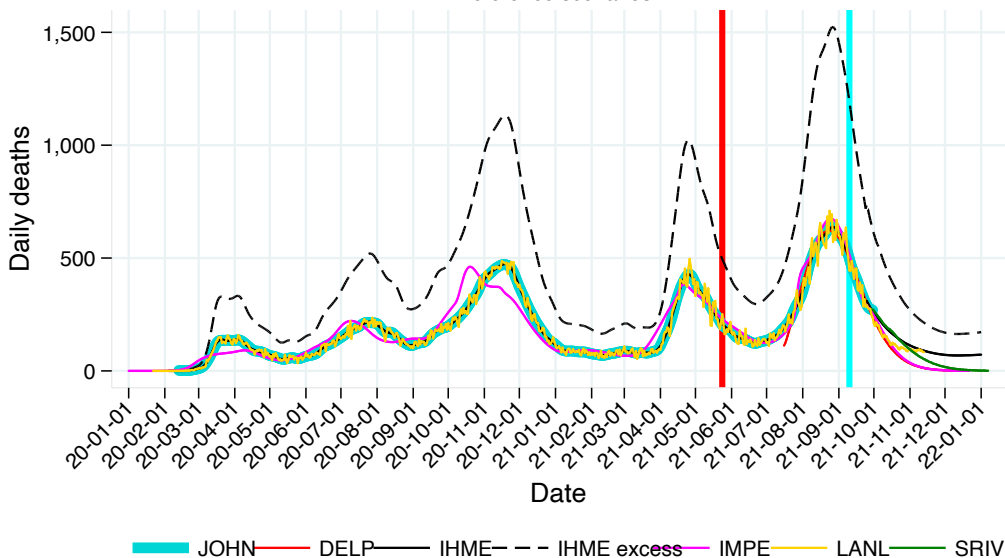


# COVID-19 daily deaths, Iran

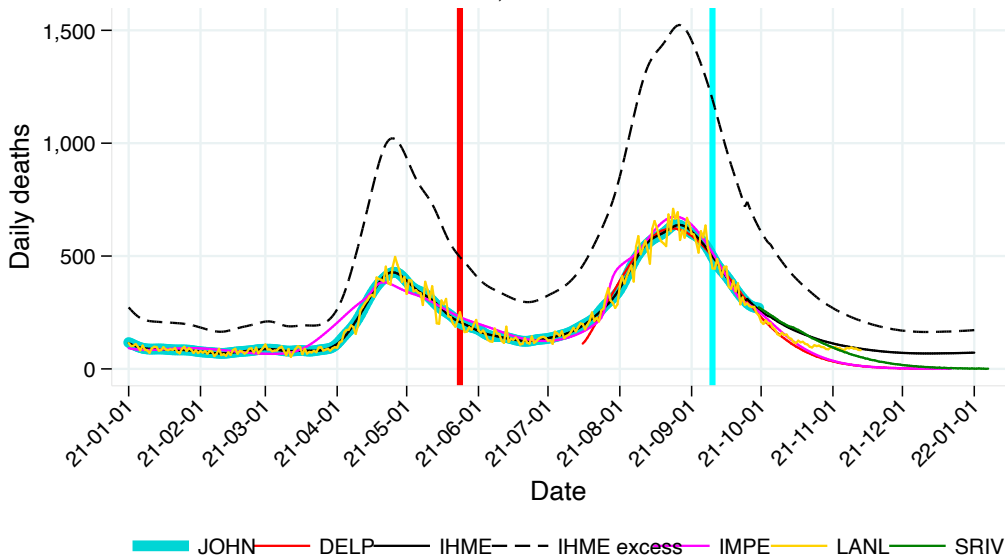
reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily deaths, Iran

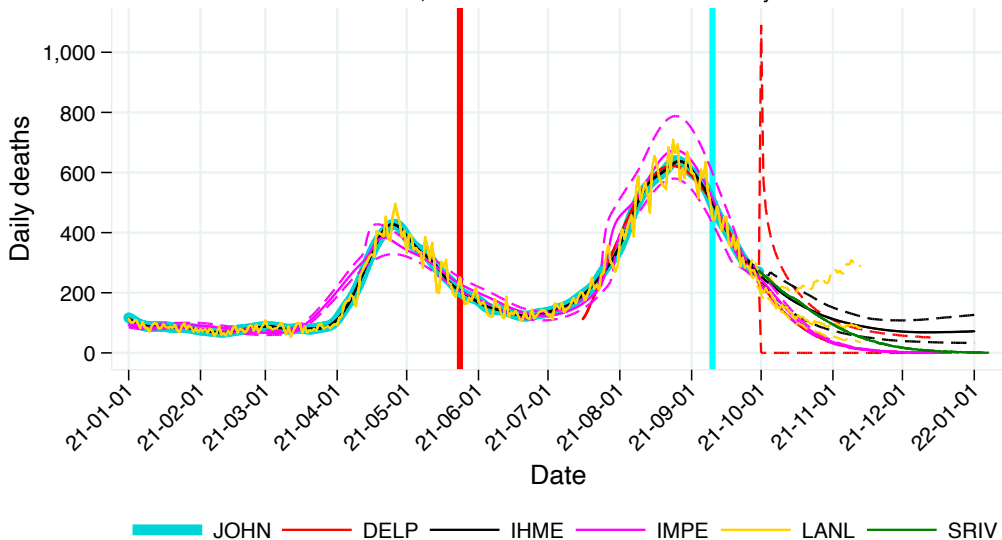
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily deaths, Iran

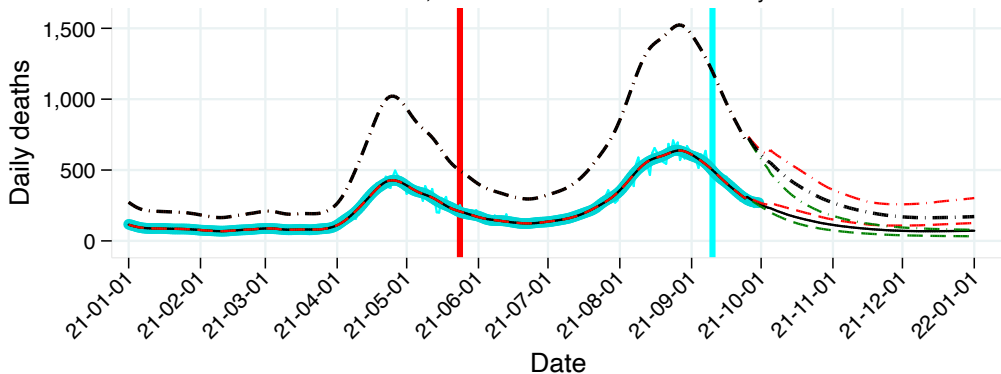
2021 on, reference scenarios with uncertainty



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily deaths, Iran, IHME

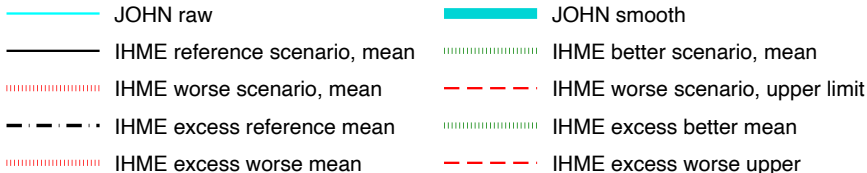
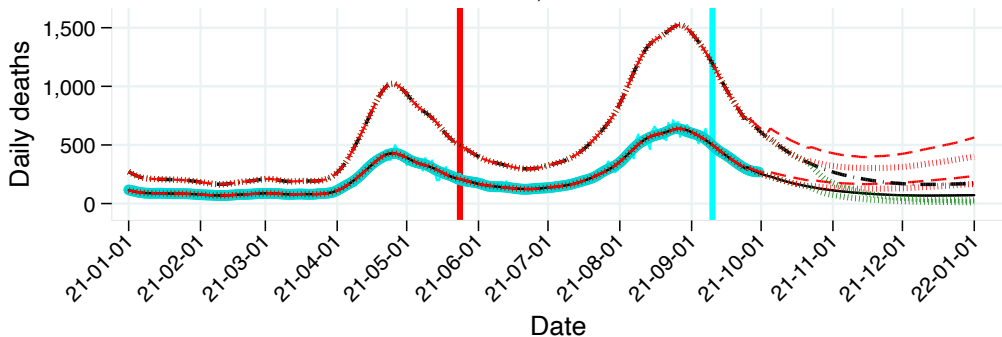
2021 on, reference scenario with uncertainty



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily deaths, Iran, IHME

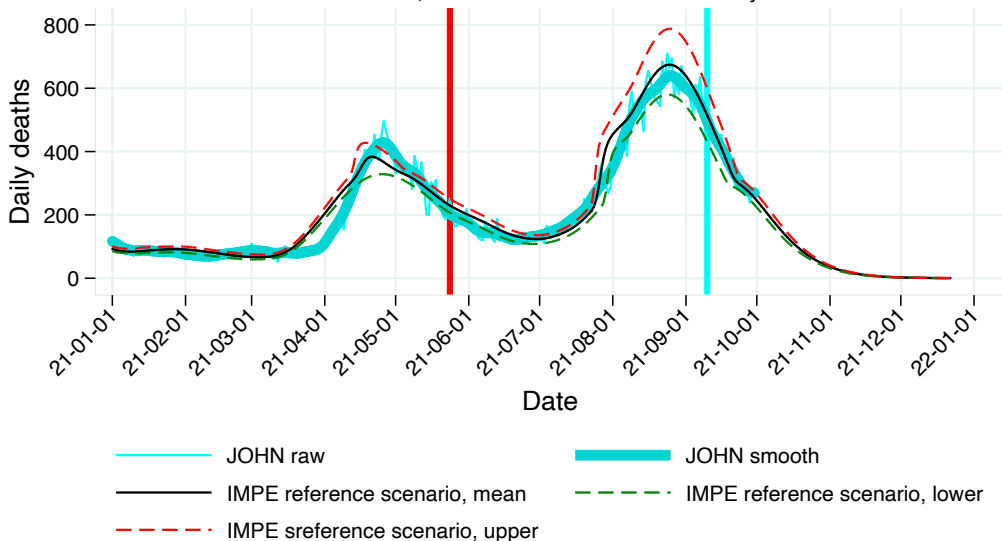
2021 on, 3 scenarios



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily deaths, Iran, IMPE

2021 on, reference scenario with uncertainty

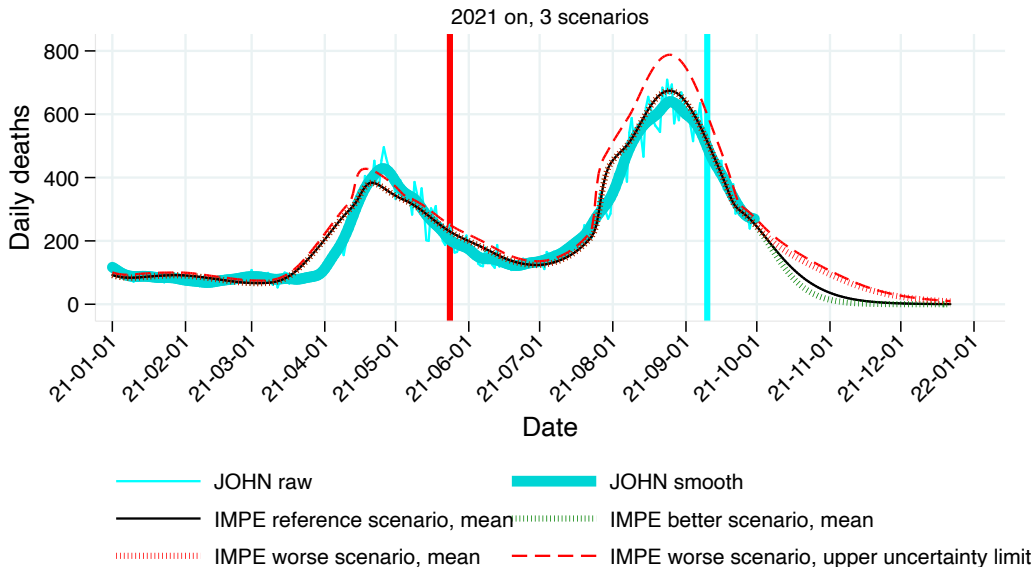


- Uncertainty limits: dashed (---) curves.

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

- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

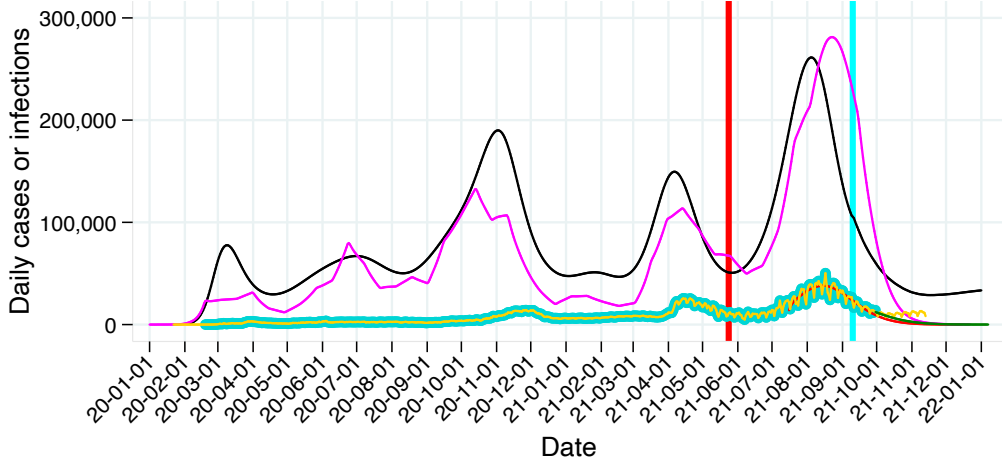
# COVID-19 daily deaths, Iran, IMPE



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily cases or infections, Iran

reference scenarios



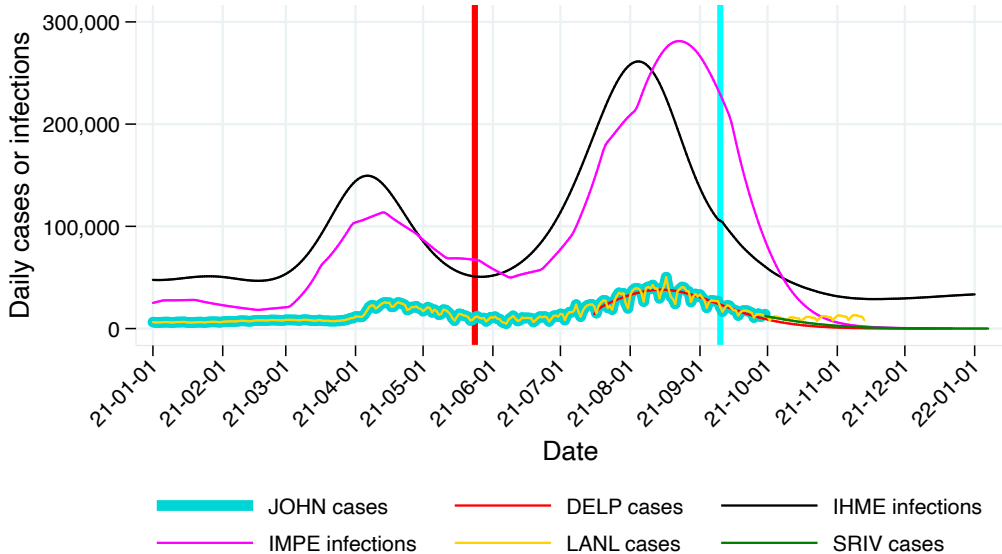
JOHN cases	DELP cases	IHME infections
IMPE infections	LANL cases	SRIV cases

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.



# COVID-19 daily cases or infections, Iran

2021 on, reference scenarios

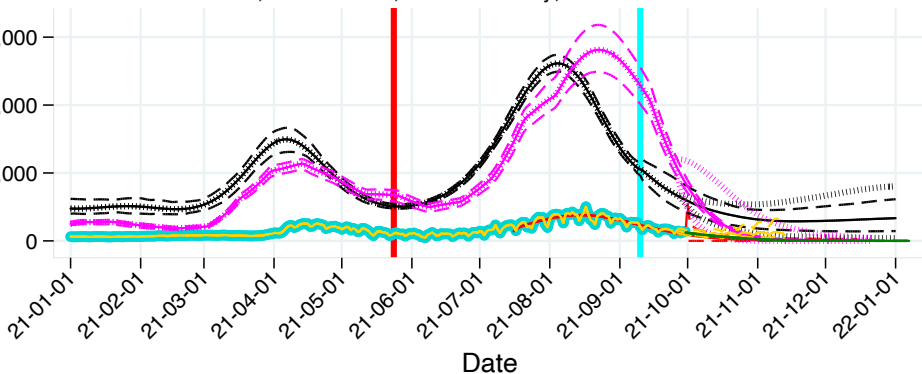


- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, inter alia, to delay and attenuate the SIXTH wave,  $\Lambda$ ,  $\pm \mu$ , relayed to the new MOH.

# COVID-19 daily cases or infections, Iran

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

Daily cases or infections

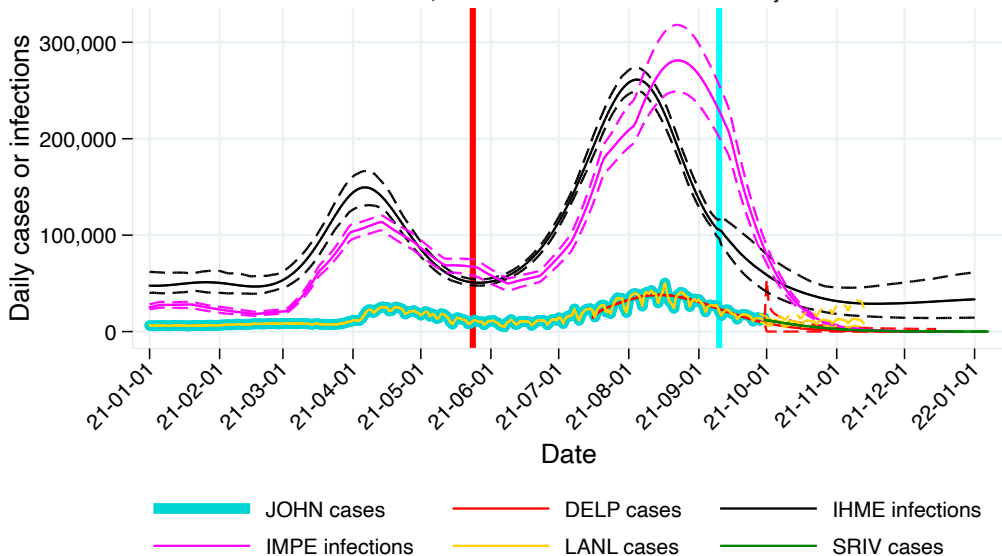


- JOHN cases
- DELP cases
- IHME reference, mean
- IHME ref, uncertainty
- IMPE reference, mean
- IMPE ref, uncertainty
- IMPE better and worse
- LANL cases
- SRIV cases

- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily cases or infections, Iran

2021 on, reference scenarios with uncertainty

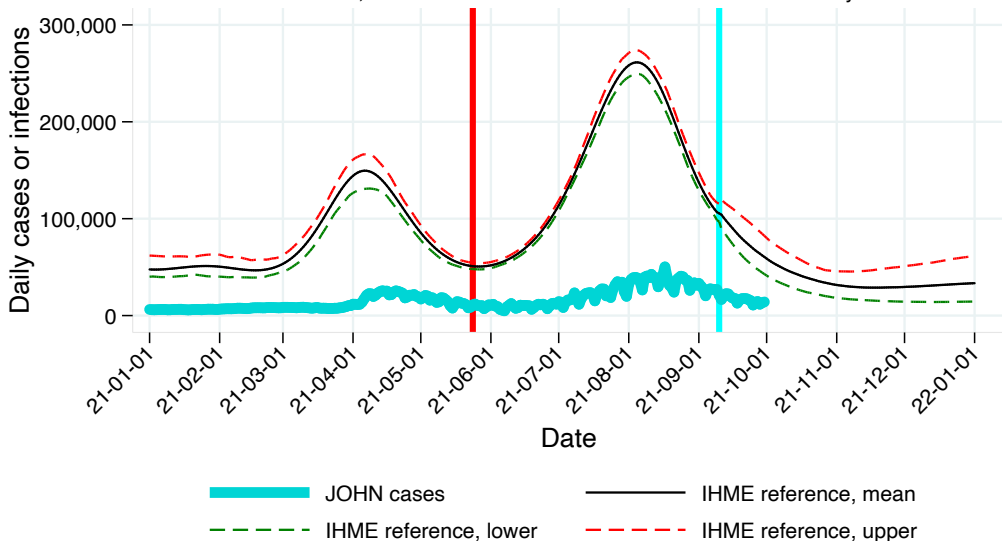


- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

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

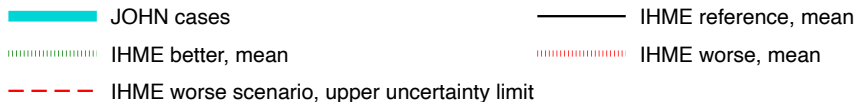
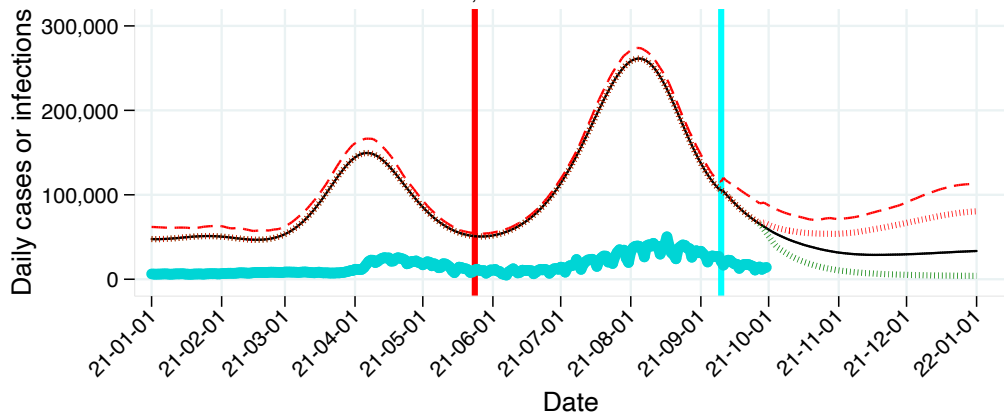
2021 on, IHME infections reference scenario with uncertainty



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

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

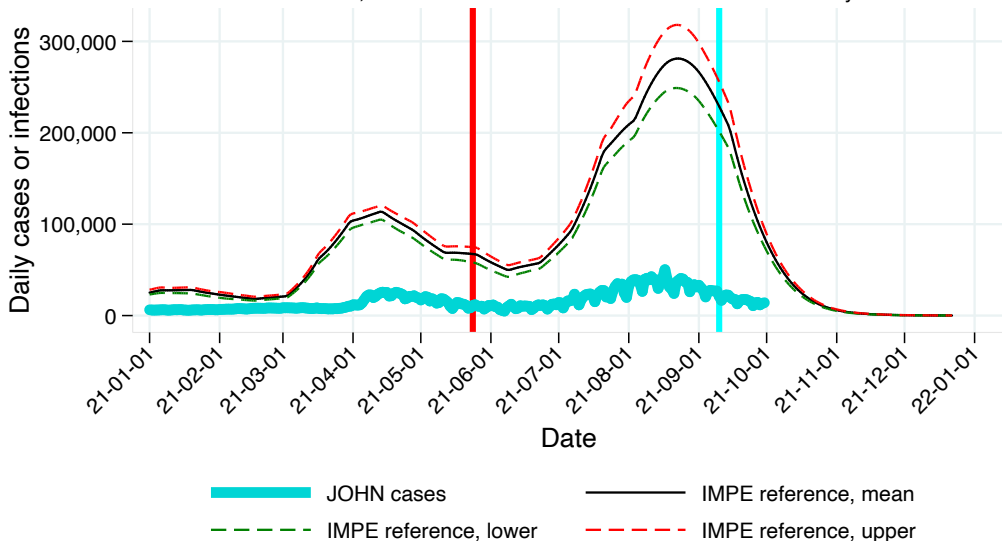
2021 on, IHME infections 3 scenarios



- Better and worse scenarios: tight dot (IIII) 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

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

2021 on, IMPE infections reference scenario with uncertainty

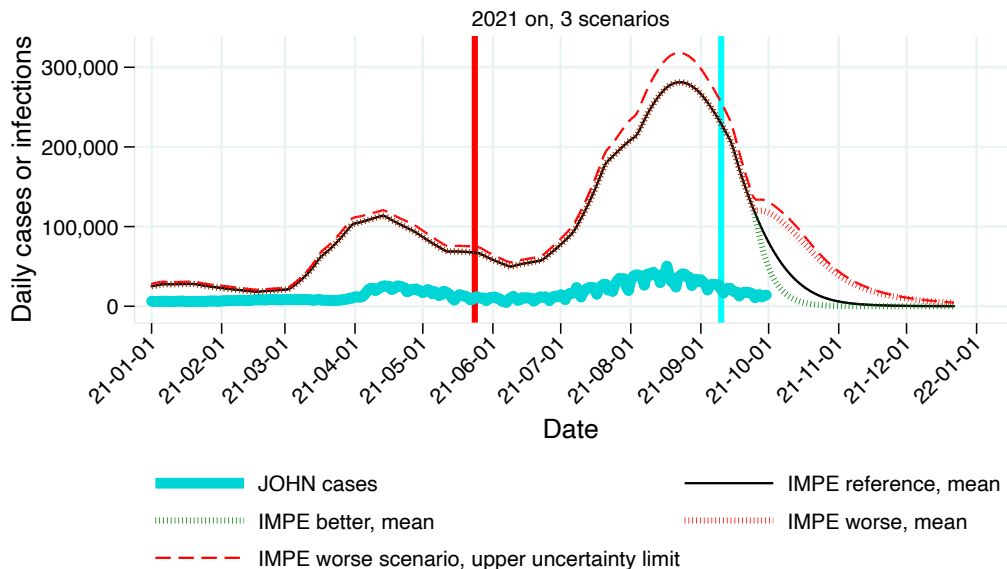


- Uncertainty limits: dashed (---) curves.

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

- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

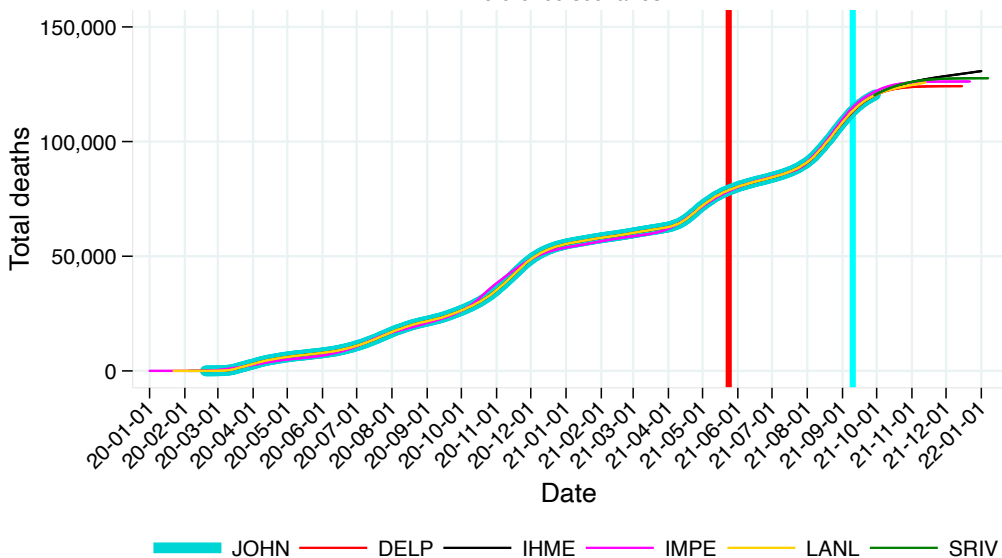
# COVID-19 daily JOHN, and infections IMPE, Iran



- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total deaths, Iran

reference scenarios

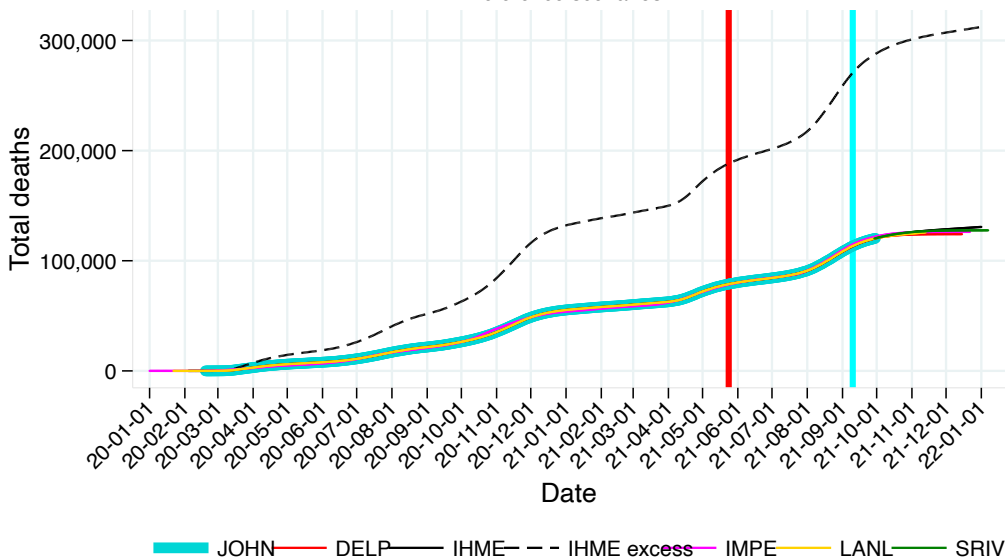


- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.



# COVID-19 total deaths, Iran

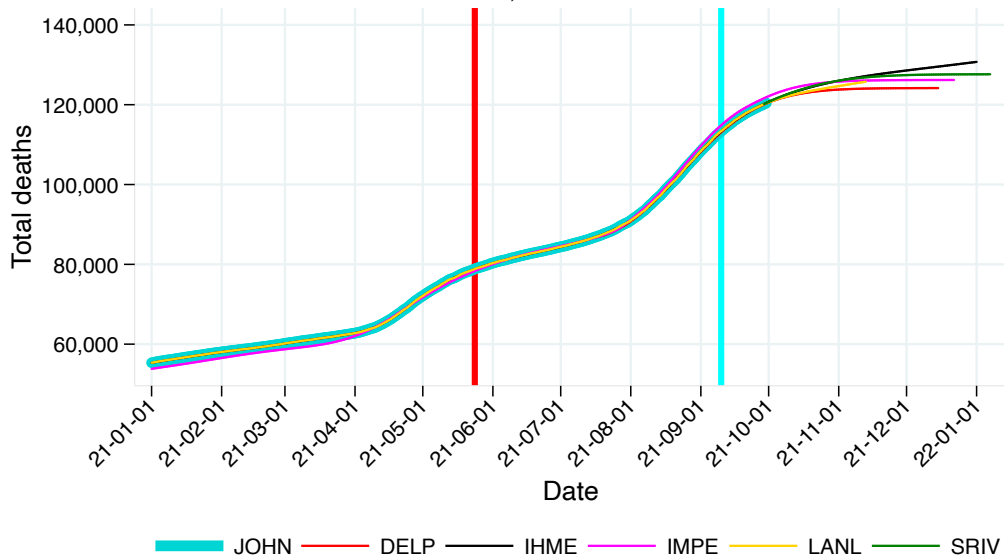
reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total deaths, Iran

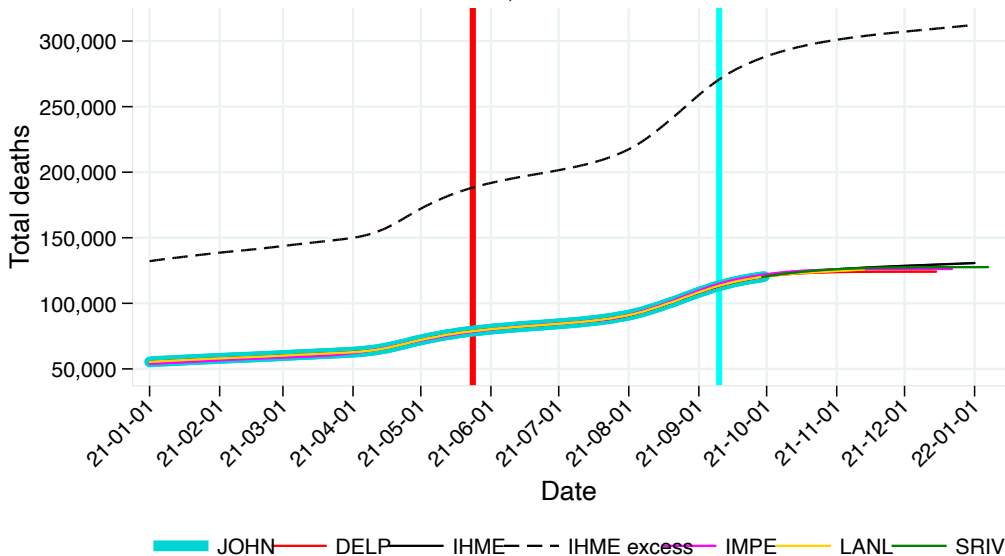
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total deaths, Iran

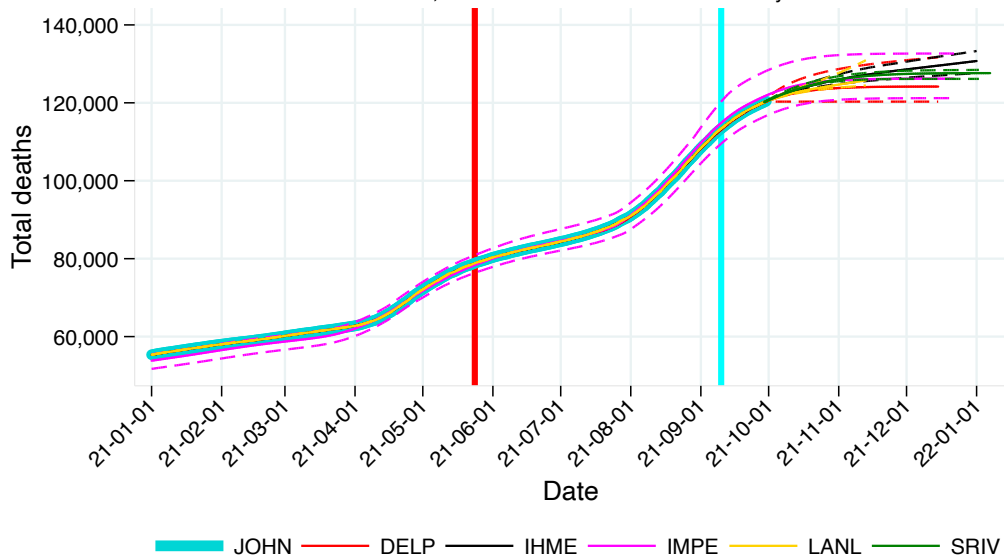
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total deaths, Iran

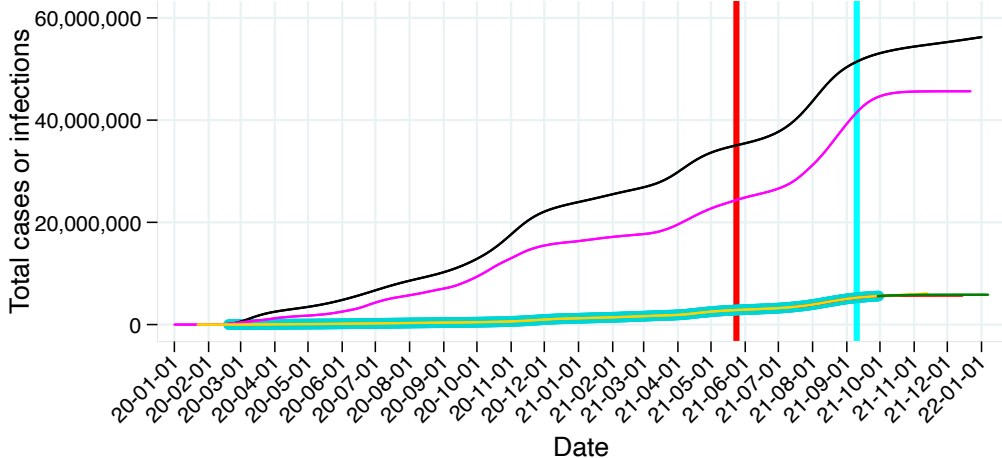
2021 on, reference scenarios with uncertainty



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total cases or infections, Iran

reference scenarios



JOHN cases

DELP cases

IHME infections

IMPE infections

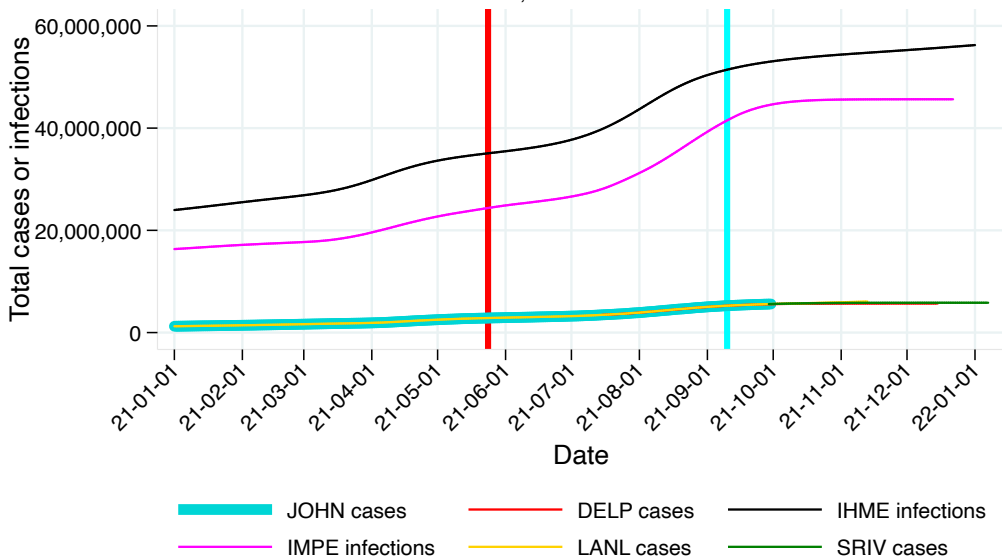
LANL cases

SRIV cases

- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total cases or infections, Iran

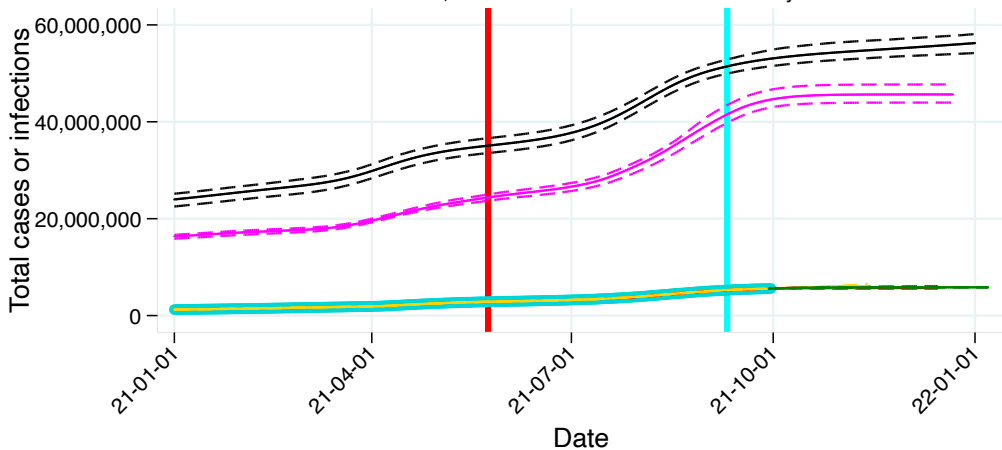
2021 on, reference scenarios



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 total cases or infections, Iran

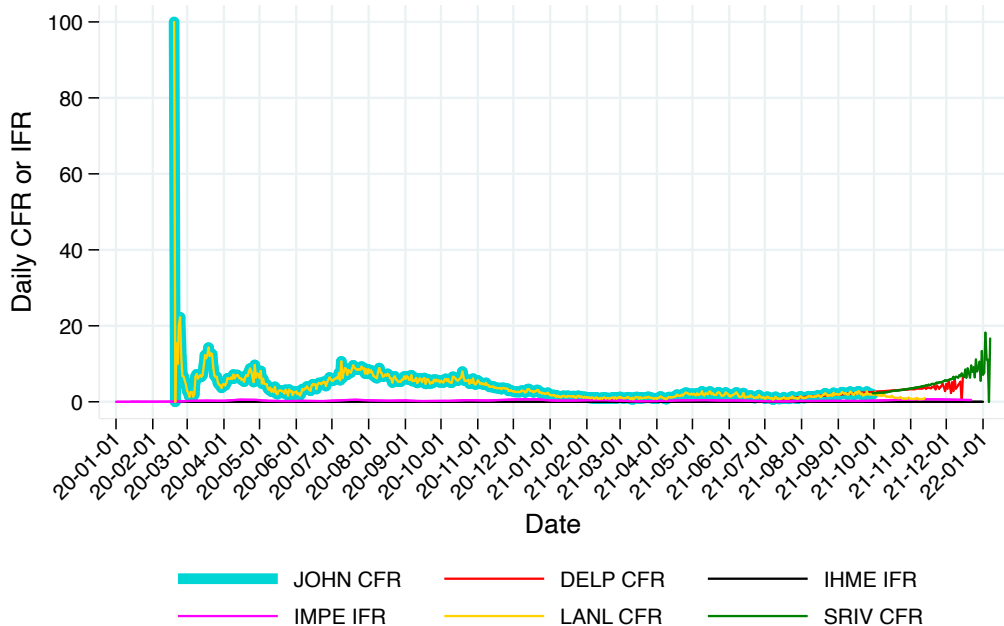
2021 on, reference scenarios with uncertainty



JOHN cases      DELP cases      IHME infections  
IMPE infections      LANL cases      SRIV cases

- 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.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

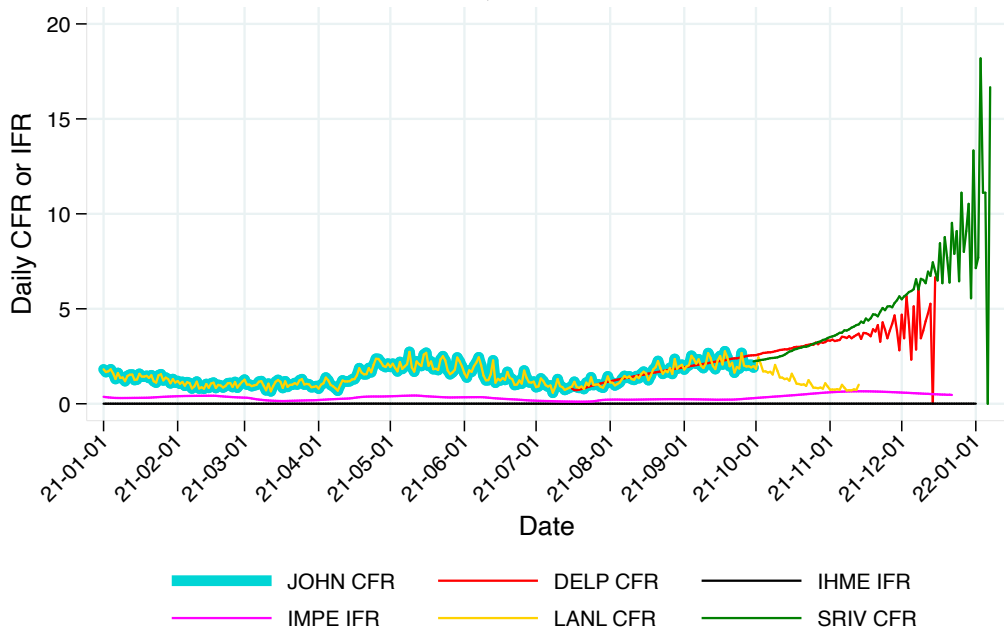
## COVID-19 daily CFR or IFR, Iran



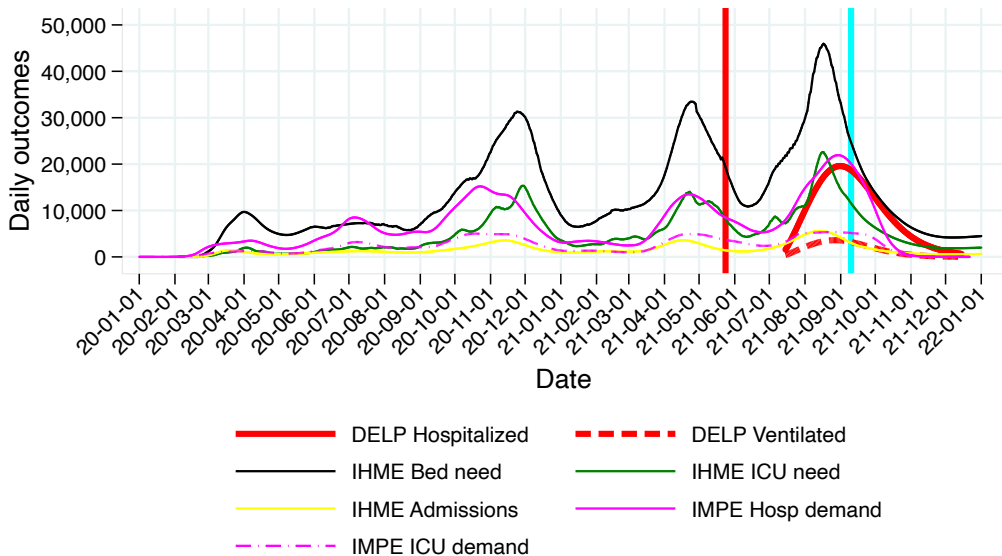


# COVID-19 daily CFR or IFR, Iran

2021 on, reference scenarios

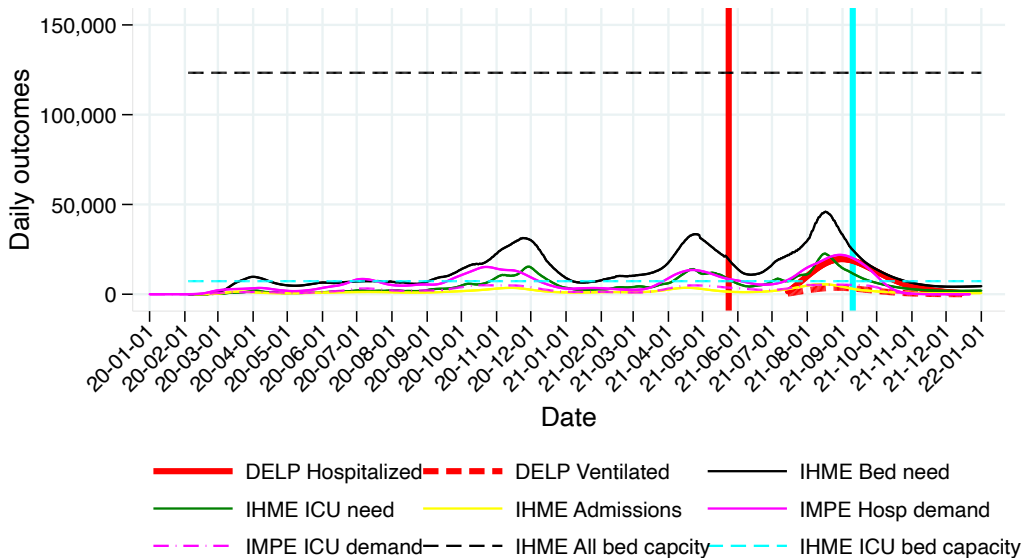


## COVID-19 daily hospital-related outcomes Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

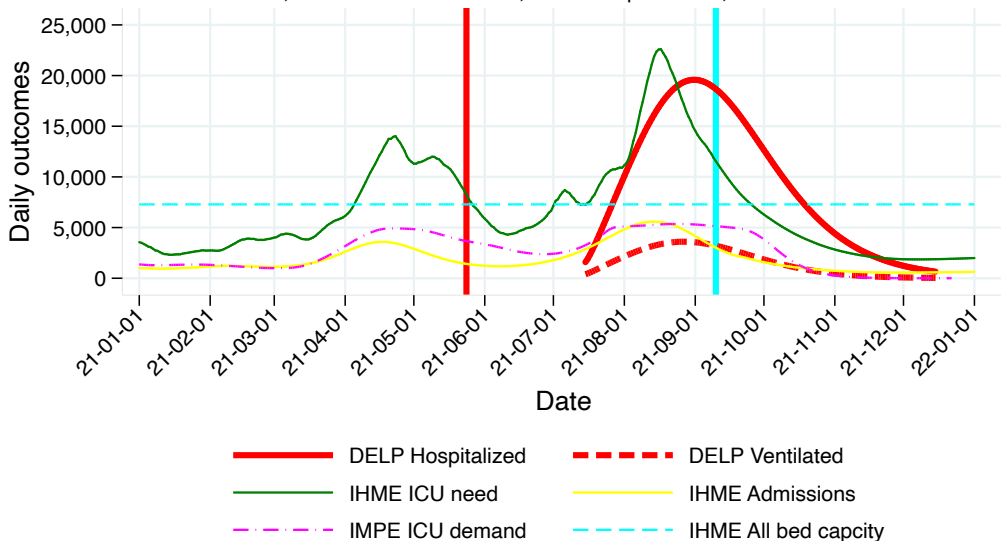
## COVID-19 daily hospital-related outcomes Iran



- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.
- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

# COVID-19 daily hospital-related outcomes Iran

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



- Uncertainty limits: dashed curves.

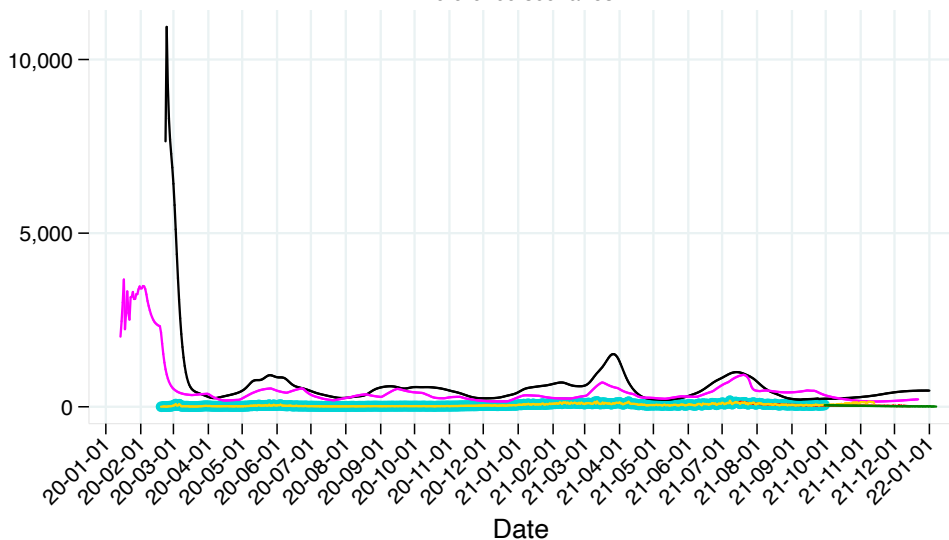
- Red line: 20210424 online meeting; The estimated probability, timing, dimensions, drivers, and preventive measures of the FIFTH wave and Delta were discussed with MOH.

- Cyan line: 20210910; Travel restrictions to Iraq, surveillance of variants, inter alia, to delay and attenuate the SIXTH wave, Lambda, and +/- Mu, relayed to the new MOH.

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

reference scenarios

Daily cases or infections to deaths

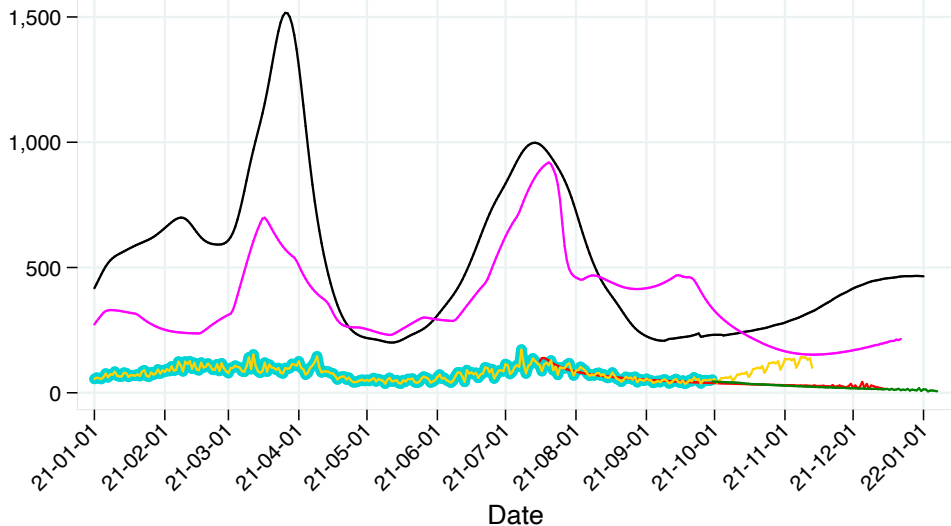


JOHN cases	DELP cases	IHME infections
IMPE infections	LANL cases	SRIV cases

# 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	LANL cases	SRIV cases

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

reference scenarios

Total cases or infections to deaths

50,000

40,000

30,000

20,000

10,000

0

20-01-01 20-02-01 20-03-01 20-04-01 20-05-01 20-06-01 20-07-01 20-08-01 20-09-01 20-10-01 20-11-01 20-12-01 21-01-01 21-02-01 21-03-01 21-04-01 21-05-01 21-06-01 21-07-01 21-08-01 21-09-01 21-10-01 21-11-01 21-12-01 22-01-01

Date



JOHN cases



DELP cases



IHME infections



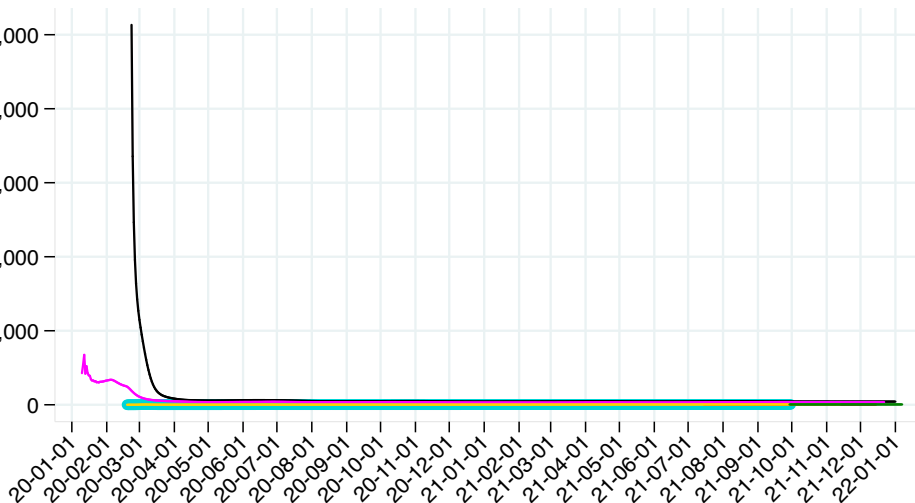
IMPE infections



LANL cases



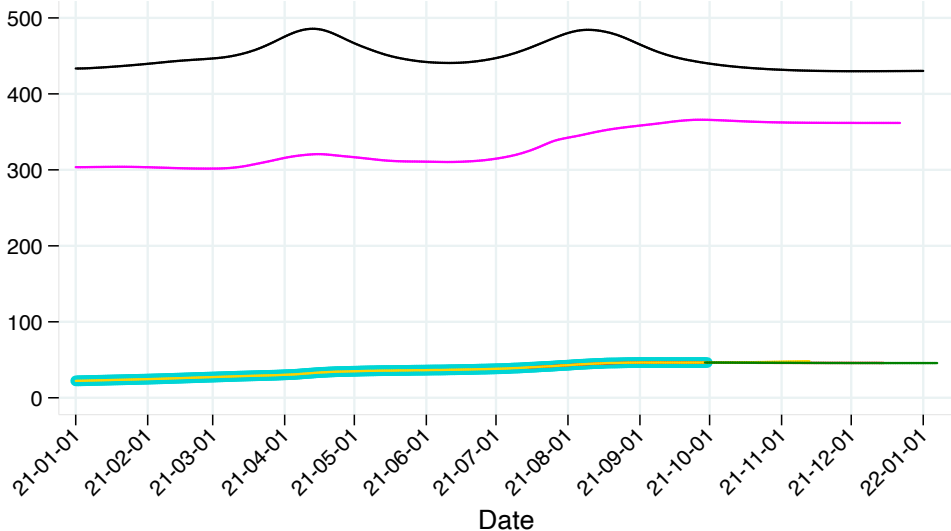
SRIV cases



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

2021 on, reference scenarios

Total cases or infections to deaths

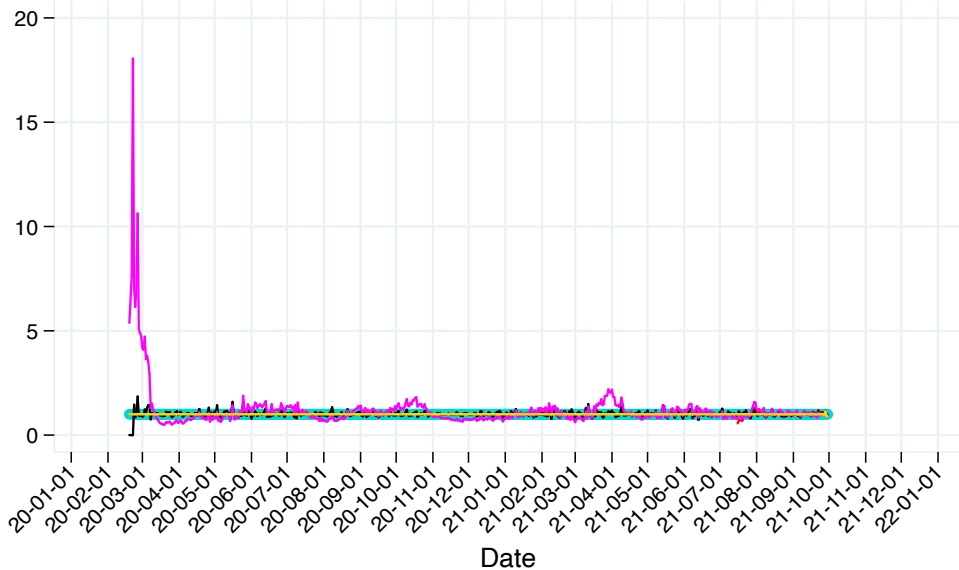




# COVID-19 daily deaths, estimated to reported, Iran

reference scenarios

Daily deaths estimated to reported

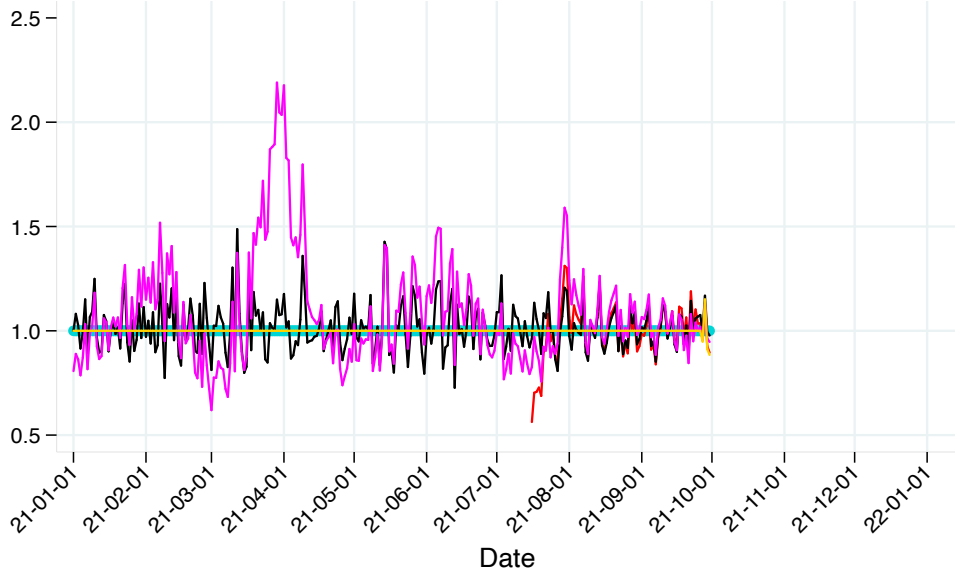


JOHN DELP IHME IMPE LANL SRIV

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

reference scenarios

Daily deaths estimated to reported

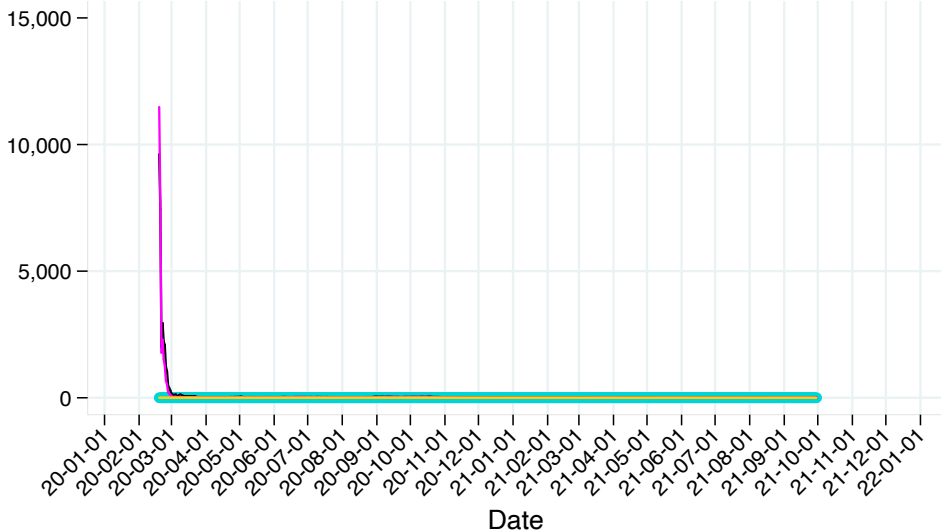


JOHN DELP IHME IMPE LANL SRIV

# 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

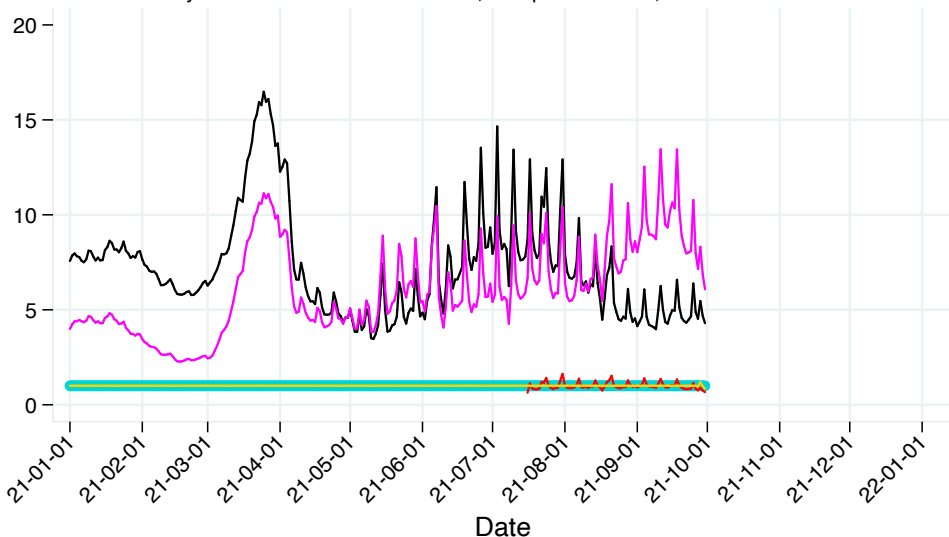


JOHN cases DELP cases IHME infections  
IMPE infections LANL cases SRIV cases

# 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

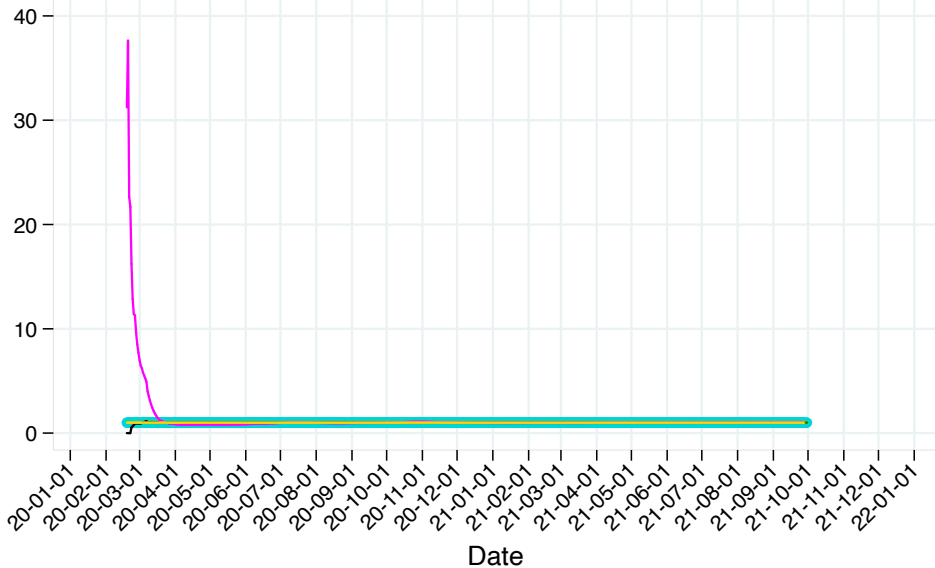


JOHN cases  
IMPE infections  
DELP cases  
LANL cases  
IHME infections  
SRIV cases

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

reference scenarios

Total deaths estimated to reported

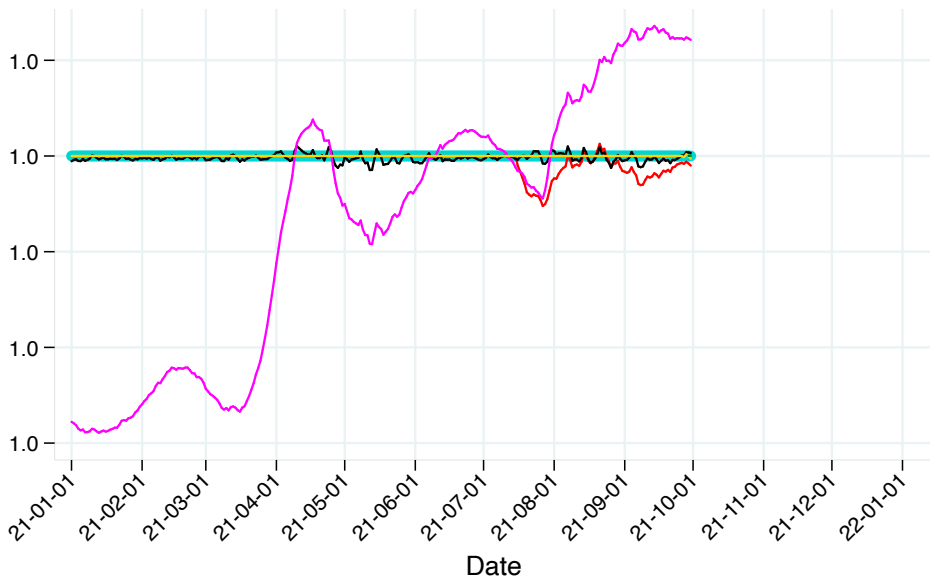


JOHN DELP IHME IMPE LANL SRIV

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

reference scenarios

Total deaths estimated to reported

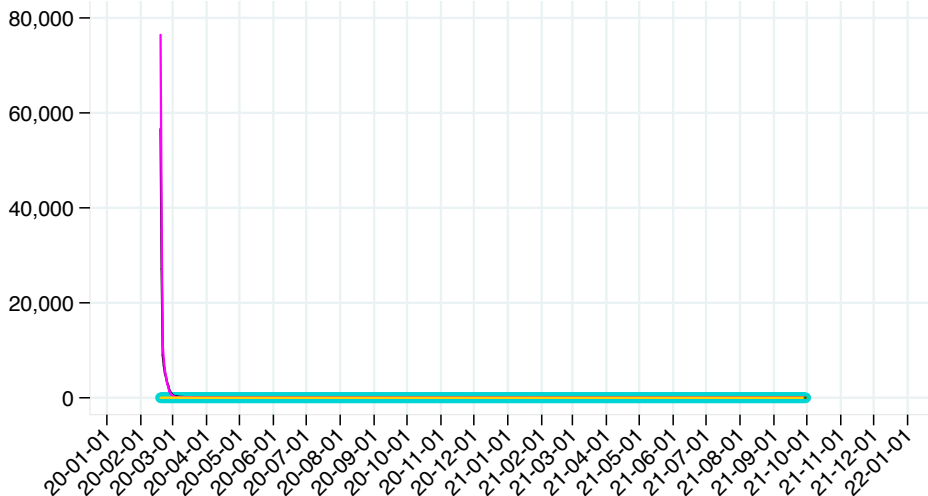


JOHN DELP IHME IMPE LANL SRIV

# 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

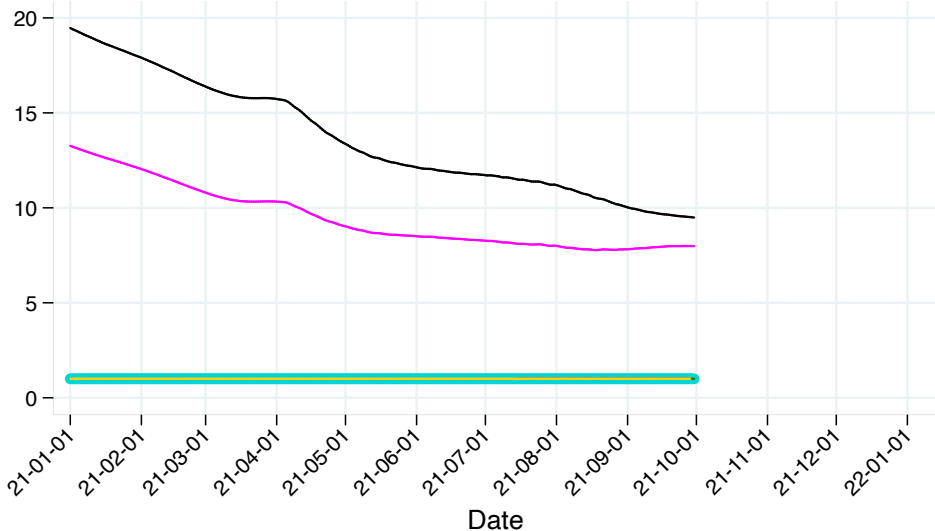


JOHN cases DELP cases IHME infections  
IMPE infections LANL cases SRIV cases

# COVID-19 total cases estimated to reported, Iran

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

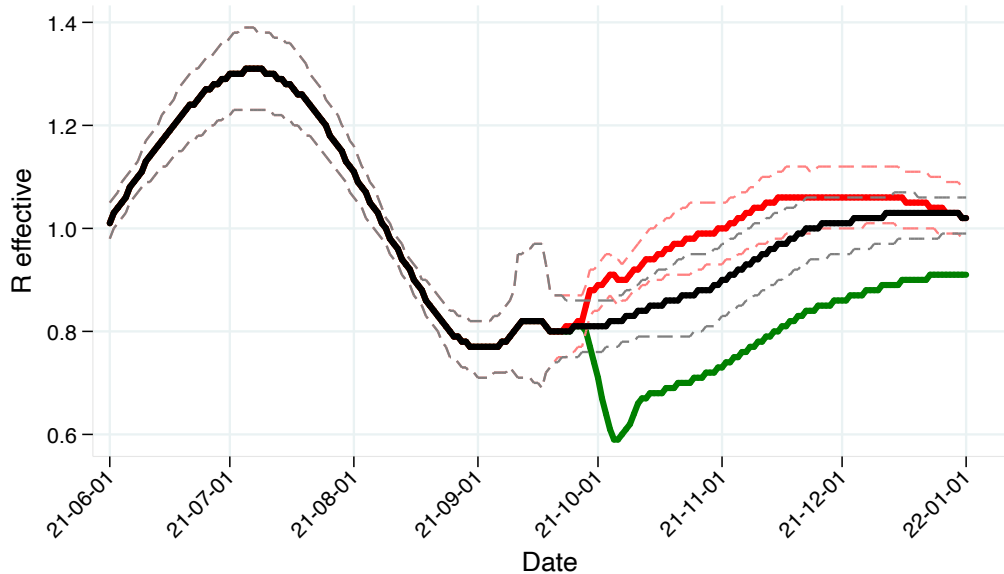
Total cases or infections estimated to reported



JOHN cases DELP cases IHME infections  
IMPE infections LANL cases SRIV cases



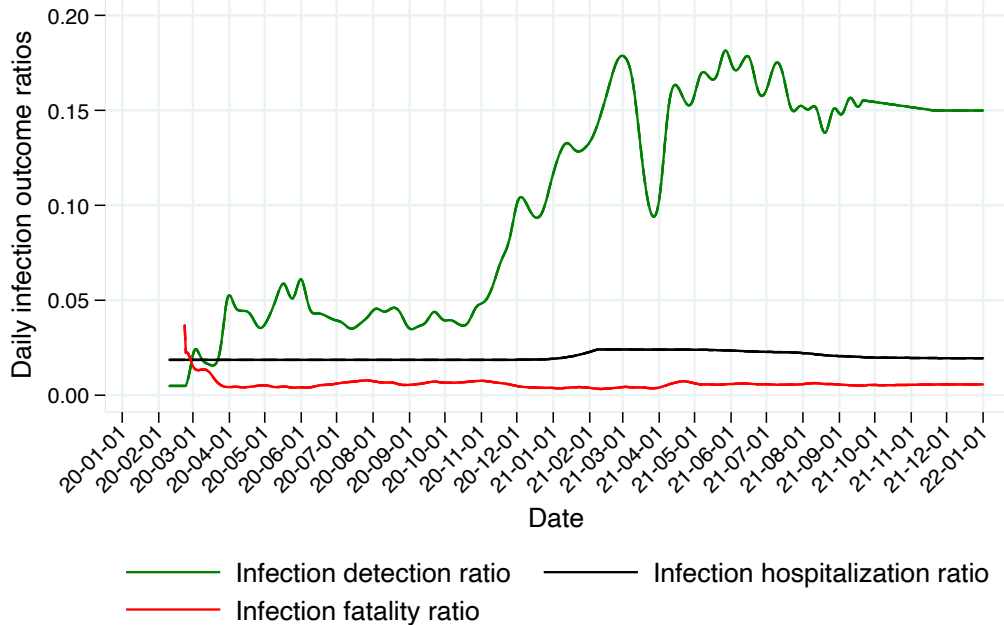
COVID-19 R effective, Iran, IHME, 3 scenarios



— Better    — Worse    — Reference

Uncertainty limits: dashed curves

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



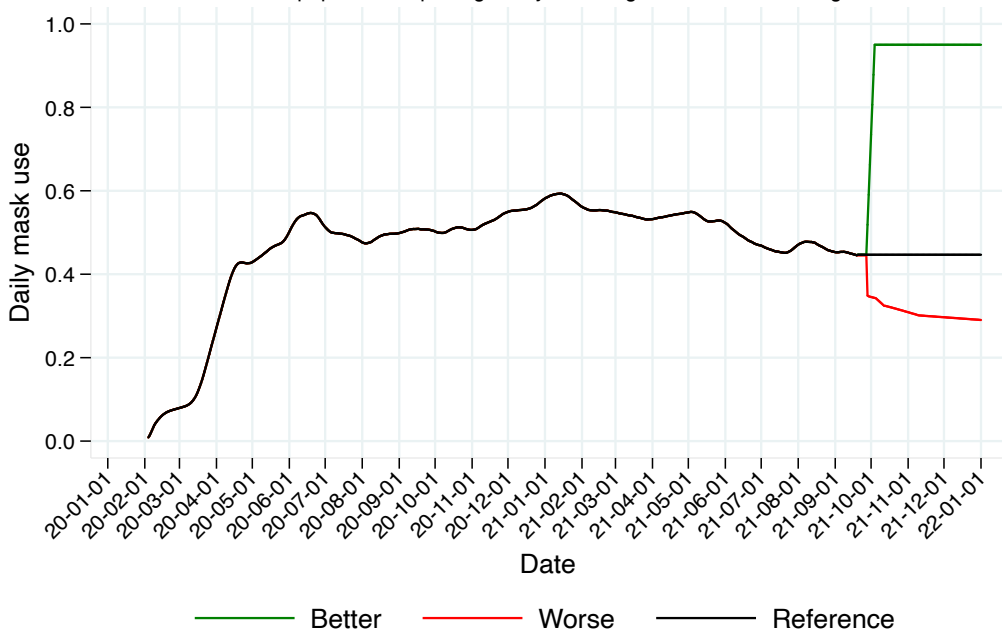
Better and worse scenarios: dashed curves

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

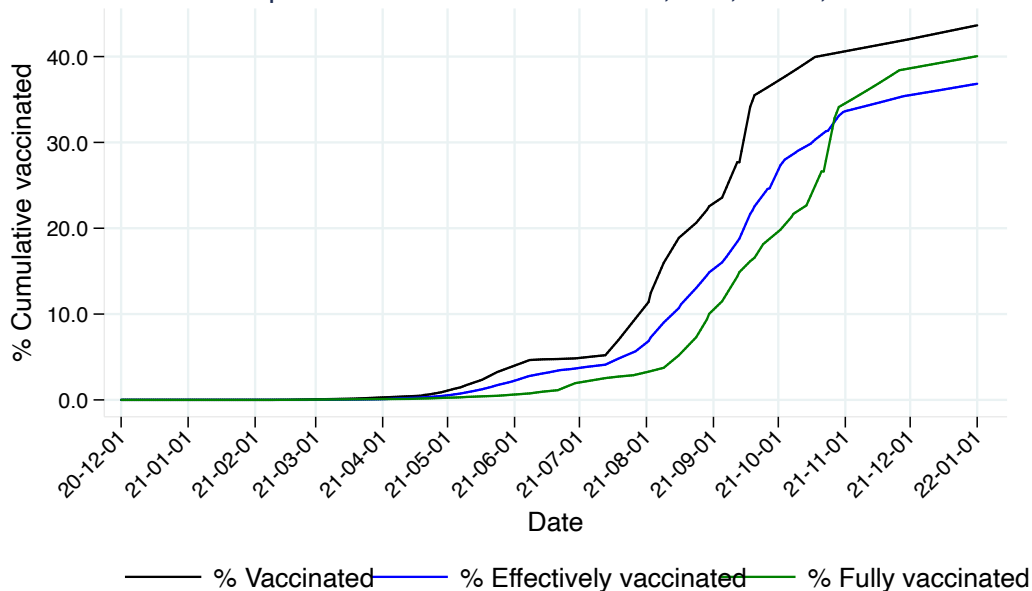


# COVID-19 daily mask use, Iran, IHME, 3 scenarios

Percent of population reporting always wearing a mask when leaving home



COVID-19 percent cumulative vaccinated, 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