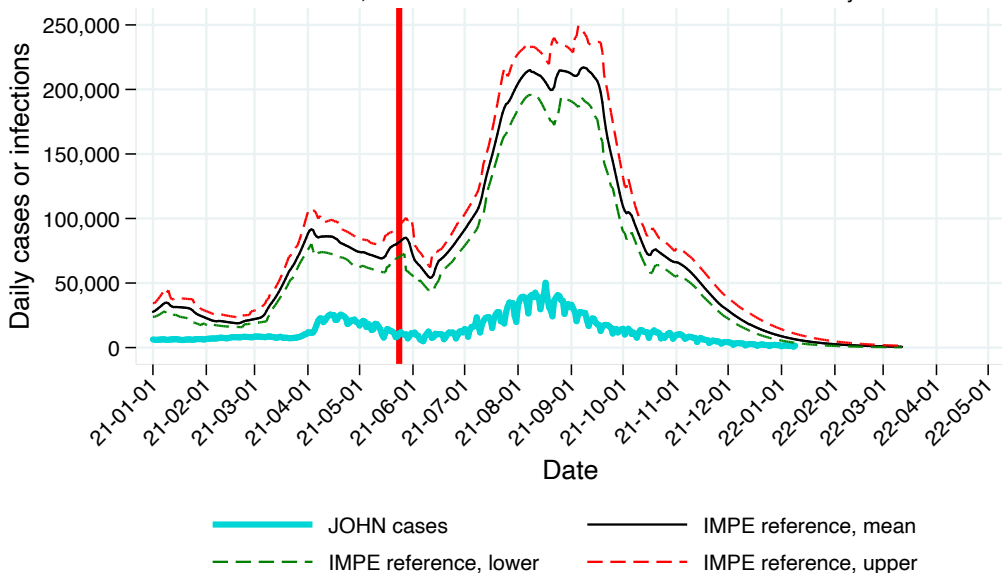
COVID-19 daily infections, Iran, IHME, worse scenario



Worse scenario = High severity of Omicron

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

2021 on, IMPE infections reference scenario with uncertainty

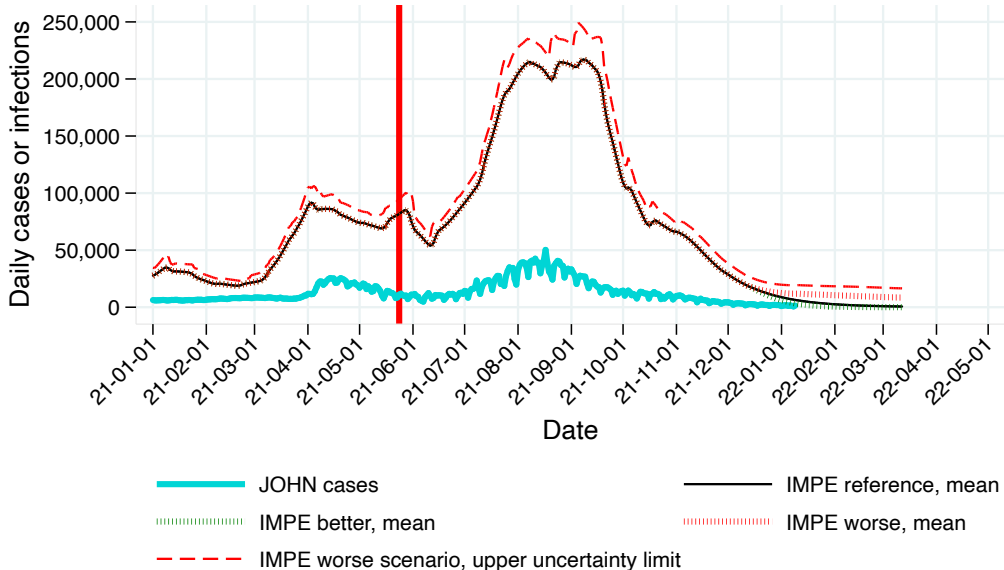


- Uncertainty limits: dashed (---) curves.

- 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, 3 scenarios

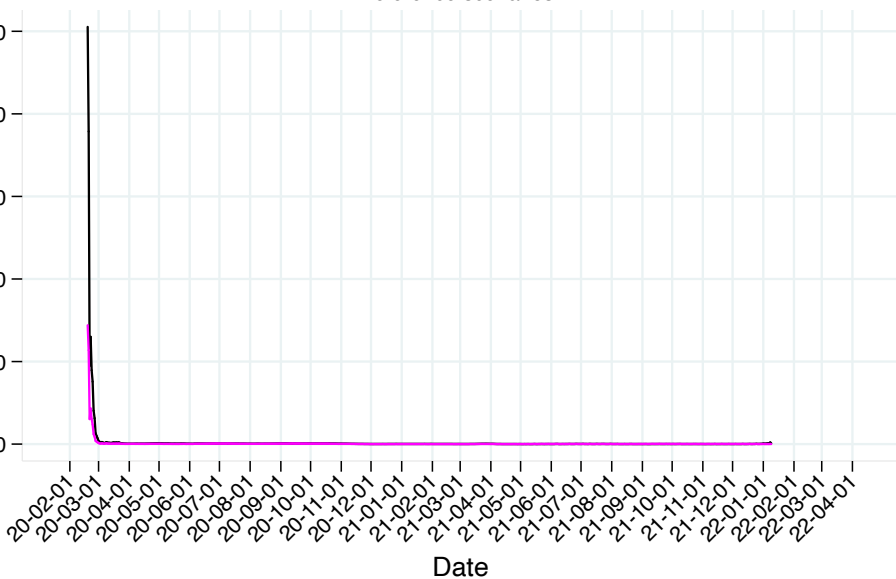


- Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves.
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

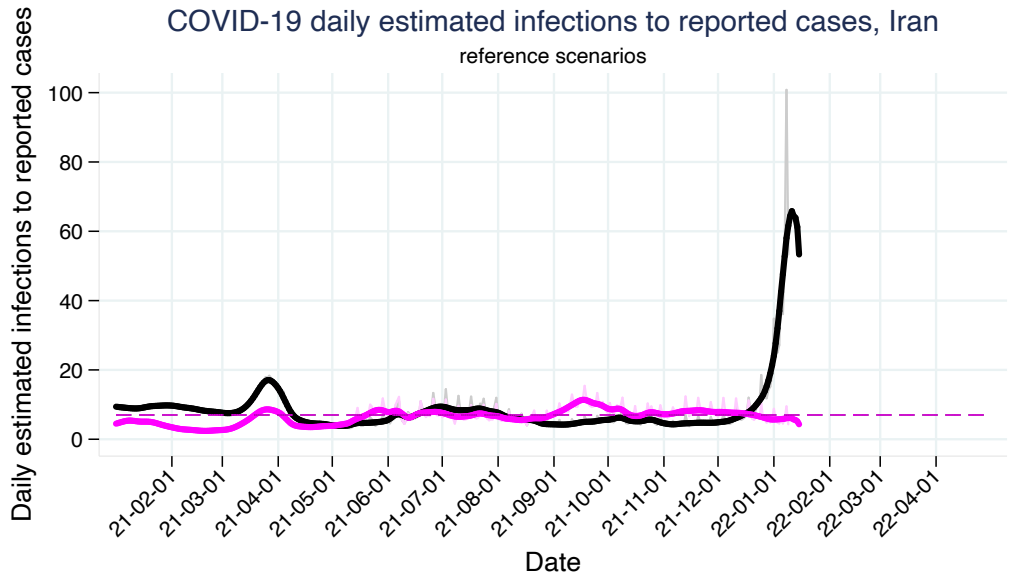
Daily estimated infections to reported cases



IHME IMPE

COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

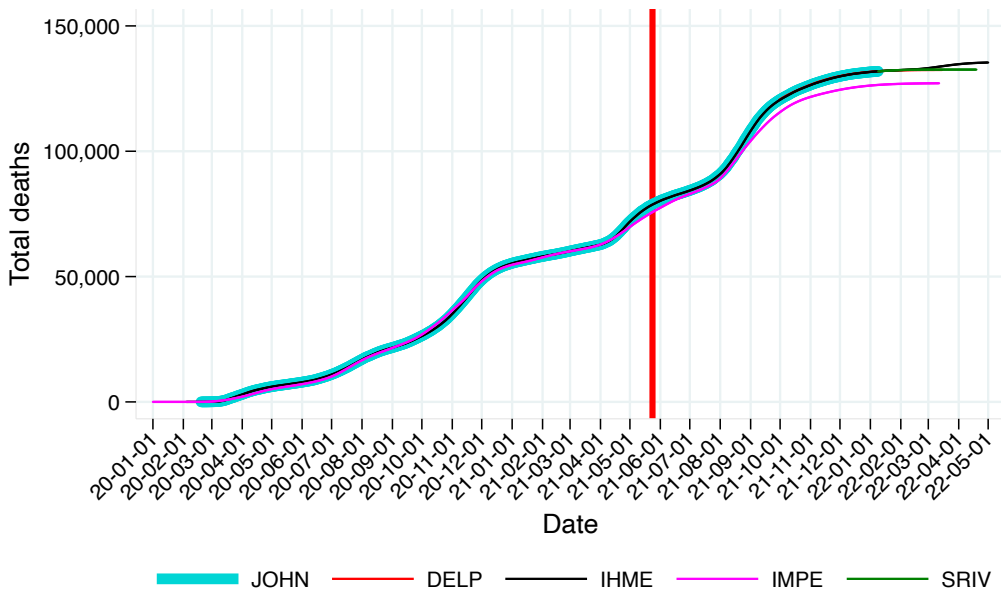


IHME IMPE IHME smooth IMPE smooth IHME smooth median IMPE smooth median

IHME smooth median 2021 on = 7; IMPE smooth median 2021 on = 7

COVID-19 total deaths, Iran

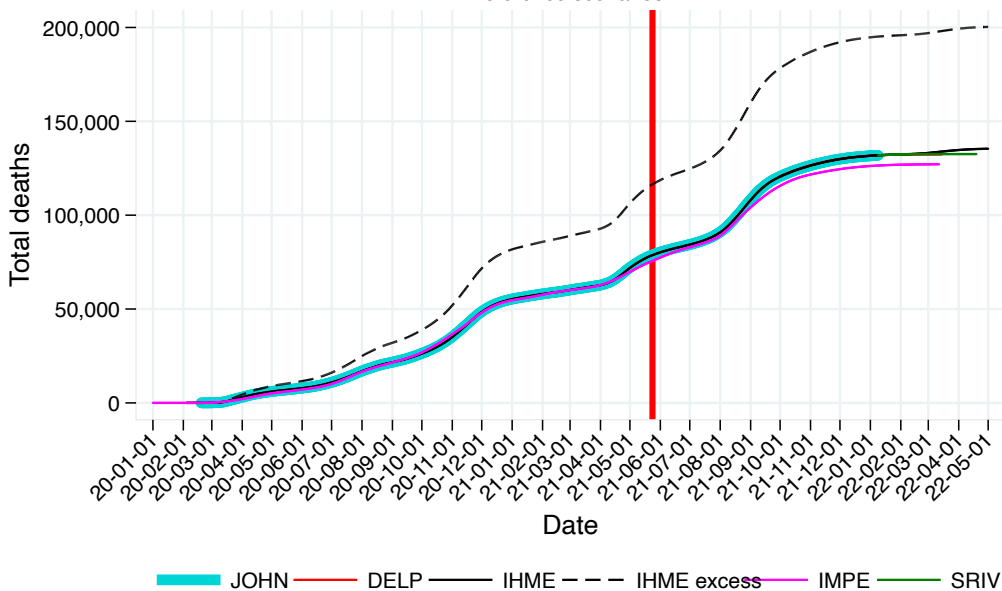
reference scenarios



- 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 total deaths, Iran

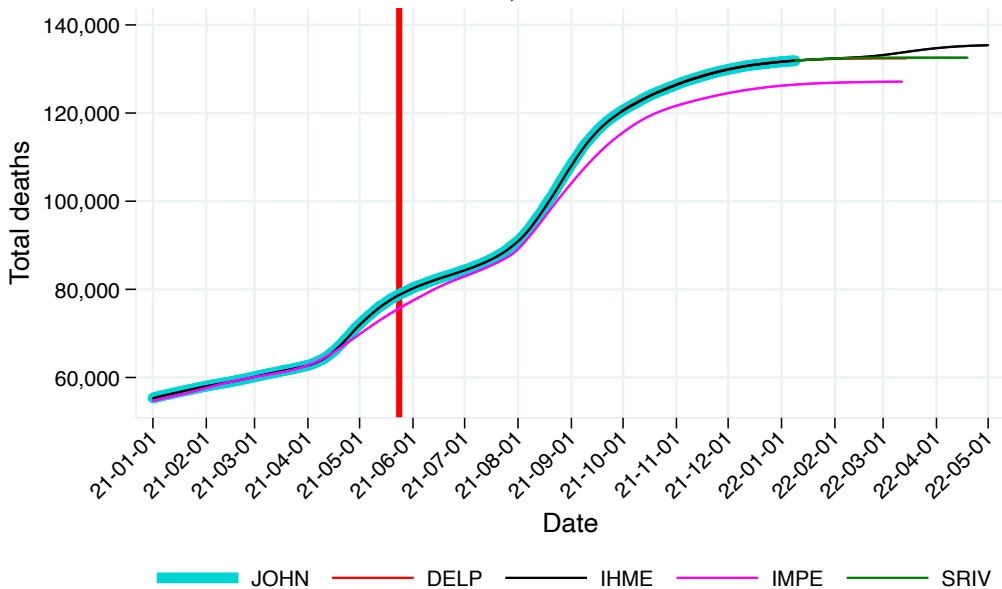
reference scenarios



- 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 total deaths, Iran

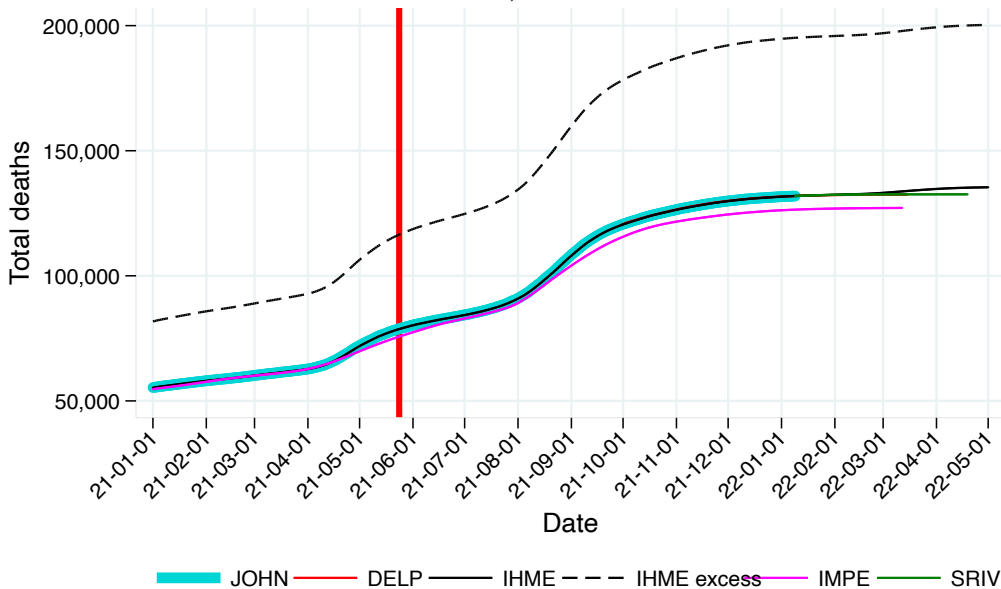
2021 on, reference scenarios



- 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

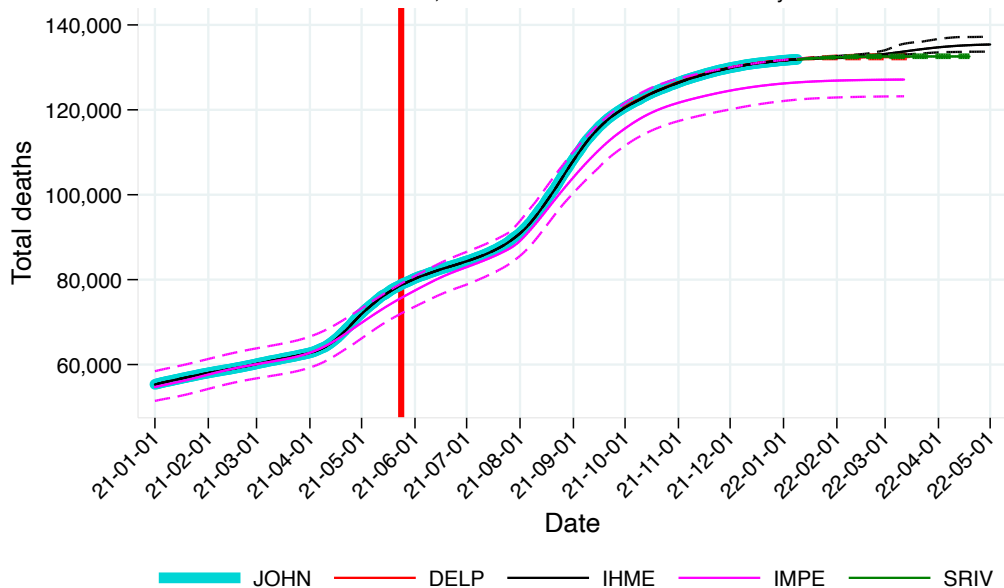
2021 on, reference scenarios



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

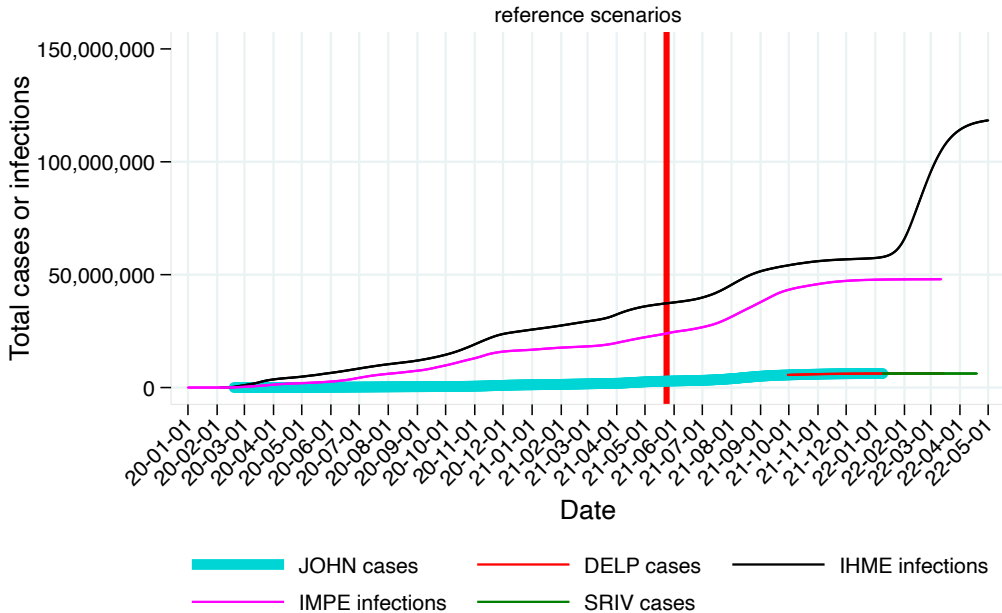
COVID-19 total deaths, Iran

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.

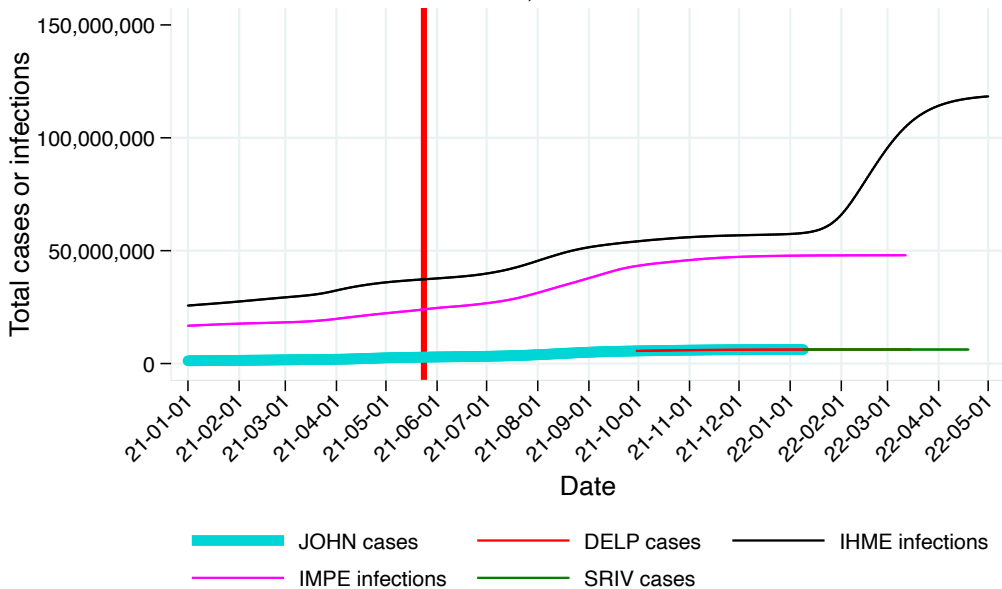
COVID-19 total cases or infections, Iran



- 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

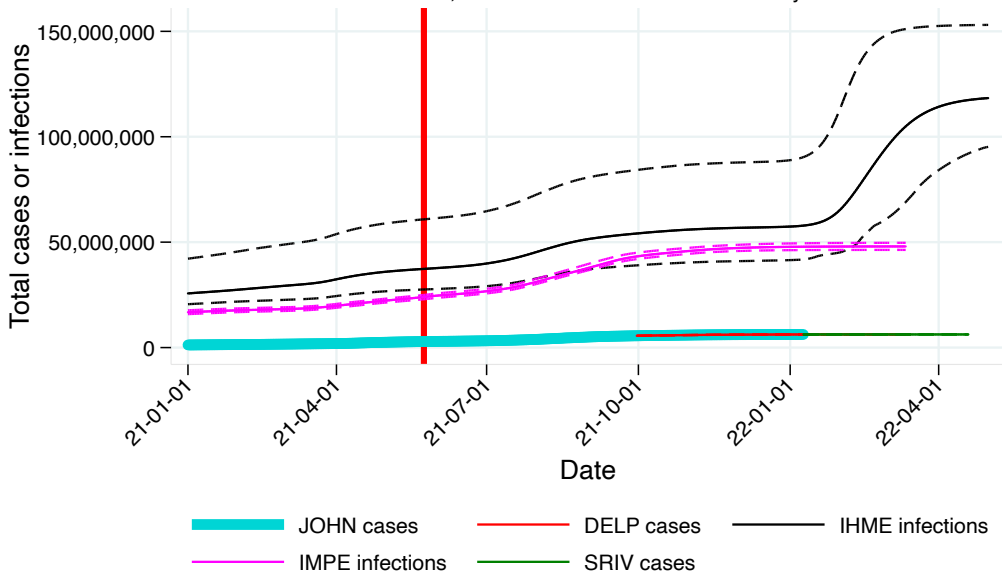
2021 on, reference scenarios



- 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

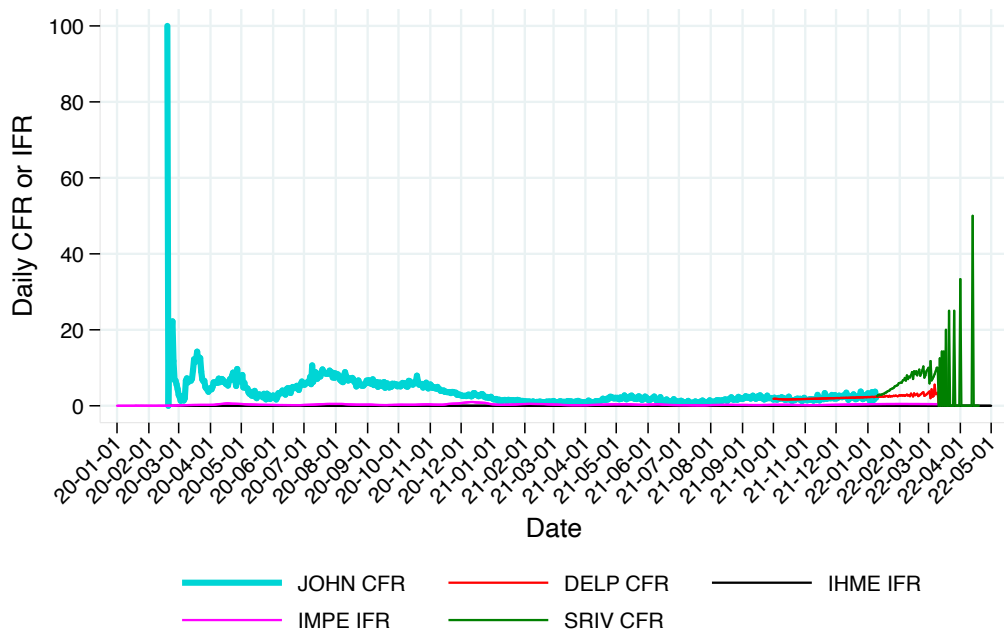
2021 on, reference scenarios with uncertainty



- Uncertainty limits: dashed curves.

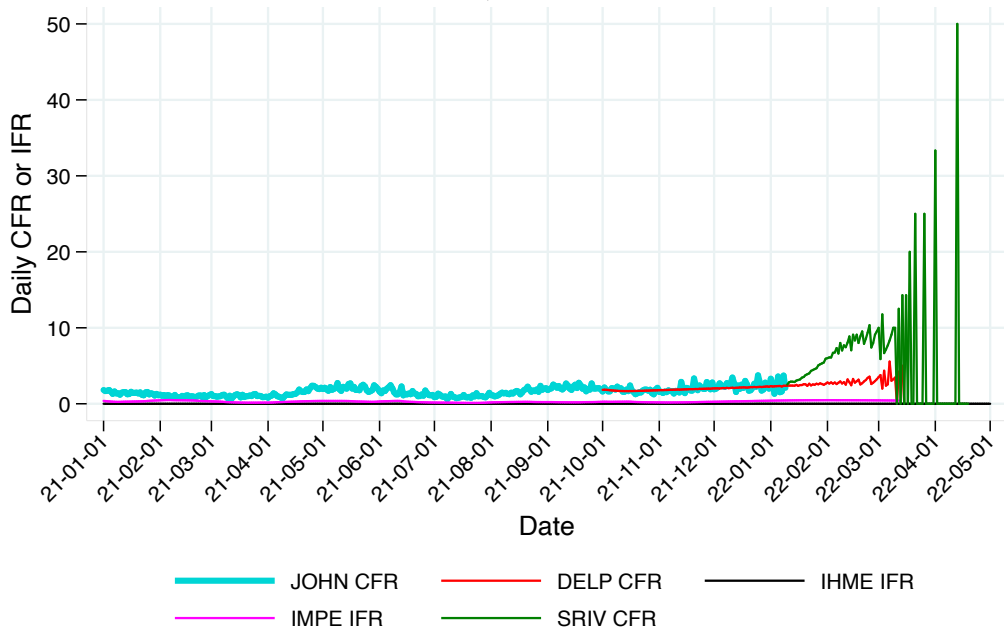
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily CFR or IFR, Iran

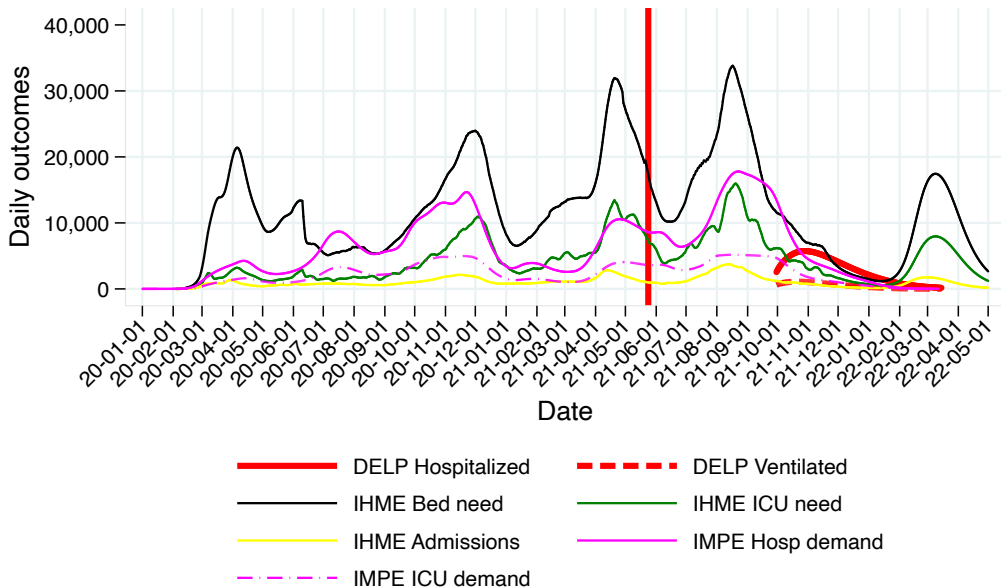


COVID-19 daily CFR or IFR, Iran

2021 on, reference scenarios

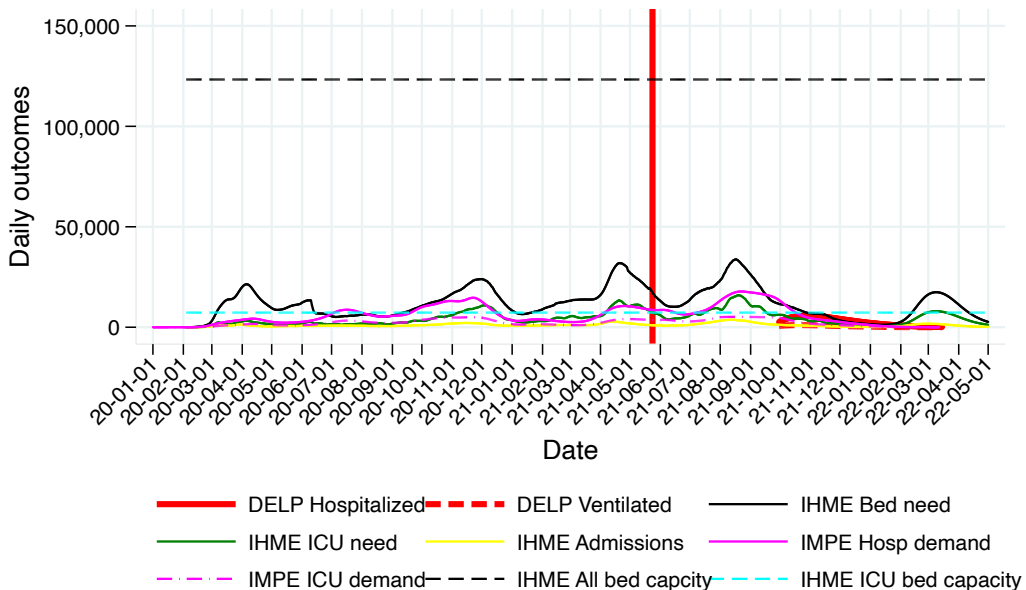


COVID-19 daily hospital-related outcomes Iran



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

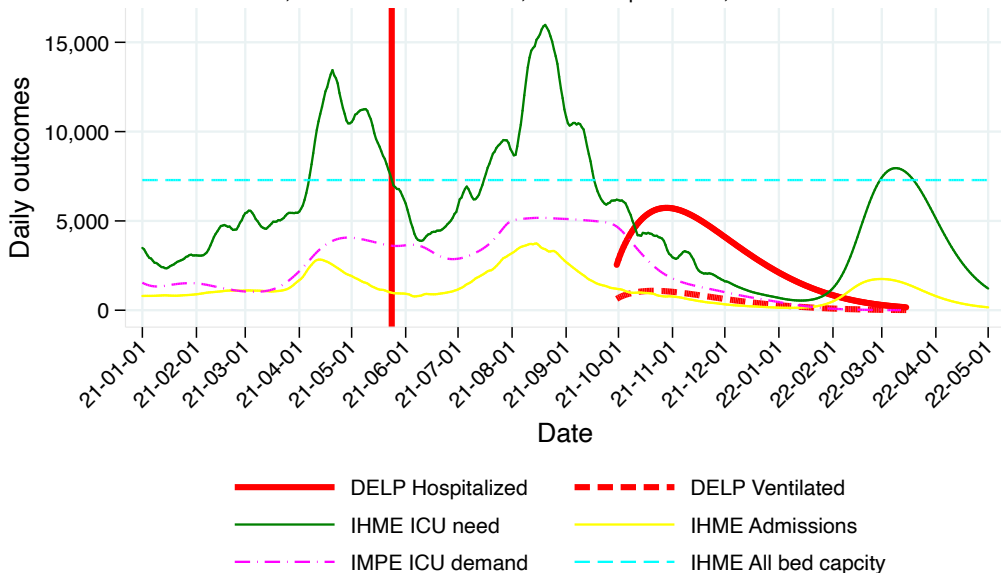
COVID-19 daily hospital-related outcomes Iran



- 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



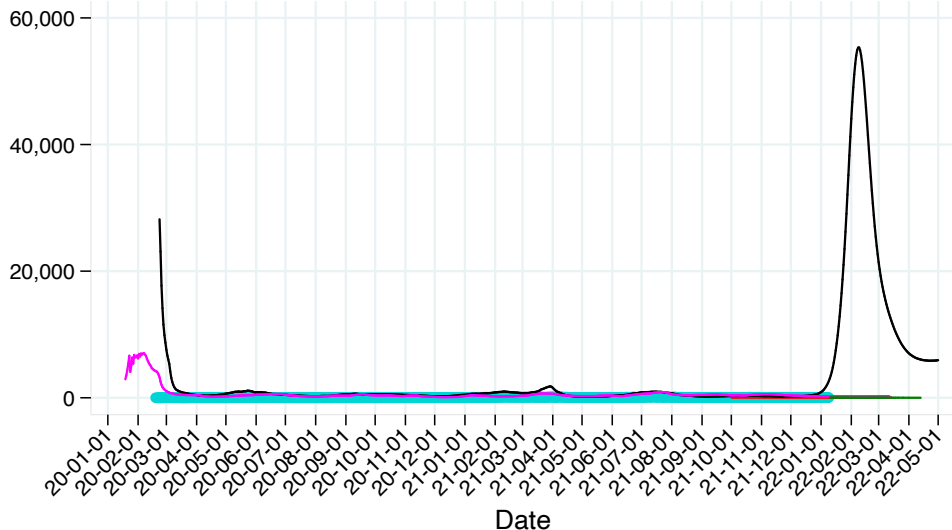
- Uncertainty limits: dashed curves.

- 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

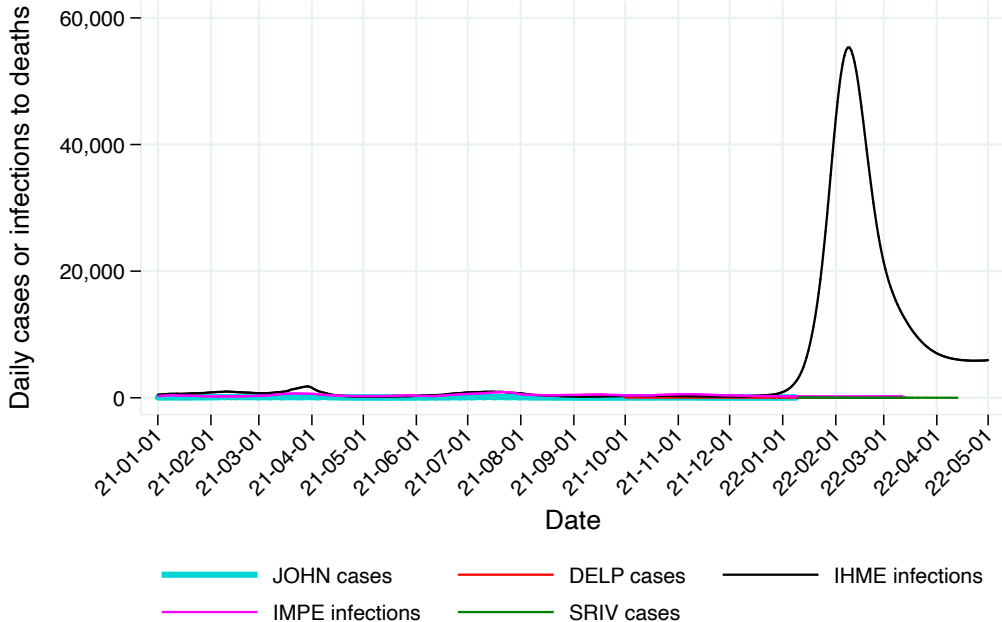
Daily cases or infections to deaths



JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

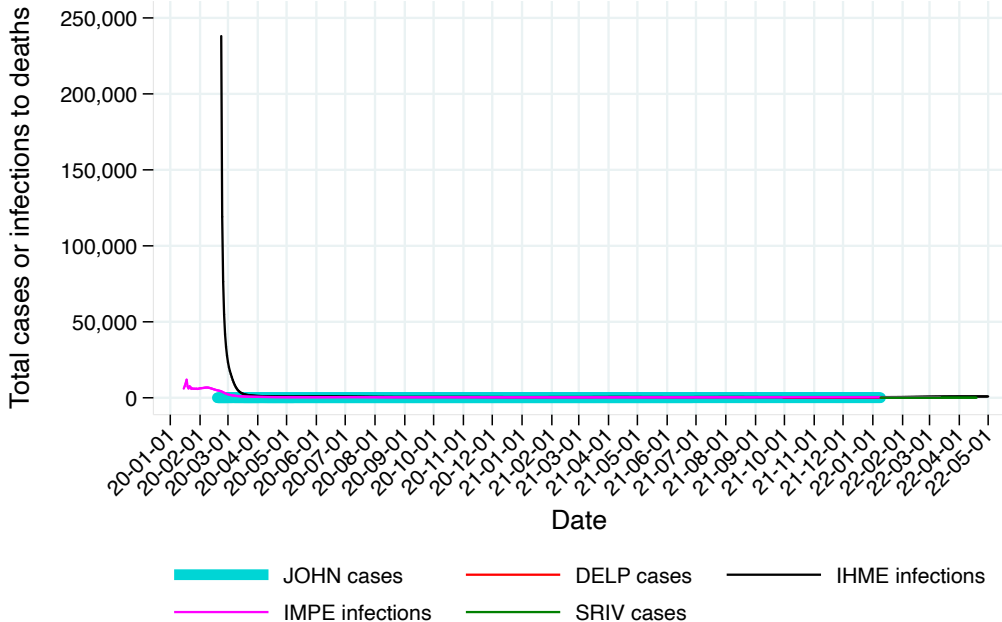
COVID-19 daily cases or infections, to deaths, Iran

2021 on, reference scenarios



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

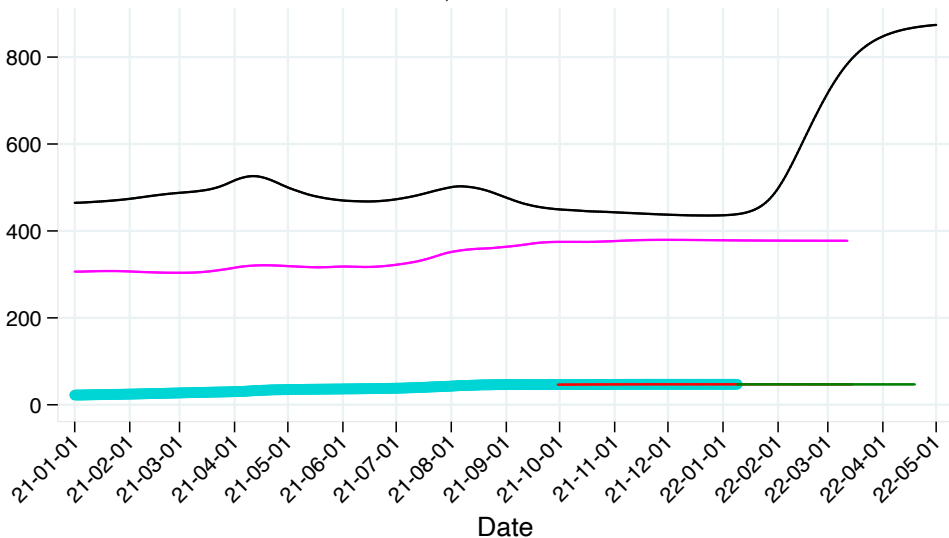
reference scenarios



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

2021 on, reference scenarios

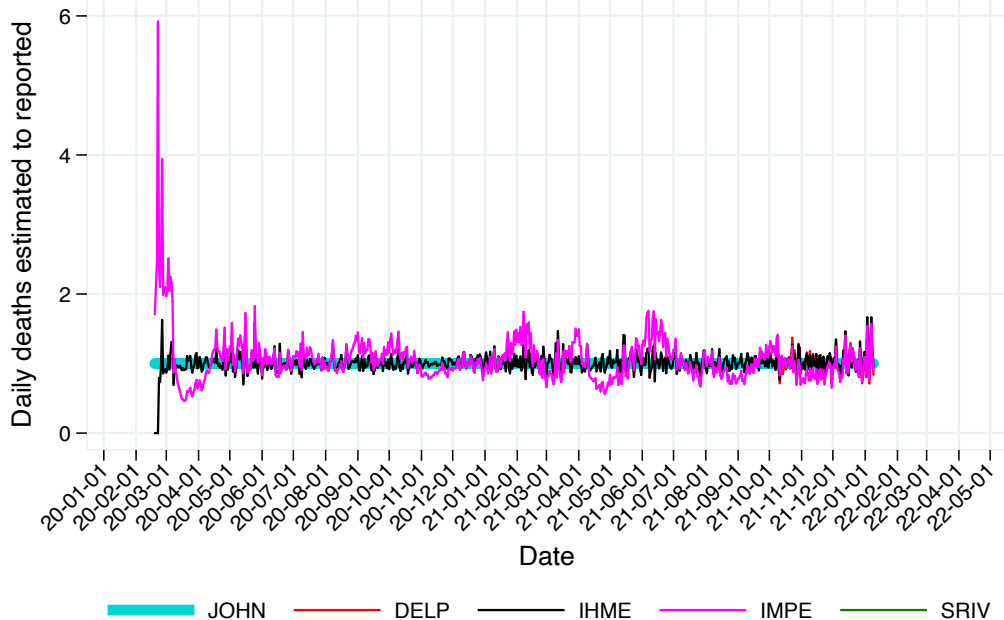
Total cases or infections to deaths



JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

COVID-19 daily deaths, estimated to reported, Iran

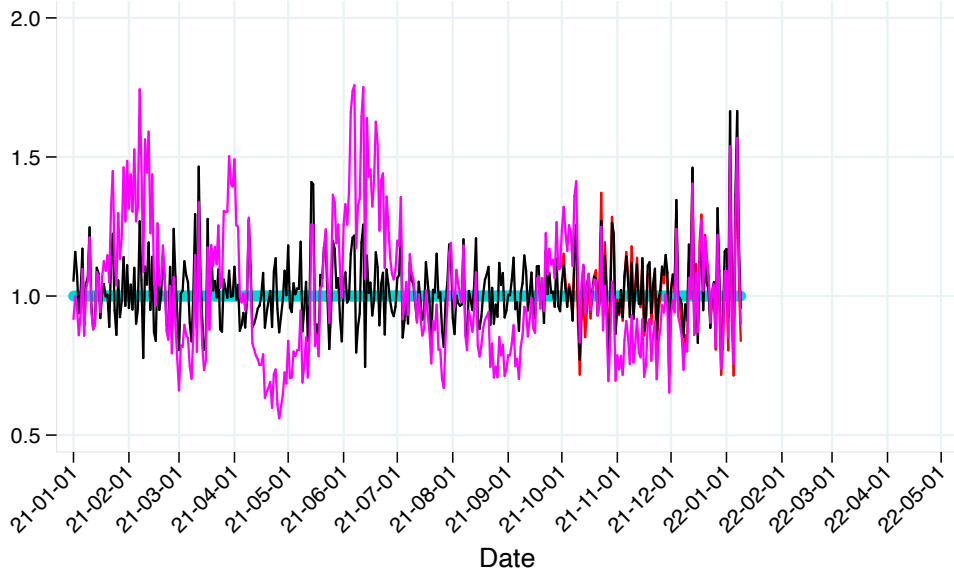
reference scenarios



COVID-19 daily deaths, estimated to reported, Iran

reference scenarios

Daily deaths estimated to reported

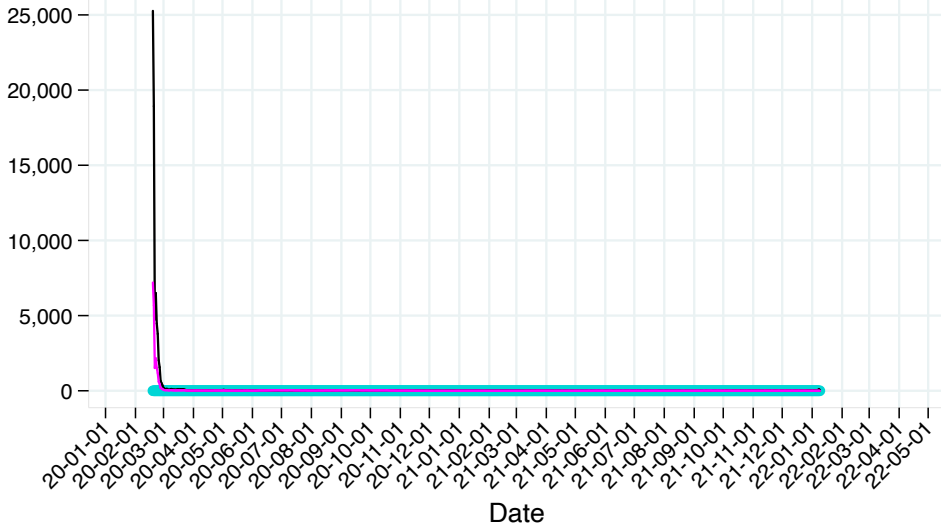


JOHN DELP IHME IMPE SRIV

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

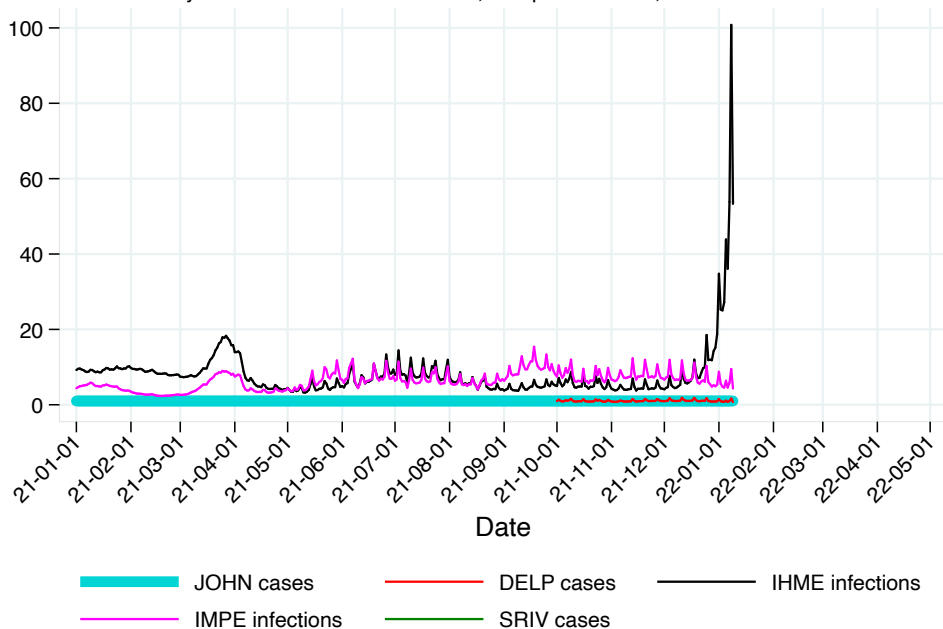


JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

Daily cases or infections estimated to reported

COVID-19 daily cases estimated to reported, Iran

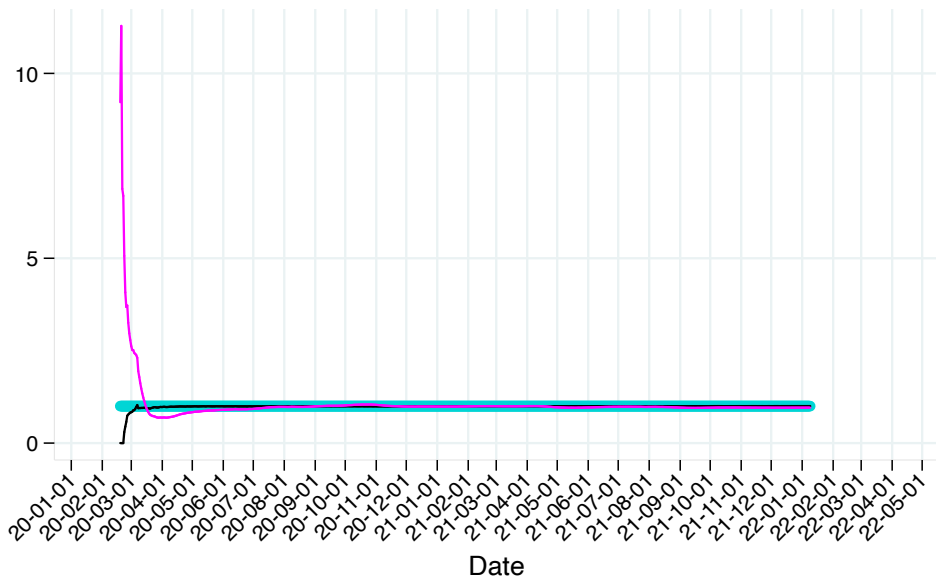
daily cases or infections estimated, to reported cases; reference scenarios



COVID-19 total deaths, estimated to reported, Iran

reference scenarios

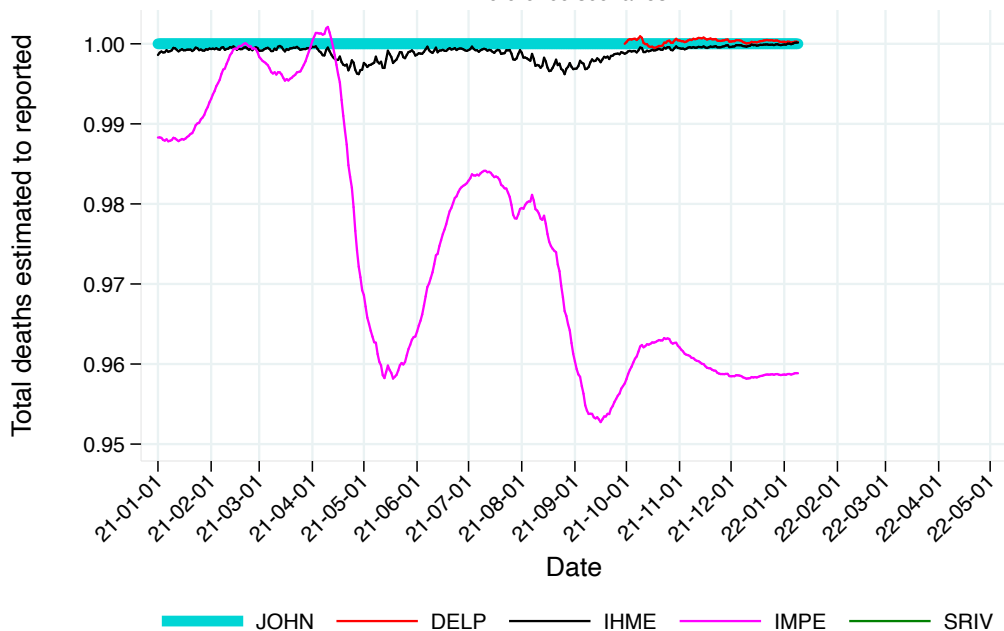
Total deaths estimated to reported



JOHN DELP IHME IMPE SRIV

COVID-19 total deaths, estimated to reported, Iran

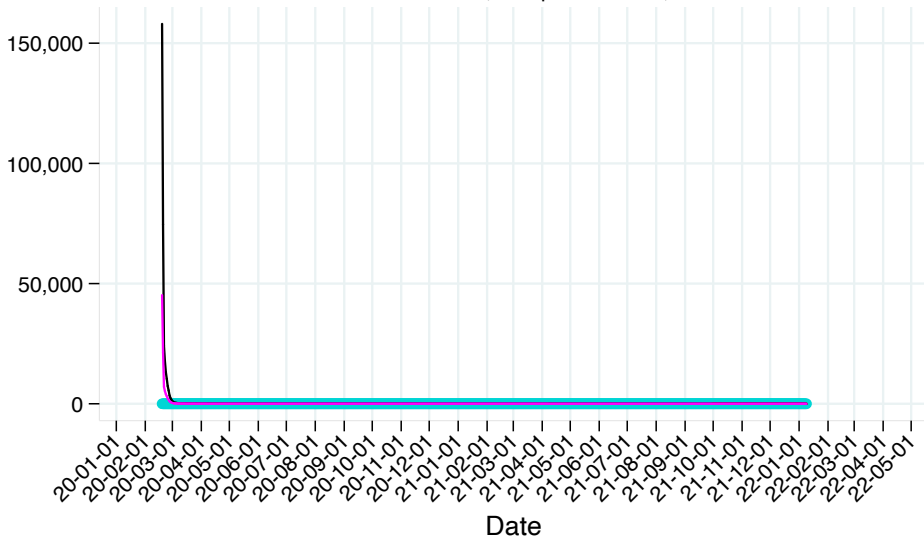
reference scenarios



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

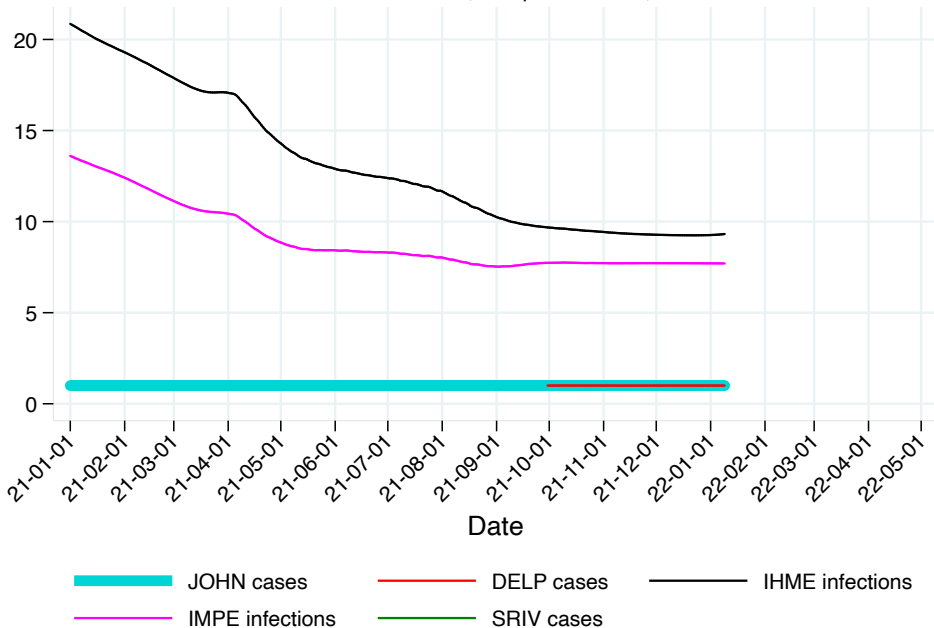


JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

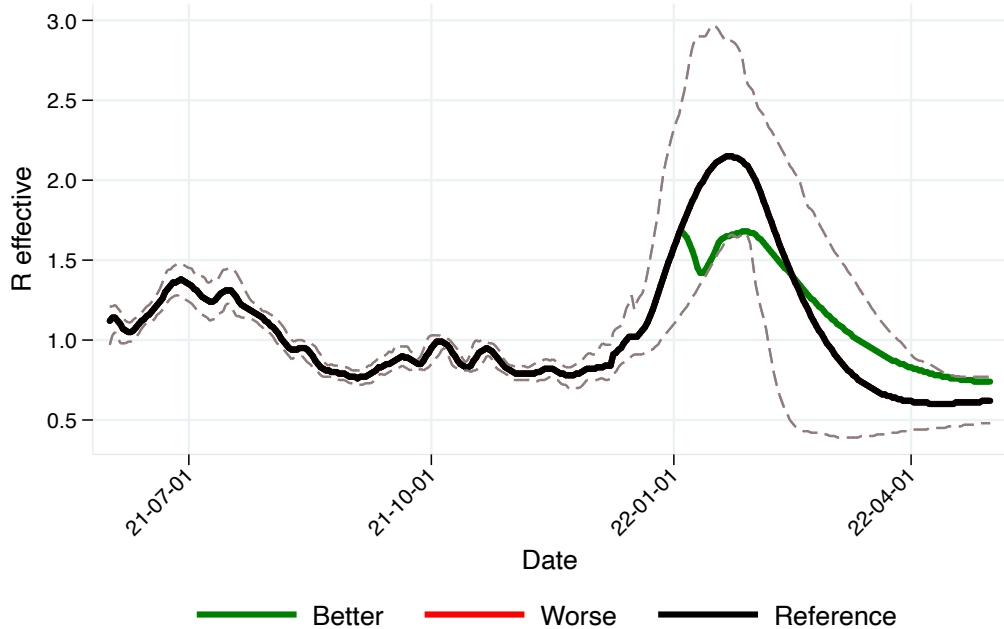
COVID-19 total cases estimated to reported, Iran

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

Total cases or infections estimated to reported

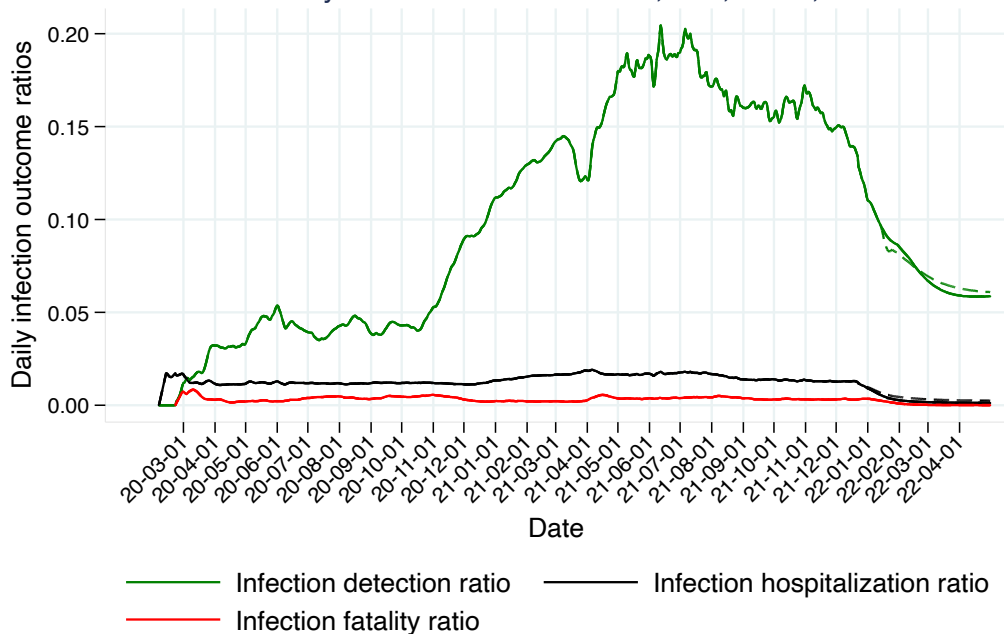


COVID-19 R effective, Iran, IHME, 3 scenarios



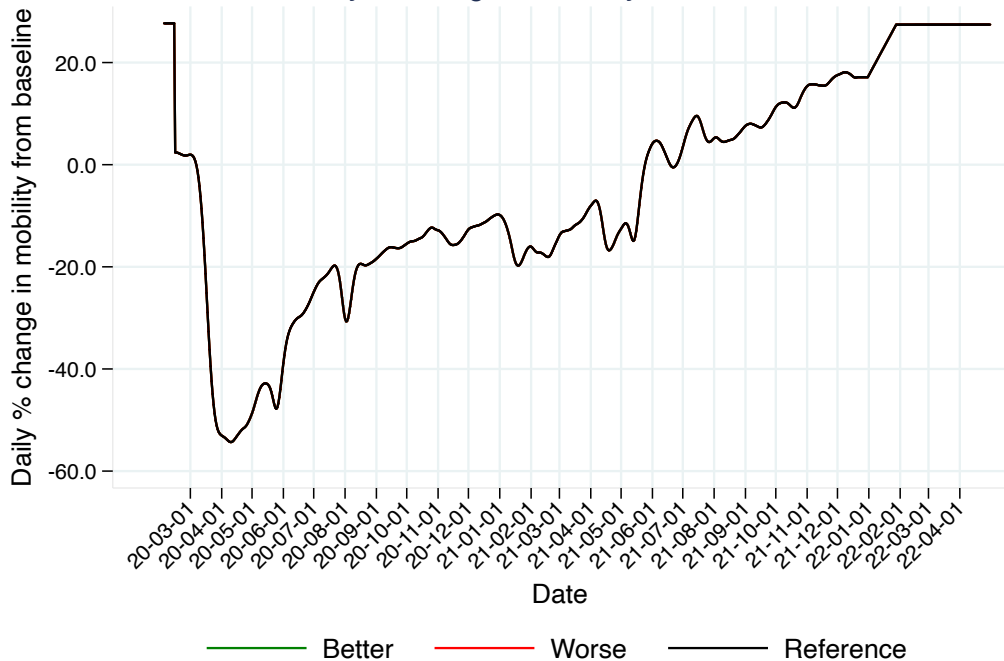
Uncertainty limits: dashed curves

COVID-19 daily infection outcome ratios, Iran, IHME, 3 scenarios



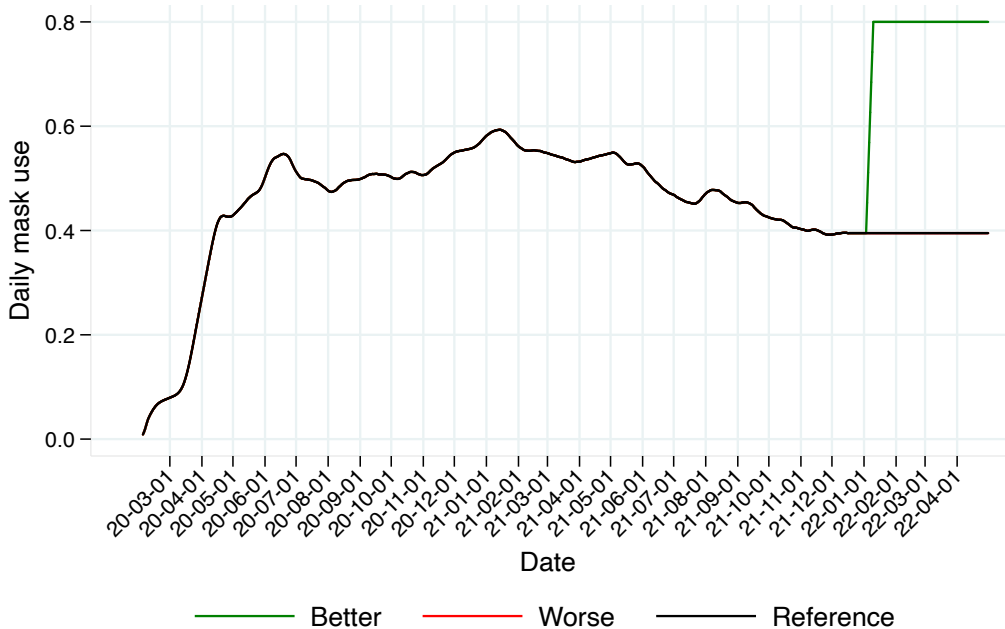
Better and worse scenarios: dashed curves

COVID-19 daily % change in mobility, Iran, IHME, 3 scenarios

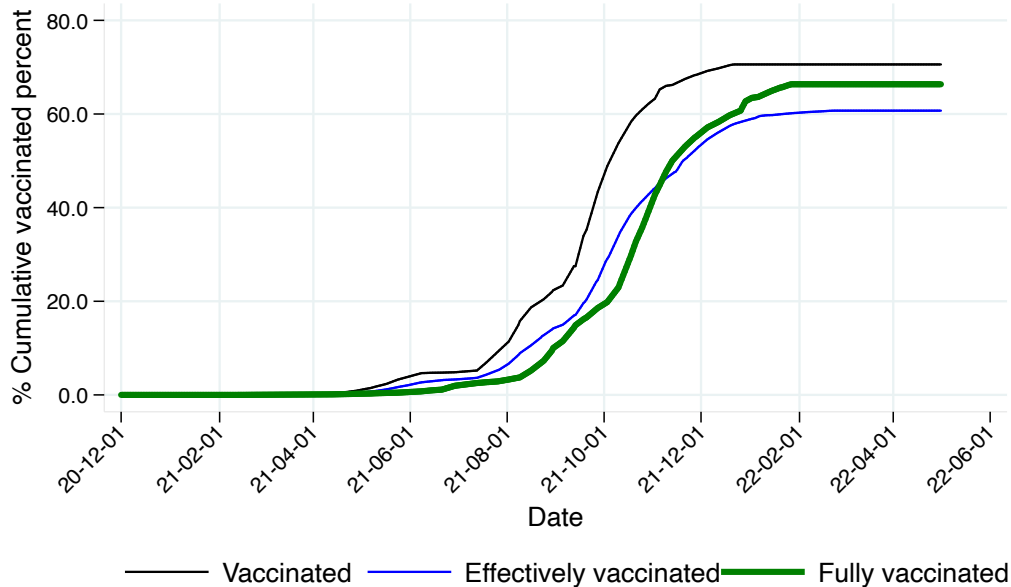


COVID-19 daily mask use, Iran, IHME, 3 scenarios

Percent of population reporting always wearing a mask when leaving home



COVID-19 cumulative vaccinated percent, Iran, IHME, 3 scenarios

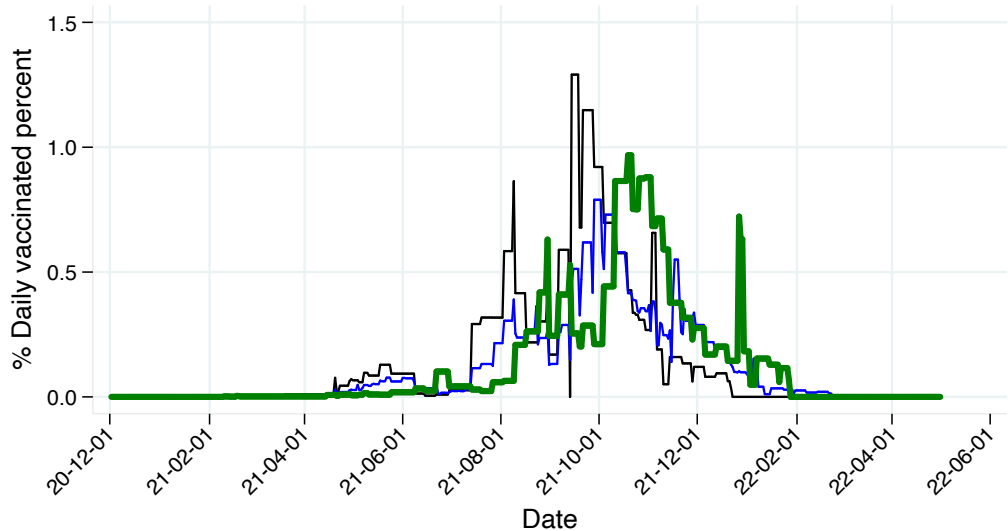


Vaccinated: Initially vaccinated (one dose of two doses)

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, 3 scenarios



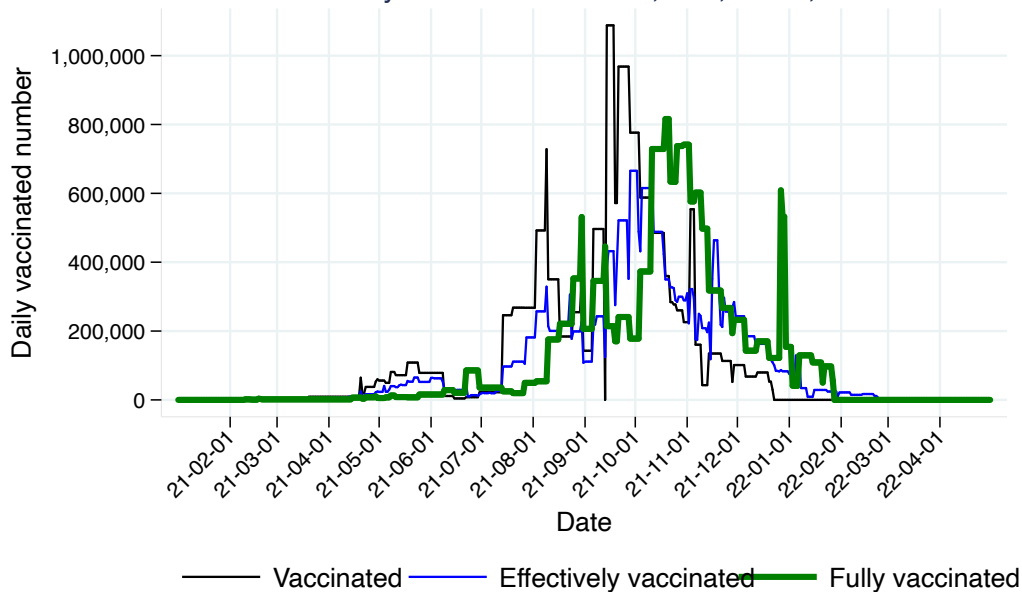
— Vaccinated — Effectively vaccinated — Fully vaccinated

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, 3 scenarios

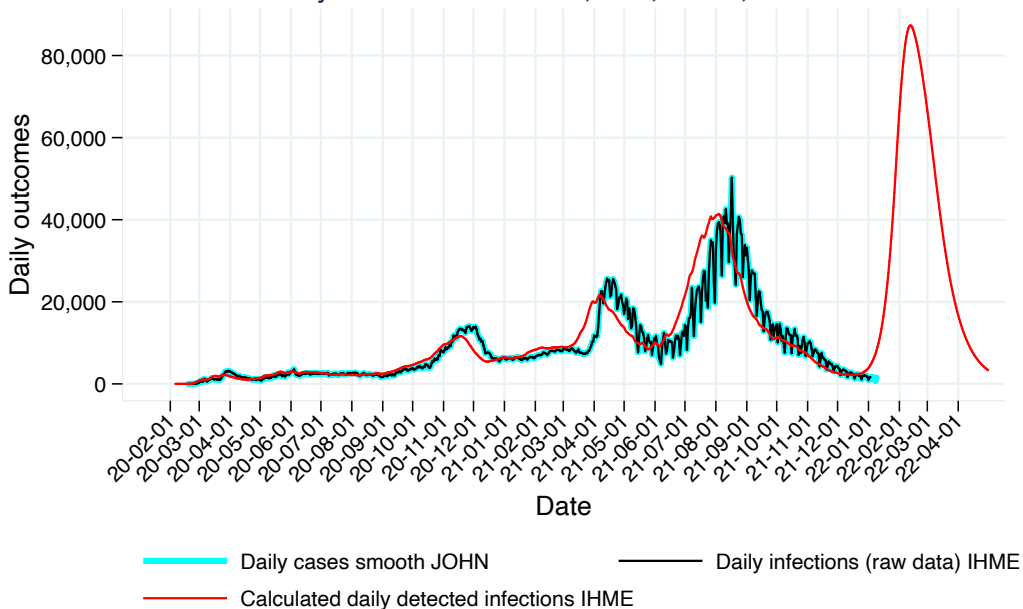


Vaccinated: Initially vaccinated (one dose of two doses)

Effectively vaccinated: one and two dose with efficacy

Fully vaccinated: one of one and two of two doses

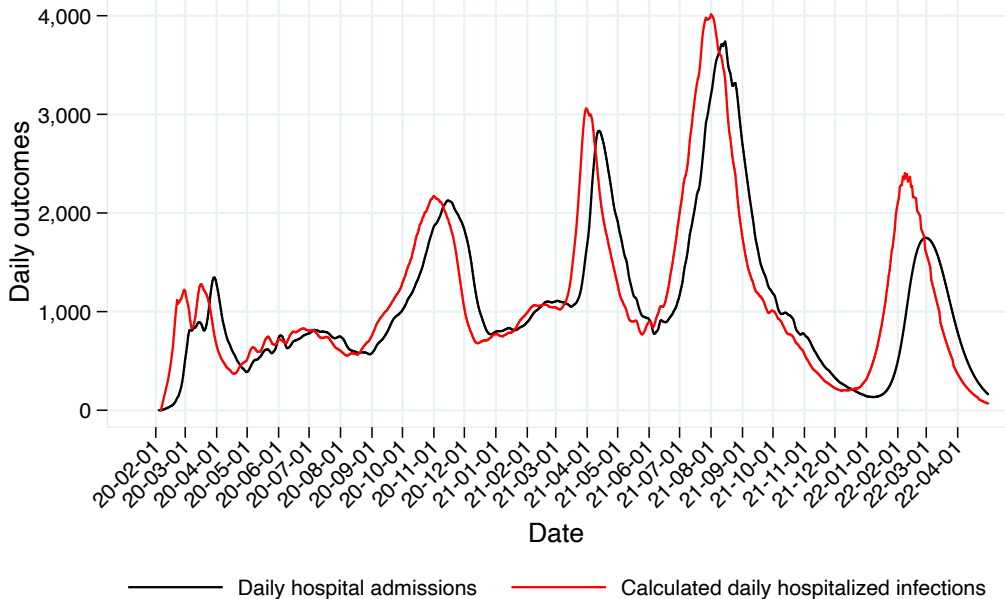
COVID-19 daily detected infections, Iran, IHME, reference scenario



Reference scenario = Current projection;

Calculated daily detected infections = Daily infections * Infection detection ratio

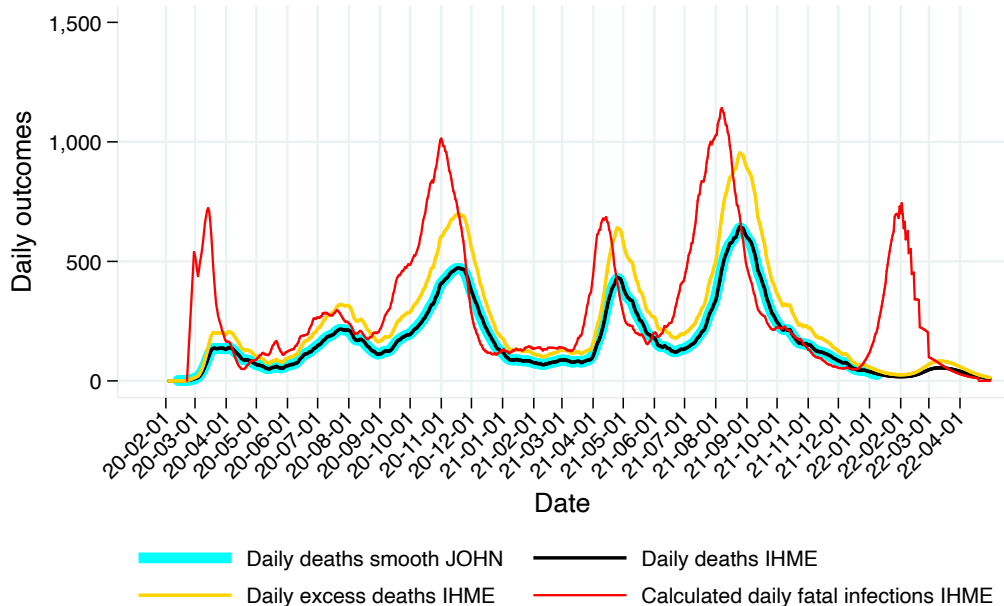
COVID-19 daily hospitalized infections, Iran, IHME, reference scenario



Reference scenario = Current projection;

Calculated daily hospitalized infections = Daily infections * Infection hospitalization ratio

COVID-19 daily fatal infections, Iran, IHME, reference scenario



Reference scenario = Current projection;

Calculated daily fatal infections = Daily infections * Infection fatality ratio