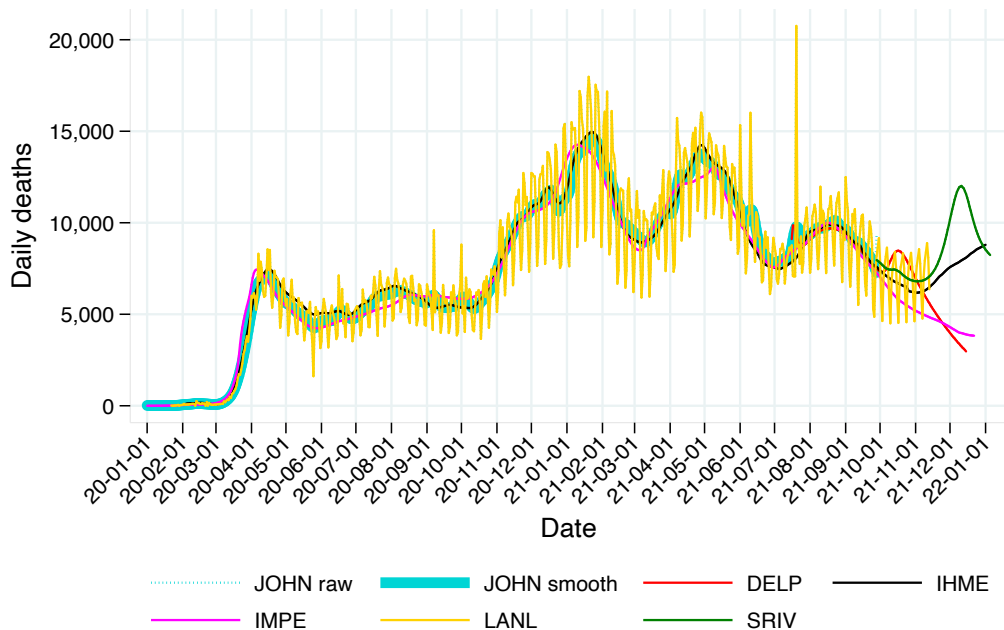
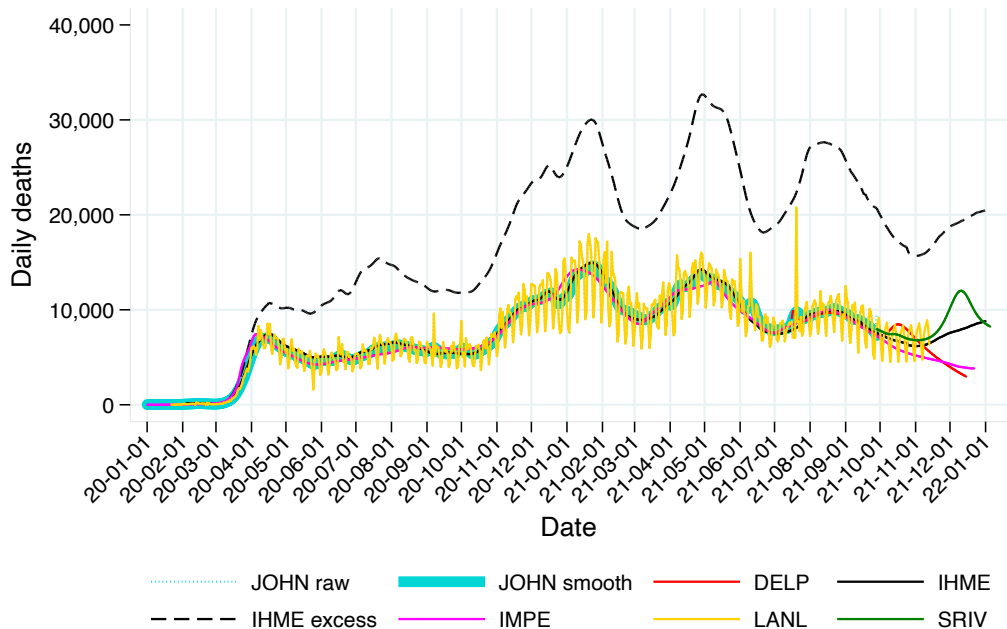


## COVID-19 daily deaths, global, reference scenarios

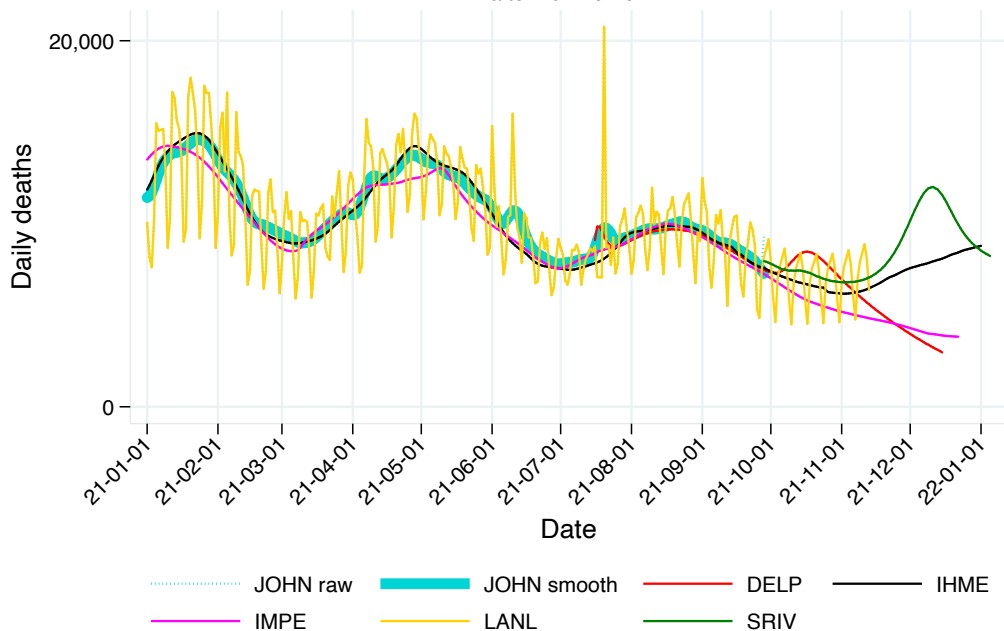


## COVID-19 daily deaths, global, reference scenarios



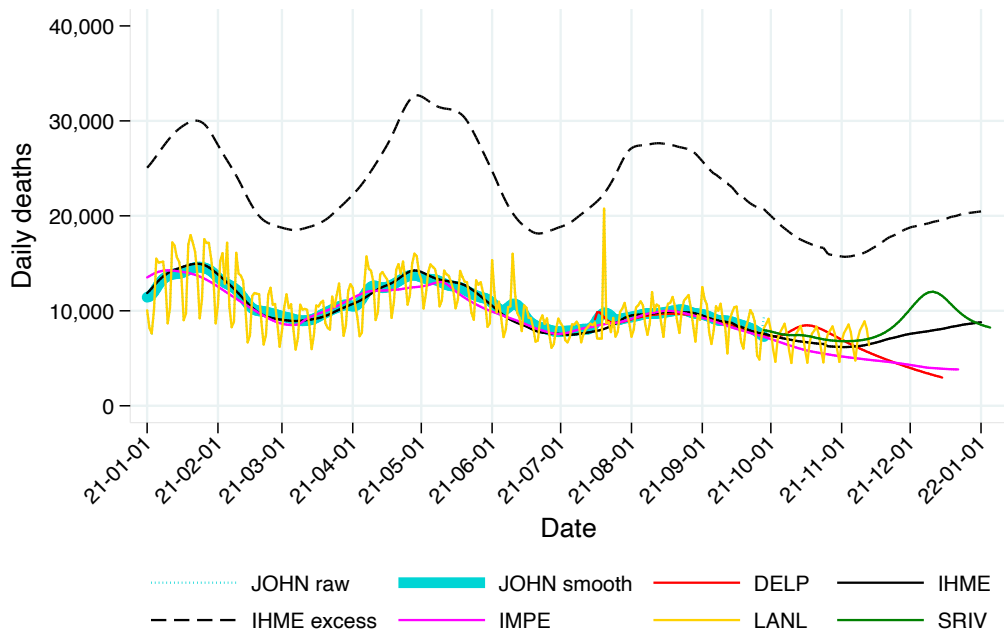
# COVID-19 daily deaths, global, reference scenarios

after 2021-01-01



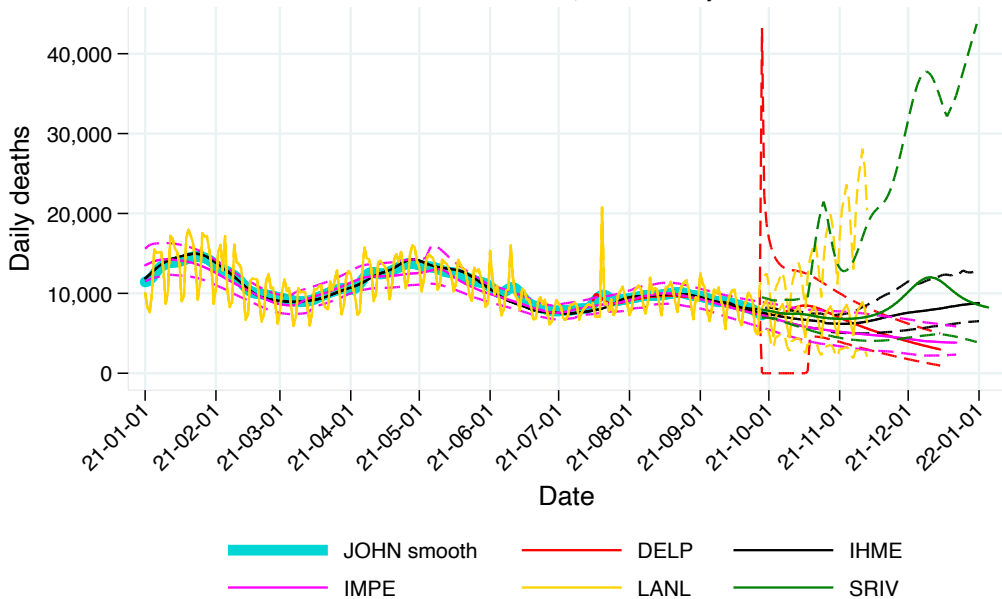
# COVID-19 daily deaths, global, reference scenarios

after 2021-01-01



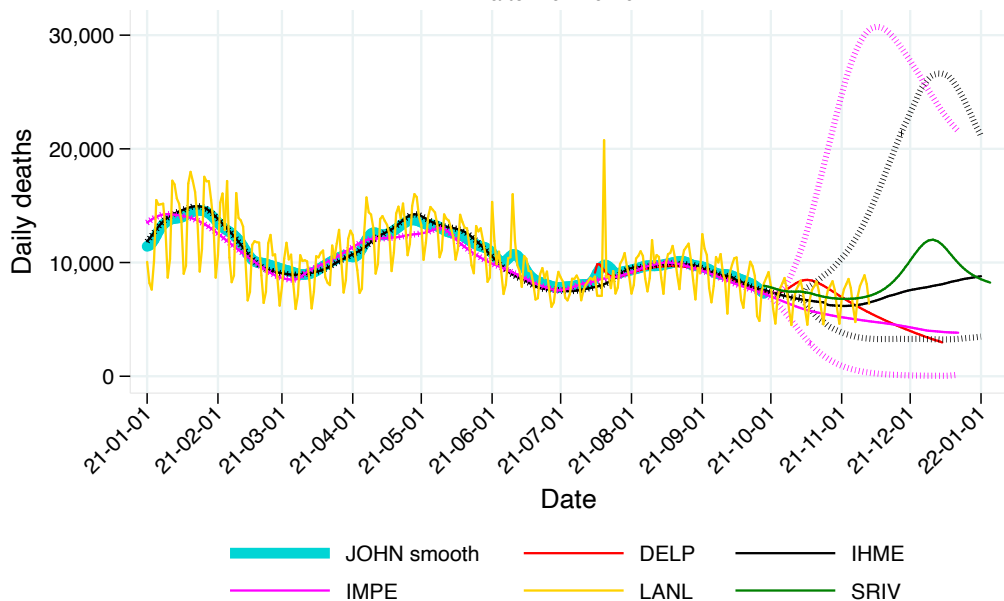
# COVID-19 daily deaths, global, reference scenarios

after 2021-01-01, w/ uncertainty



# COVID-19 daily deaths, global, 3 scenarios

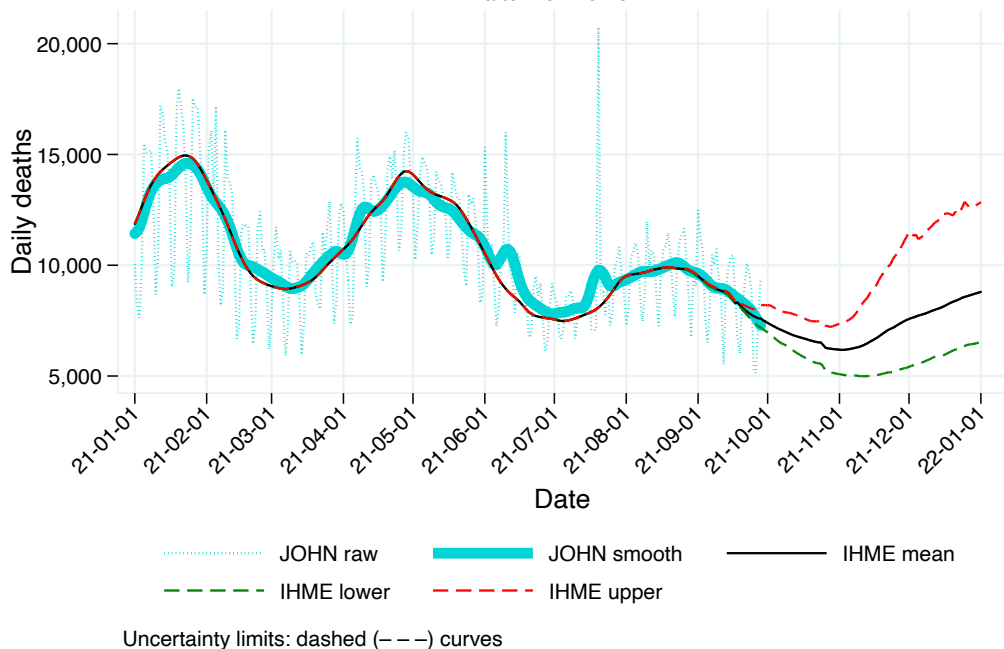
after 2021-01-01



Better and worse scenarios: tight dot (||||) curves; IHME and IMPE

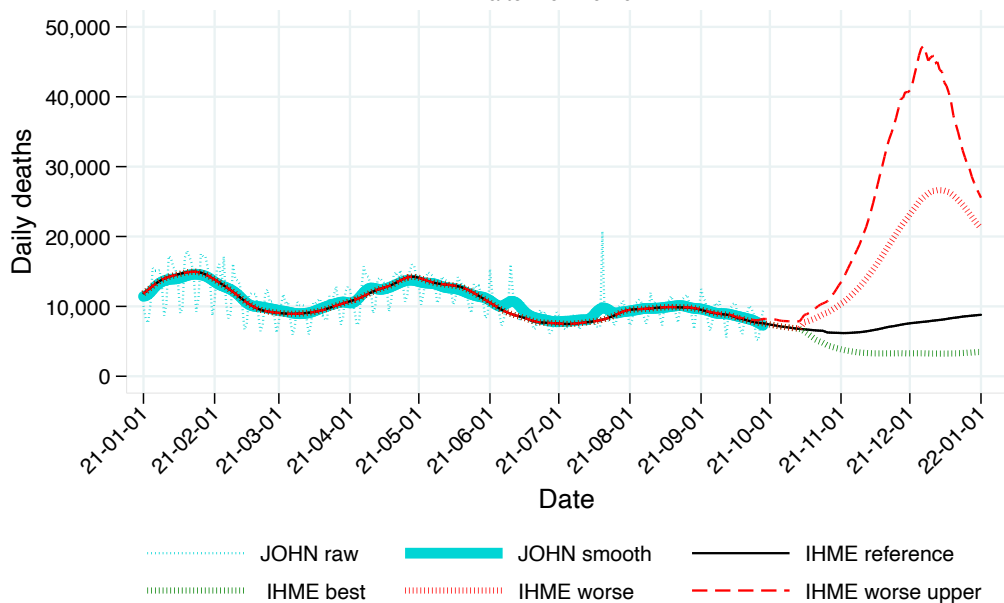
# COVID-19 daily deaths, global, reference scenario w/ uncertainty, IHME

after 2021-01-01



# COVID-19 daily deaths, global, 3 scenarios, IHME

after 2021-01-01

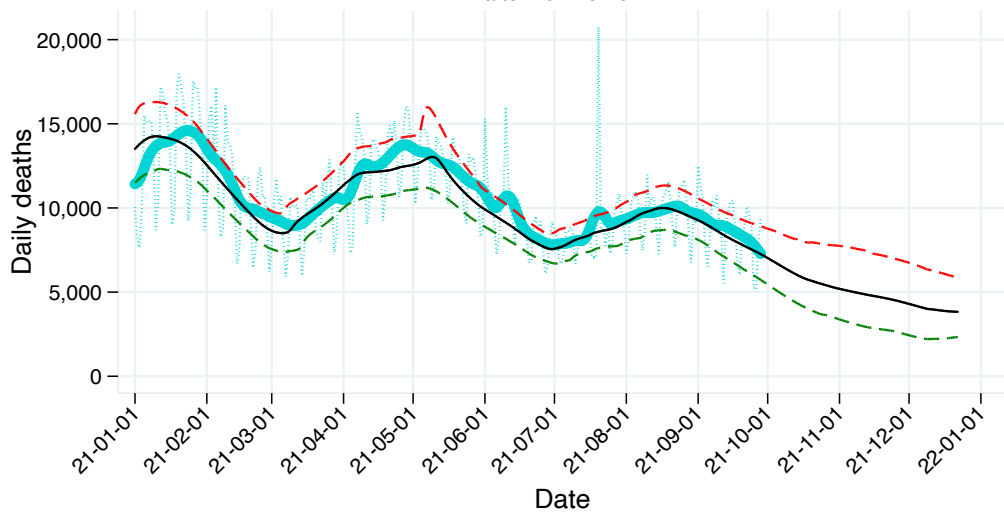


Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves



# COVID-19 daily deaths, global, reference scenario w/ uncertainty, IMPE

after 2021-01-01

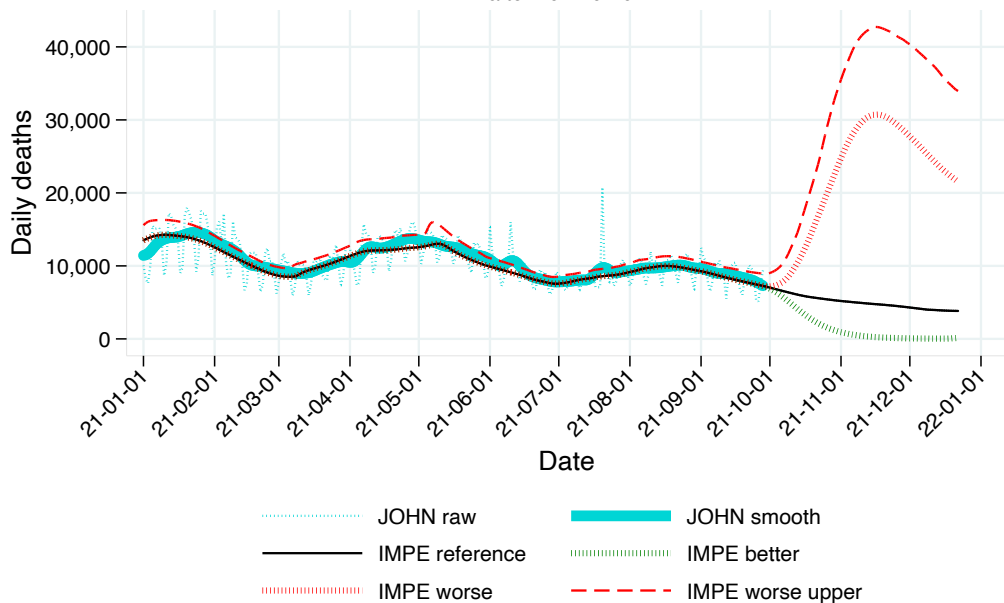


JOHN raw      JOHN smooth      IMPE mean  
IMPE lower      IMPE upper

Uncertainty limits: dashed (---) curves

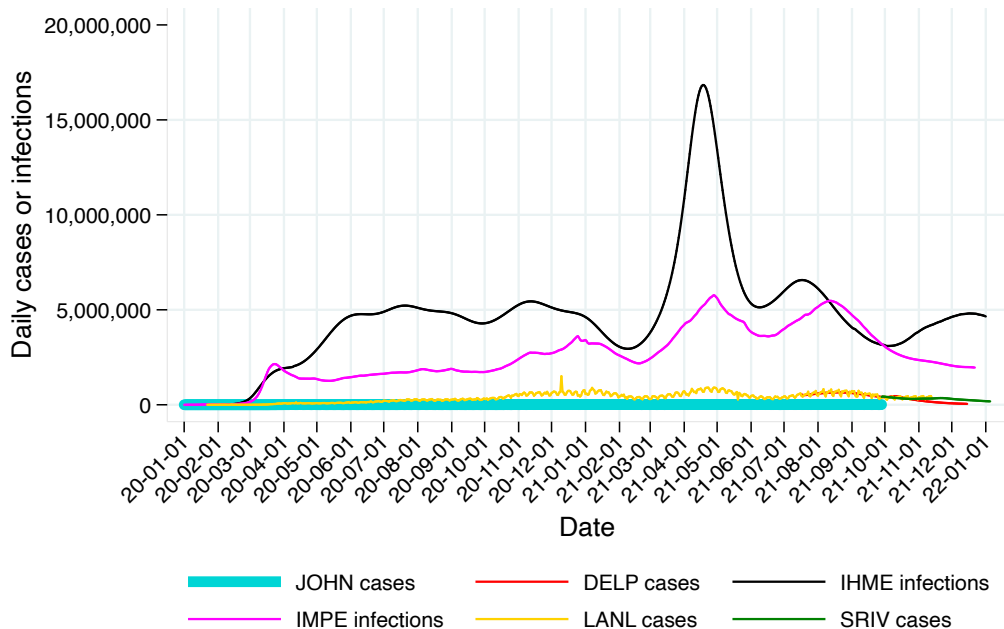
# COVID-19 daily deaths, global, 3 scenarios, IMPE

after 2021-01-01



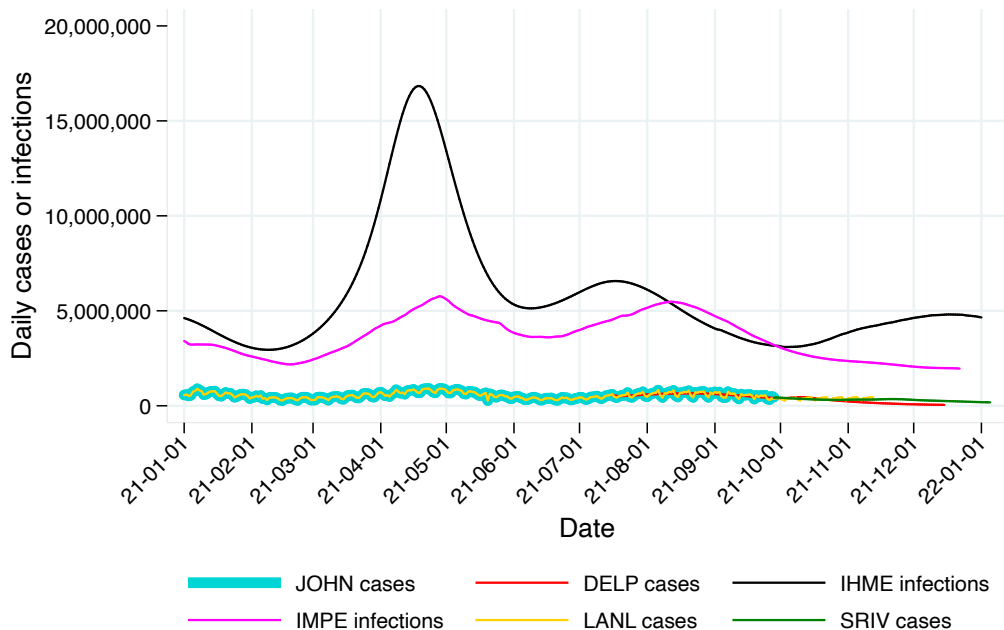
Better and worse scenarios: tight dot (||||) curves; Uncertainty limits: dashed (---) curves

## COVID-19 daily cases or infections, global, reference scenarios



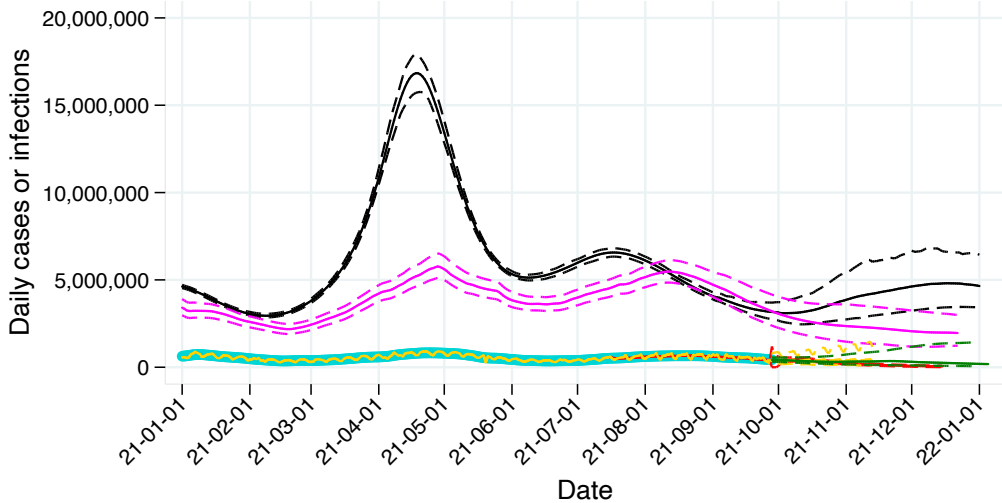
# COVID-19 daily cases or infections, global, reference scenarios

after 2021-01-01



# COVID-19 daily cases or infections, global, reference scenarios

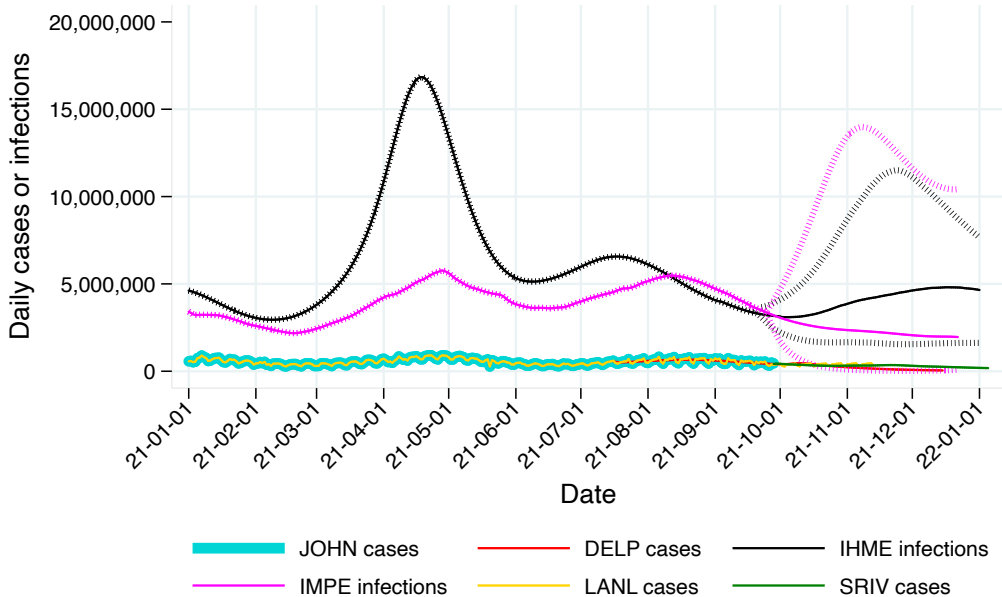
after 2021-01-01, w/ uncertainty



Uncertainty limits: dashed curves

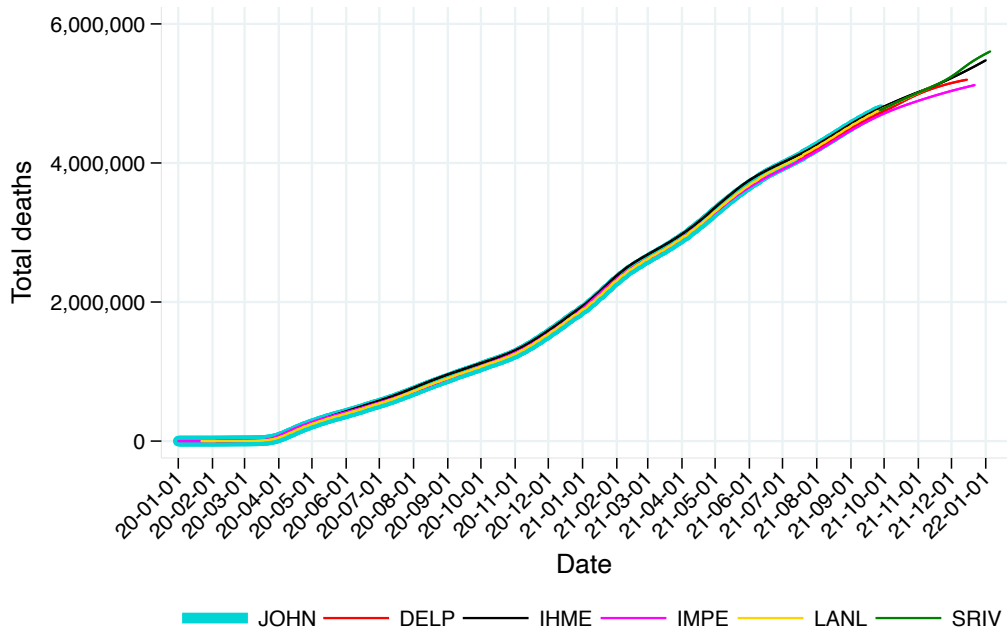
# COVID-19 daily cases or infections, global, 3 scenarios

after 2021-01-01

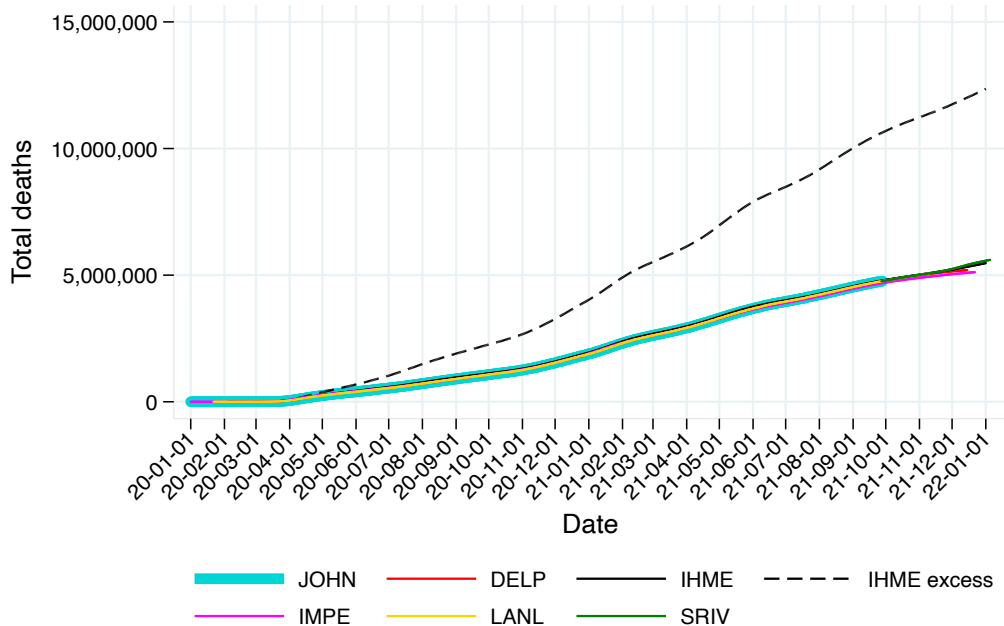


Better and worse scenarios: tight dot (||||) curves; IHME and IMPE

## COVID-19 total deaths, global, reference scenarios



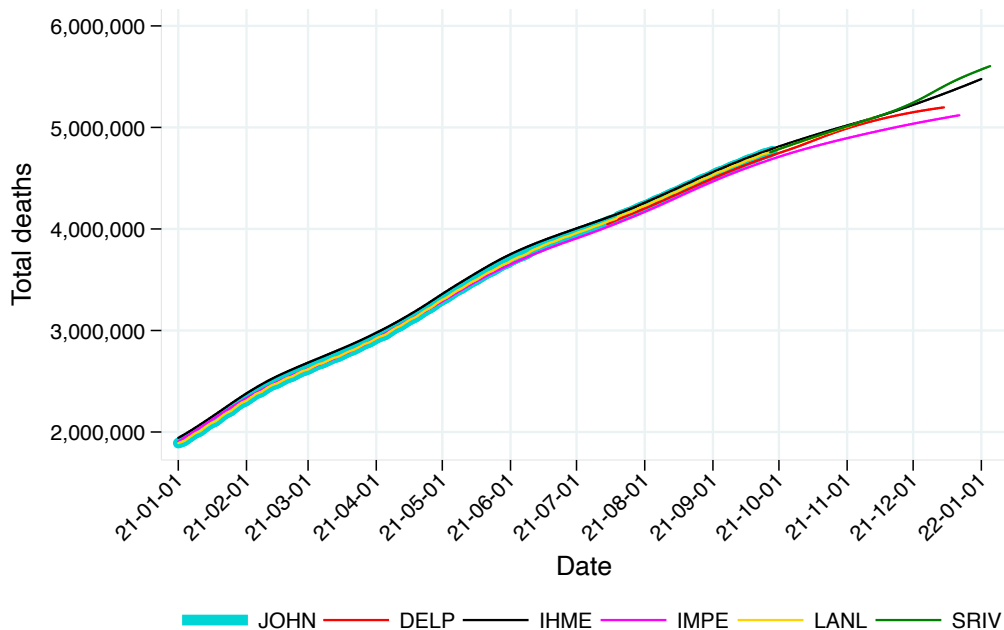
## COVID-19 total deaths, global, reference scenarios





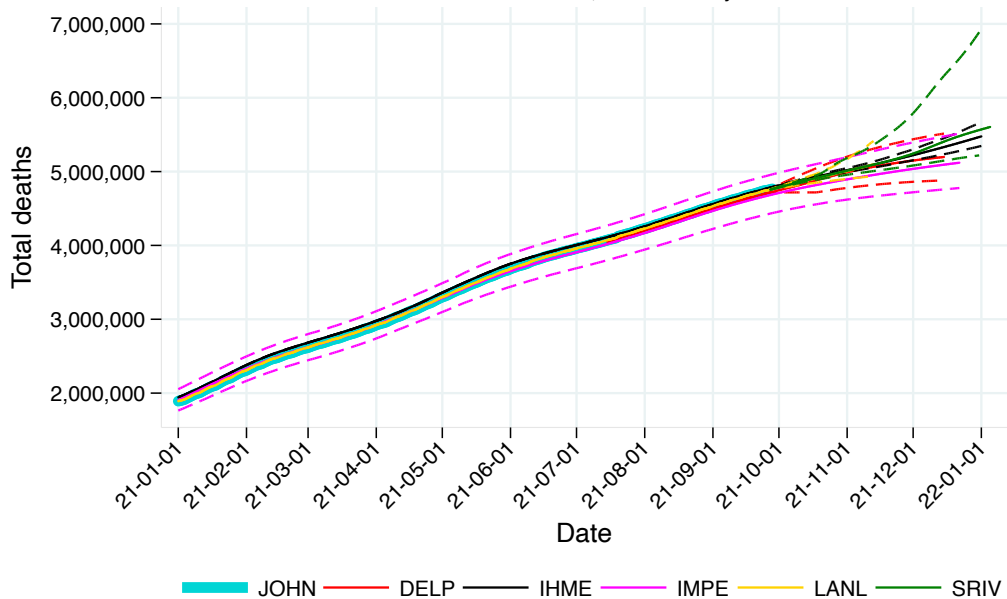
# COVID-19 total deaths, global, reference scenarios

after 2021-01-01



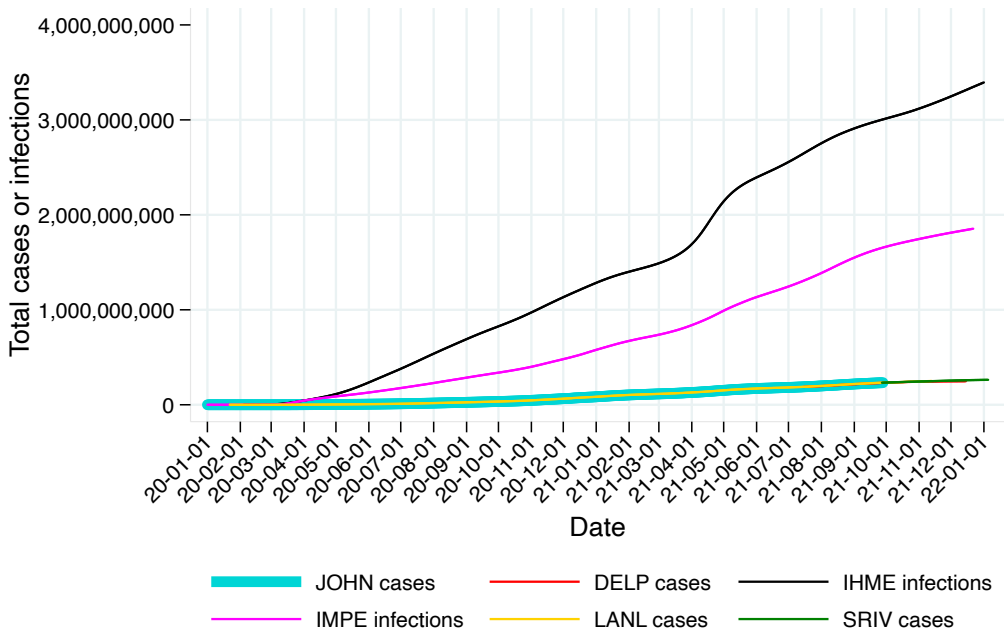
# COVID-19 total deaths, global, reference scenarios

after 2021-01-01, w/ uncertainty



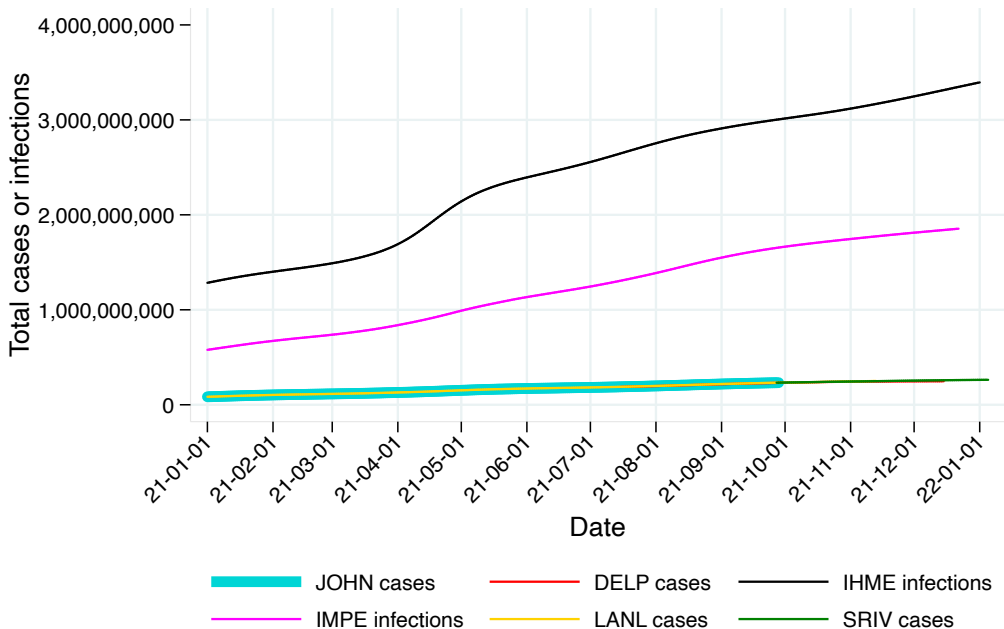
Uncertainty limits: dashed curves

## COVID-19 total cases or infections, global, reference scenarios



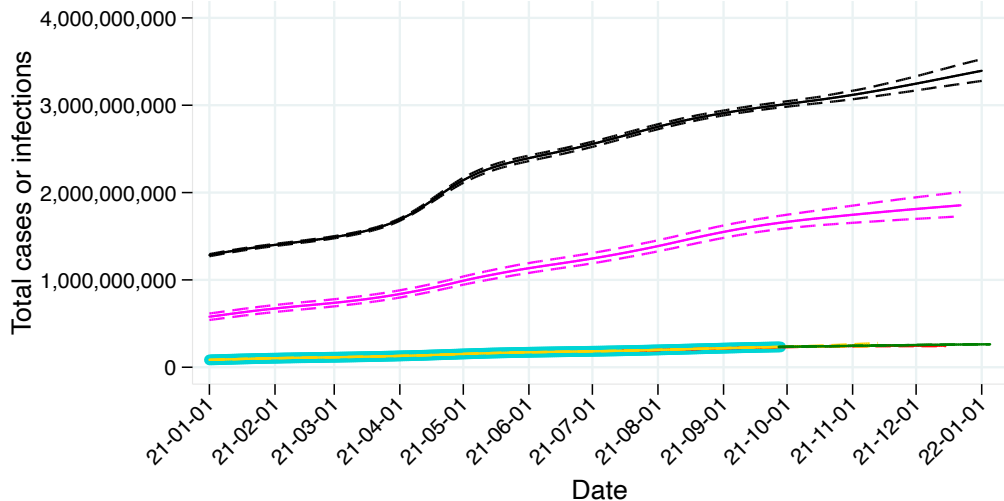
# COVID-19 total cases or infections, global, reference scenarios

after 2021-01-01



# COVID-19 total cases or infections, global, reference scenarios

after 2021-01-01, w/ uncertainty



JOHN cases



DELP cases



IHME infections



IMPE infections



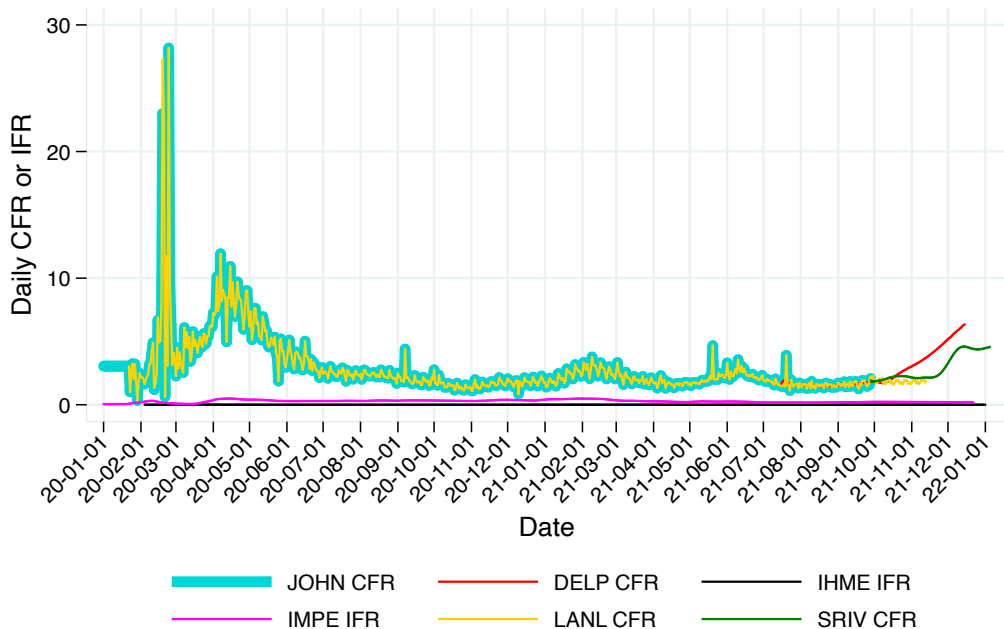
LANL cases



SRIV cases

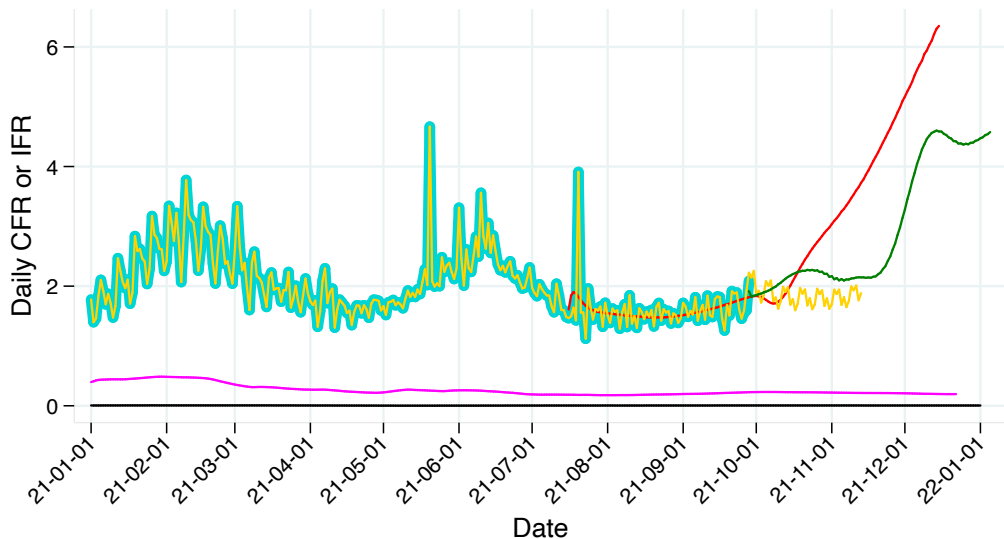
Uncertainty limits: dashed curves

## COVID-19 daily CFR or IFR, global, reference scenarios



# COVID-19 daily CFR or IFR, global, reference scenarios

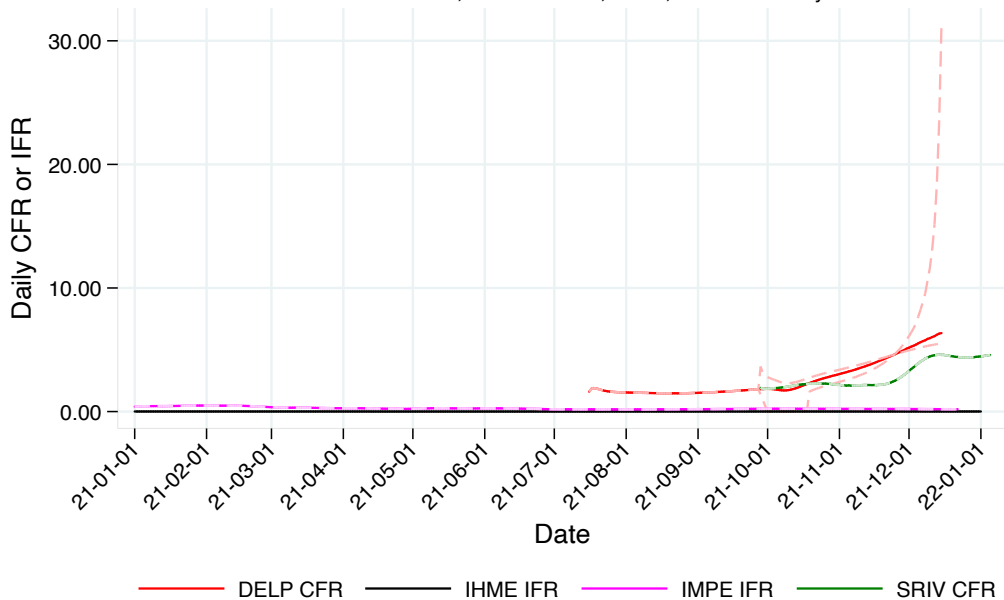
after 2021-01-01



JOHN CFR	DELP CFR	IHME IFR
IMPE IFR	LANL CFR	SRIV CFR

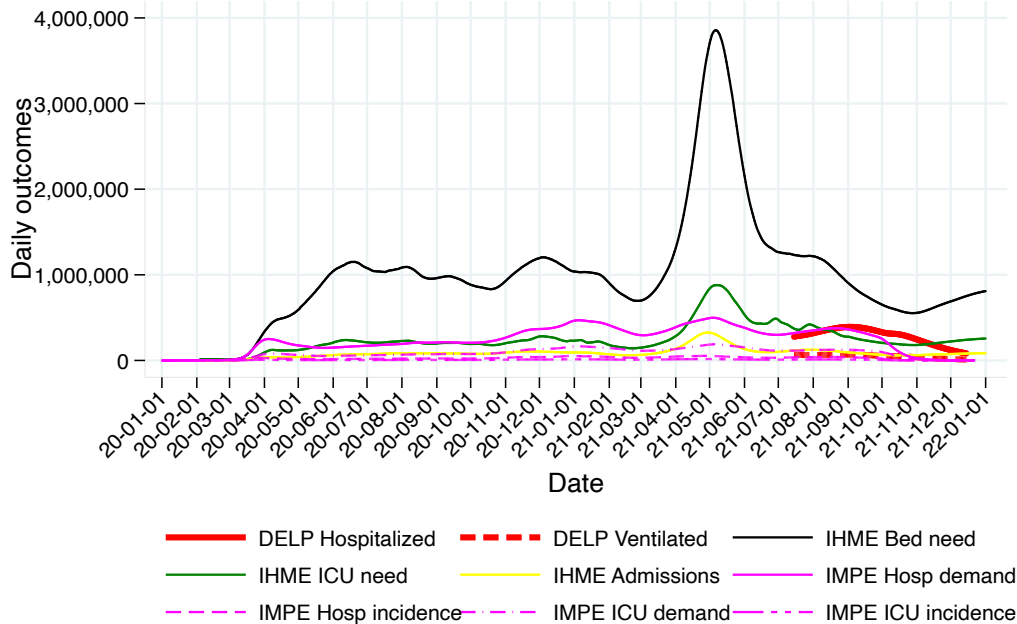
# COVID-19 daily CFR or IFR, global, reference scenarios

after 2021-01-01, without JOHN, LANL, with uncertainty

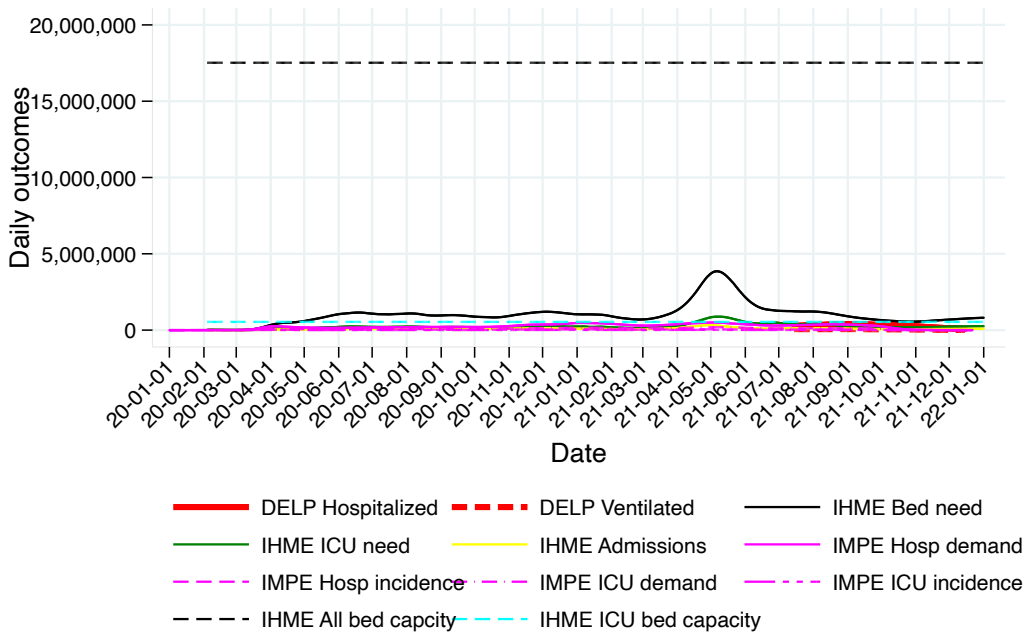




# COVID-19 daily hospital-related outcomes global, reference scenarios

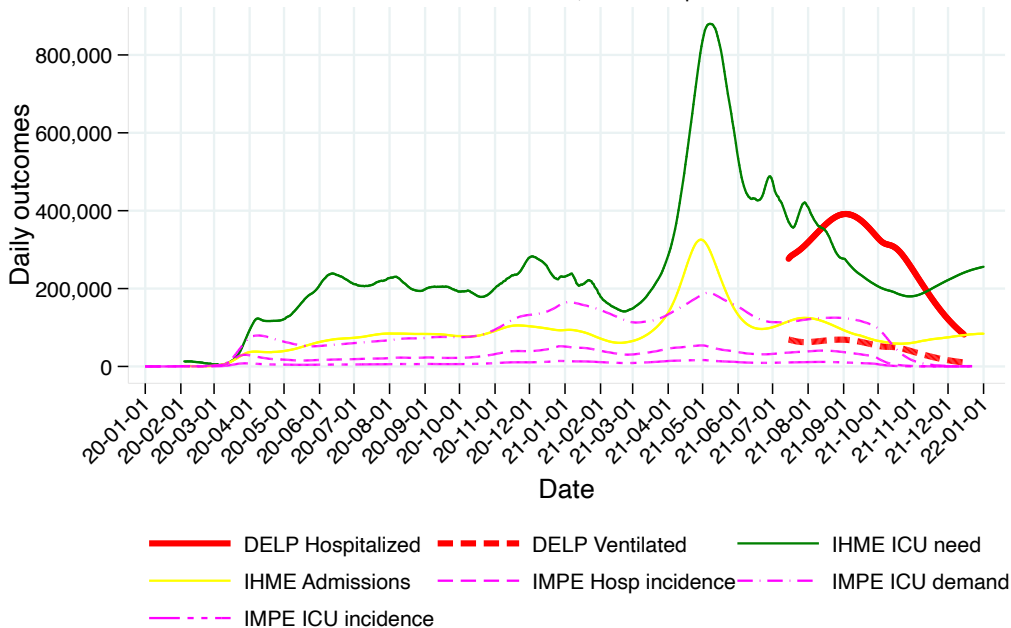


# COVID-19 daily hospital-related outcomes global, reference scenarios



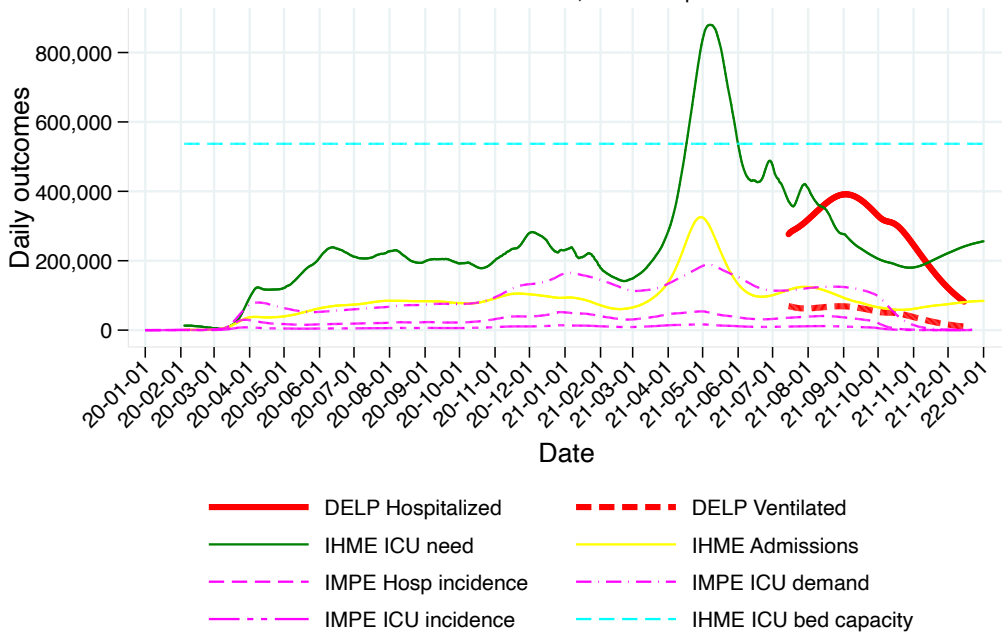
# COVID-19 daily hospital-related outcomes global, reference scenarios

without IHME Bed need, IMPE Hosp demand



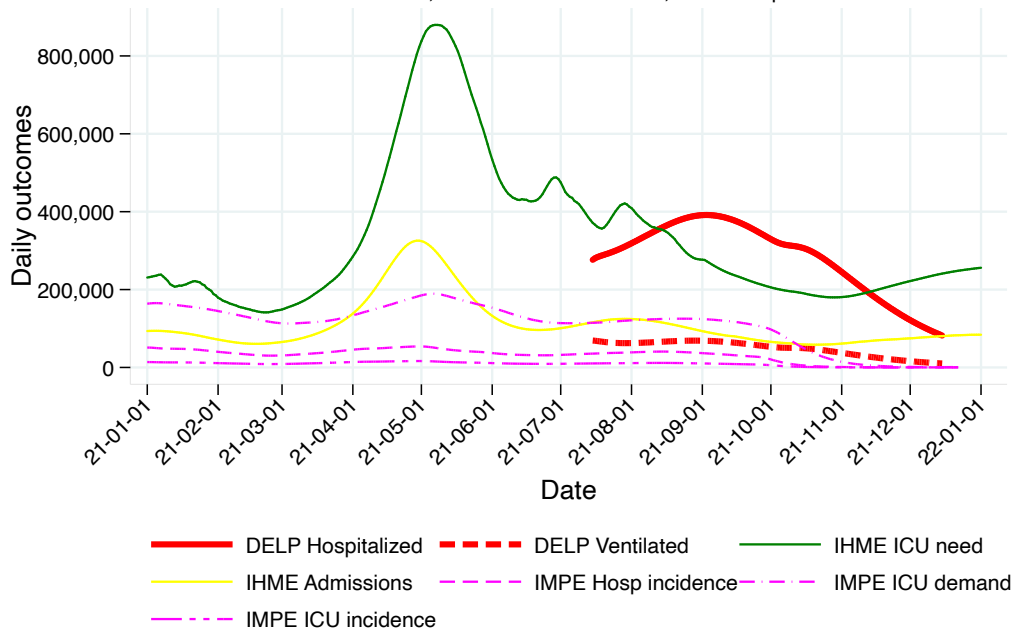
# COVID-19 daily hospital-related outcomes global, reference scenarios

without IHME Bed need, IMPE Hosp demand



# COVID-19 daily hospital-related outcomes global, reference scenarios

after 2021-01-01, without IHME Bed need, IMPE Hosp demand



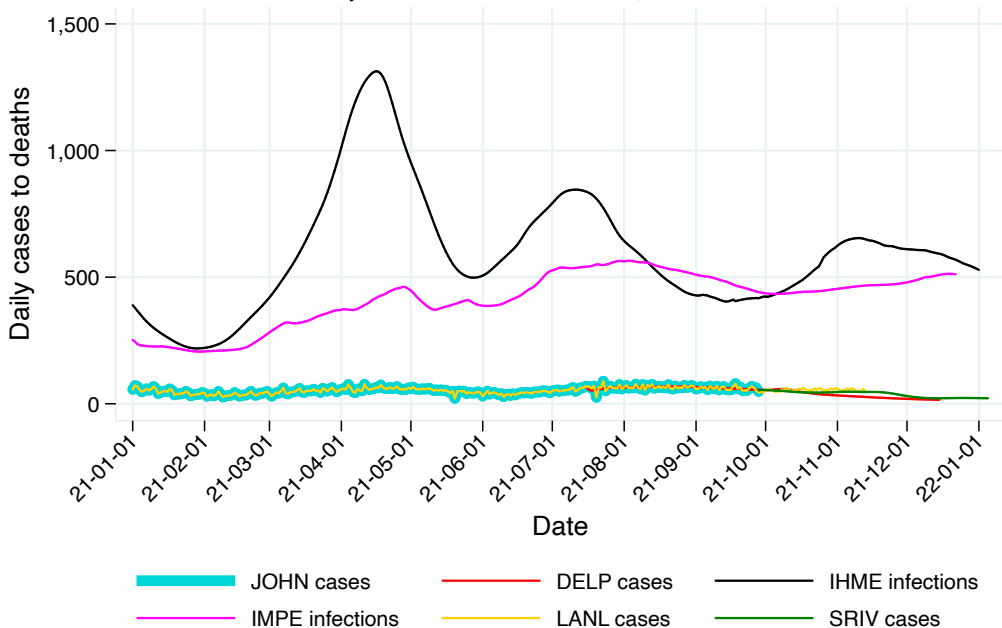
# COVID-19 daily cases to deaths, global, reference scenarios

daily cases or infections to deaths



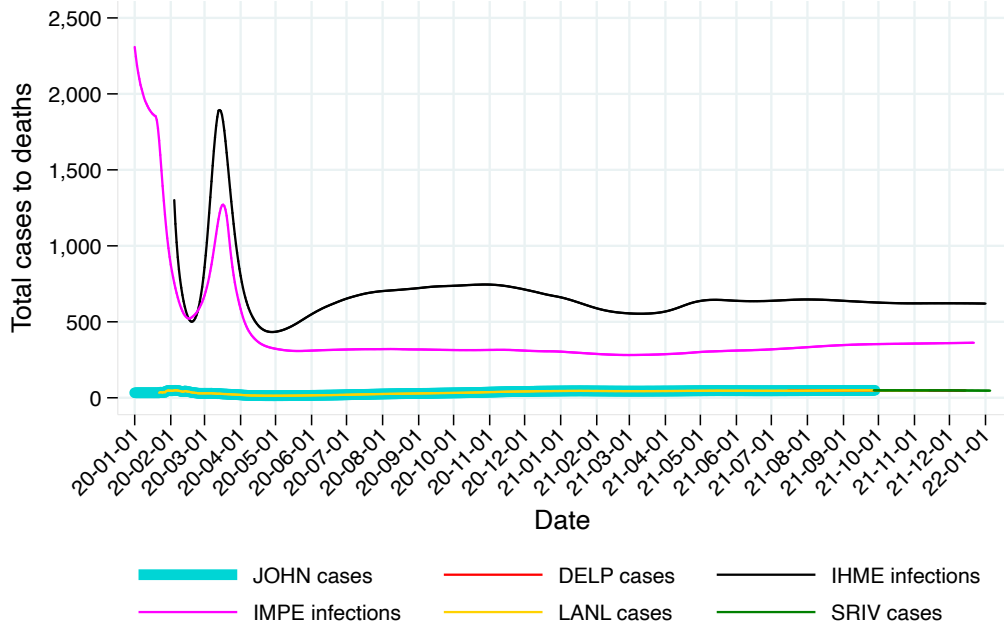
# COVID-19 daily cases to deaths, global, reference scenarios

daily cases or infections to deaths; after 2021-01-01



# COVID-19 total cases to deaths, global, reference scenarios

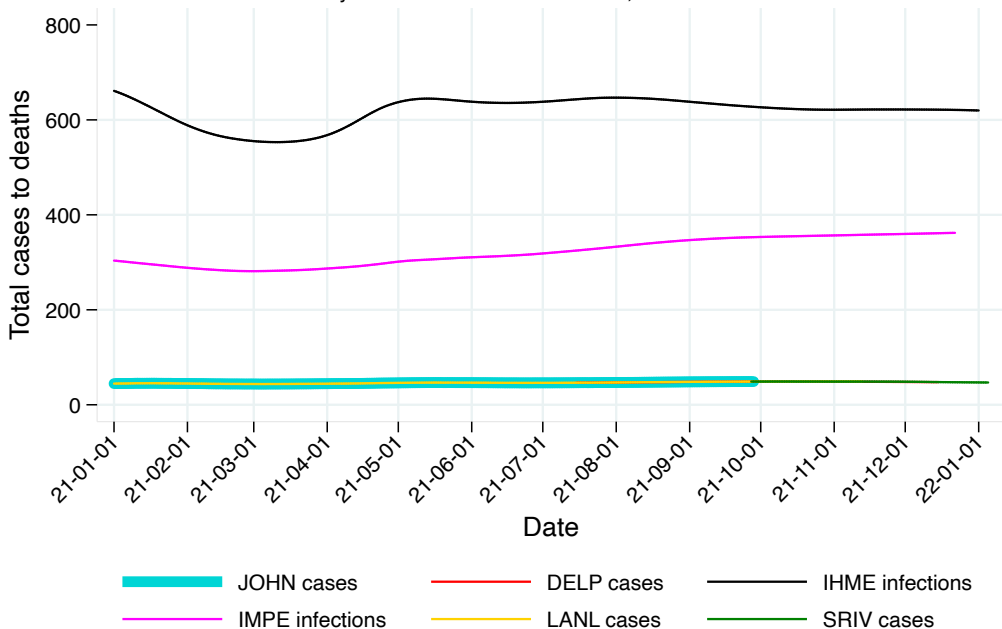
daily cases or infections to deaths



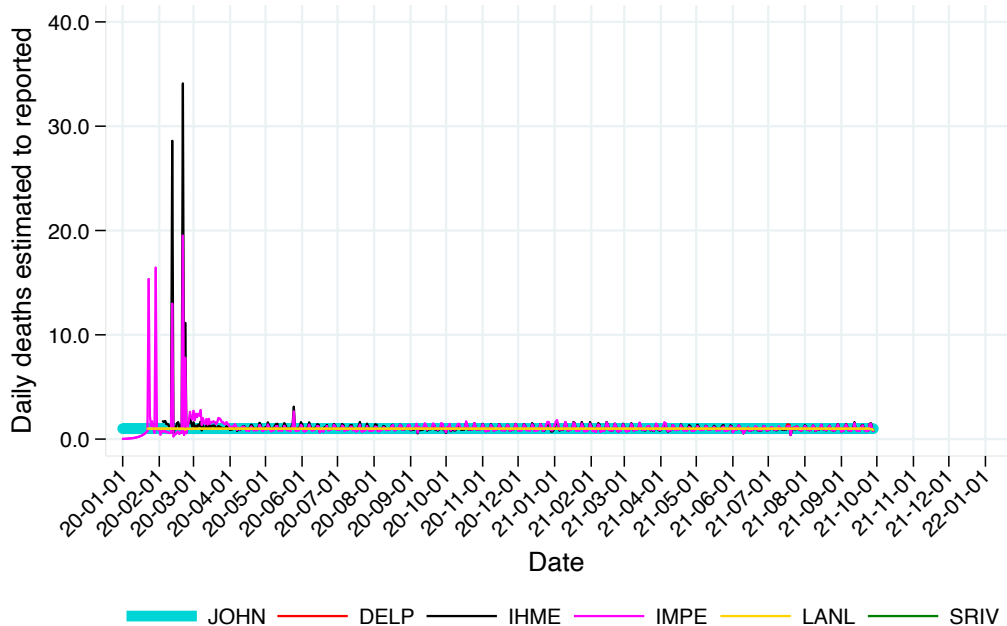


# COVID-19 total cases to deaths, global, reference scenarios

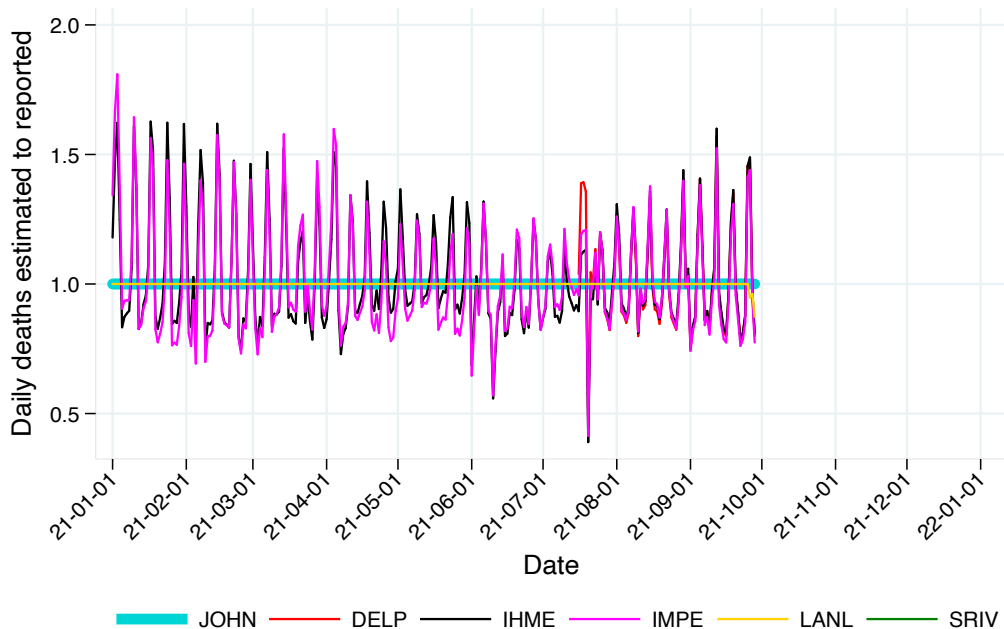
daily cases or infections to deaths; after 2021-01-01



# COVID-19 daily deaths estimated to reported, global, reference scenarios

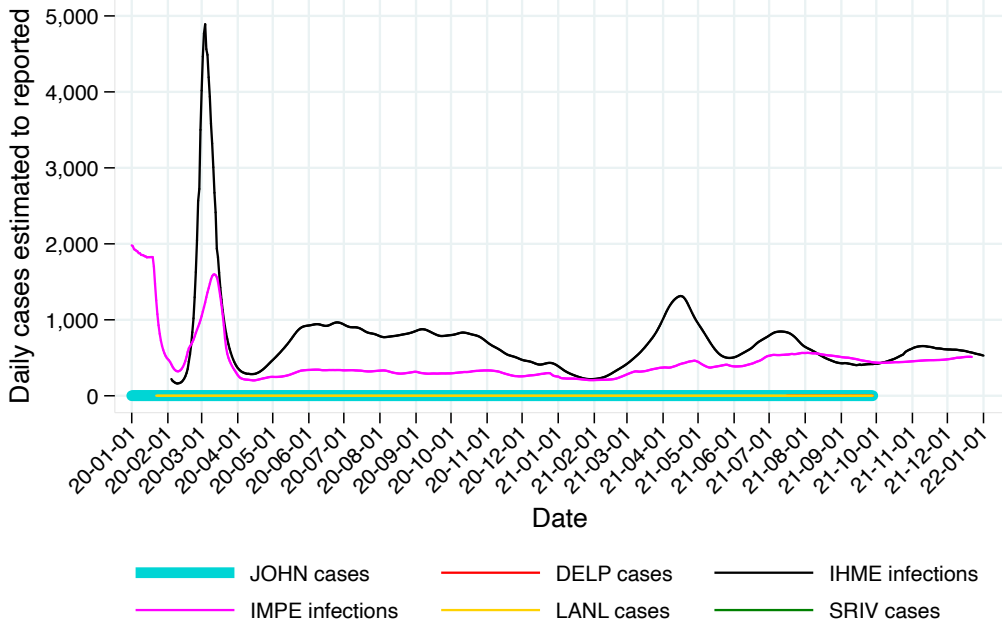


# COVID-19 daily deaths estimated to reported, global, reference scenarios



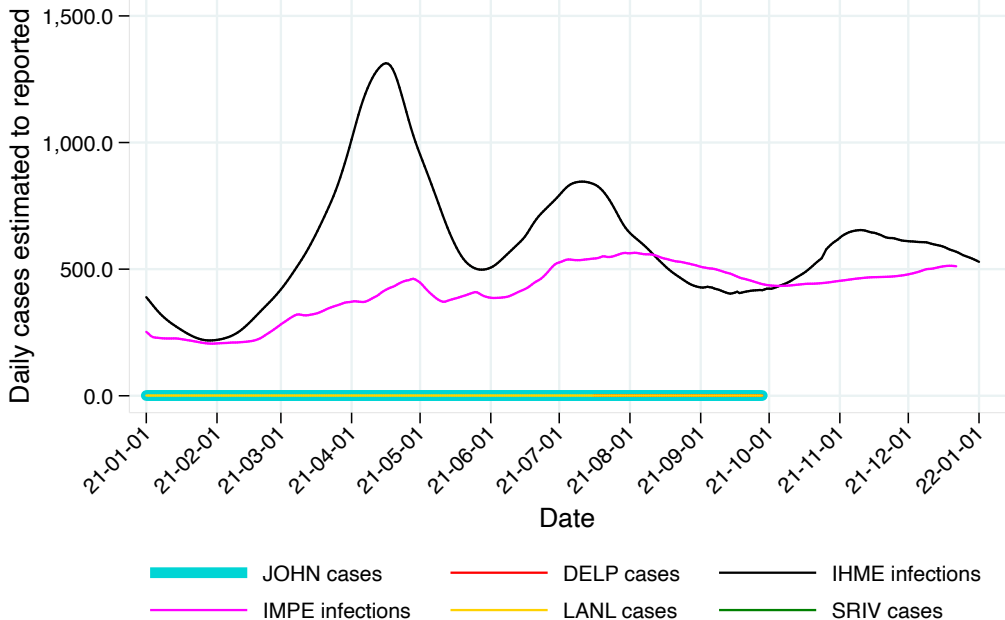
# COVID-19 daily cases estimated to reported, global, reference scenarios

daily cases or infections estimated, to reported cases

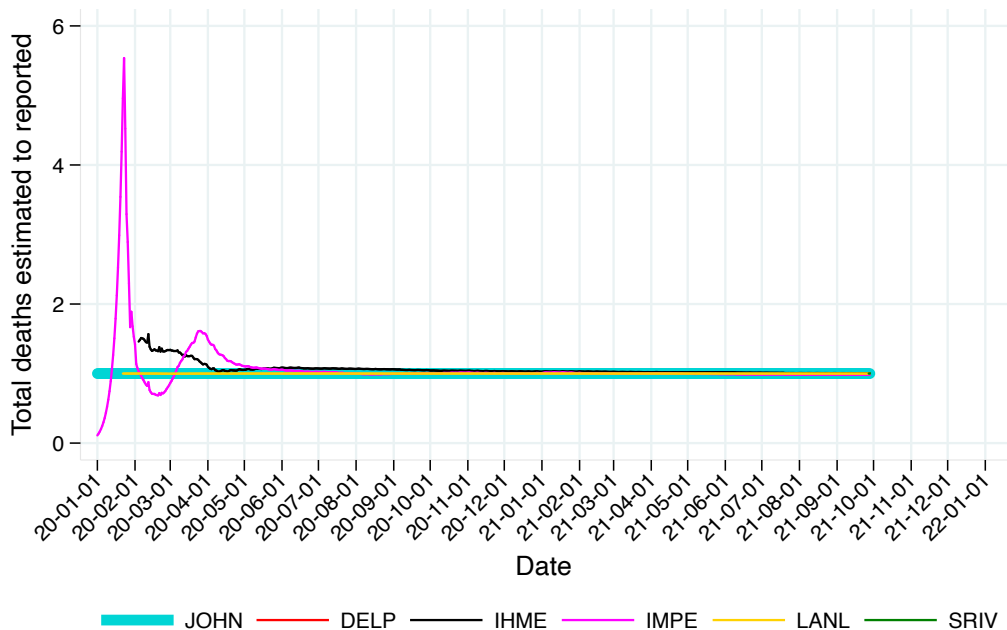


# COVID-19 daily cases estimated to reported, global, reference scenarios

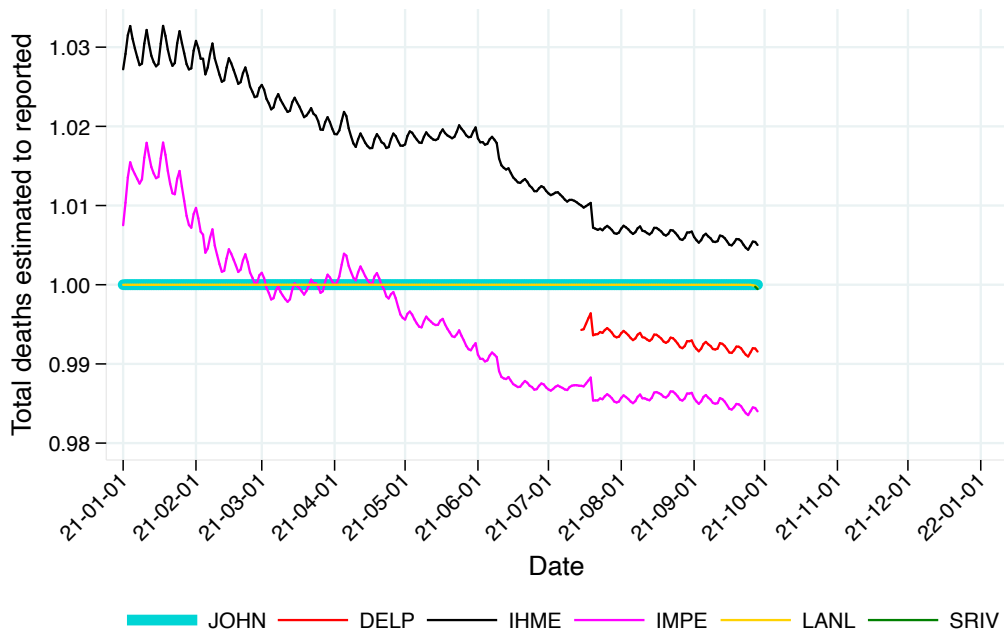
daily cases or infections estimated, to reported cases



# COVID-19 total deaths estimated to reported, global, reference scenarios

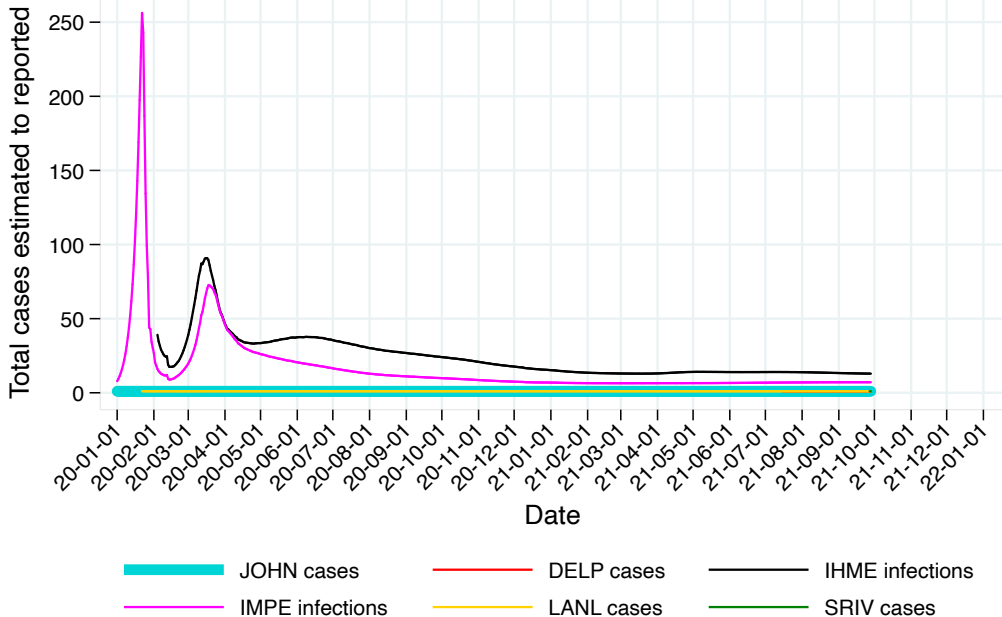


# COVID-19 total deaths estimated to reported, global, reference scenarios



# COVID-19 total cases estimated to reported, global, reference scenarios

total cases or infections estimated, to reported cases

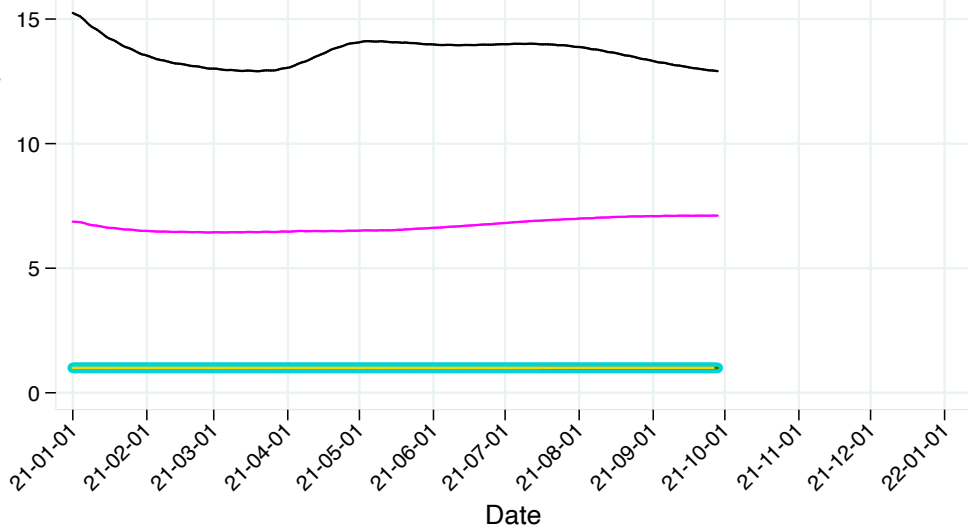




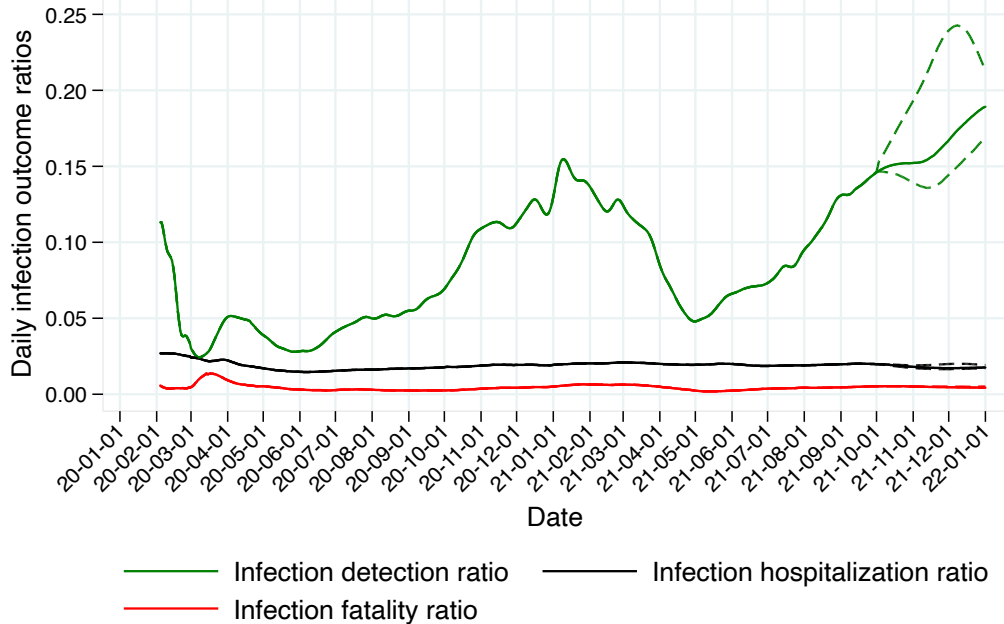
# COVID-19 total cases estimated to reported, global, reference scenarios

total cases or infections estimated, to reported cases

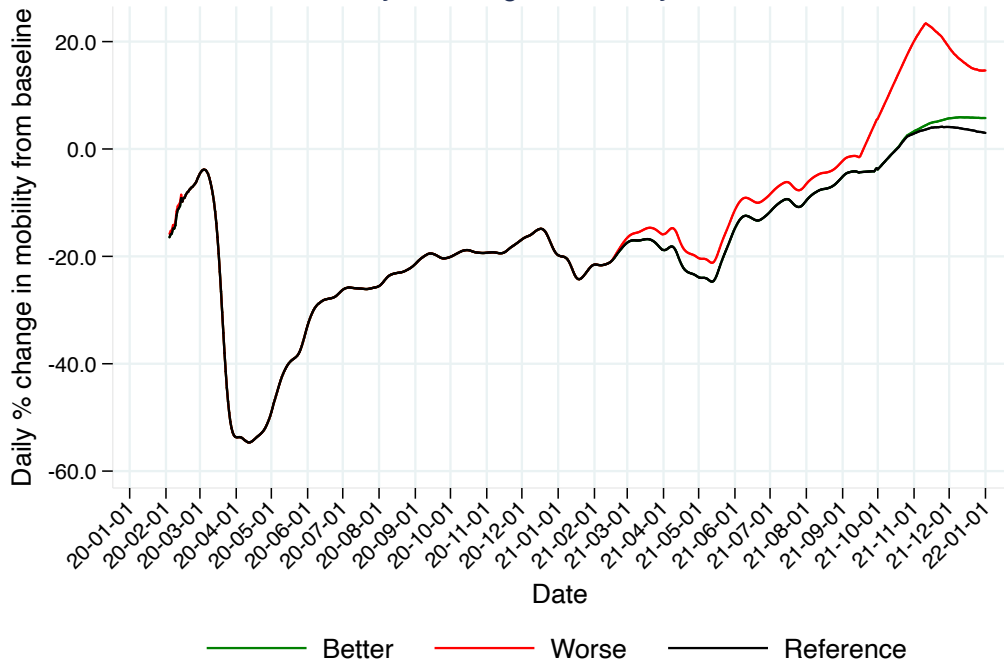
Total cases estimated to reported



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

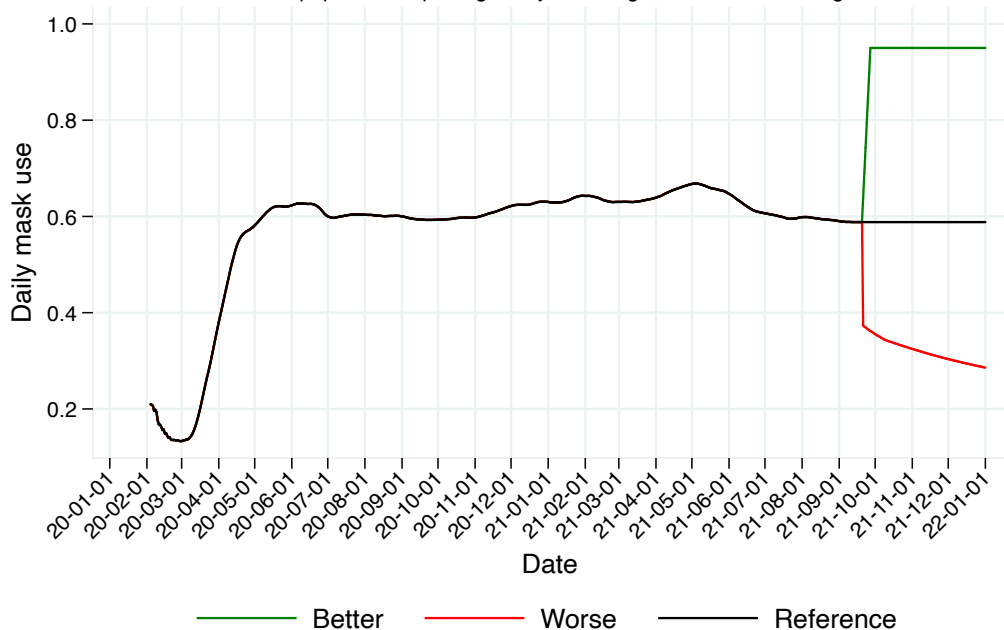


COVID-19 daily % change in mobility, IHME, 3 scenarios

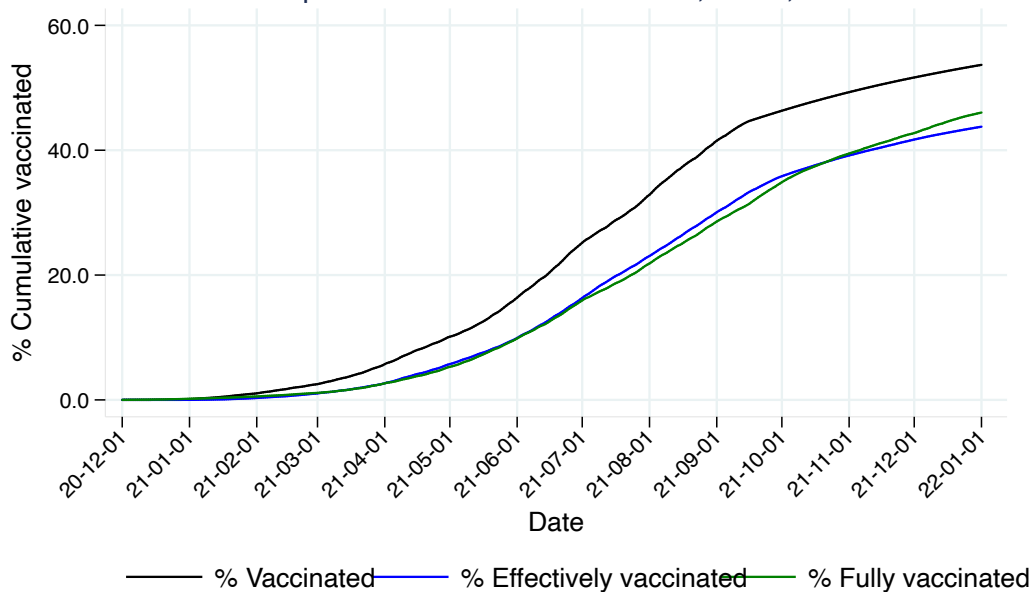


# COVID-19 daily mask use, IHME, 3 scenarios

Percent of population reporting always wearing a mask when leaving home



COVID-19 percent cumulative vaccinated, 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