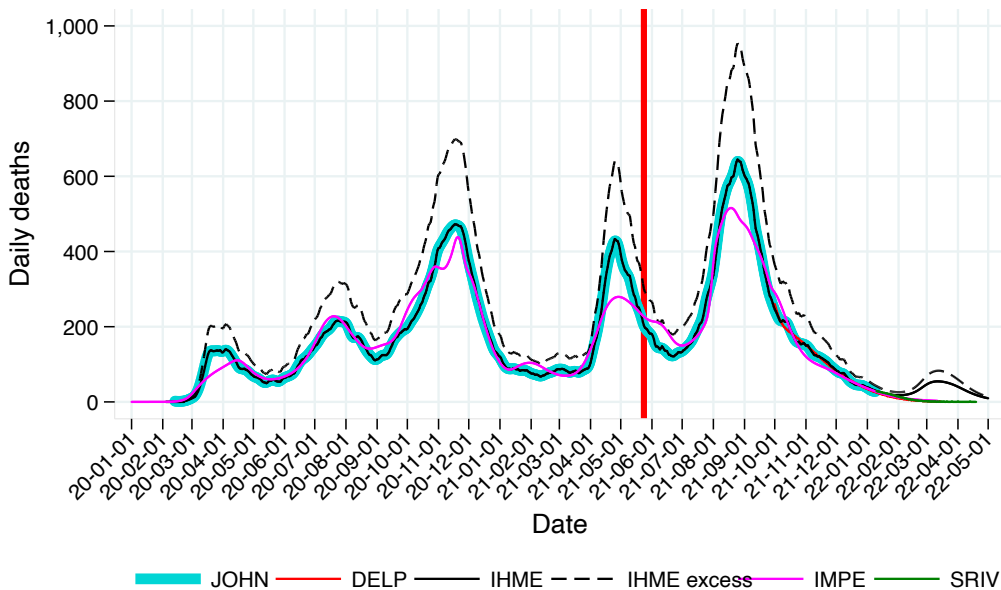


# COVID-19 daily deaths, Iran

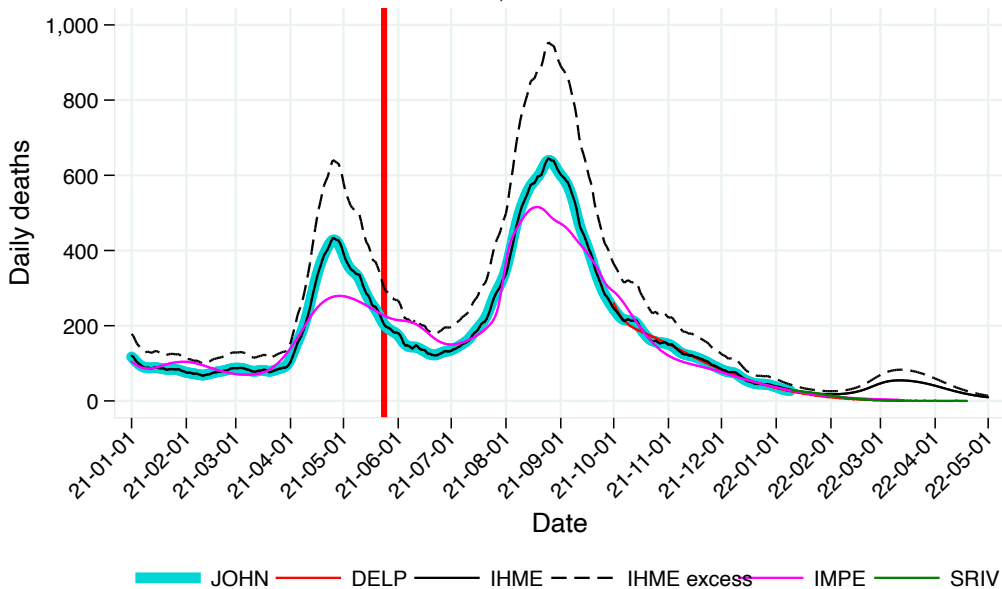
reference scenarios



- 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

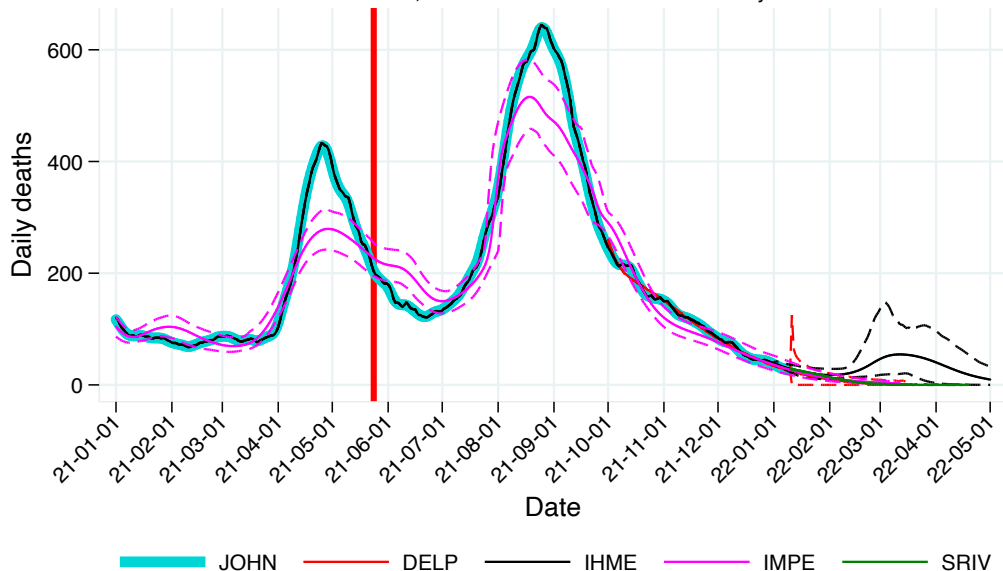
2021 on, reference scenarios



- 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

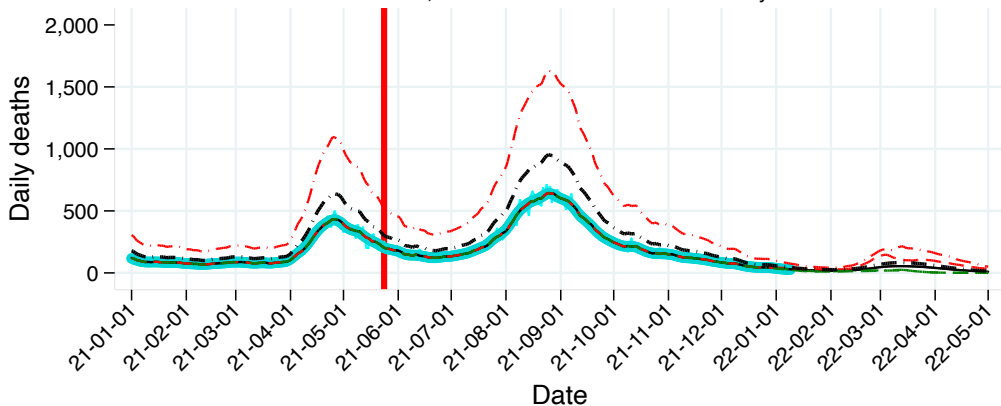


- Uncertainty limits: dashed curves

- 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

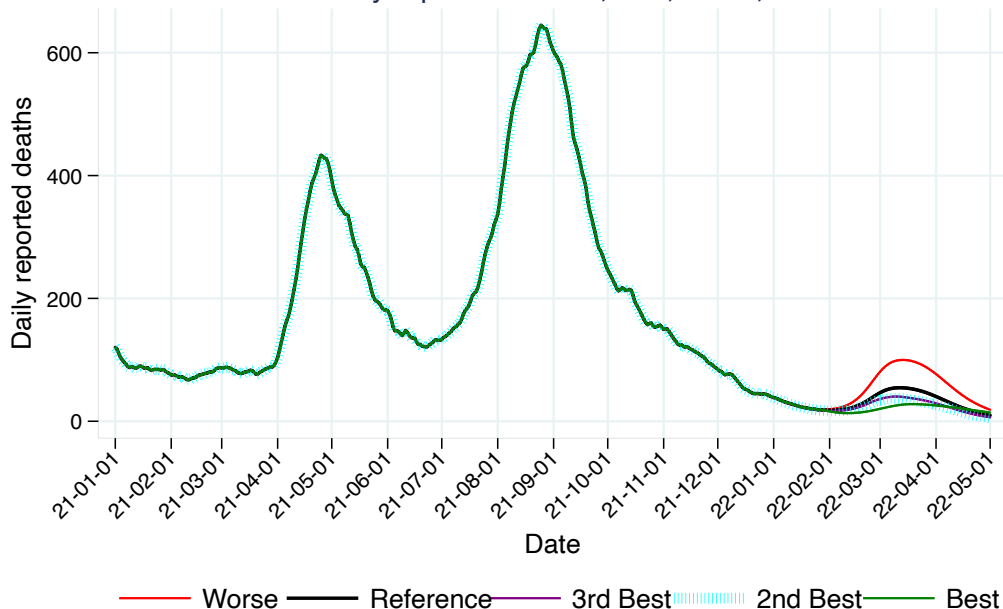
2021 on, reference scenario with uncertainty



- 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

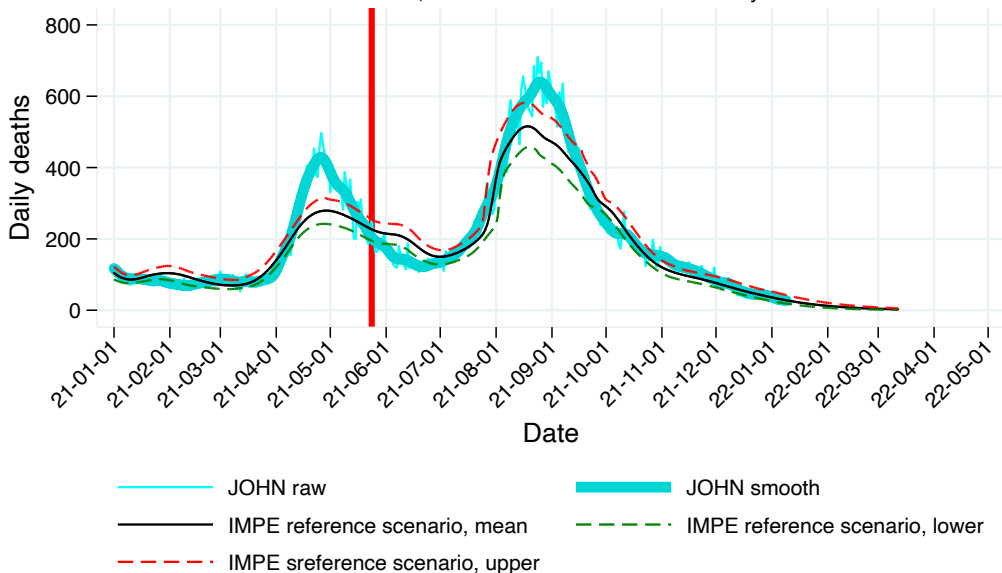


Worse = High severity of Omicron; Reference = Current projection

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

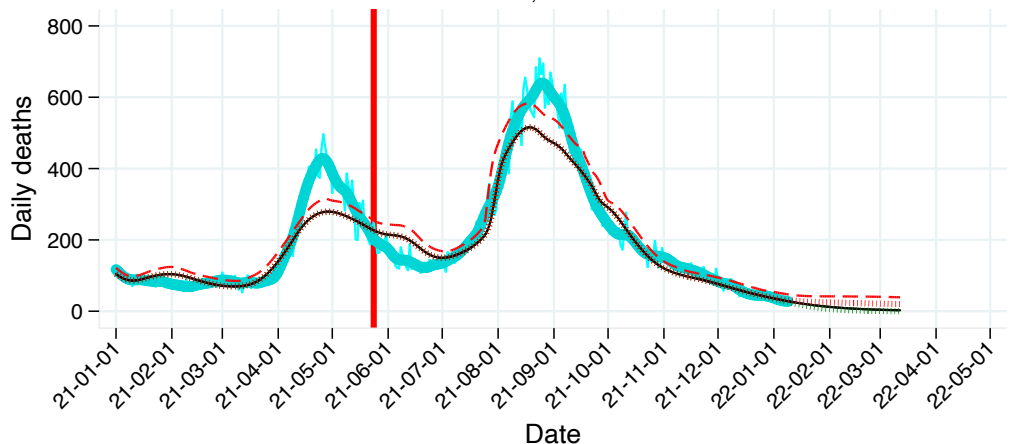


- Uncertainty limits: dashed (---) curves.

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

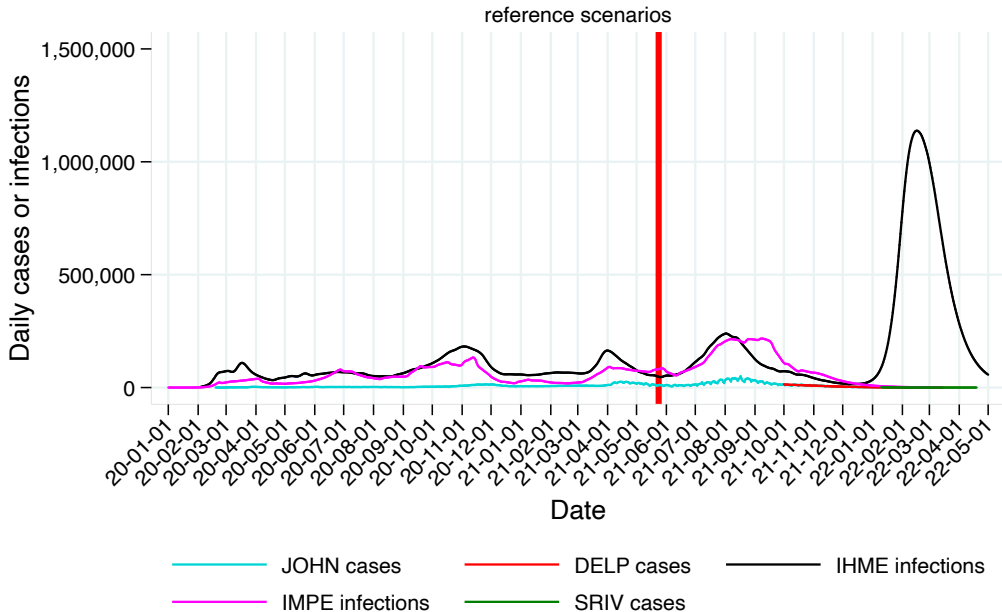
# COVID-19 daily deaths, Iran, IMPE

2021 on, 3 scenarios



- JOHN raw
  - JOHN smooth
  - IMPE reference scenario, mean
  - IMPE better scenario, mean
  - IMPE worse scenario, mean
  - IMPE worse scenario, upper uncertainty limit
- 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

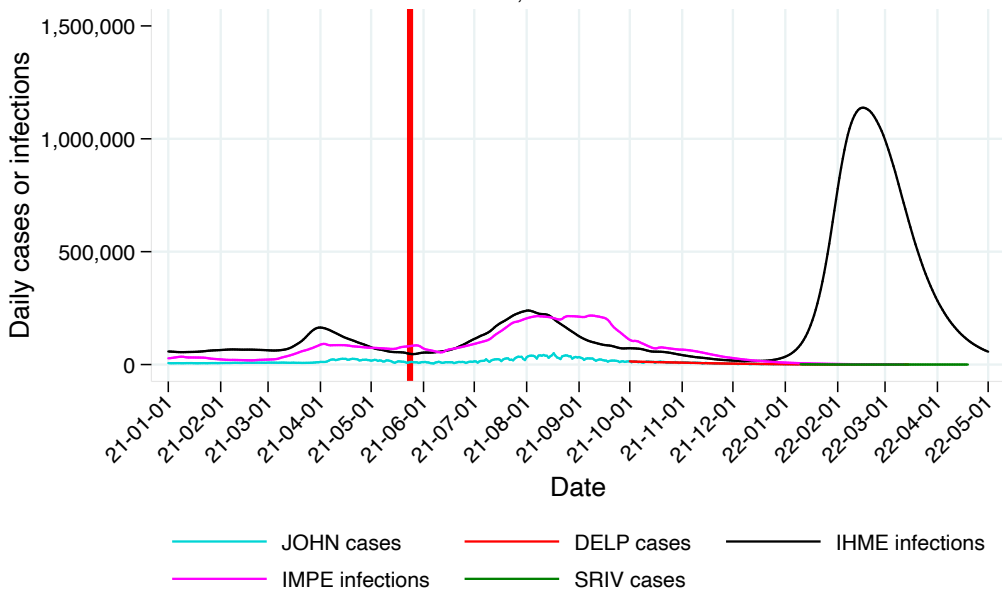


- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.



# COVID-19 daily cases or infections, Iran

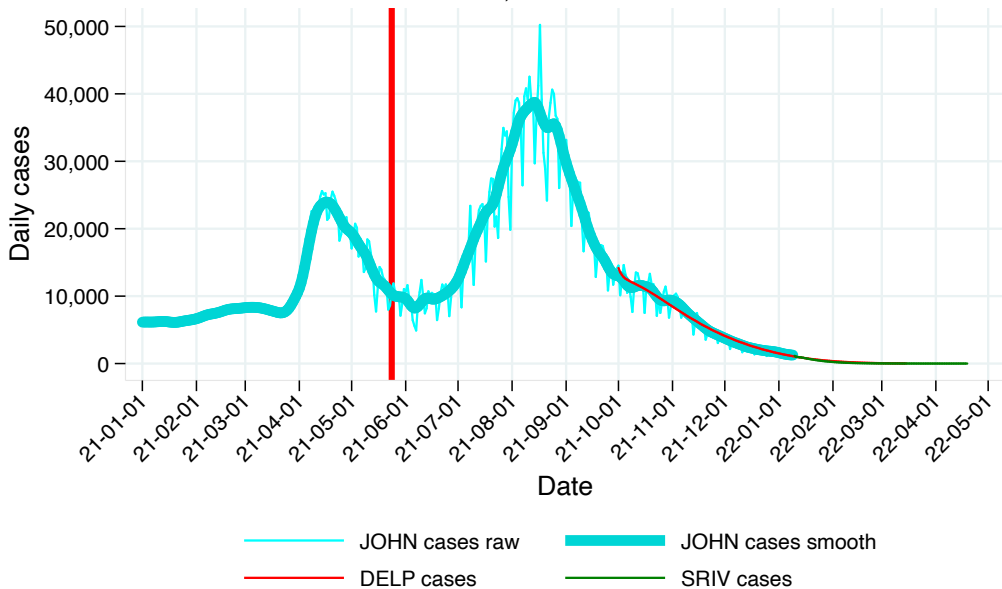
2021 on, reference scenarios



- 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

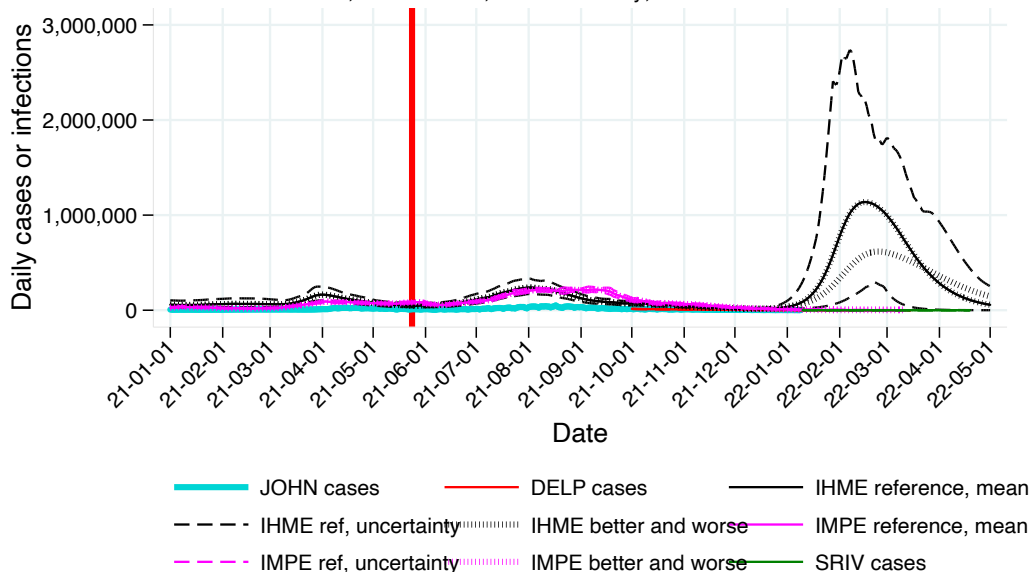
2021 on, reference scenarios



- 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

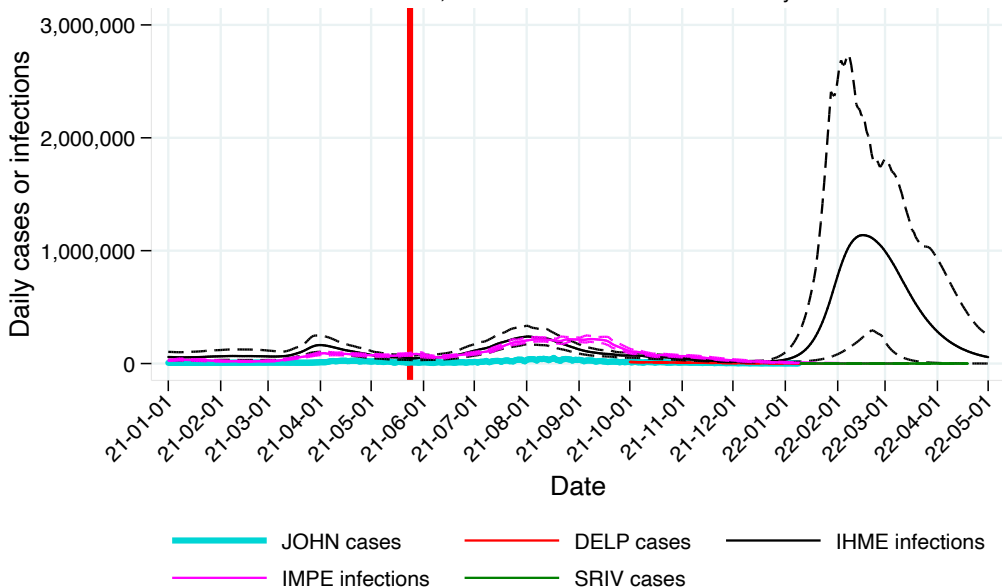


- Uncertainty limits: dashed (---) curves; Better and worse scenarios: tight dot (||||) curves.

- 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

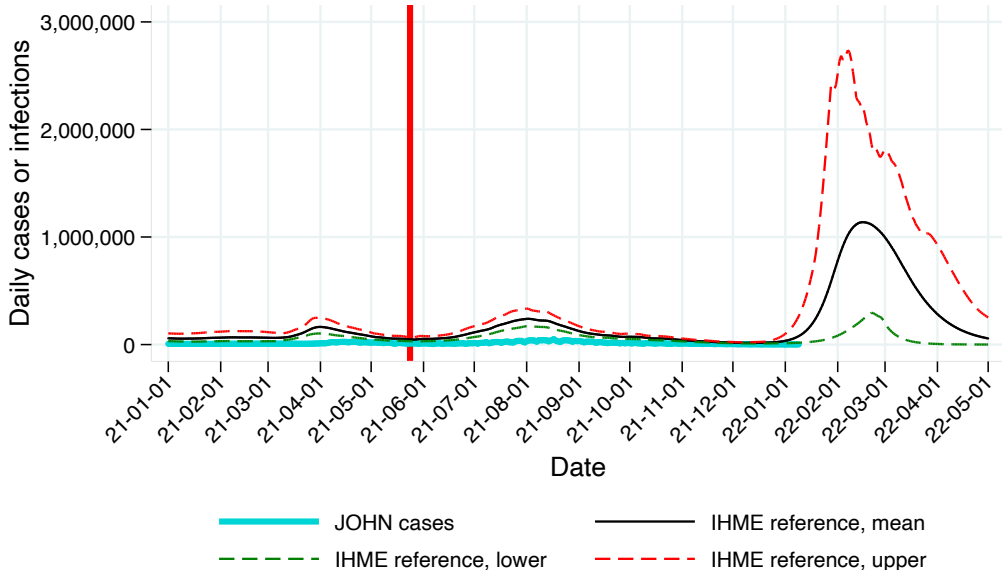
2021 on, reference scenarios with uncertainty



- 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

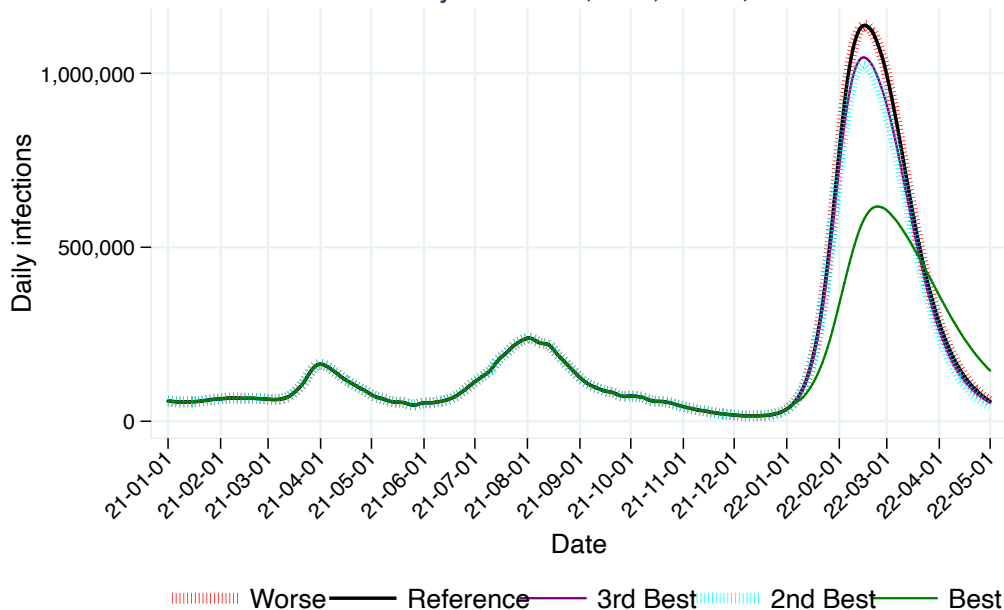
2021 on, IHME infections reference scenario with uncertainty



- 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.

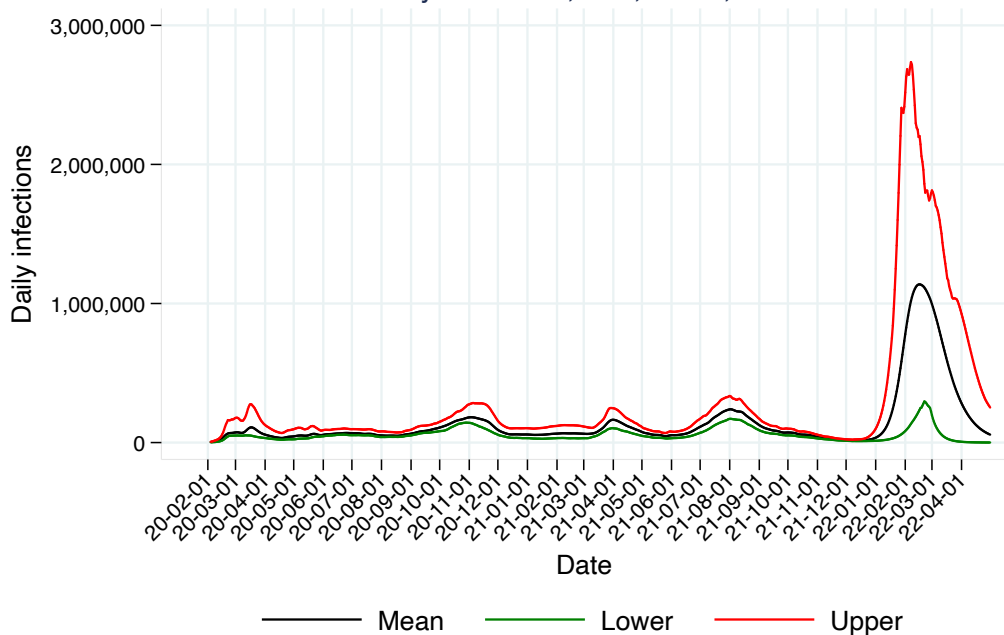
## COVID-19 daily infections, Iran, IHME, 5 scenarios



Worse = High severity of Omicron; Reference = Current projection

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

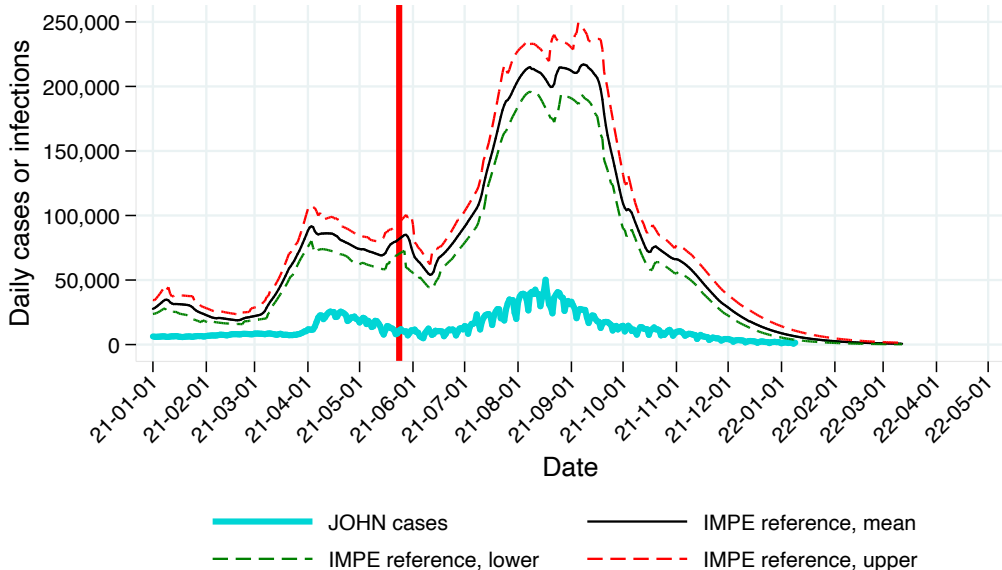
## COVID-19 daily infections, Iran, IHME, worse scenario



Worse scenario = High severity of Omicron

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

2021 on, IMPE infections reference scenario with uncertainty



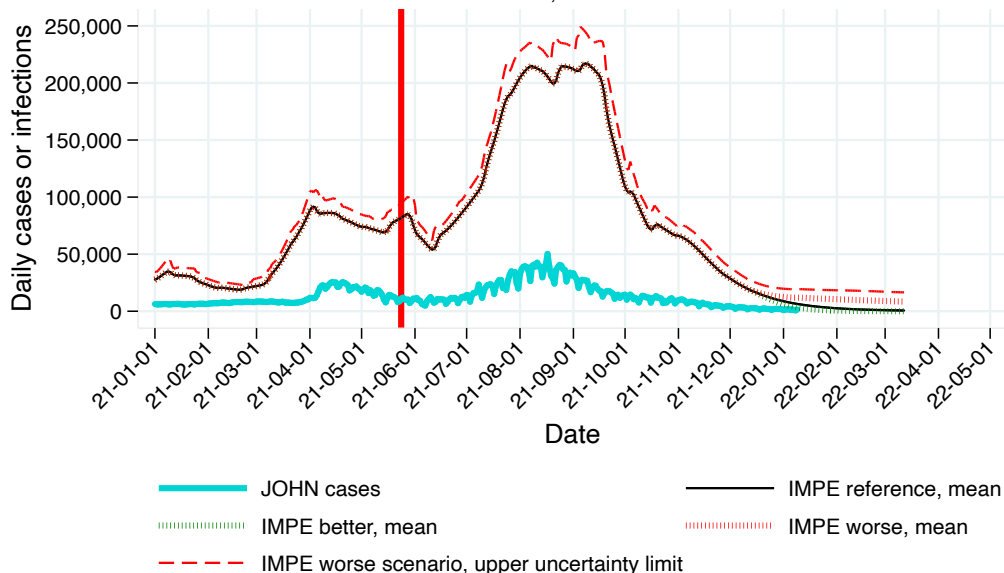
- Uncertainty limits: dashed (---) curves.

- 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

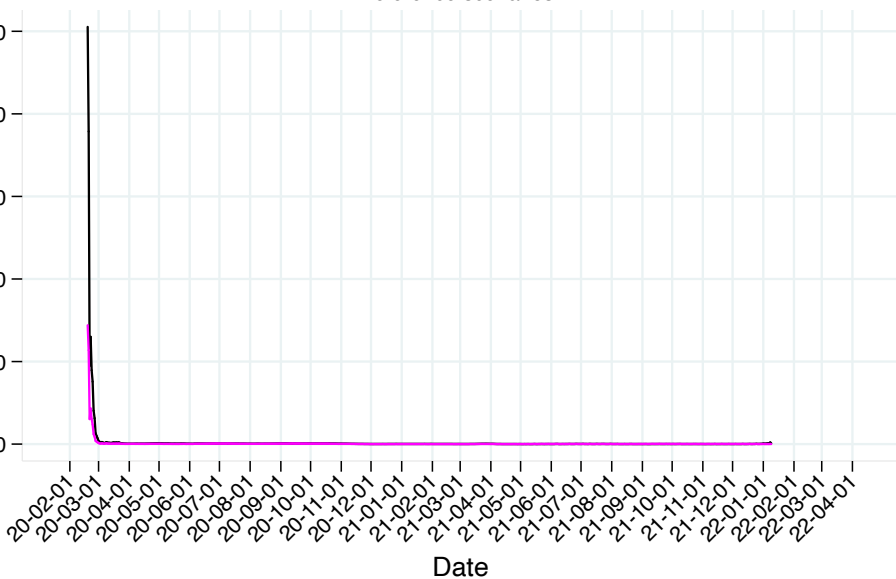


- Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves.
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

# COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

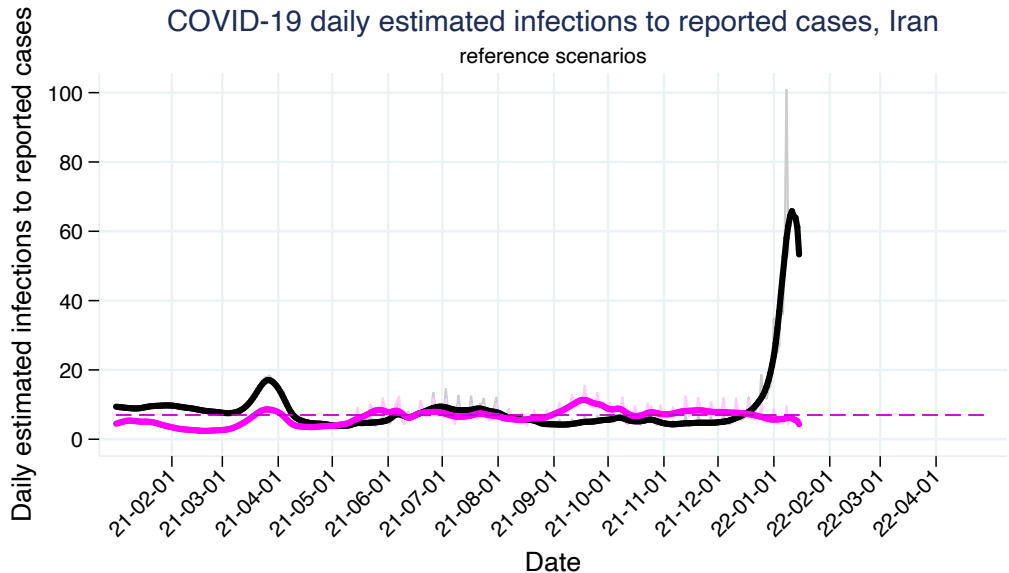
Daily estimated infections to reported cases



IHME IMPE

# COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

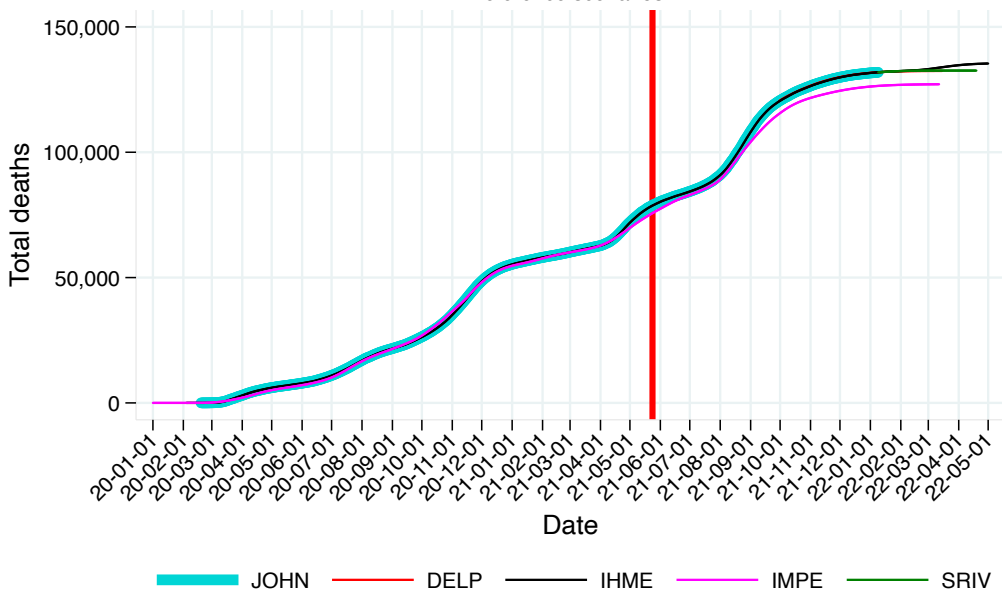


IHME IMPE IHME smooth IMPE smooth IHME smooth median IMPE smooth median

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

# COVID-19 total deaths, Iran

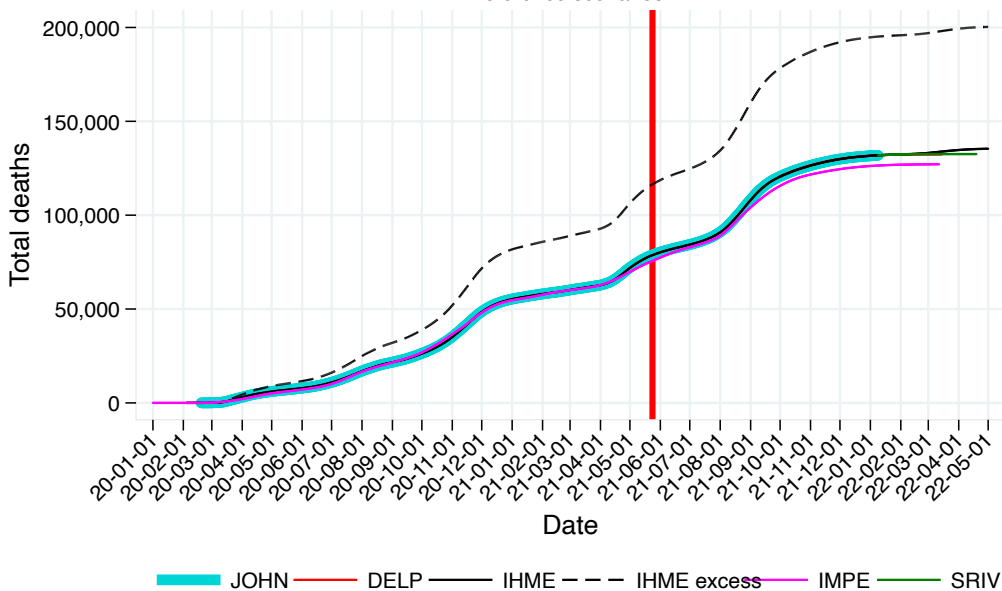
reference scenarios



- 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

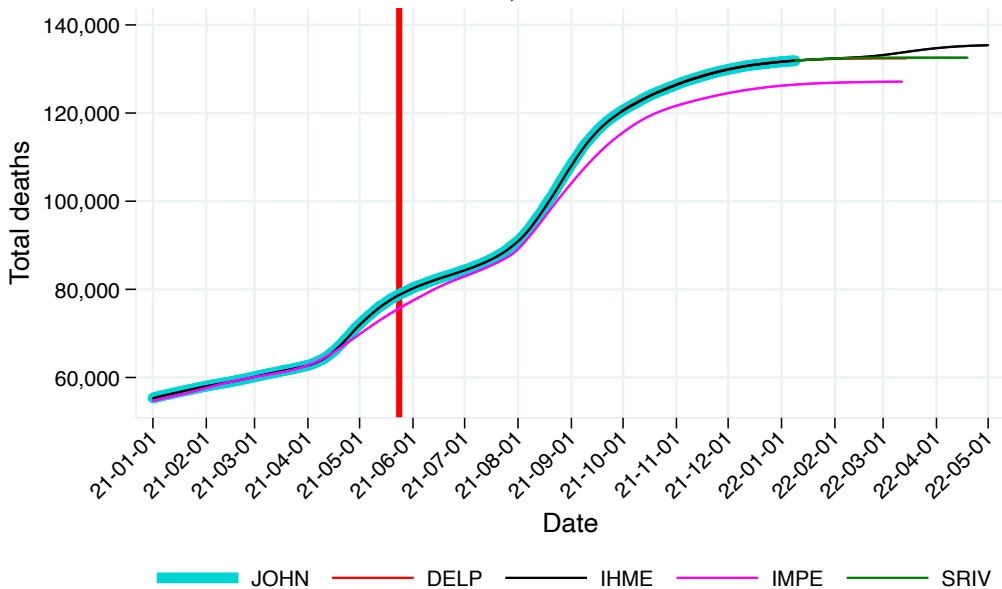
reference scenarios



- 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

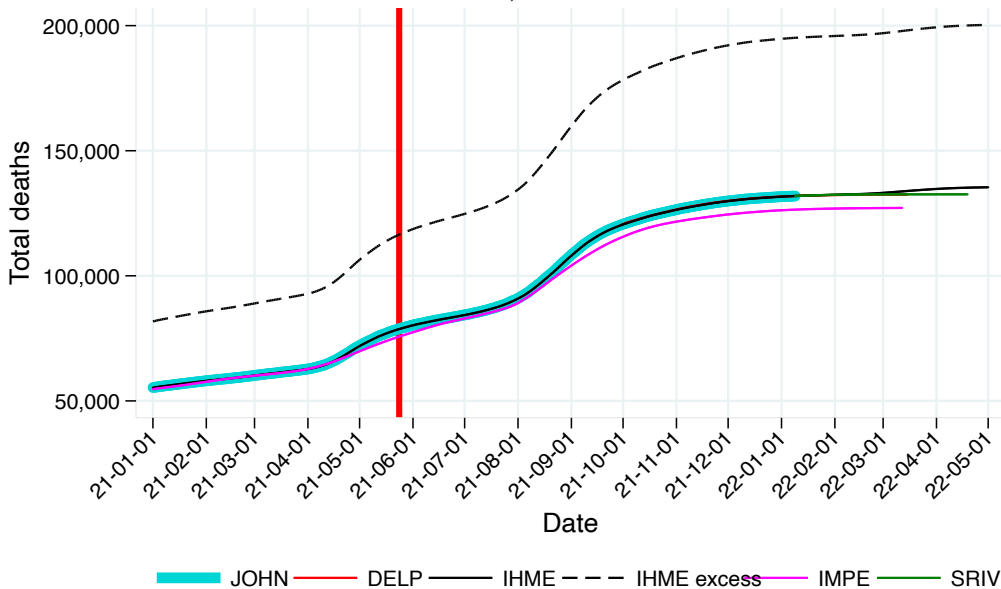
2021 on, reference scenarios



- 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

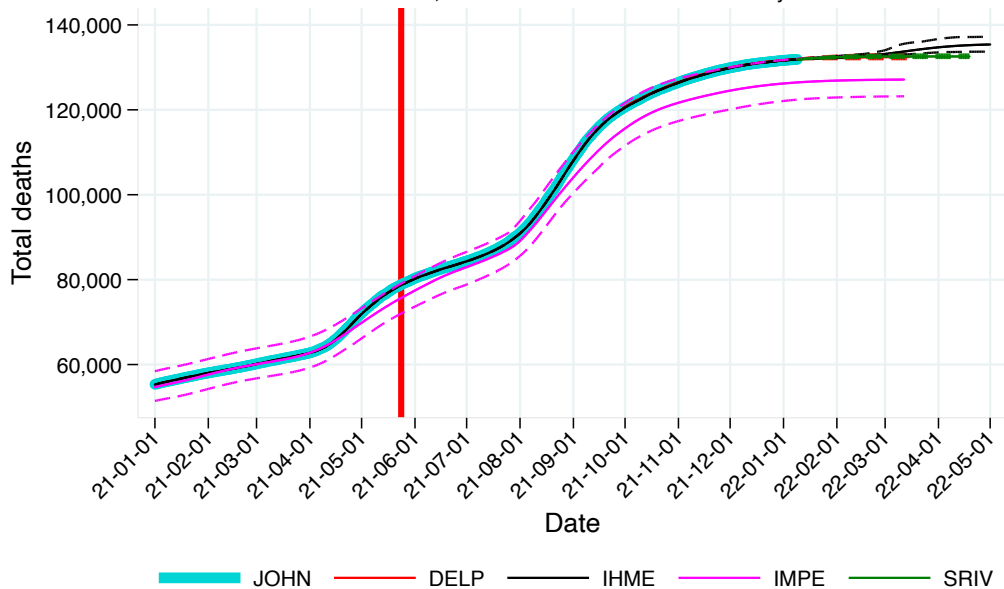
2021 on, reference scenarios



- 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

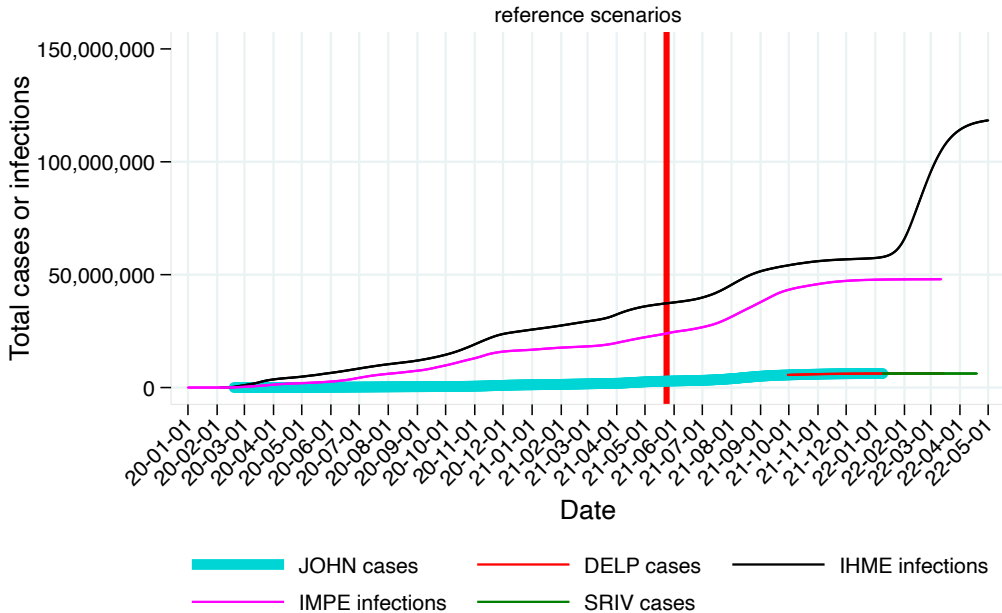
2021 on, reference scenarios with uncertainty



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



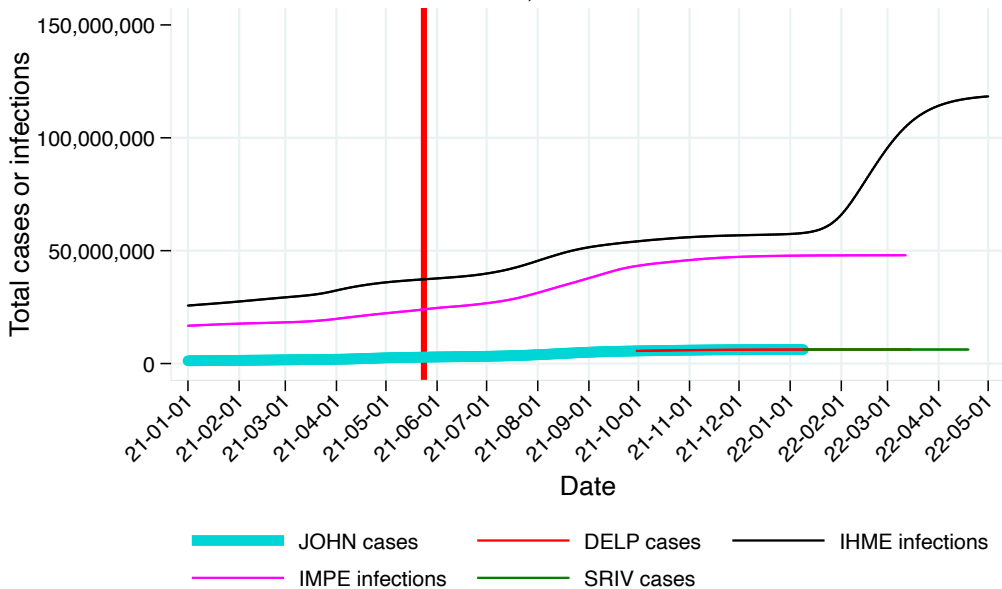
# COVID-19 total cases or infections, Iran



- 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

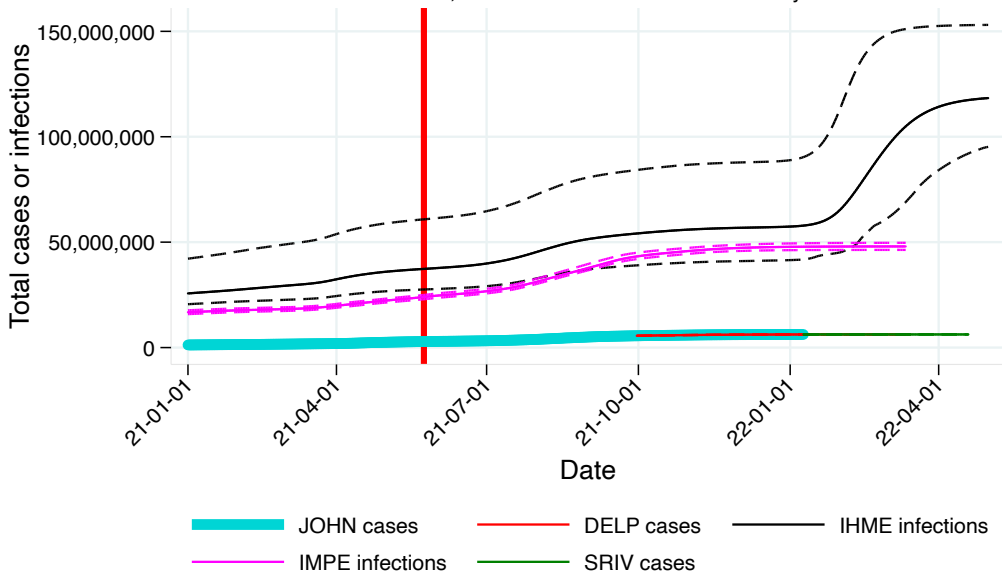
2021 on, reference scenarios



- 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

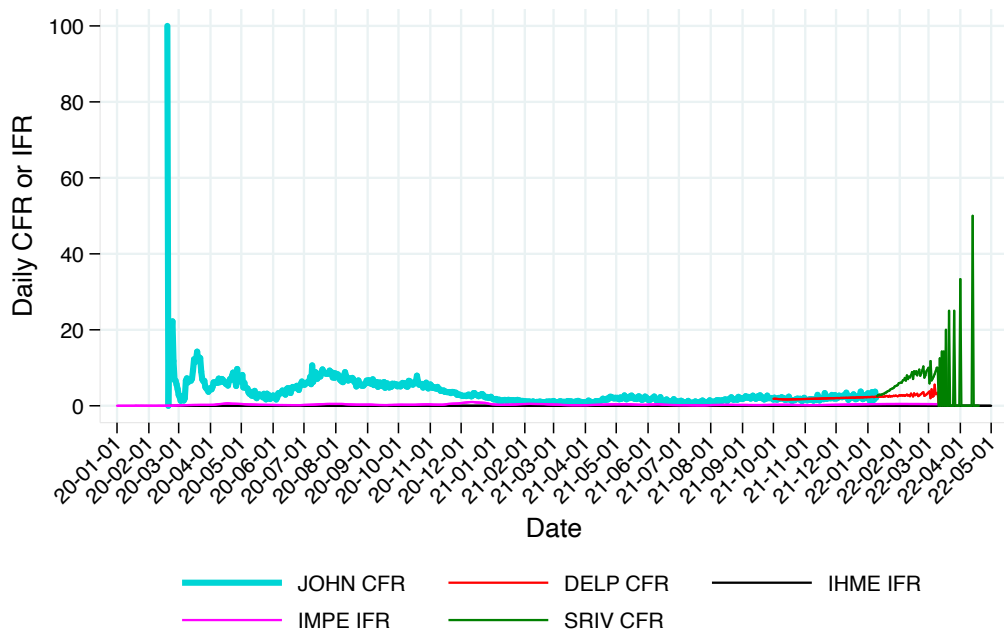
2021 on, reference scenarios with uncertainty



- Uncertainty limits: dashed curves.

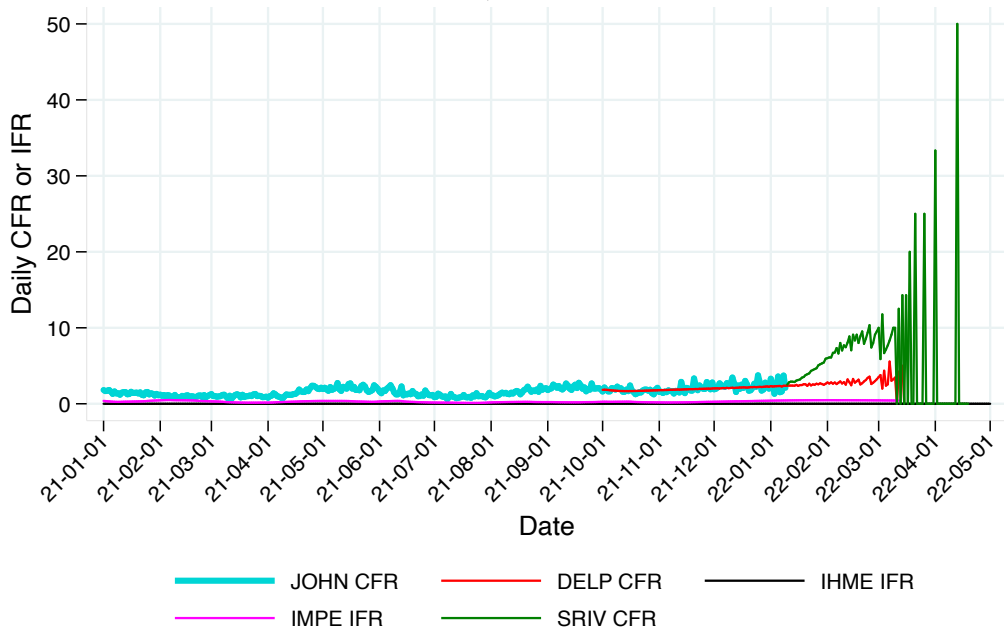
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

## COVID-19 daily CFR or IFR, Iran

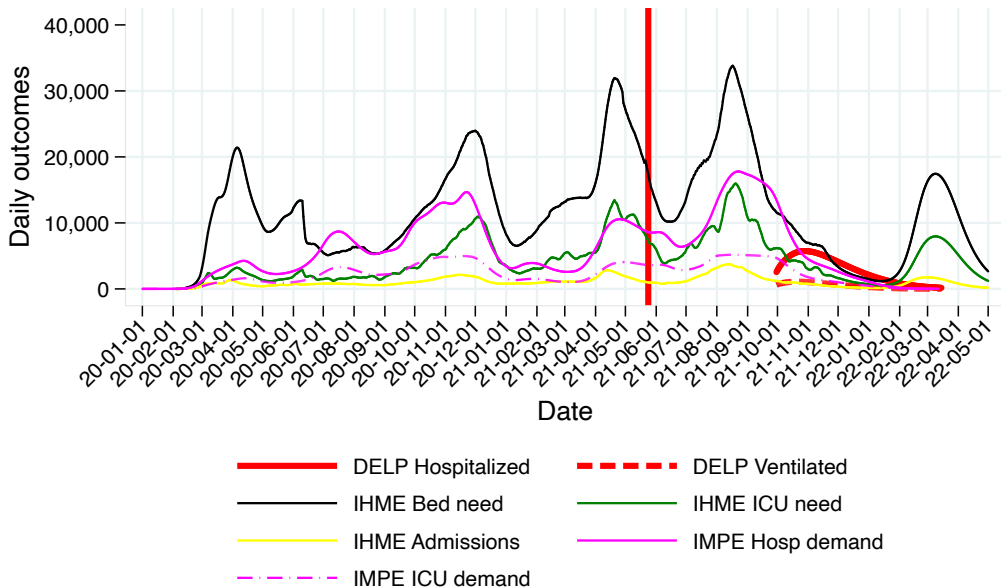


# COVID-19 daily CFR or IFR, Iran

2021 on, reference scenarios

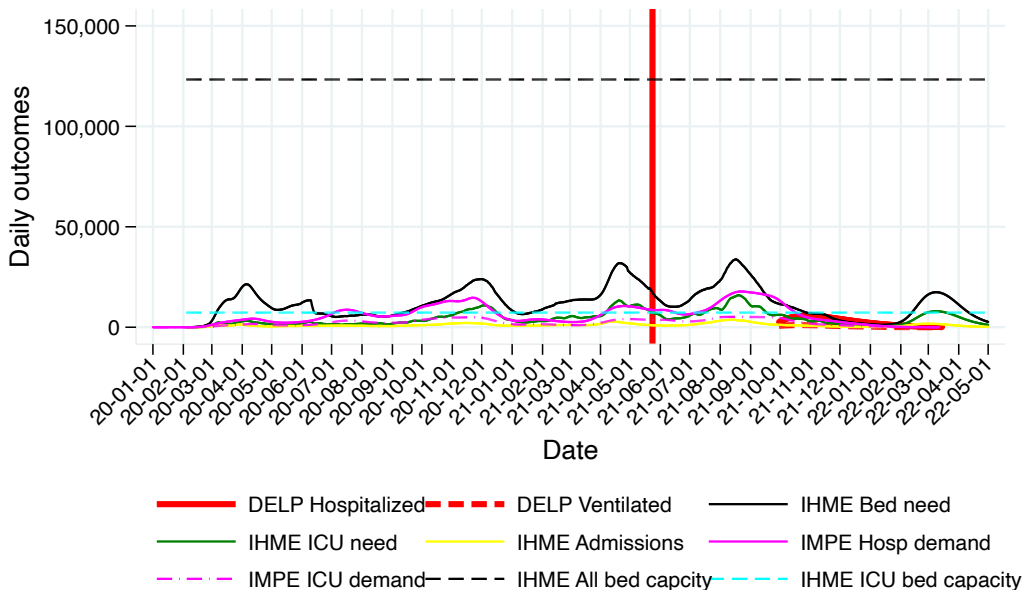


## COVID-19 daily hospital-related outcomes Iran



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

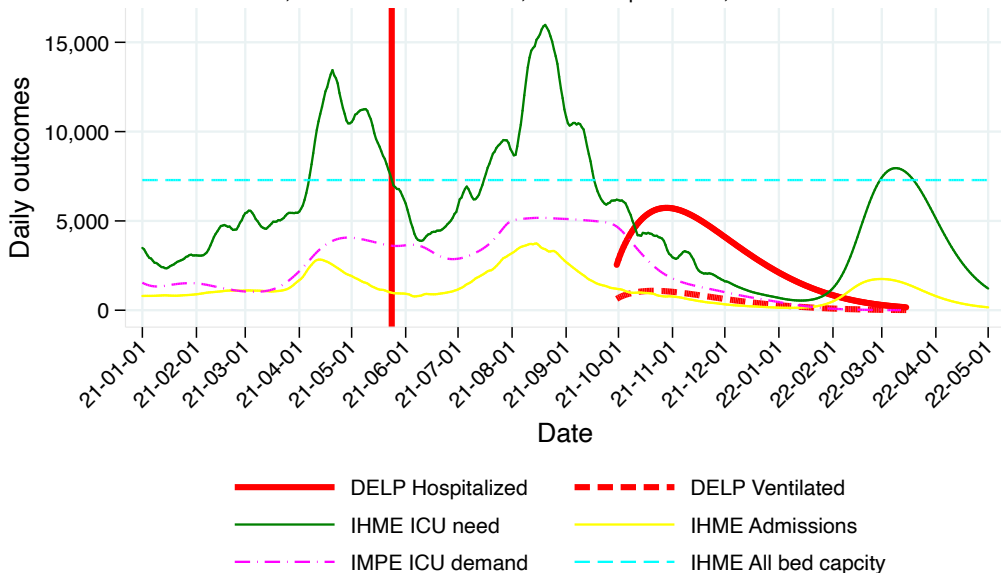
## COVID-19 daily hospital-related outcomes Iran



- 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.

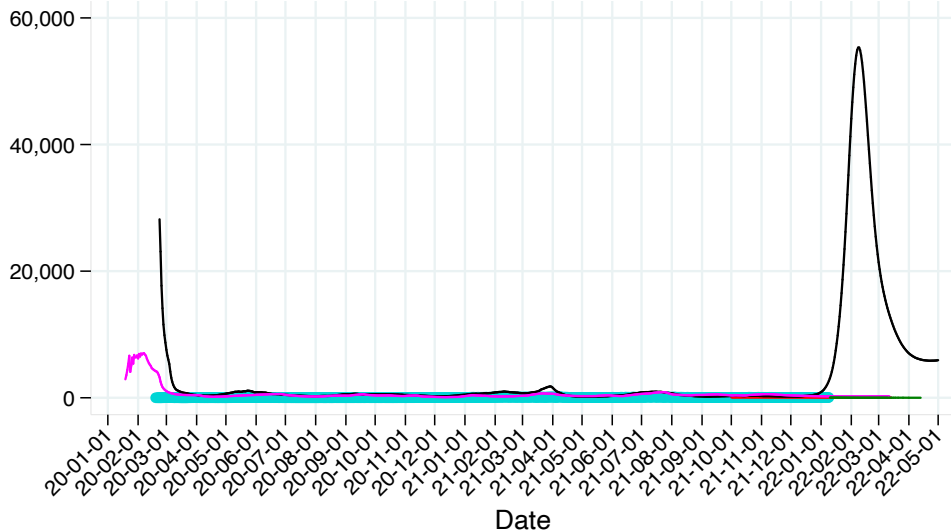
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.



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

reference scenarios

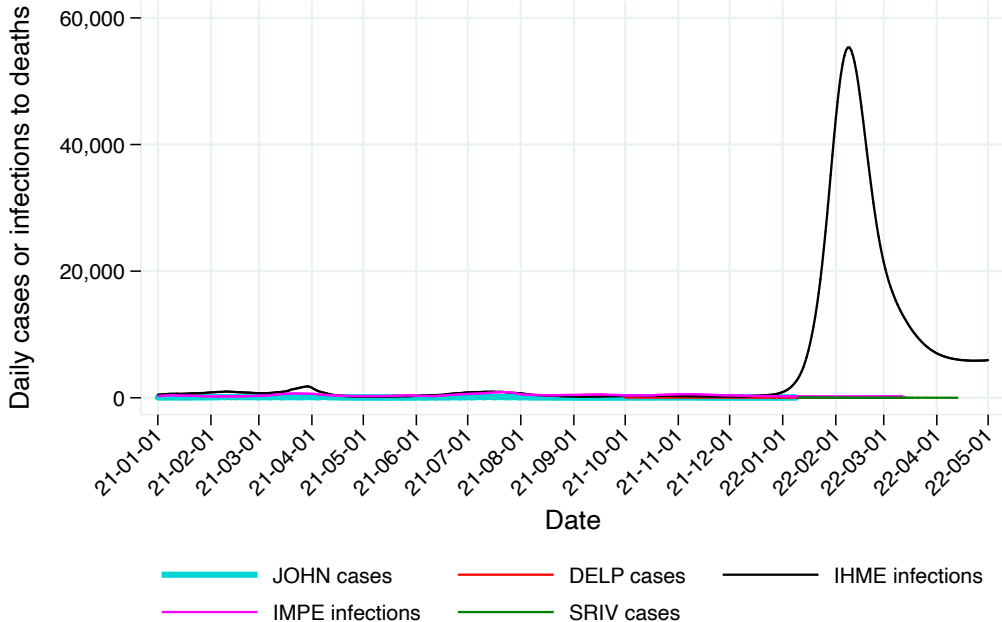
Daily cases or infections to deaths



JOHN cases DELP cases IHME infections  
IMPE infections SRIV cases

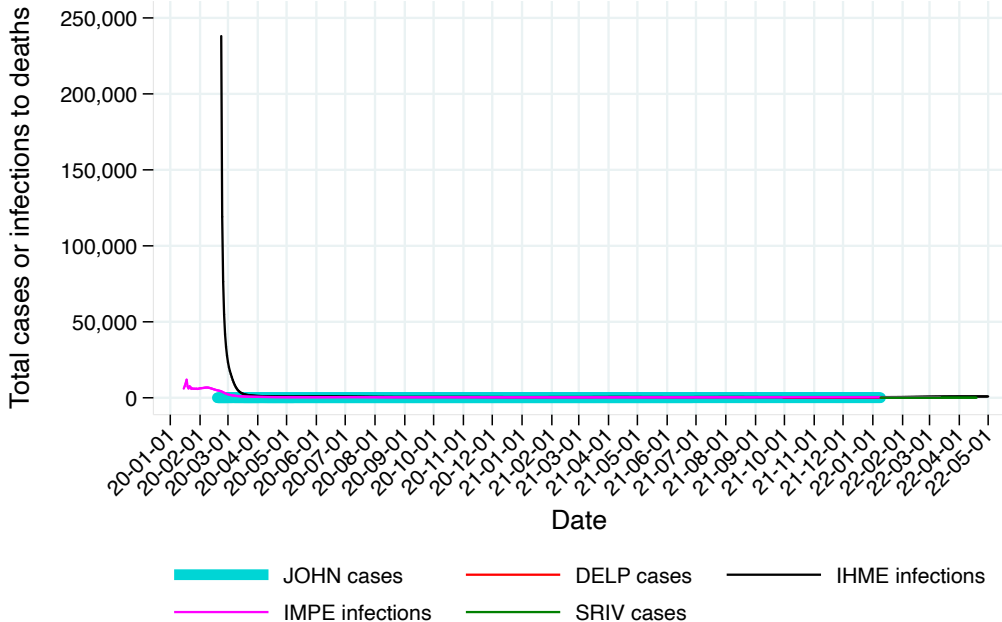
# COVID-19 daily cases or infections, to deaths, Iran

2021 on, reference scenarios



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

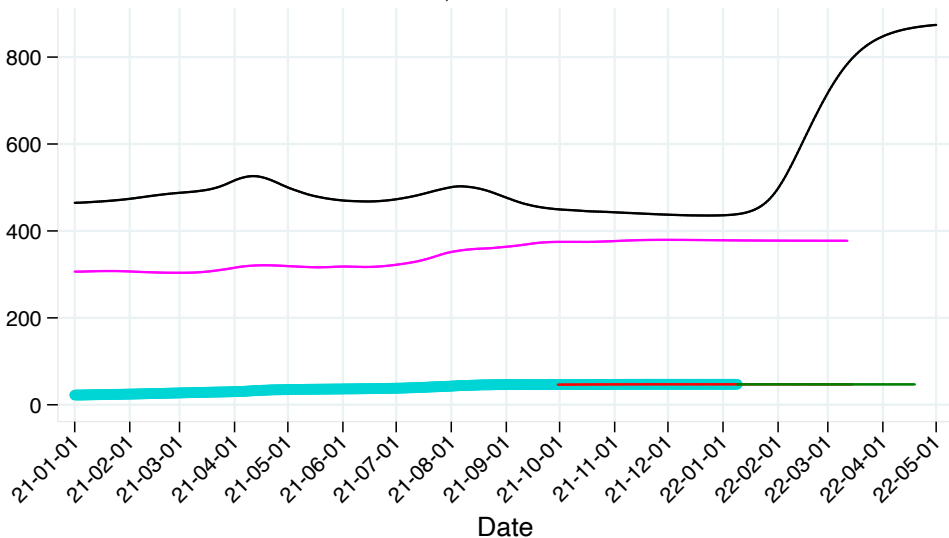
reference scenarios



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

2021 on, reference scenarios

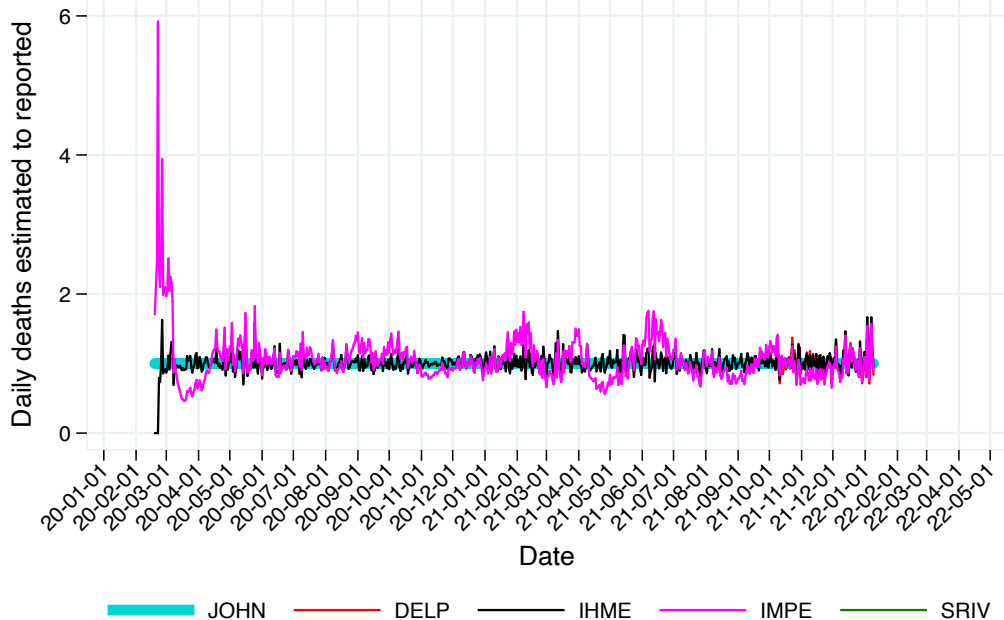
Total cases or infections to deaths



JOHN cases DELP cases IHME infections  
IMPE infections SRIV cases

# COVID-19 daily deaths, estimated to reported, Iran

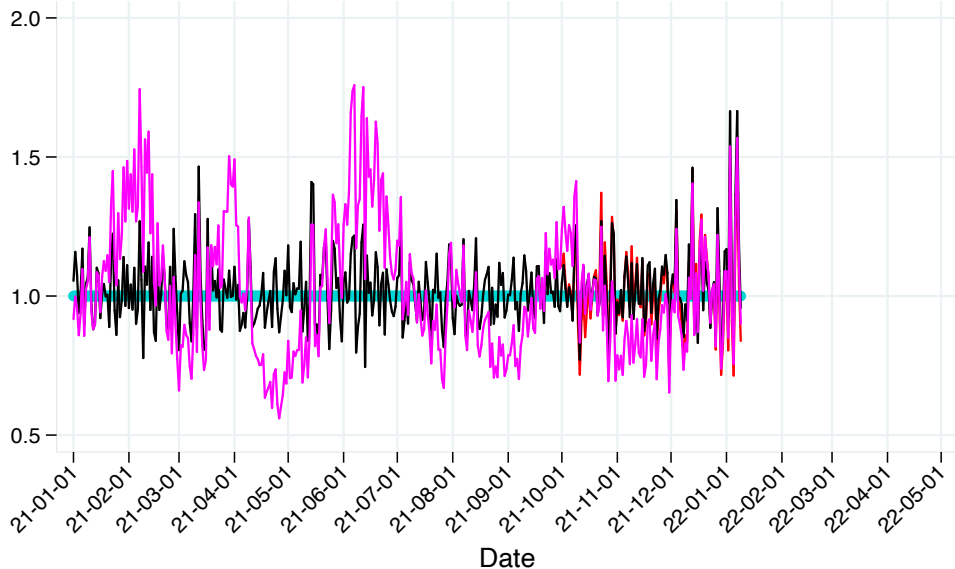
reference scenarios



# COVID-19 daily deaths, estimated to reported, Iran

reference scenarios

Daily deaths estimated to reported

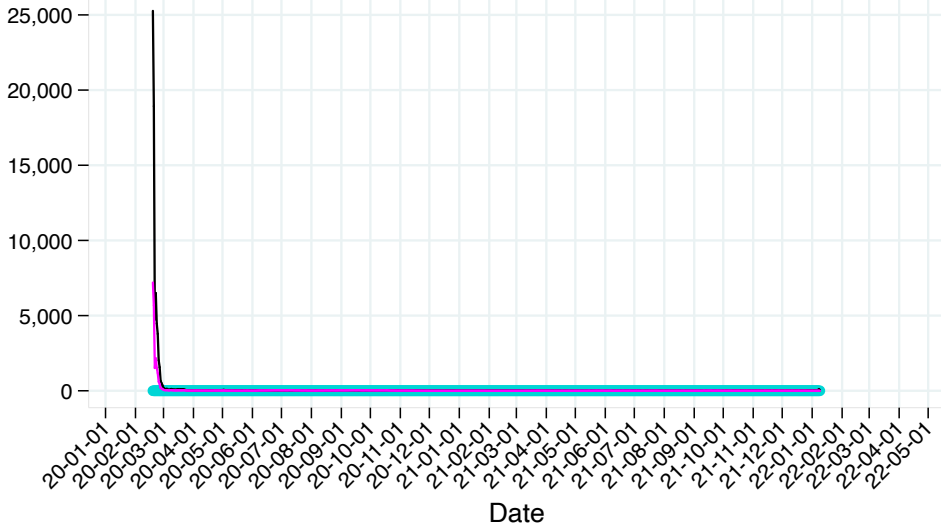


JOHN DELP IHME IMPE SRIV

# 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

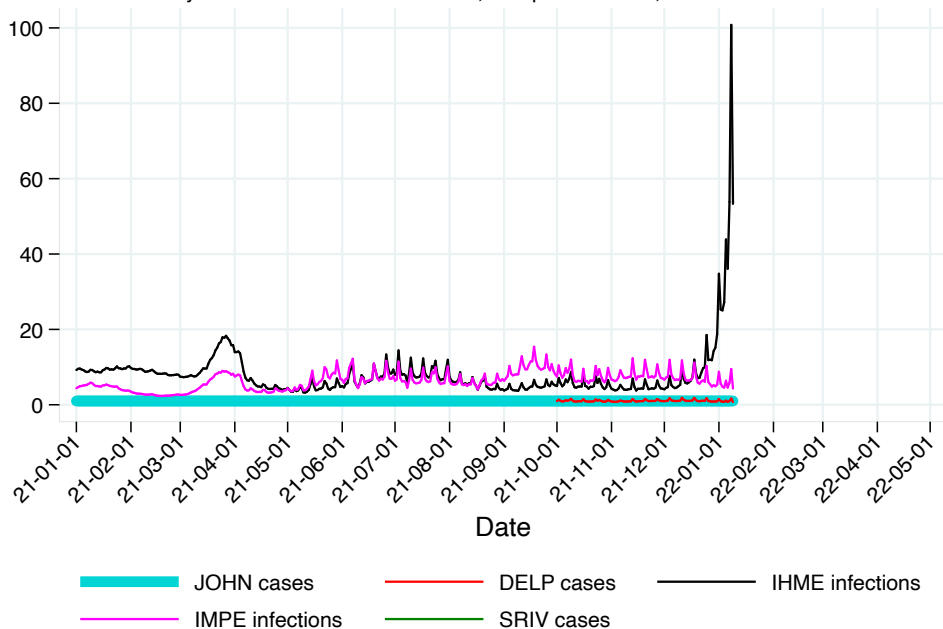


JOHN cases DELP cases IHME infections  
IMPE infections SRIV cases

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

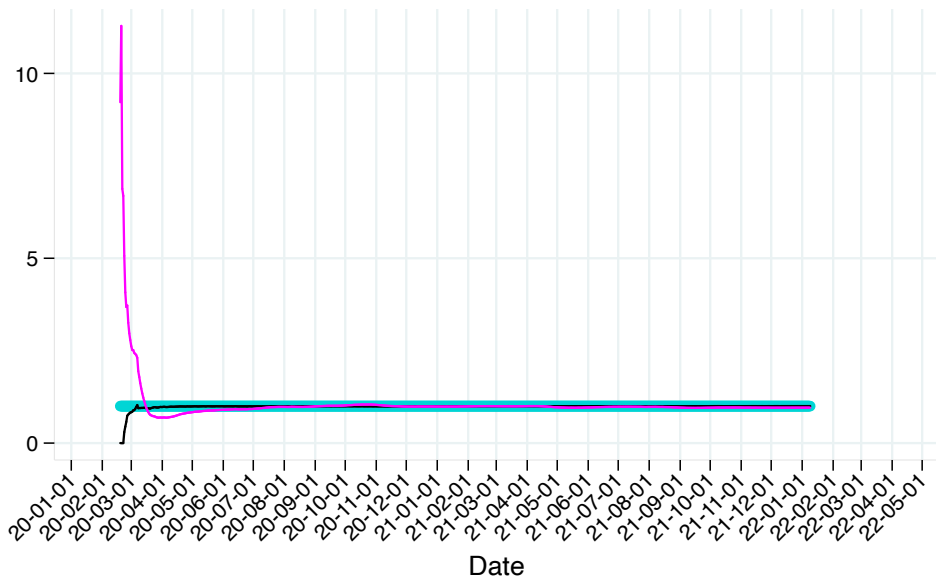




# COVID-19 total deaths, estimated to reported, Iran

reference scenarios

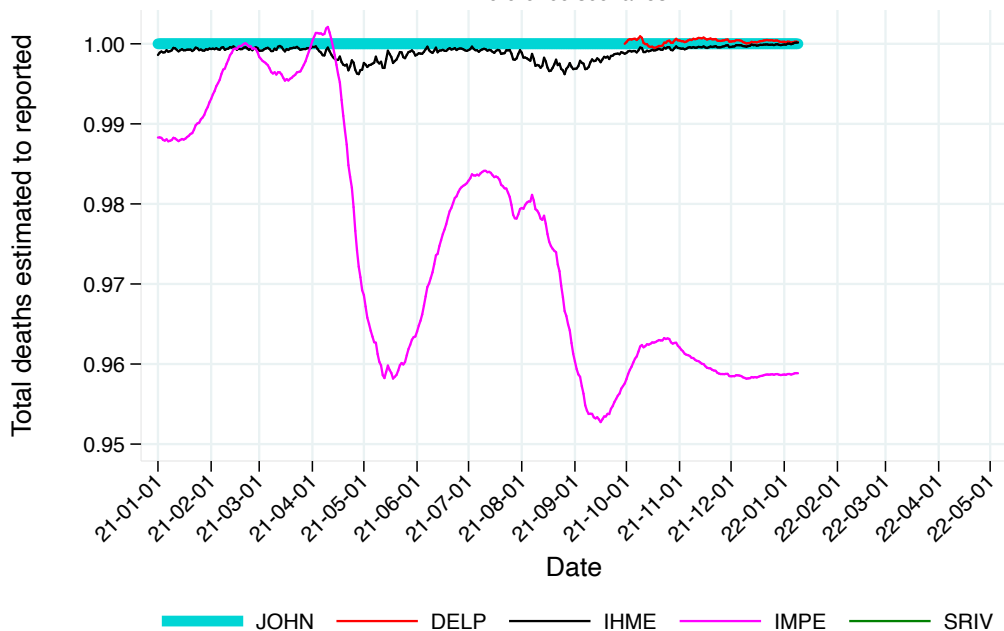
Total deaths estimated to reported



JOHN DELP IHME IMPE SRIV

# COVID-19 total deaths, estimated to reported, Iran

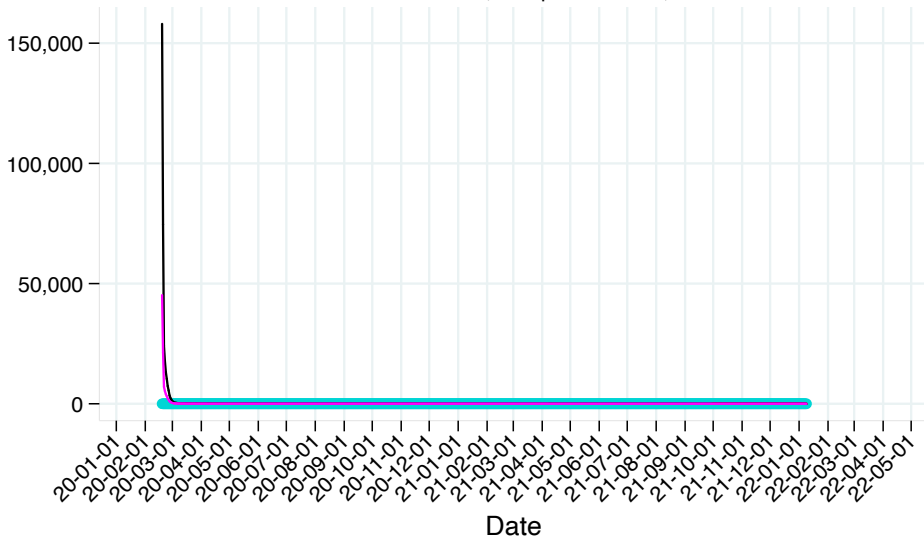
reference scenarios



# 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

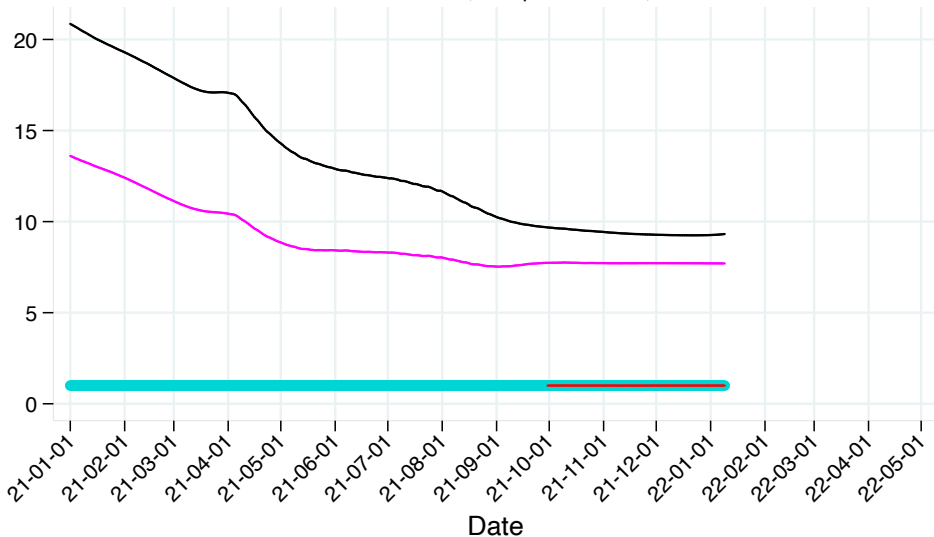


JOHN cases      DELP cases      IHME infections  
IMPE infections      SRIV cases

# COVID-19 total cases estimated to reported, Iran

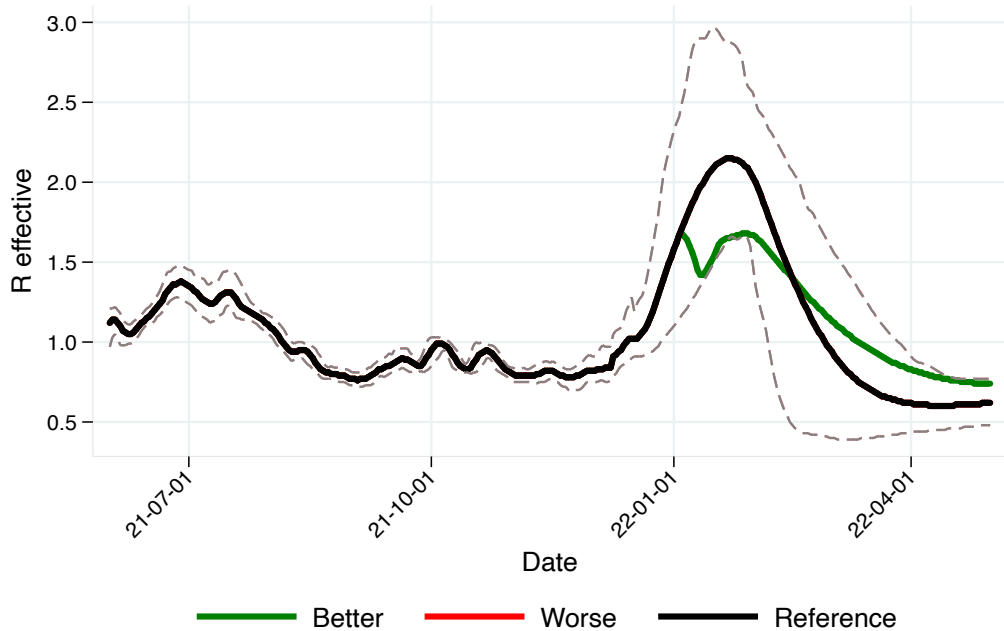
total cases or infections estimated, to reported cases; reference scenarios

Total cases or infections estimated to reported



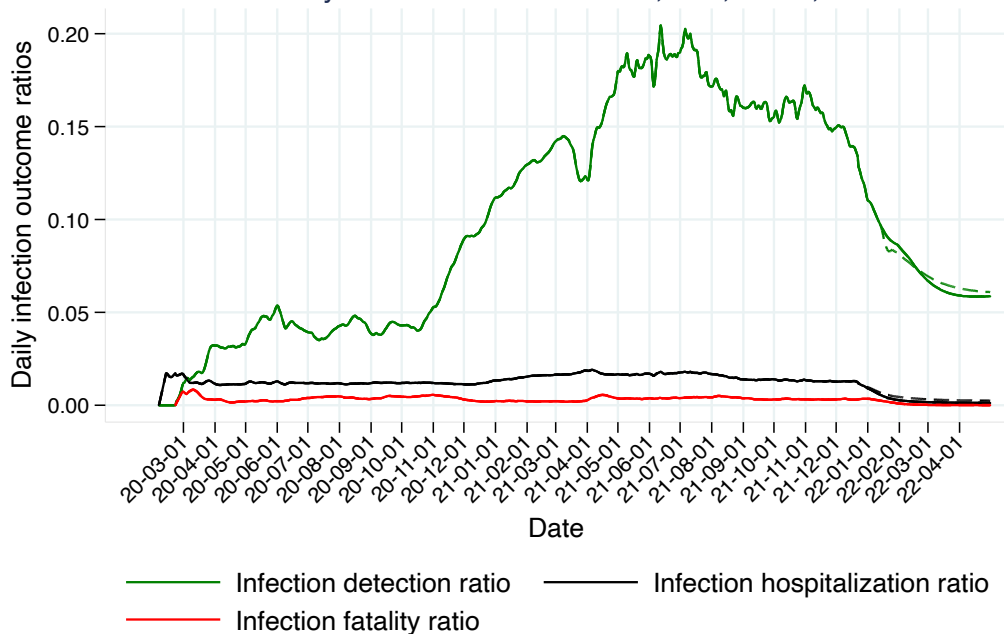
JOHN cases DELP cases IHME infections  
IMPE infections SRIV cases

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



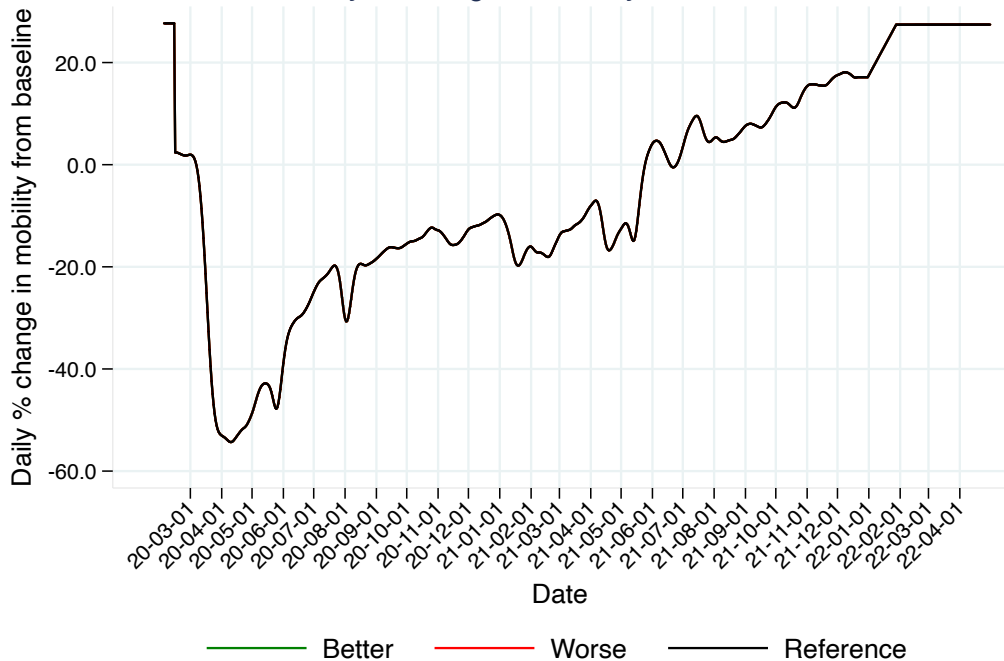
Uncertainty limits: dashed curves

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



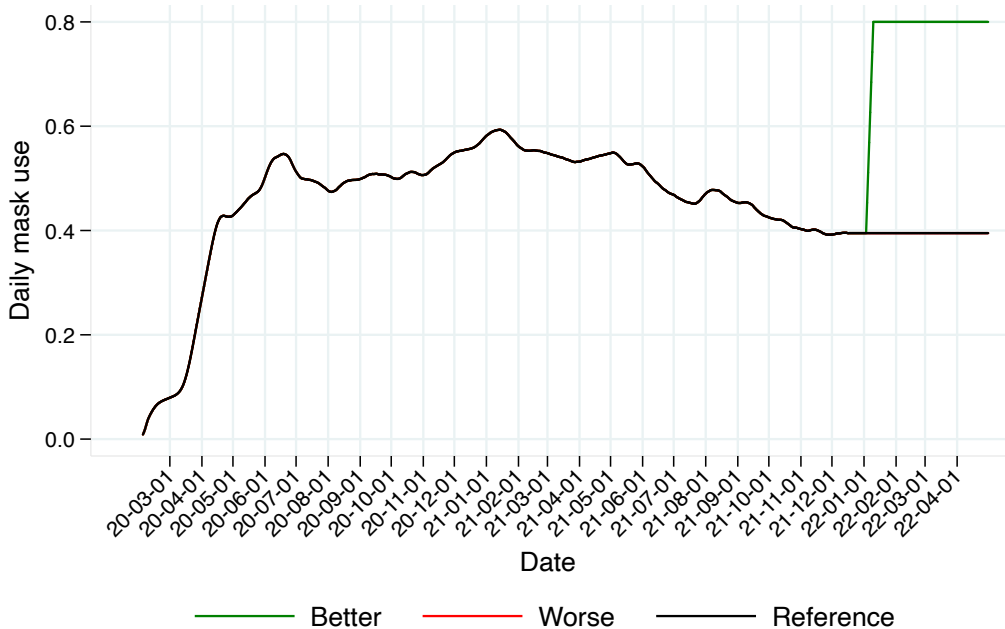
Better and worse scenarios: dashed curves

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



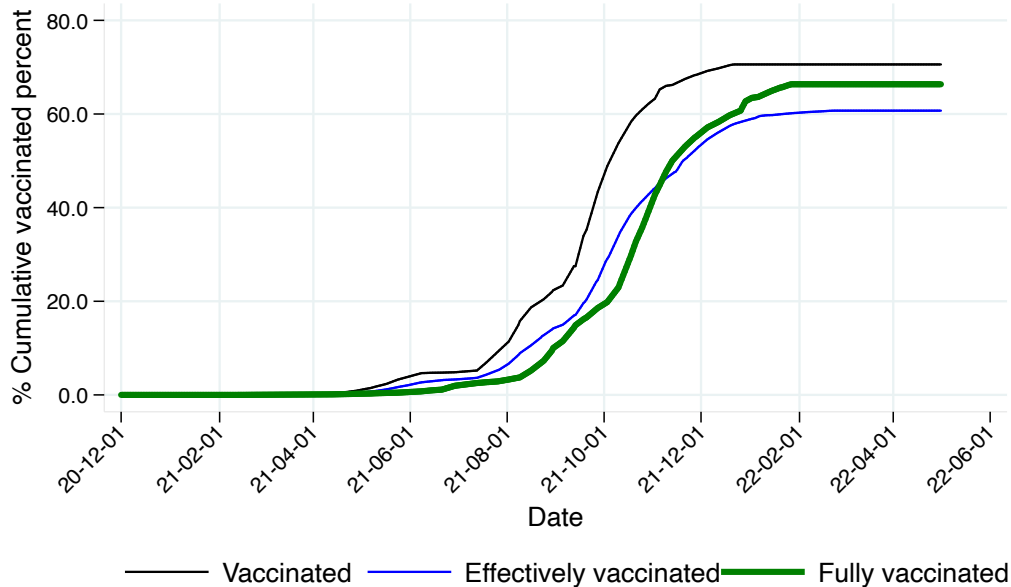
## COVID-19 daily mask use, Iran, IHME, 3 scenarios

Percent of population reporting always wearing a mask when leaving home





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

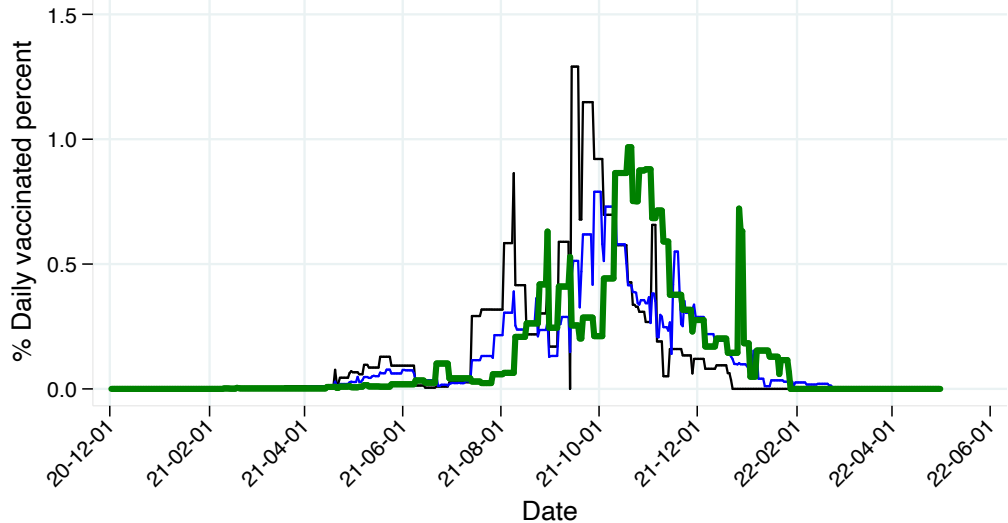


Vaccinated: Initially vaccinated (one dose of two doses)

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



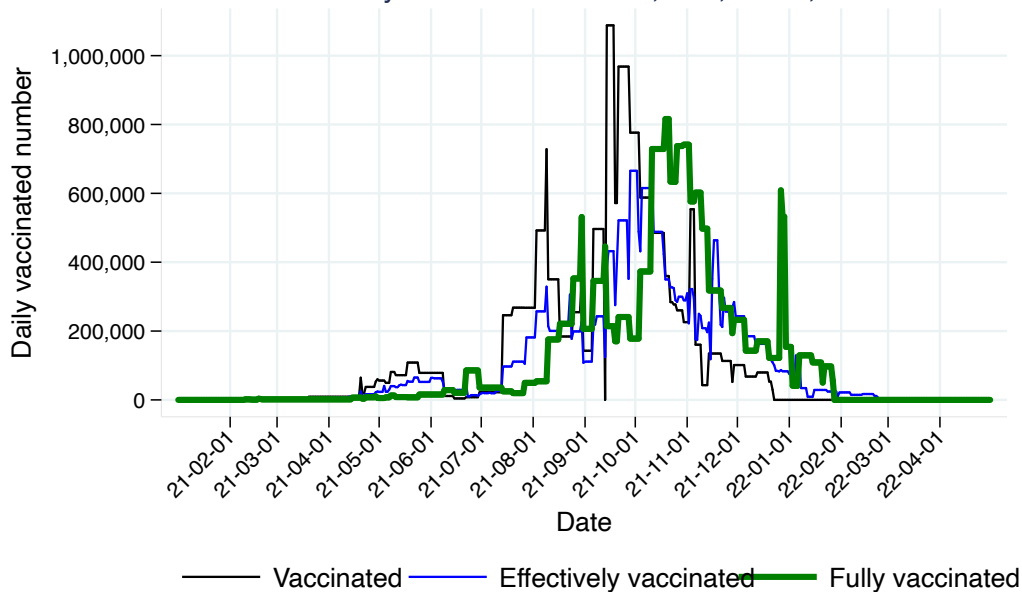
— Vaccinated — Effectively vaccinated — Fully vaccinated

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