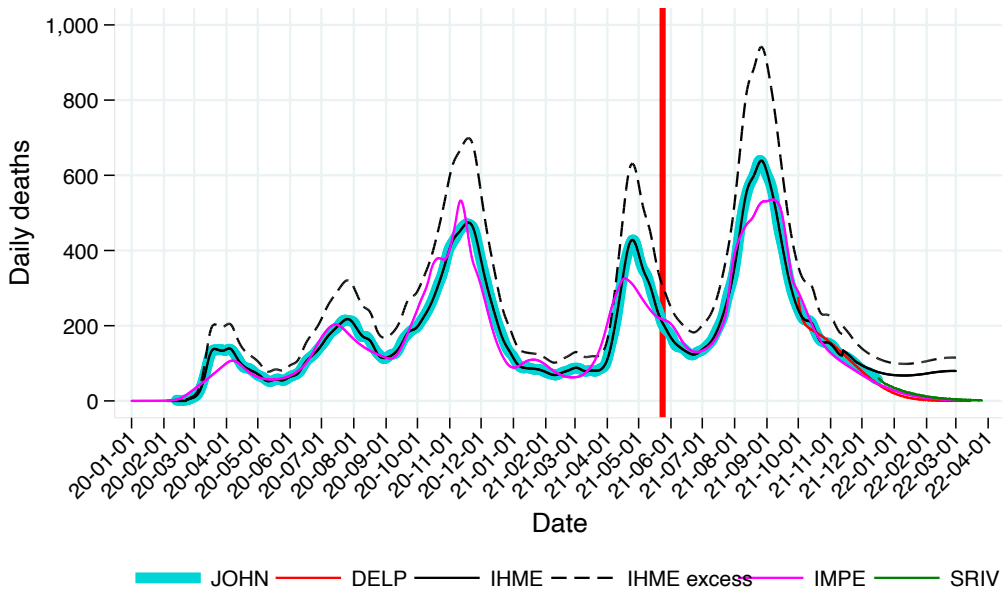


COVID-19 daily deaths, Iran

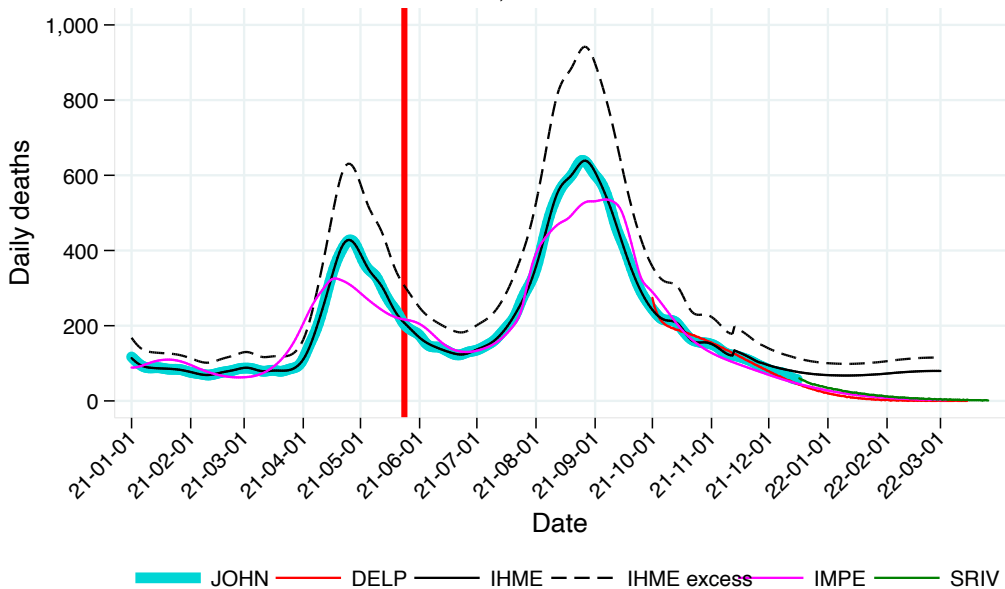
reference scenarios



- 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

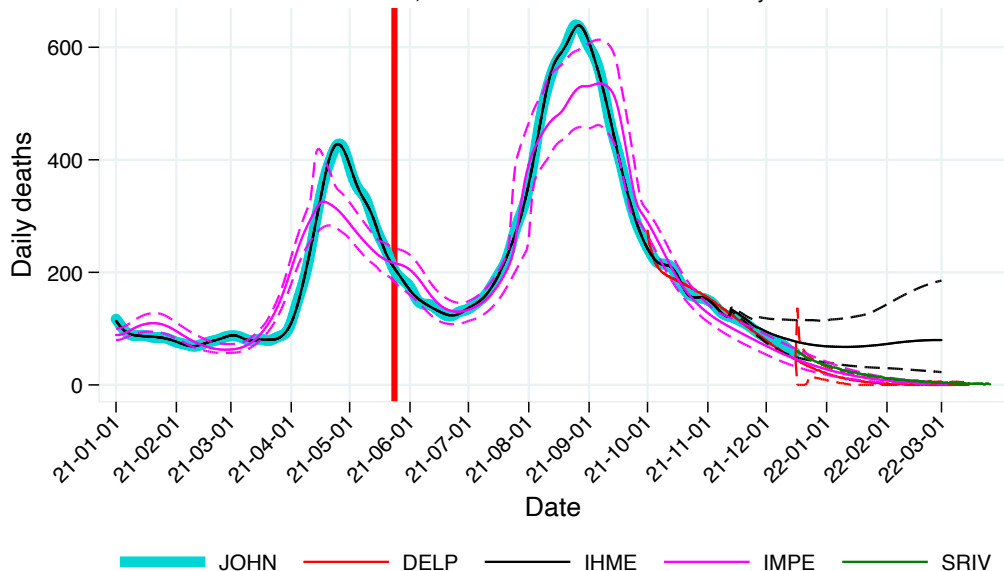
2021 on, reference scenarios



- 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

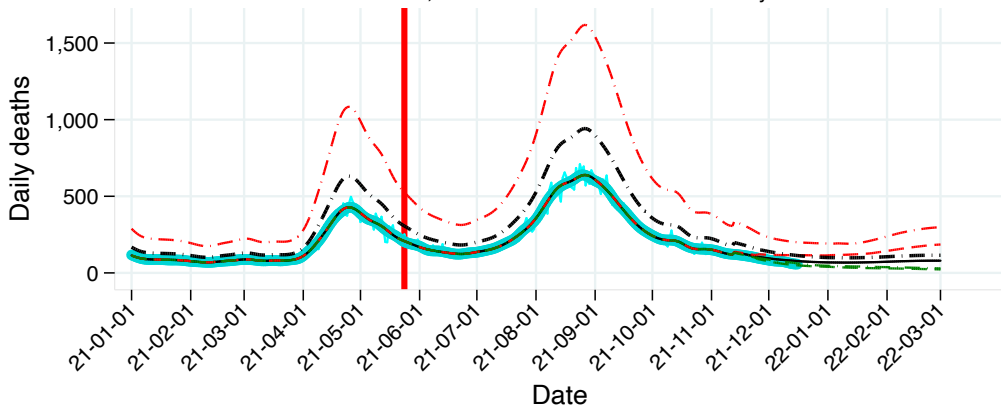


- Uncertainty limits: dashed curves

- 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

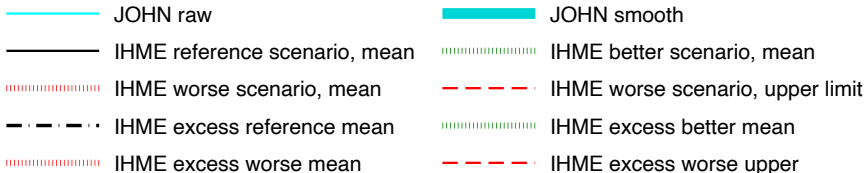
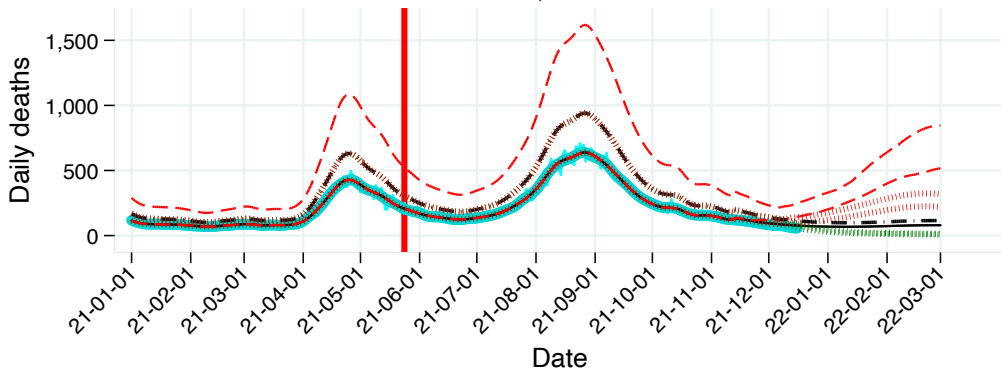


- Uncertainty limits: dashed (---) curves

- 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 deaths, Iran, IHME

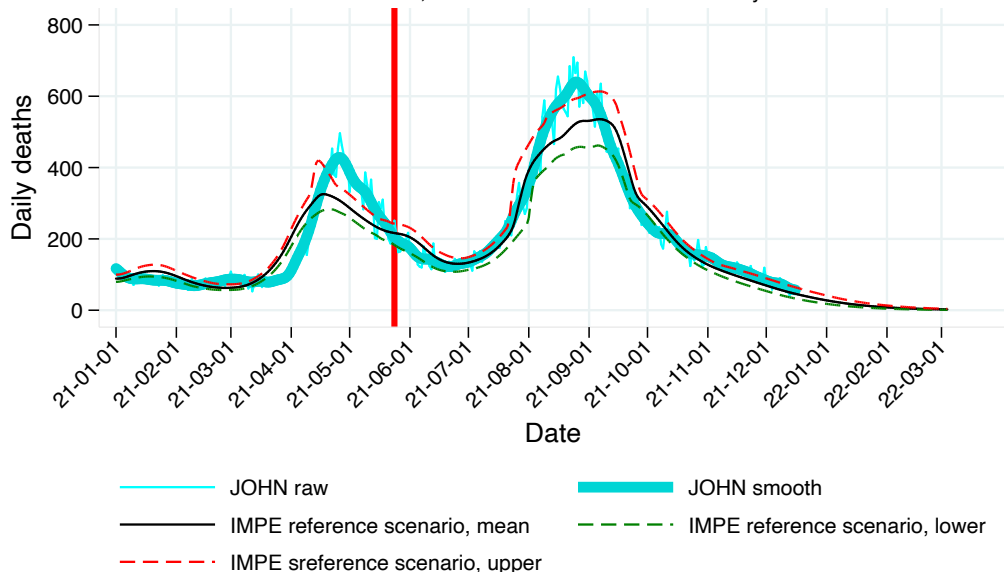
2021 on, 3 scenarios



- 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 deaths, Iran, IMPE

2021 on, reference scenario with uncertainty

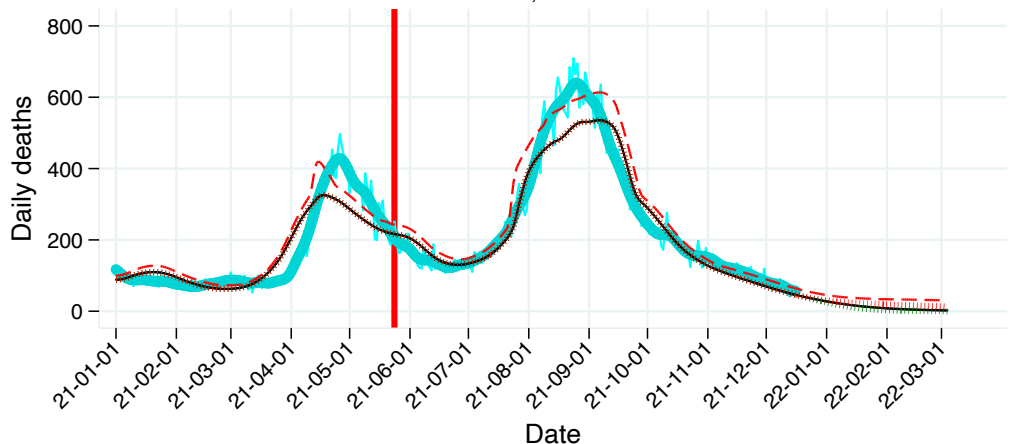


- Uncertainty limits: dashed (---) curves.

- 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

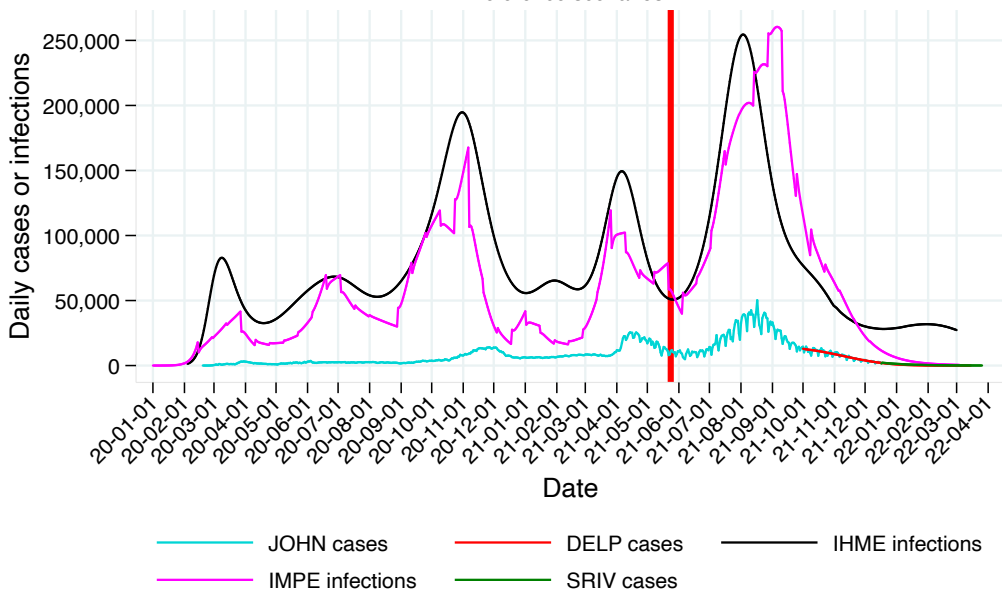
2021 on, 3 scenarios



- 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

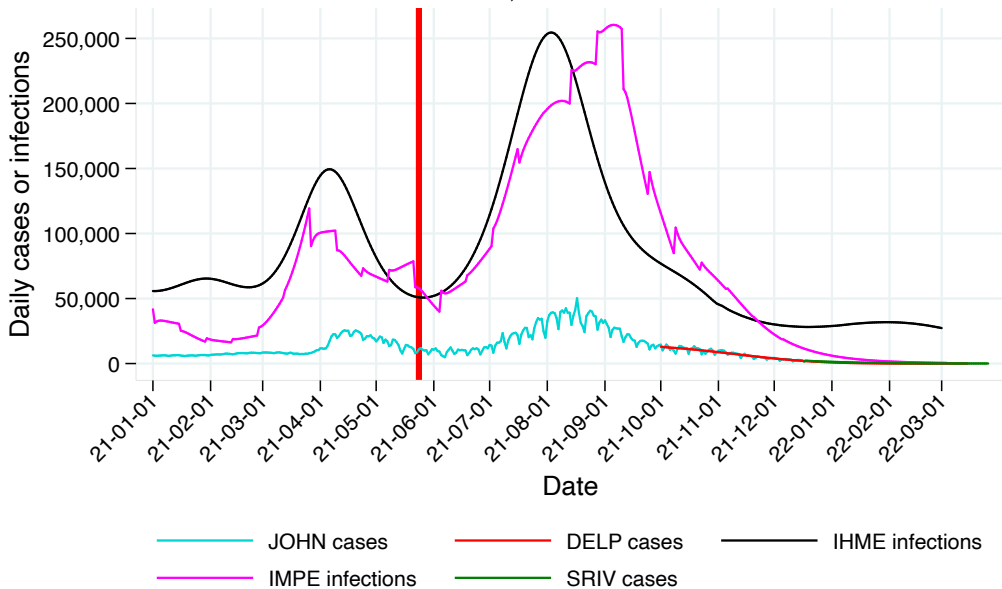
reference scenarios



- 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

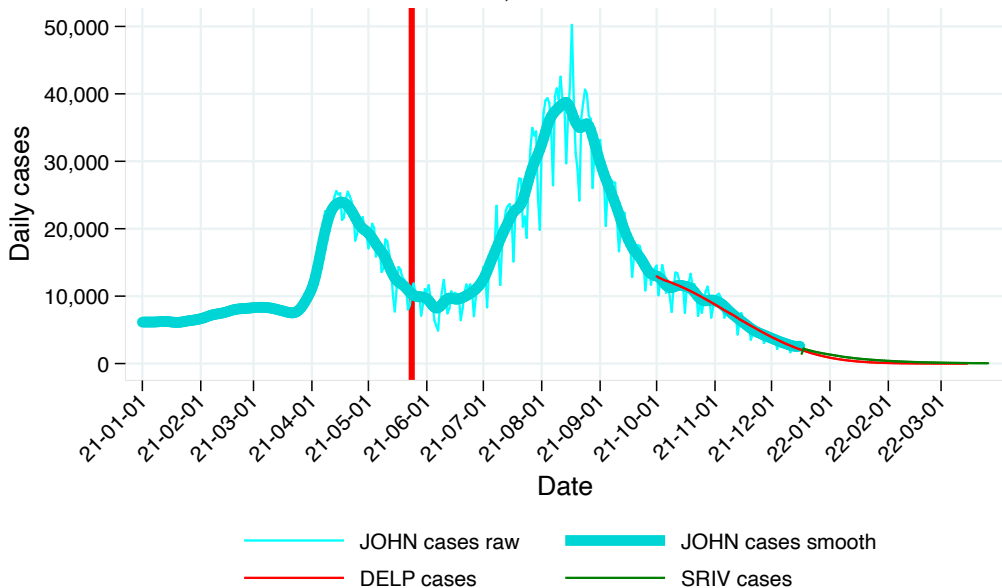
2021 on, reference scenarios



- 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

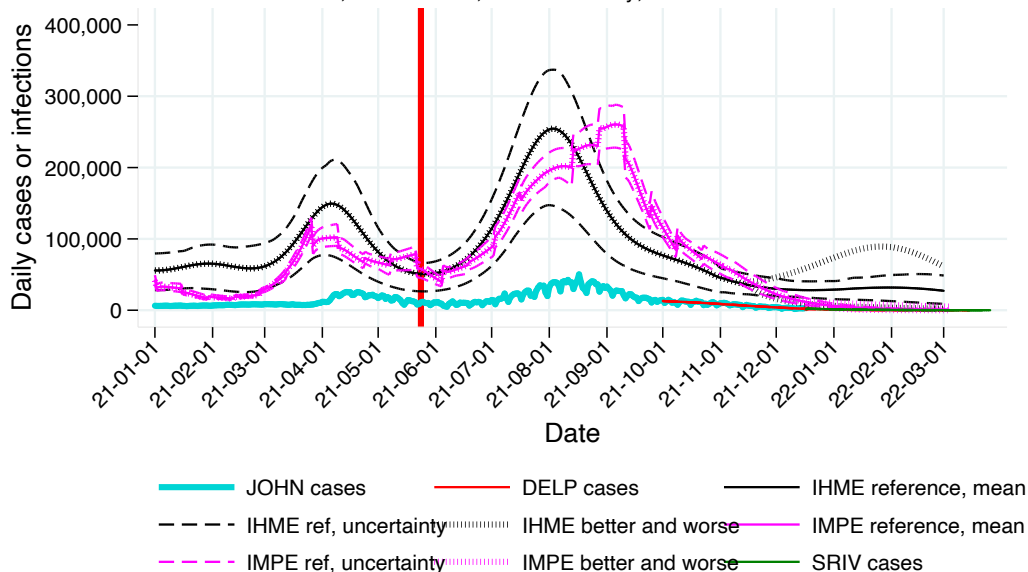
2021 on, reference scenarios



- 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

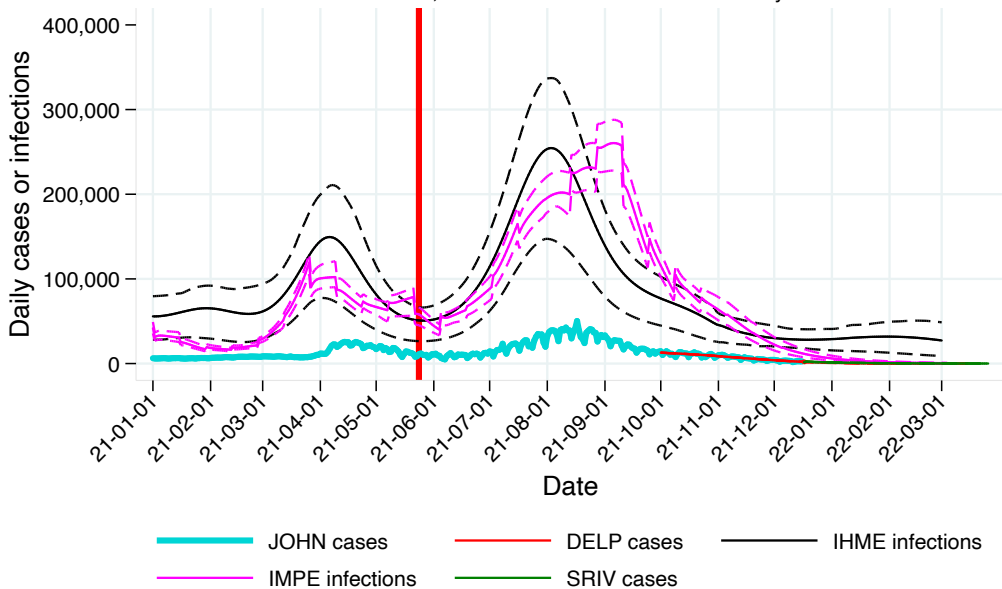


- Uncertainty limits: dashed (---) curves; Better and worse scenarios: tight dot (lllll) curves.

- 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

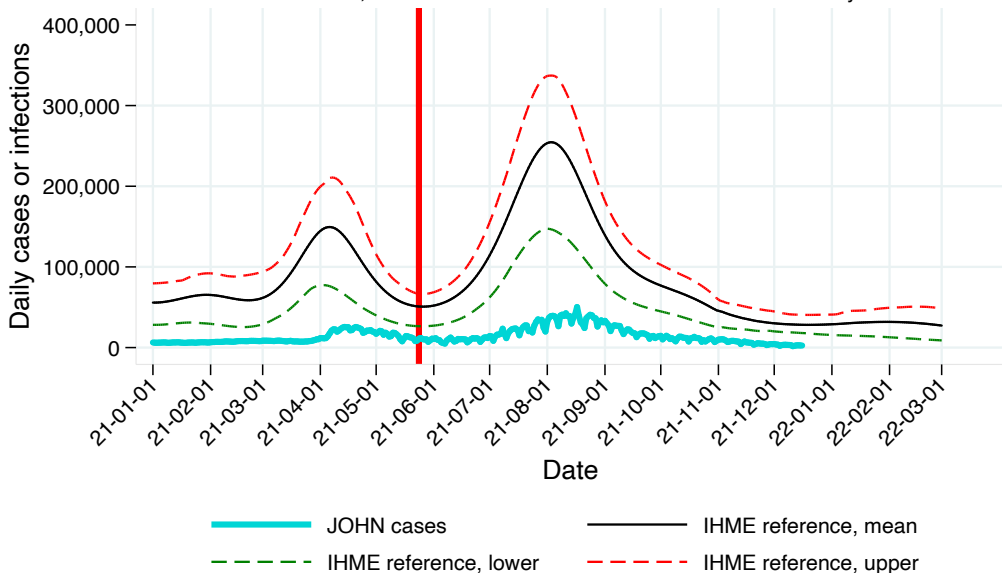
2021 on, reference scenarios with uncertainty



- 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

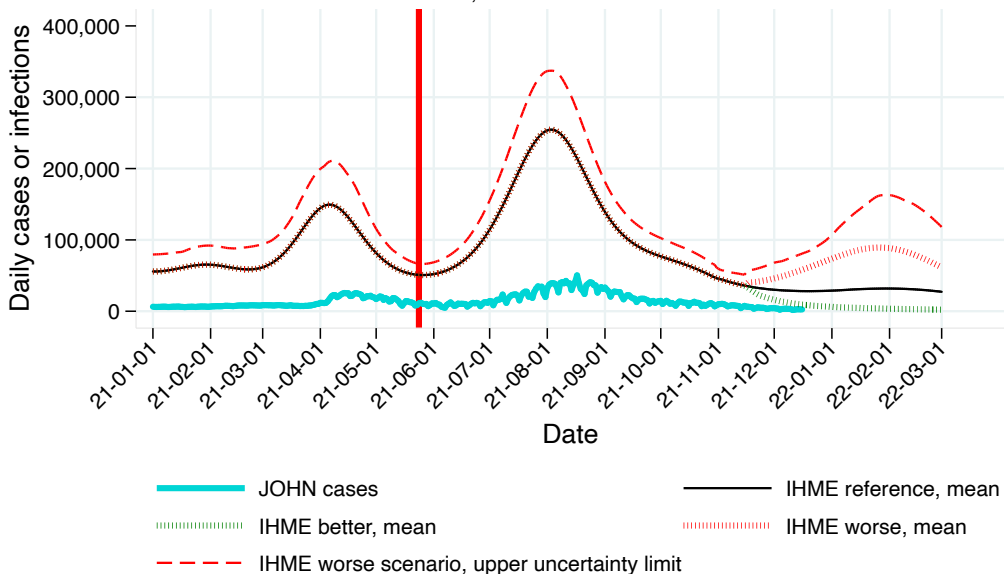


- Uncertainty limits: dashed (---) curves.

- 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 JOHN, and infections IHME, Iran

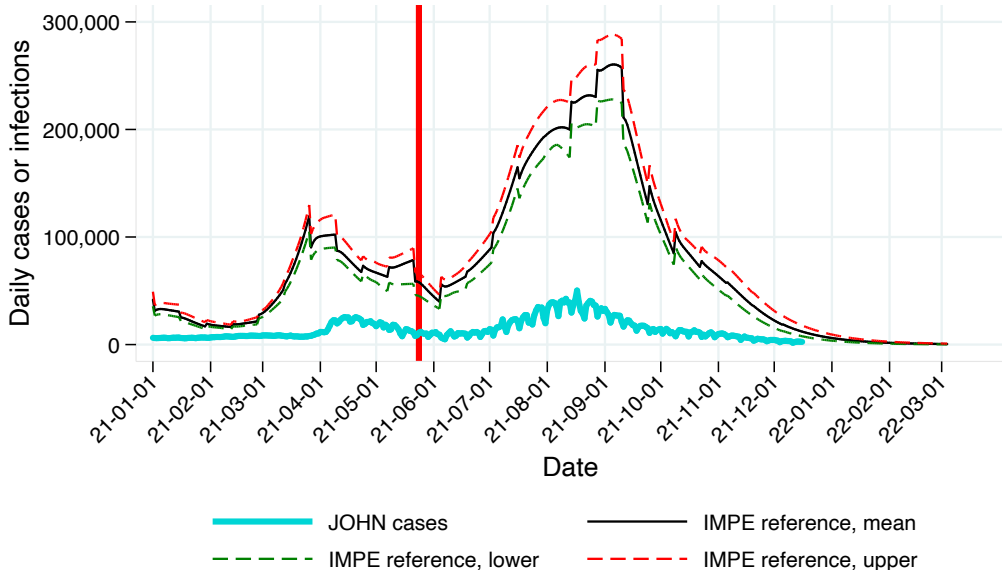
2021 on, IHME infections 3 scenarios



- 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 JOHN, and infections IMPE, Iran

2021 on, IMPE infections reference scenario with uncertainty

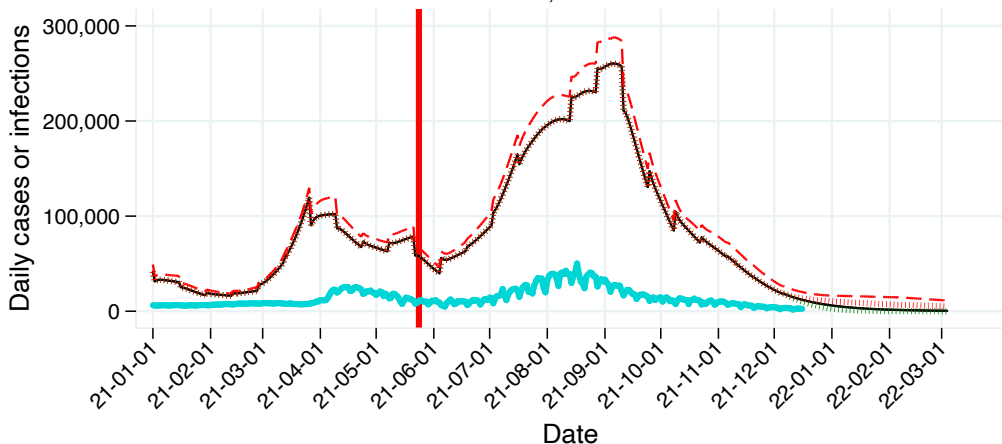


- Uncertainty limits: dashed (---) curves.

- 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



JOHN cases

IMPE better, mean

IMPE worse scenario, upper uncertainty limit

IMPE reference, mean

IMPE worse, mean

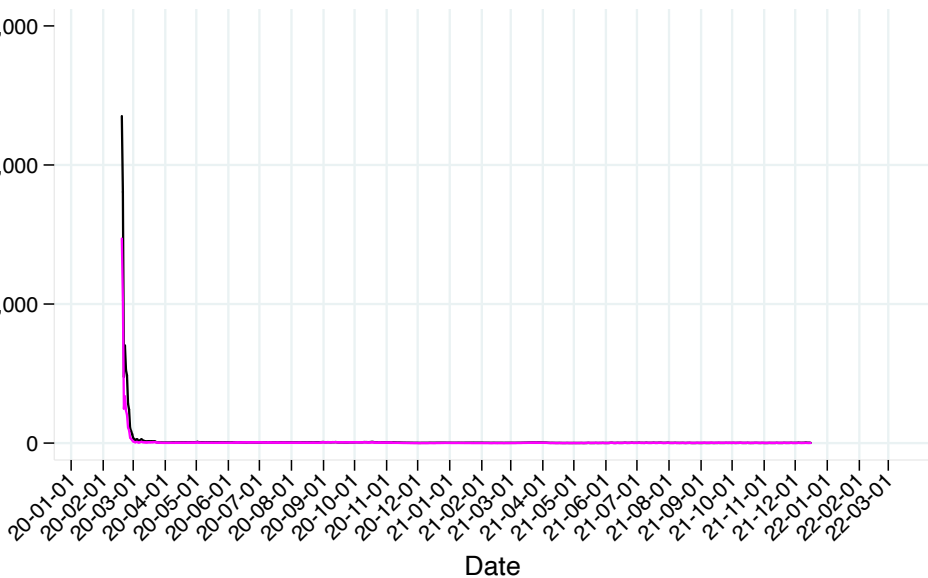
- Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves.

- 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

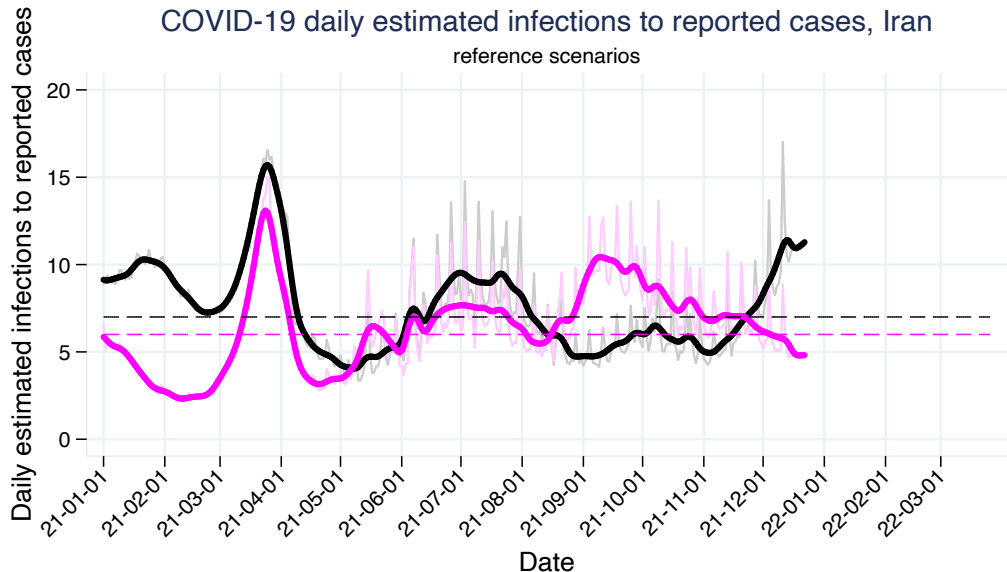
Daily estimated infections to reported cases



IHME IMPE

COVID-19 daily estimated infections to reported cases, Iran

reference scenarios

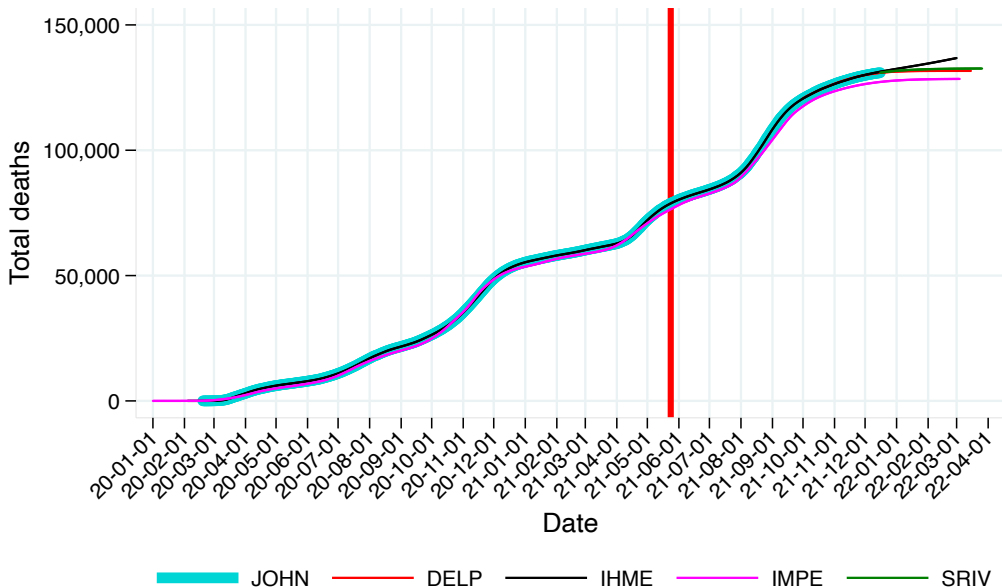


IHME IMPE IHME smooth IMPE smooth IHME smooth median IMPE smooth median

IHME smooth median in 2021 = 7; IMPE smooth median in 2021 = 6

COVID-19 total deaths, Iran

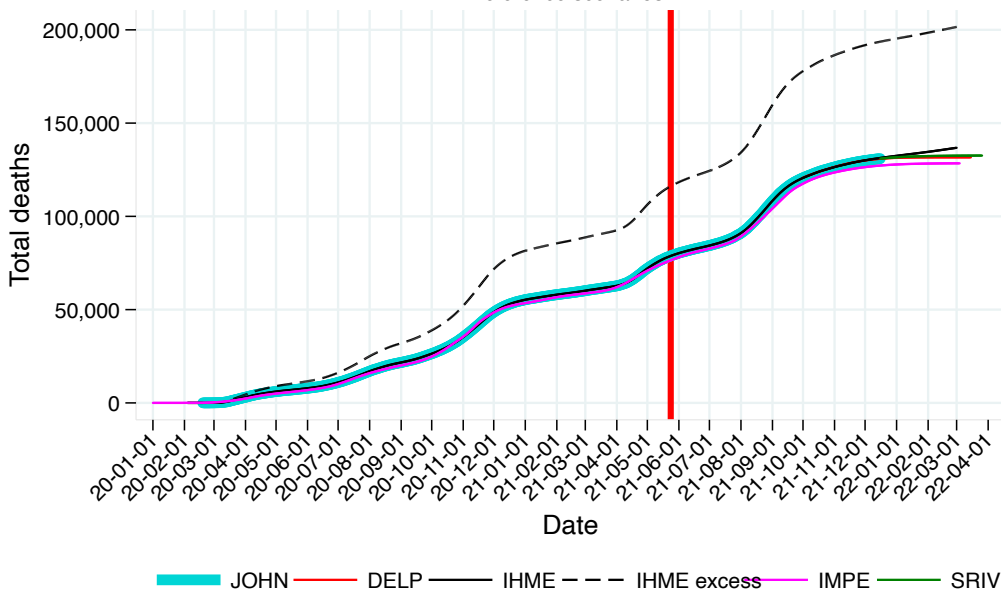
reference scenarios



- 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

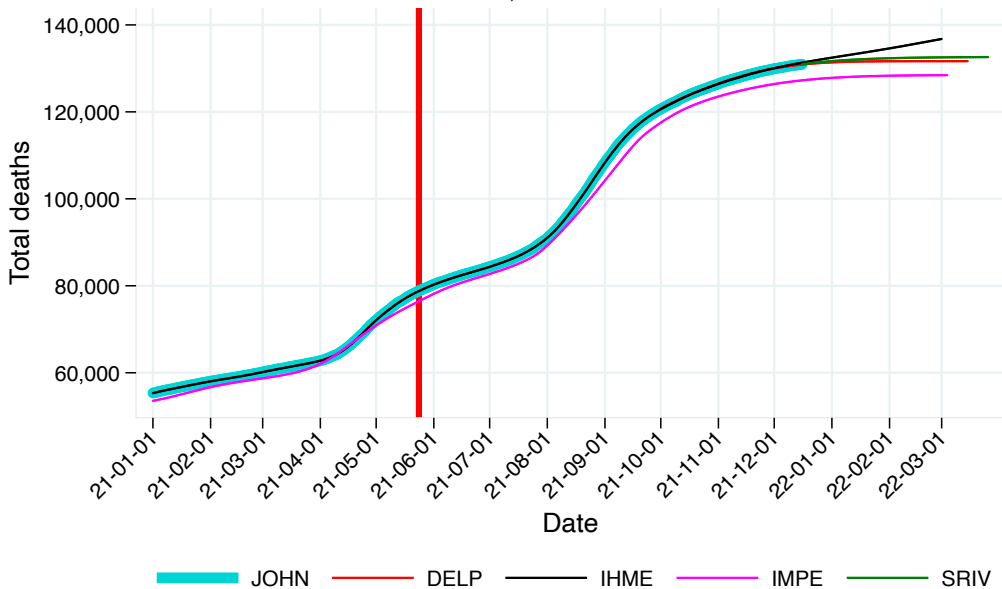
reference scenarios



- 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

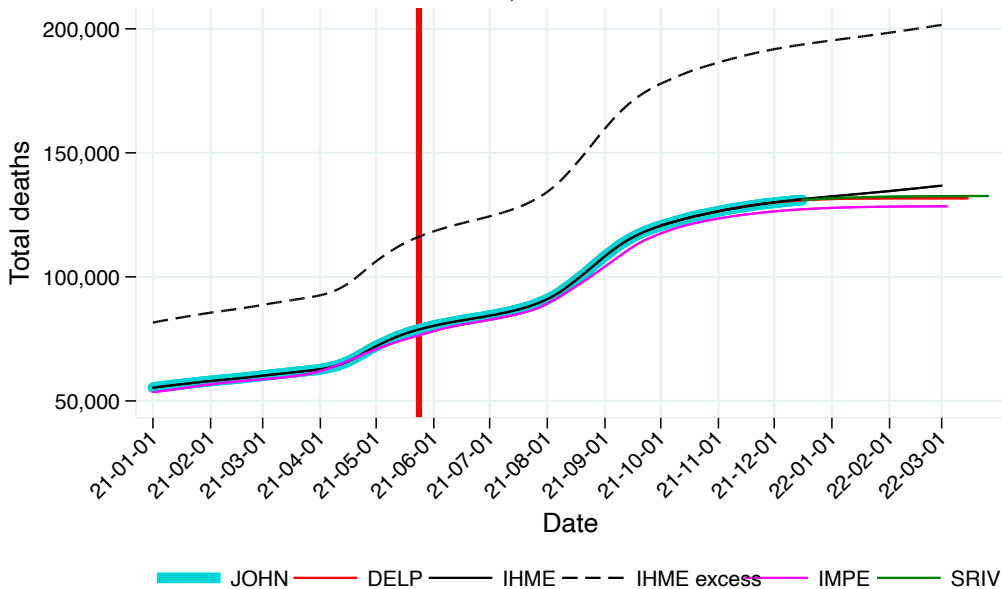
2021 on, reference scenarios



- 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

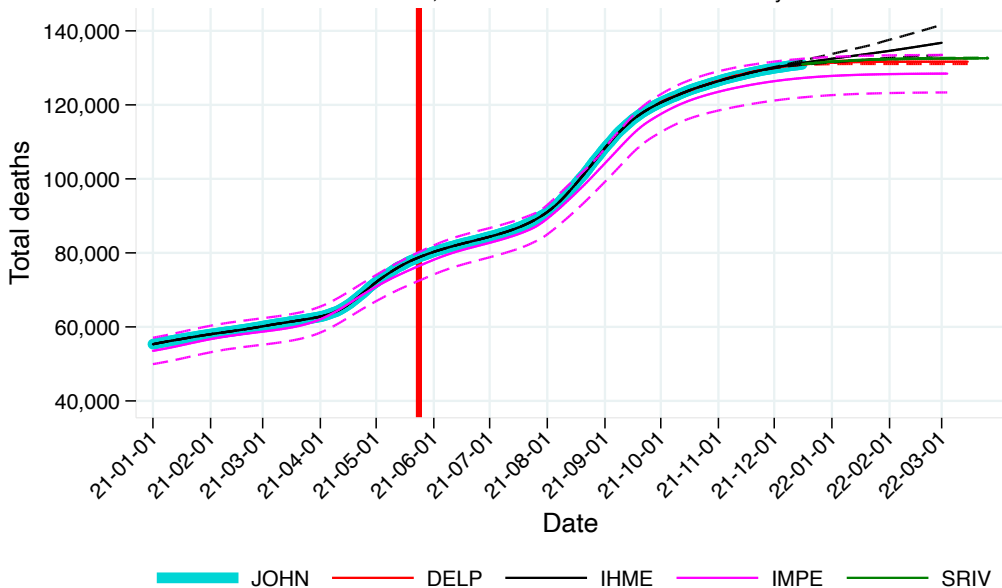
2021 on, reference scenarios



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

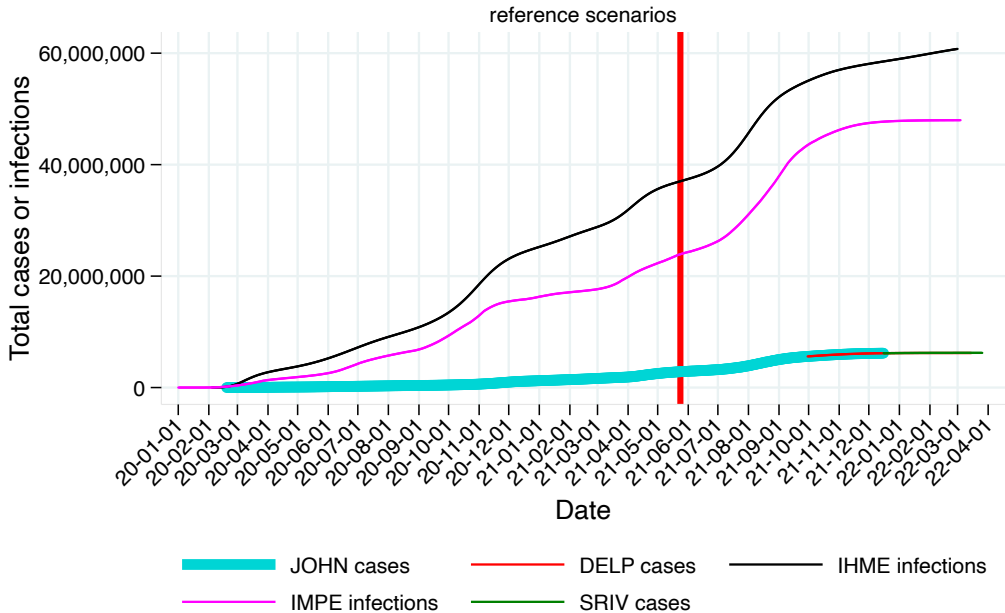
COVID-19 total deaths, Iran

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.

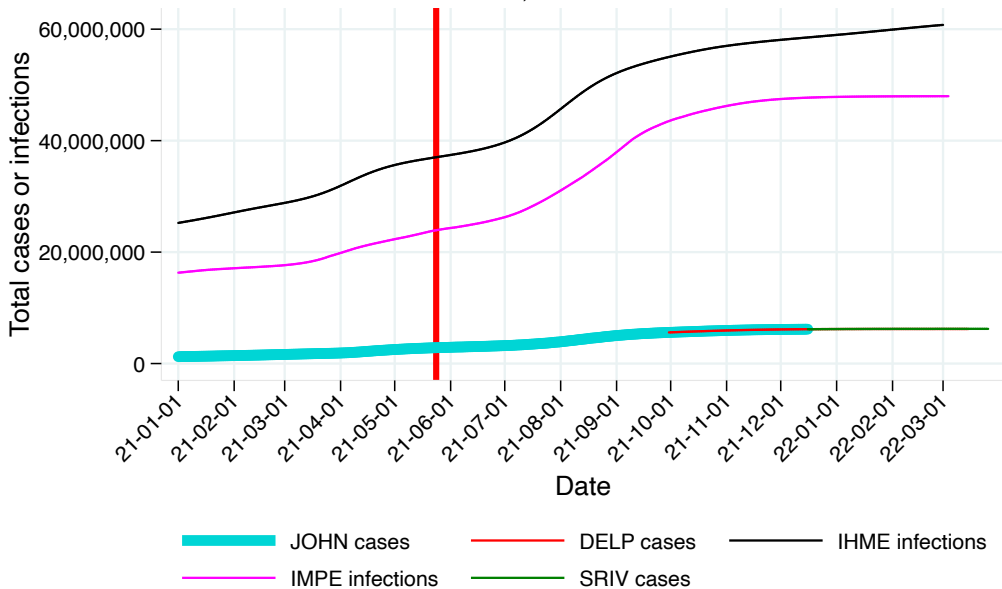
COVID-19 total cases or infections, Iran



- 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

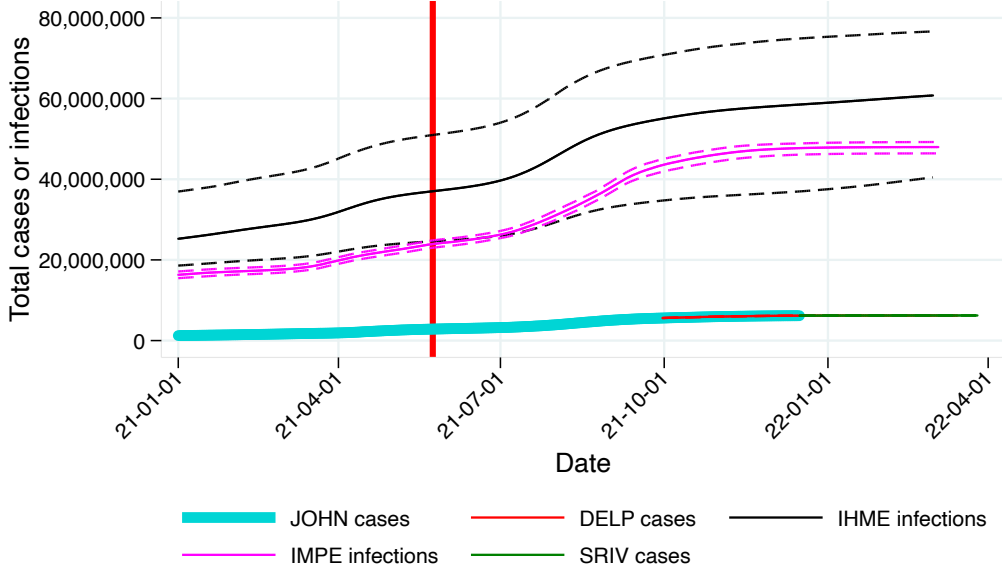
2021 on, reference scenarios



- 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

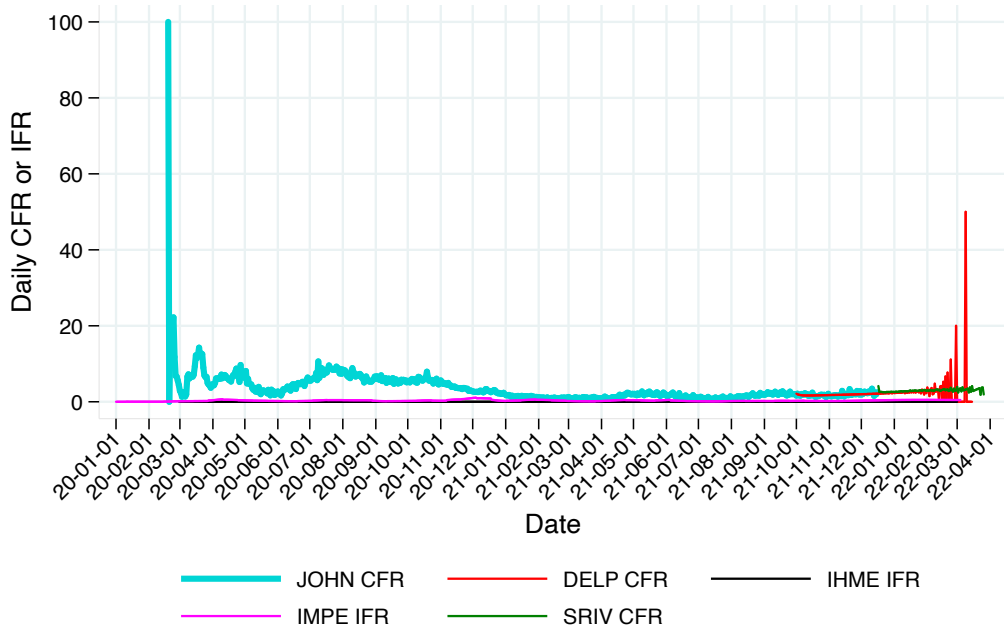
2021 on, reference scenarios with uncertainty



- Uncertainty limits: dashed curves.

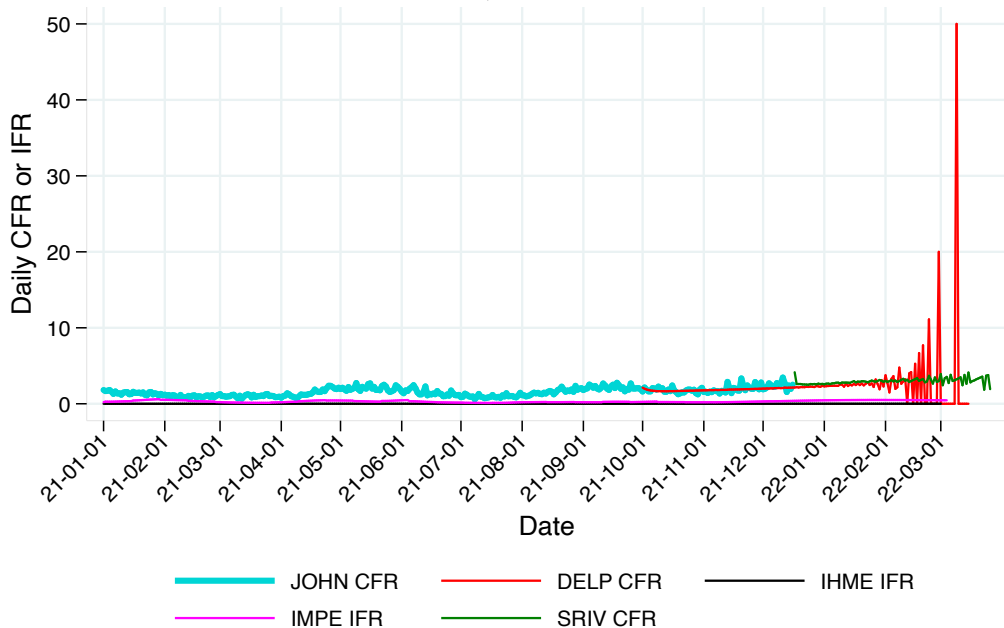
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

COVID-19 daily CFR or IFR, Iran

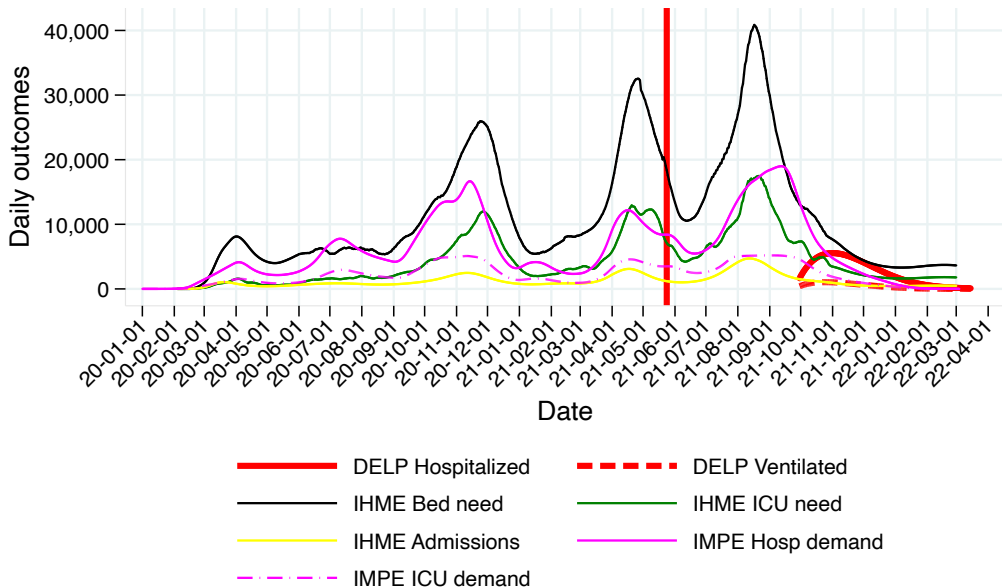


COVID-19 daily CFR or IFR, Iran

2021 on, reference scenarios

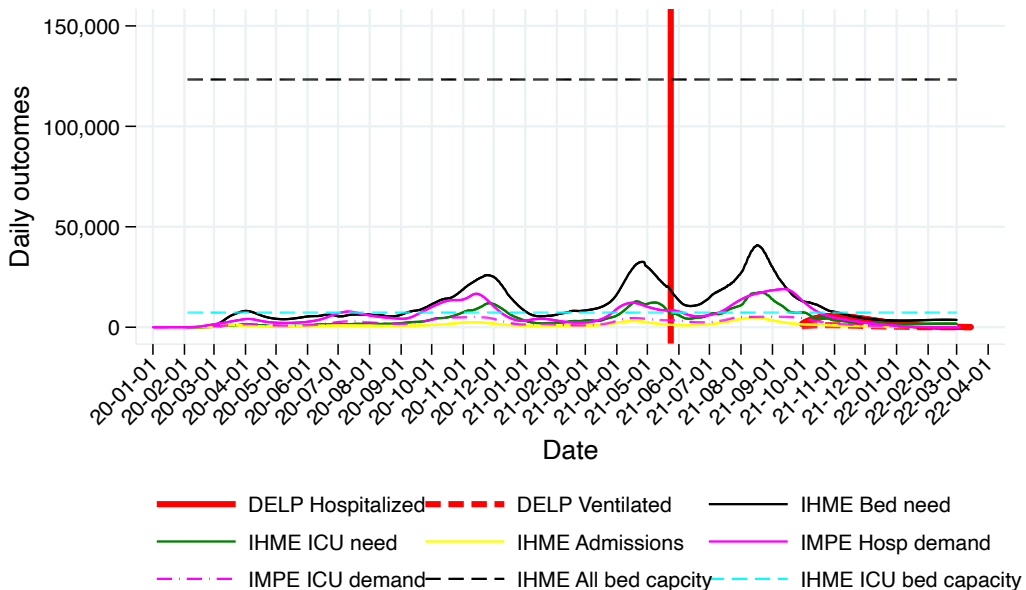


COVID-19 daily hospital-related outcomes Iran



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

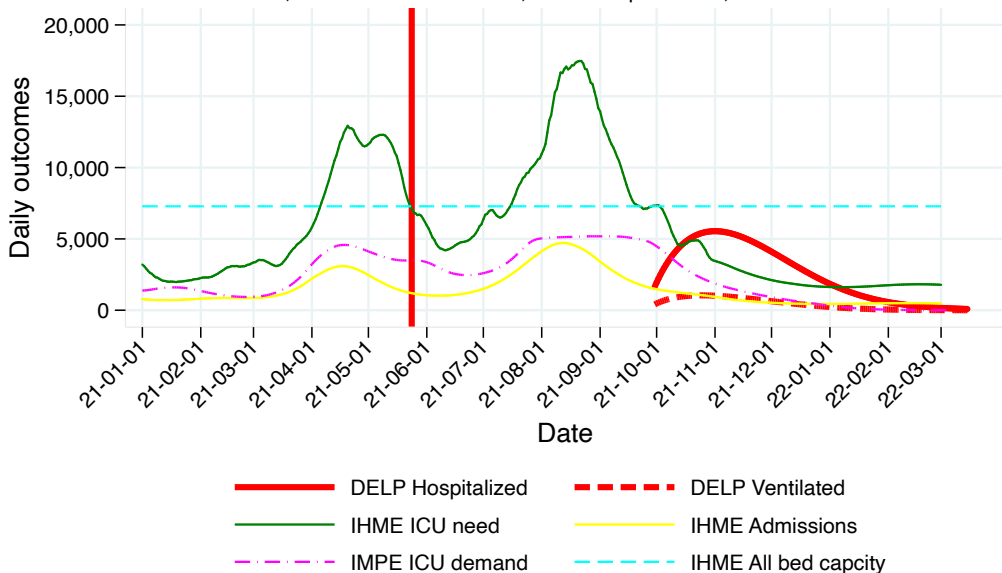
COVID-19 daily hospital-related outcomes Iran



- 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



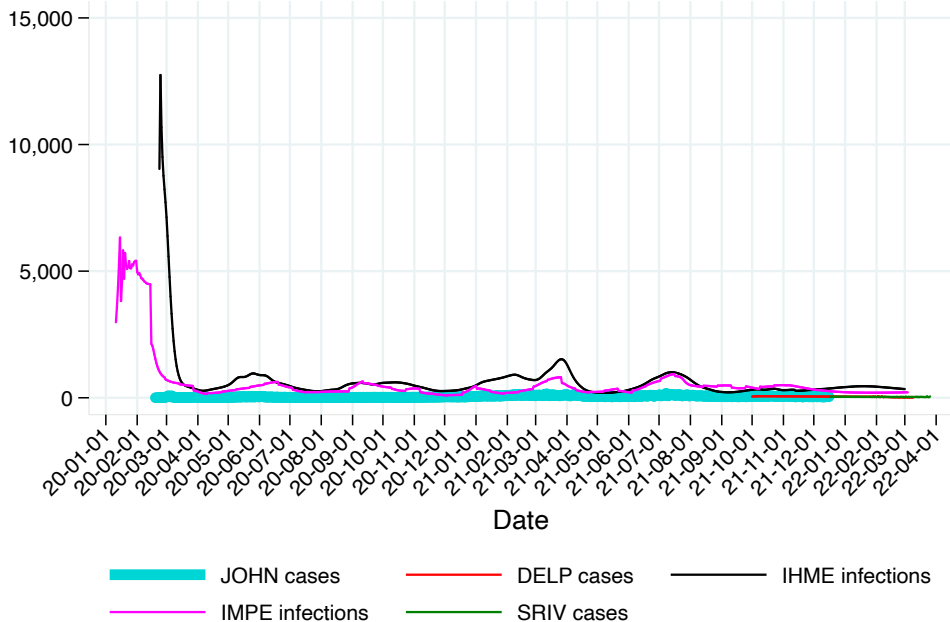
- Uncertainty limits: dashed curves.

- 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

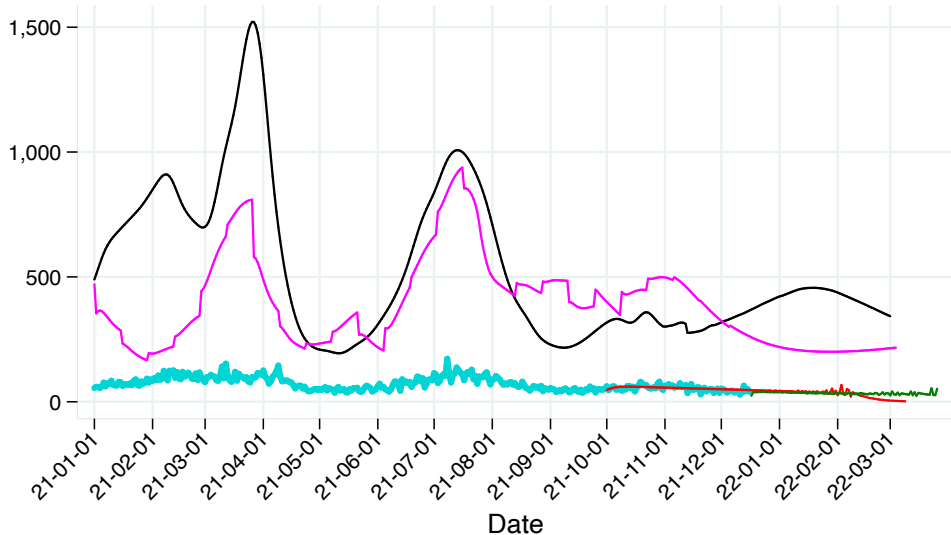
Daily cases or infections to deaths



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

2021 on, reference scenarios

Daily cases or infections to deaths



JOHN cases

DELP cases

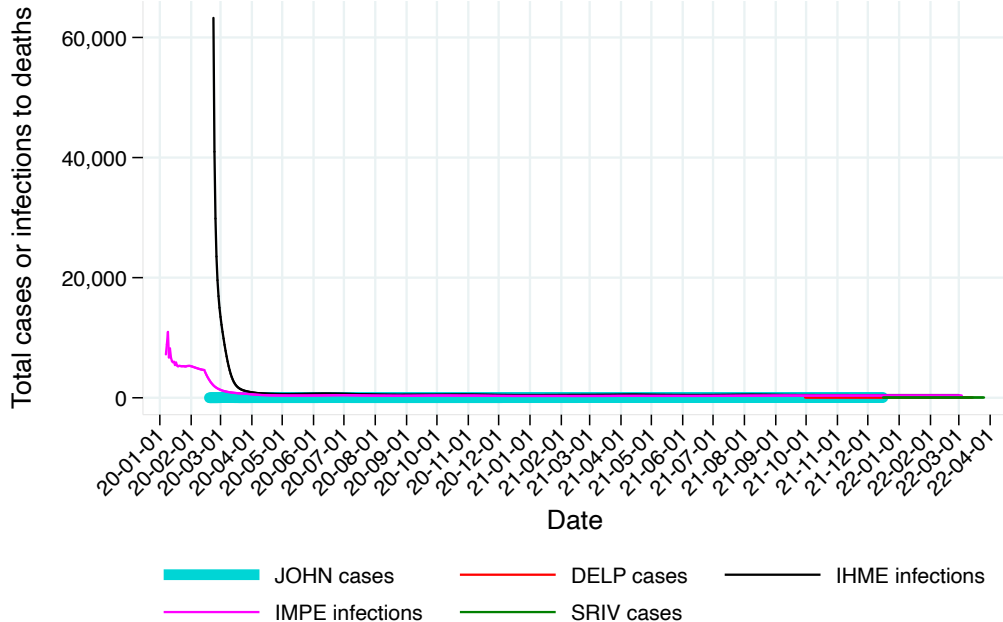
IHME infections

IMPE infections

SRIV cases

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

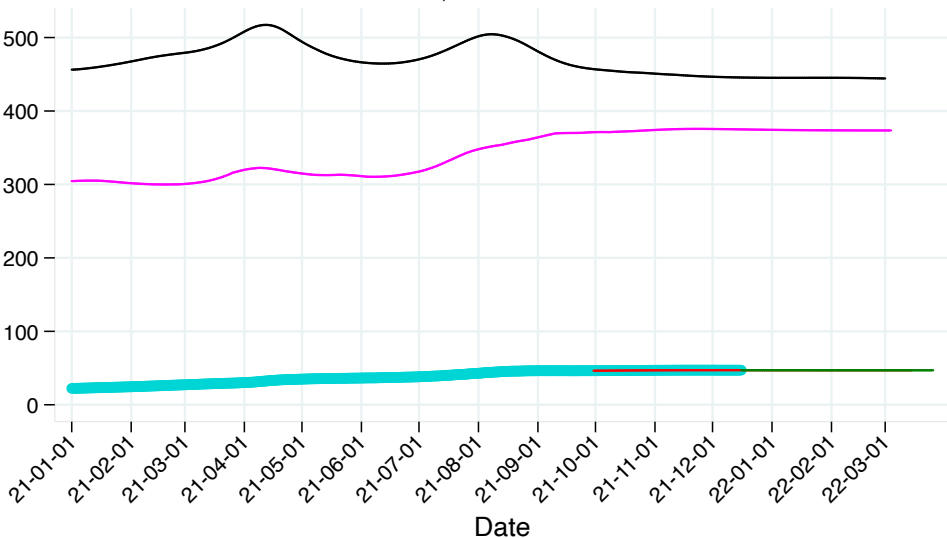
reference scenarios



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

2021 on, reference scenarios

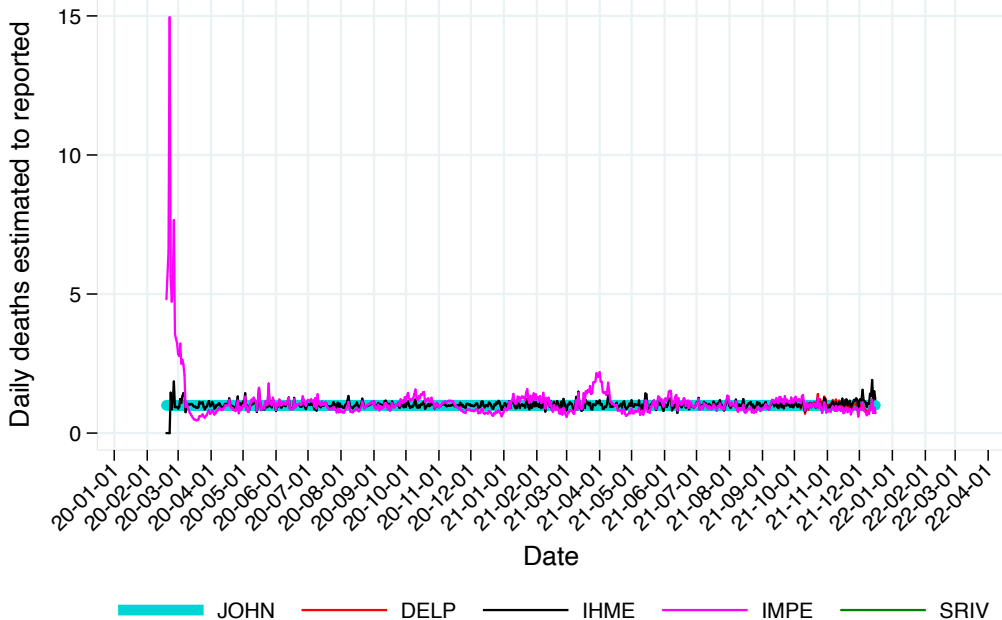
Total cases or infections to deaths



JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

COVID-19 daily deaths, estimated to reported, Iran

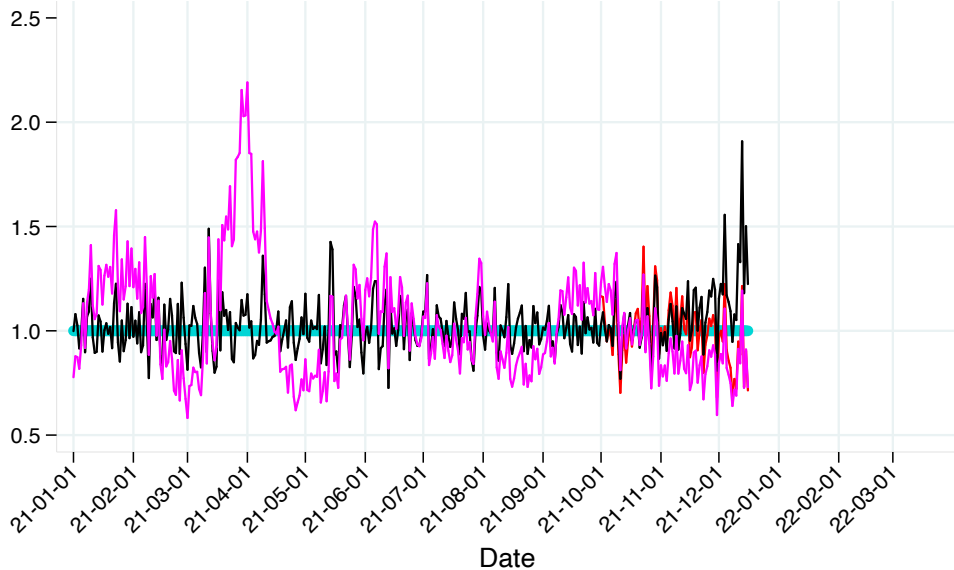
reference scenarios



COVID-19 daily deaths, estimated to reported, Iran

reference scenarios

Daily deaths estimated to reported

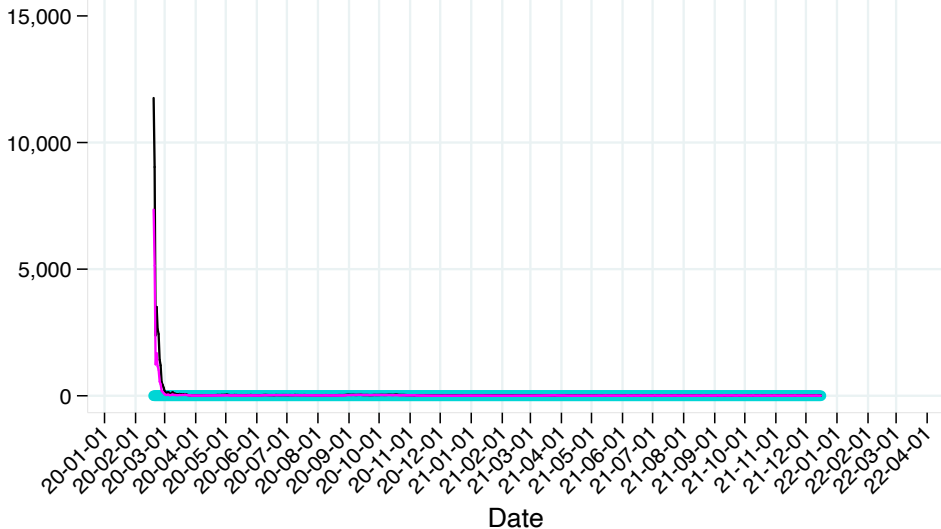


JOHN DELP IHME IMPE SRIV

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

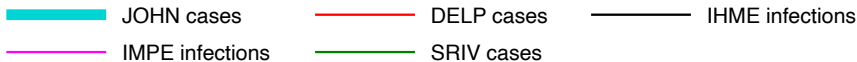
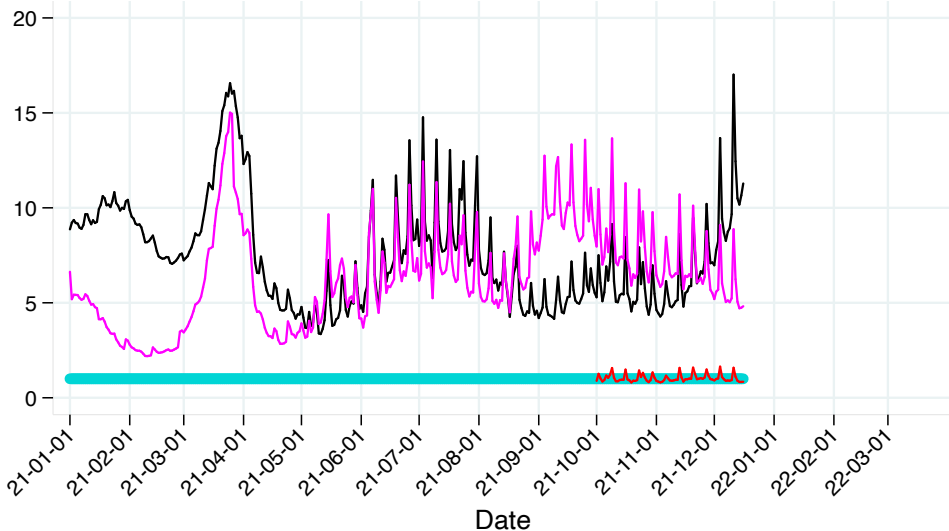


JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

COVID-19 daily cases estimated to reported, Iran

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

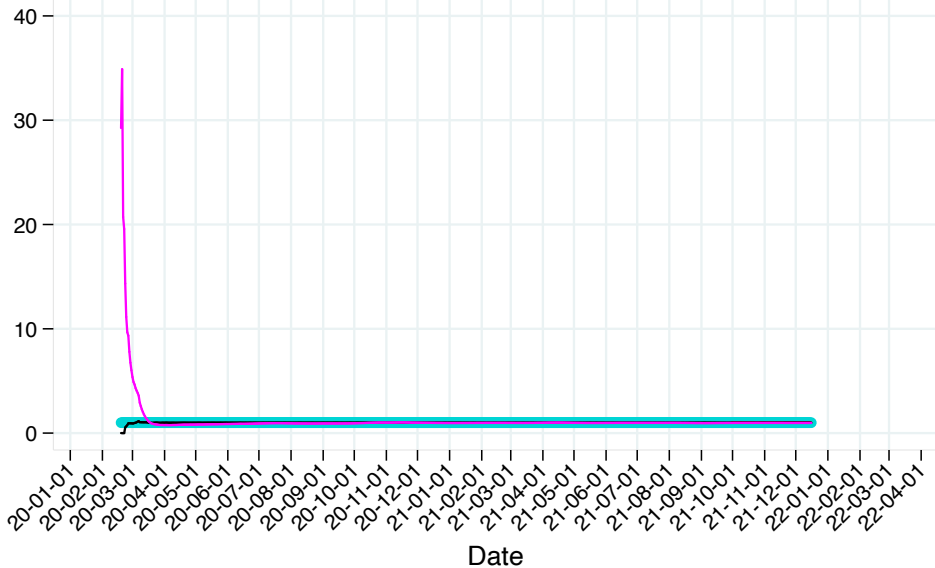
Daily cases or infections estimated to reported



COVID-19 total deaths, estimated to reported, Iran

reference scenarios

Total deaths estimated to reported

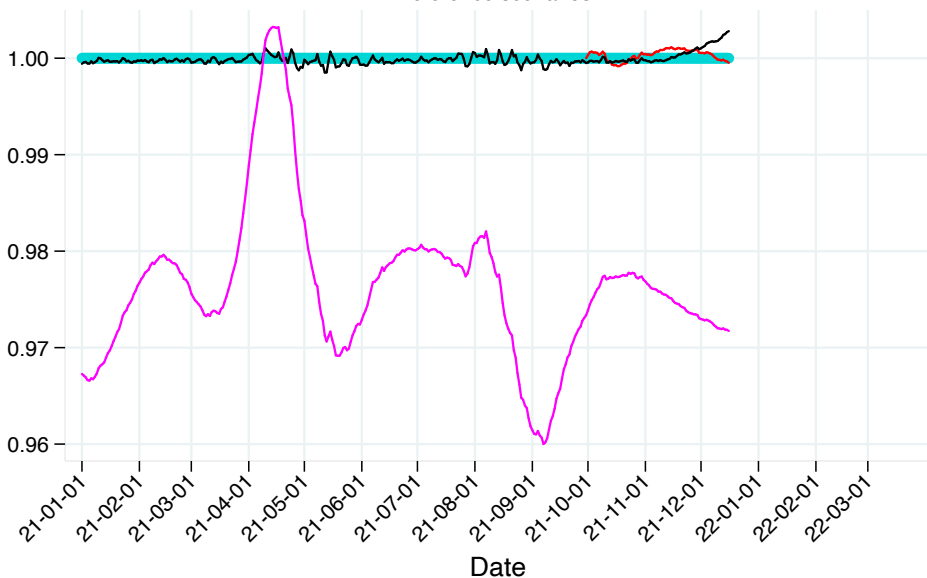


JOHN DELP IHME IMPE SRIV

COVID-19 total deaths, estimated to reported, Iran

reference scenarios

Total deaths estimated to reported

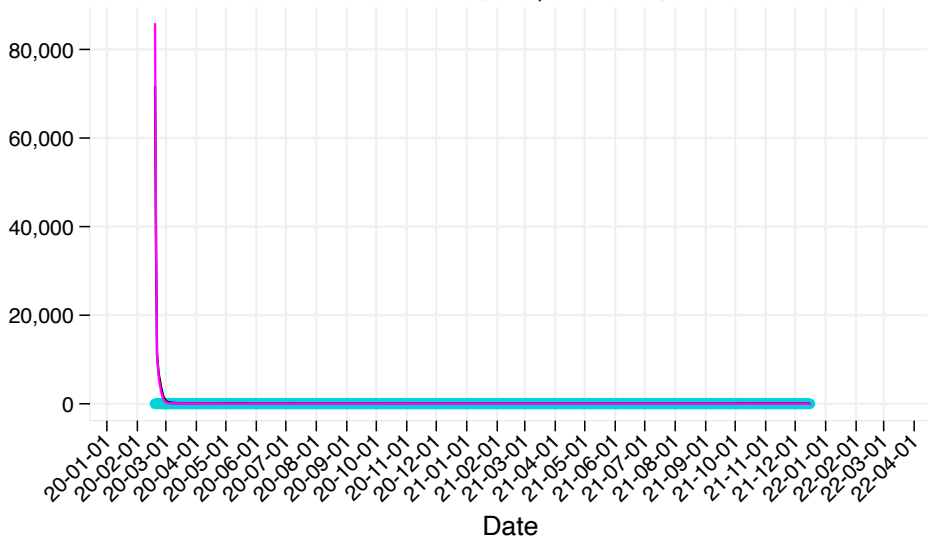


JOHN DELP IHME IMPE SRIV

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

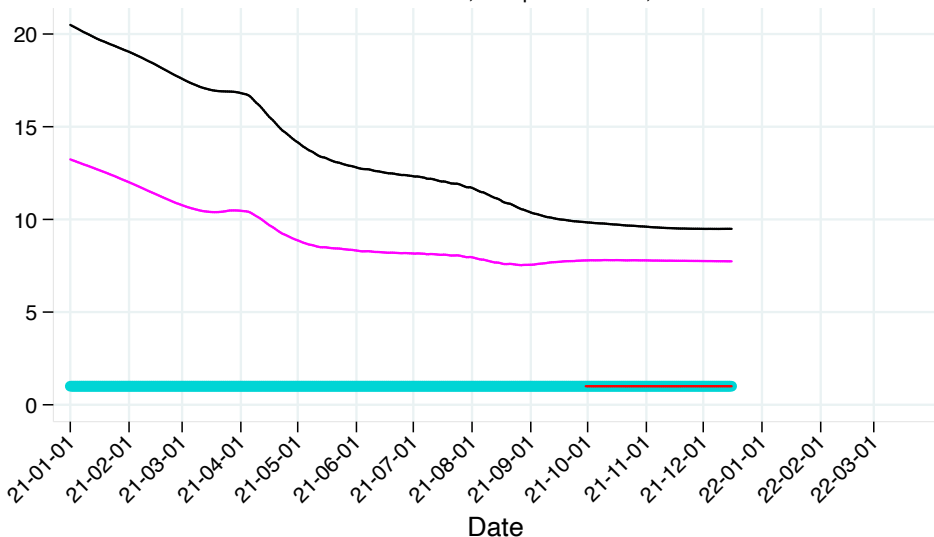


JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

COVID-19 total cases estimated to reported, Iran

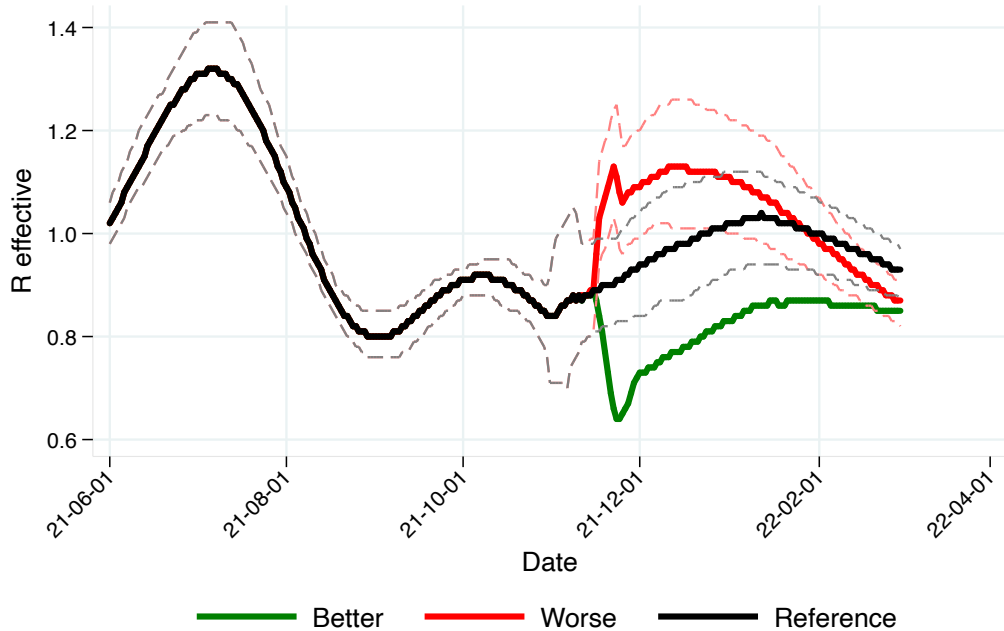
total cases or infections estimated, to reported cases; reference scenarios

Total cases or infections estimated to reported



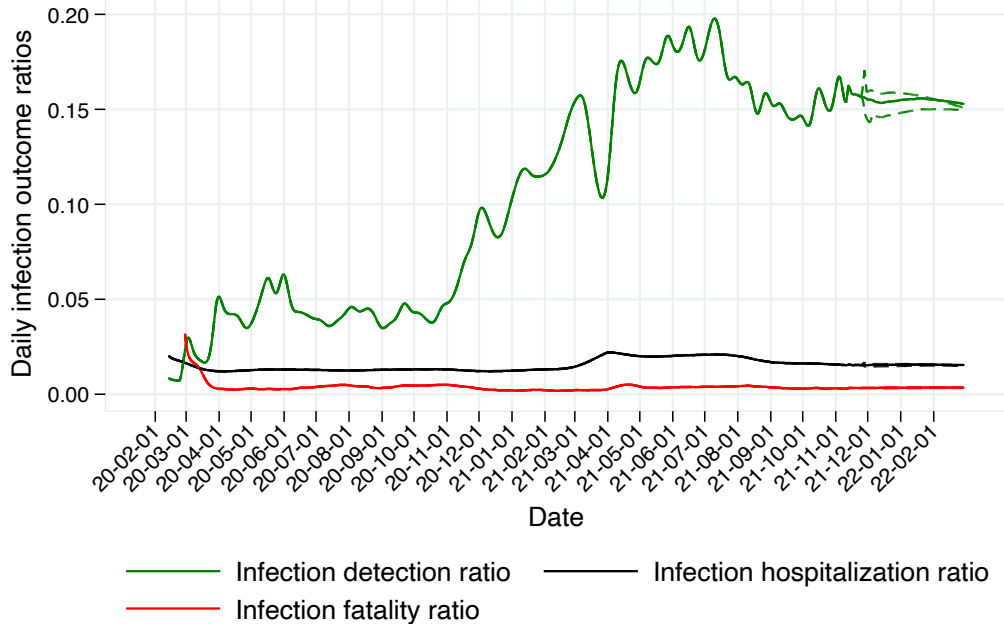
JOHN cases DELP cases IHME infections
IMPE infections SRIV cases

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



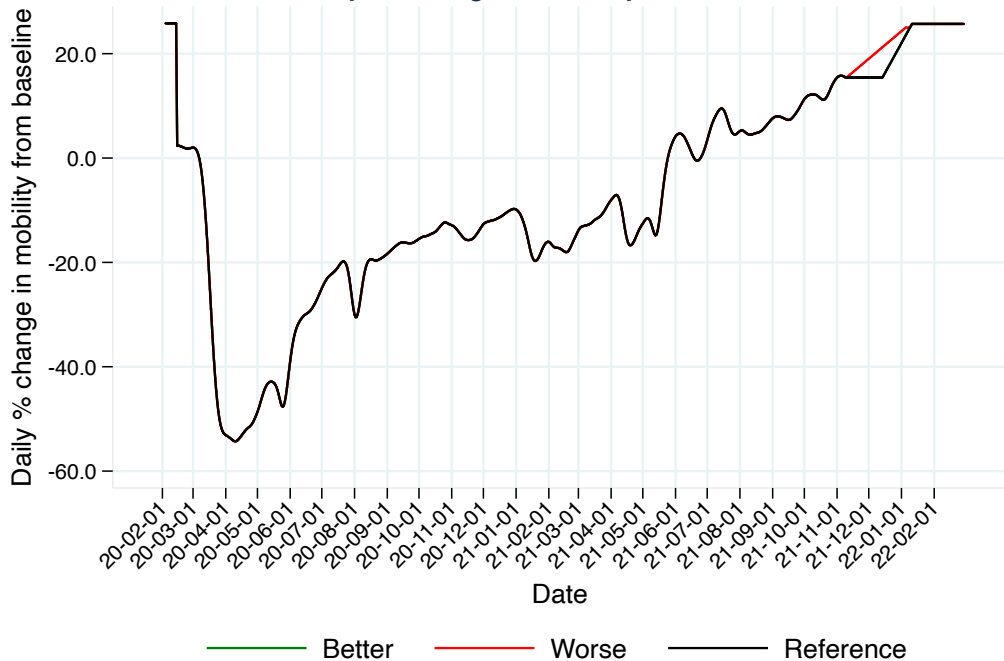
Uncertainty limits: dashed curves

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



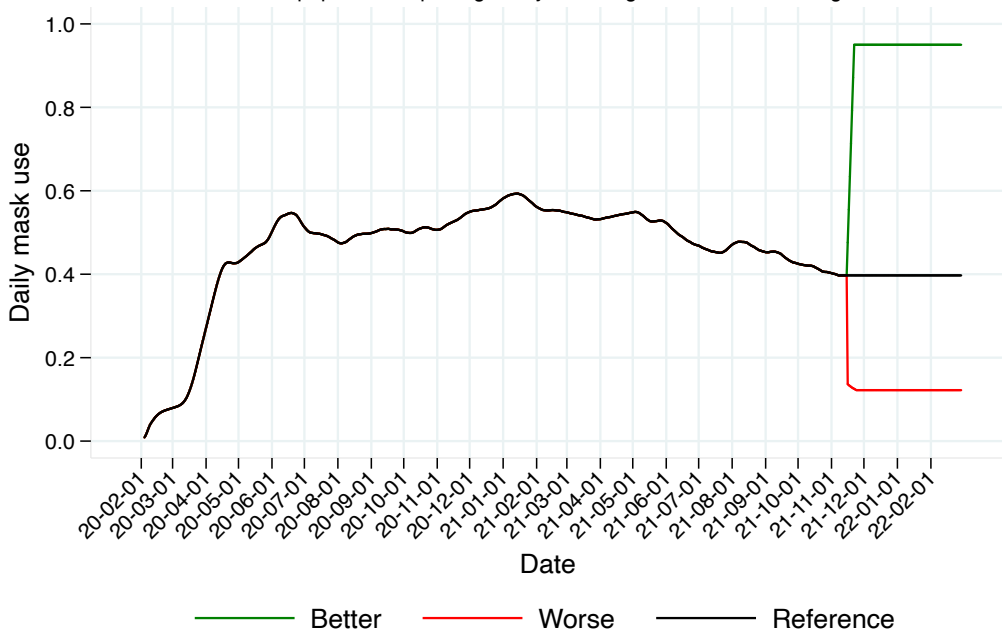
Better and worse scenarios: dashed curves

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

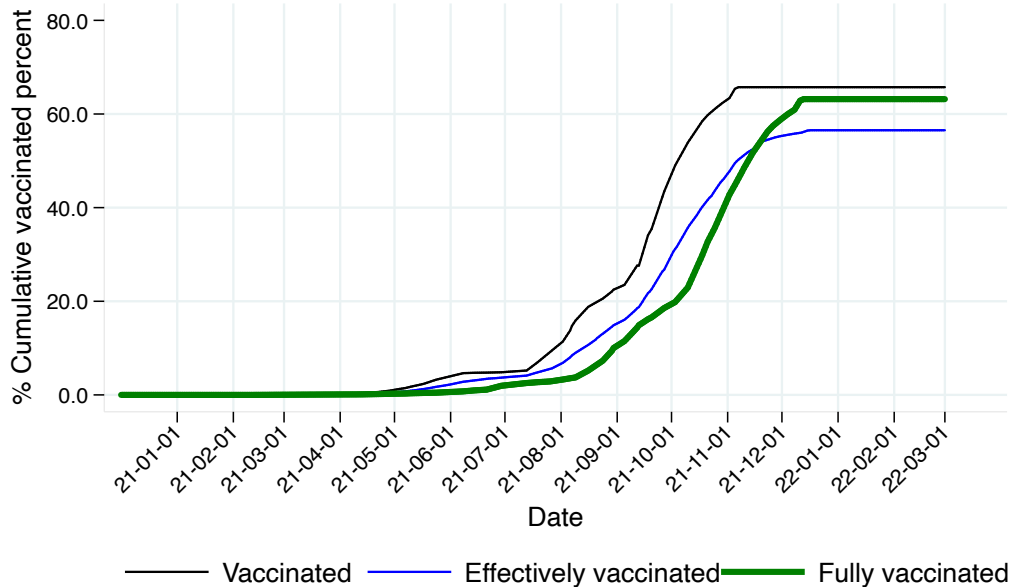


COVID-19 daily mask use, Iran, IHME, 3 scenarios

Percent of population reporting always wearing a mask when leaving home



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

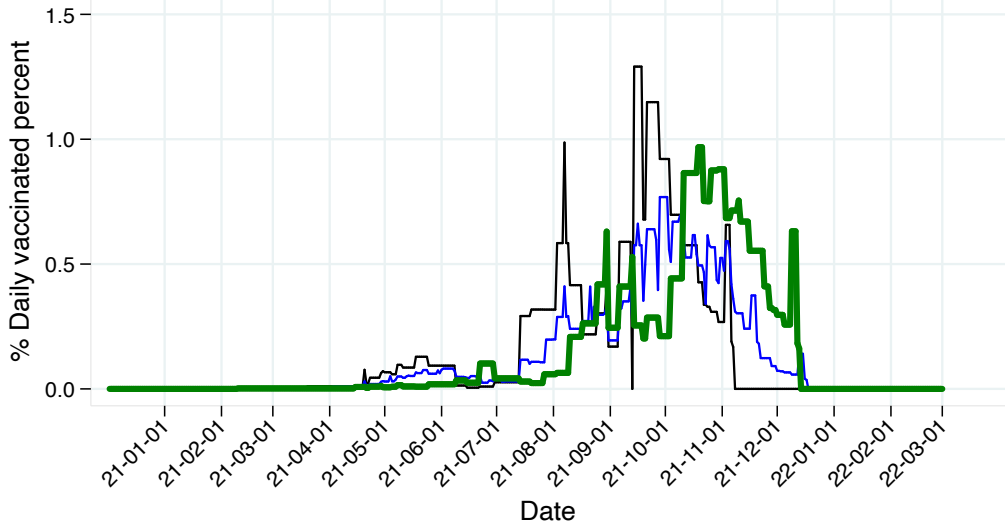


Vaccinated: Initially vaccinated (one dose of two doses)

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

