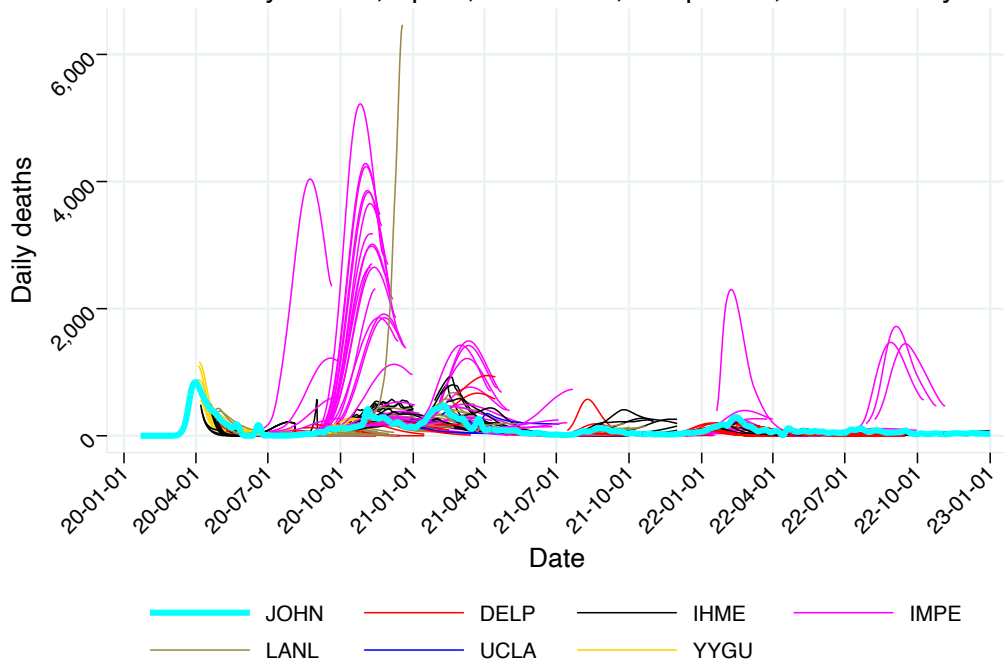
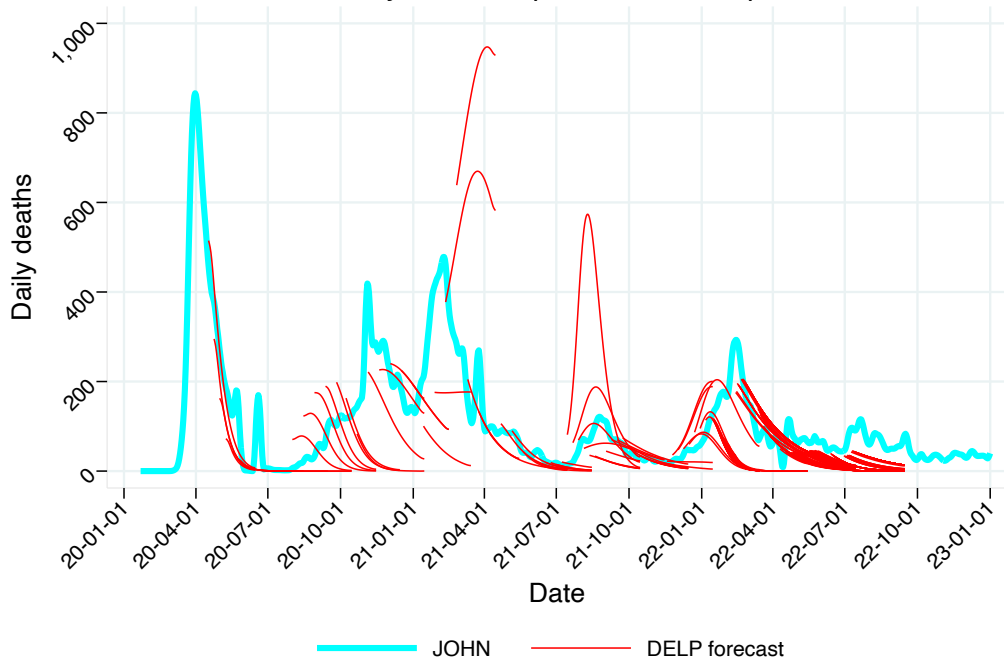


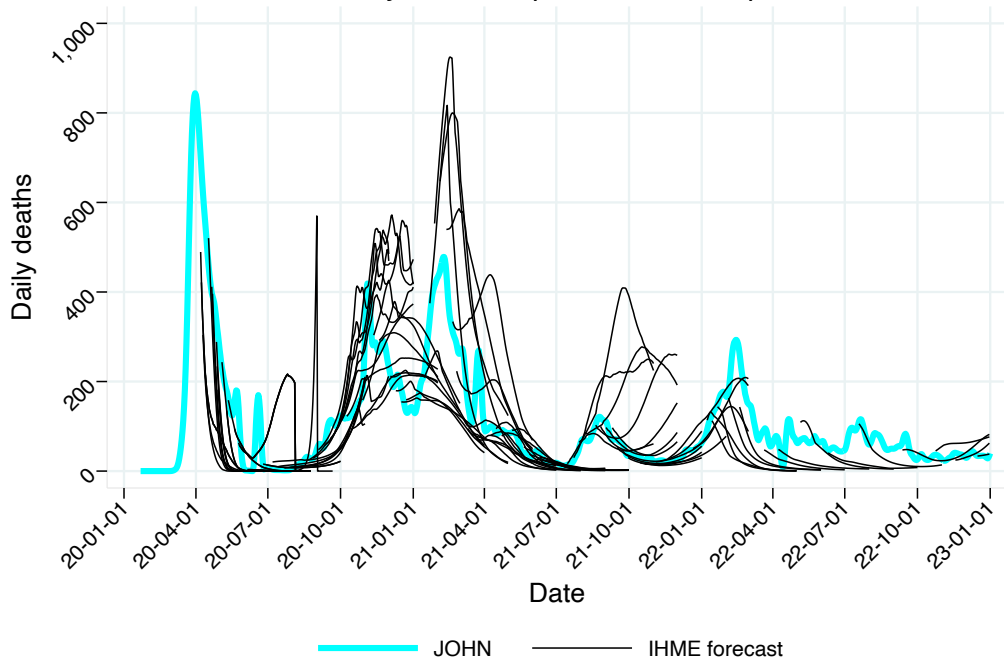
C19 daily deaths, Spain, all models, all updates, forecast only



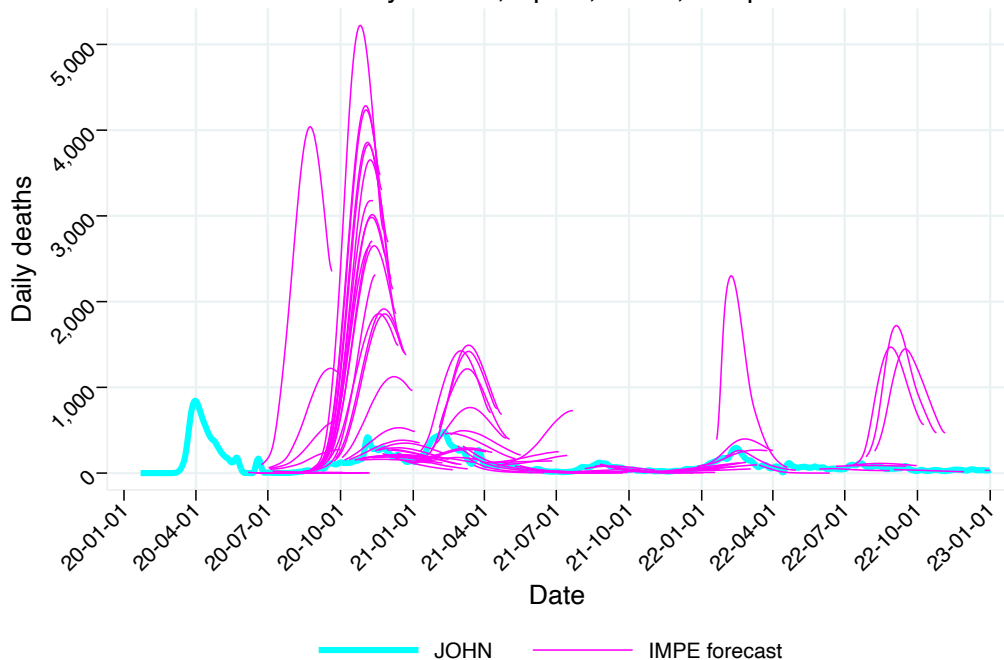
C19 daily deaths, Spain, DELP, all updates



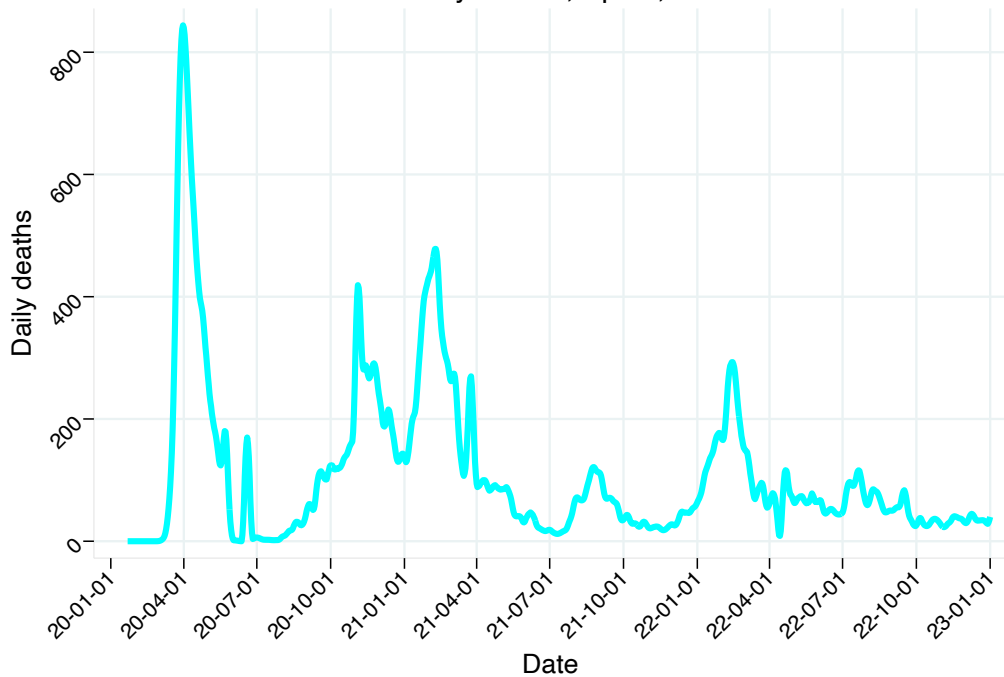
C19 daily deaths, Spain, IHME, all updates



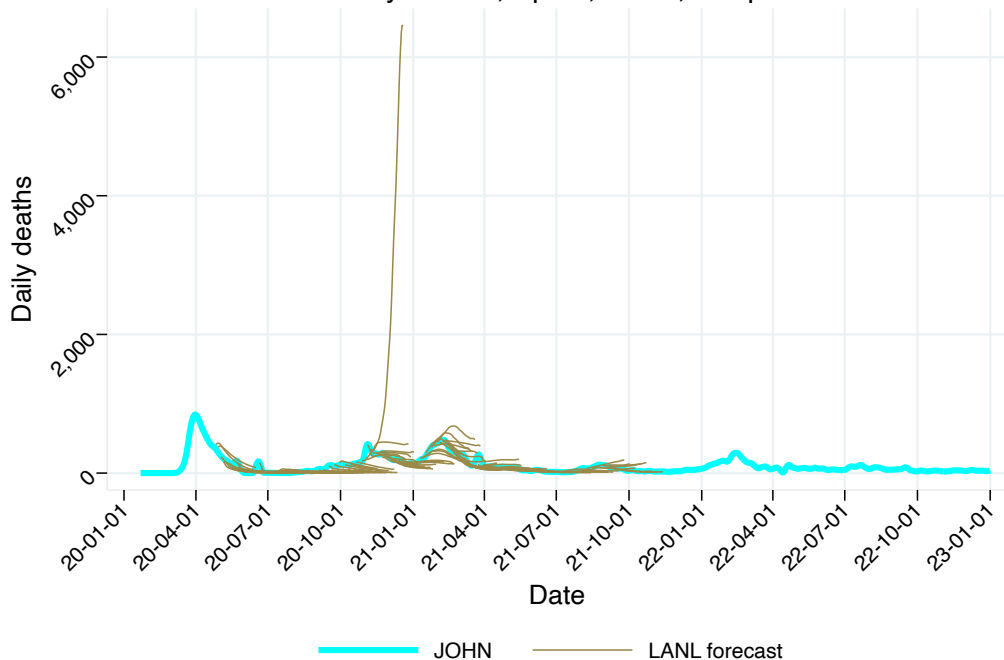
C19 daily deaths, Spain, IMPE, all updates



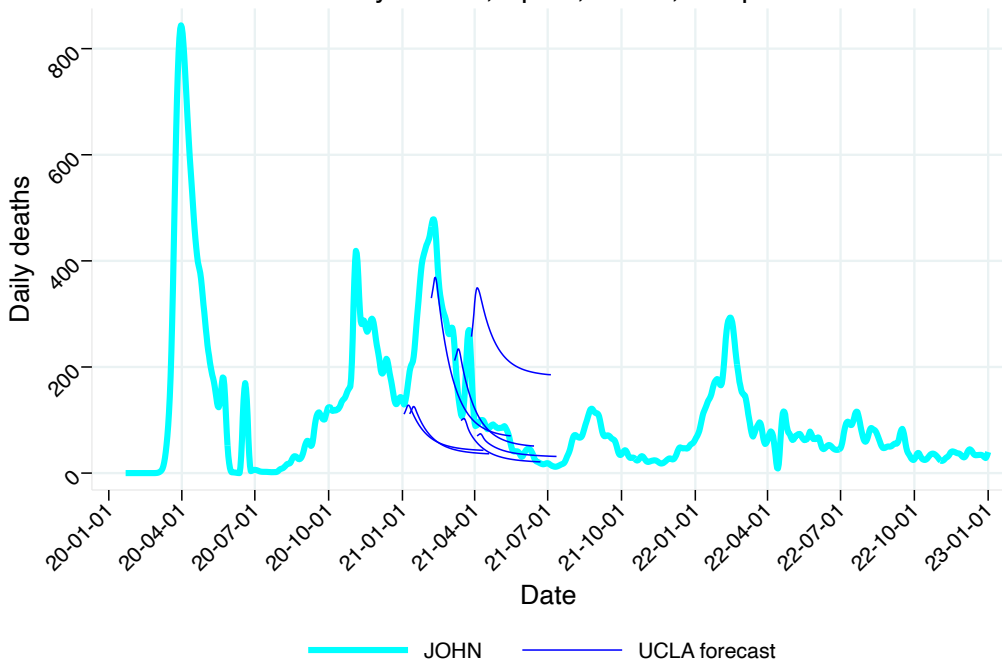
C19 daily deaths, Spain, JOHN



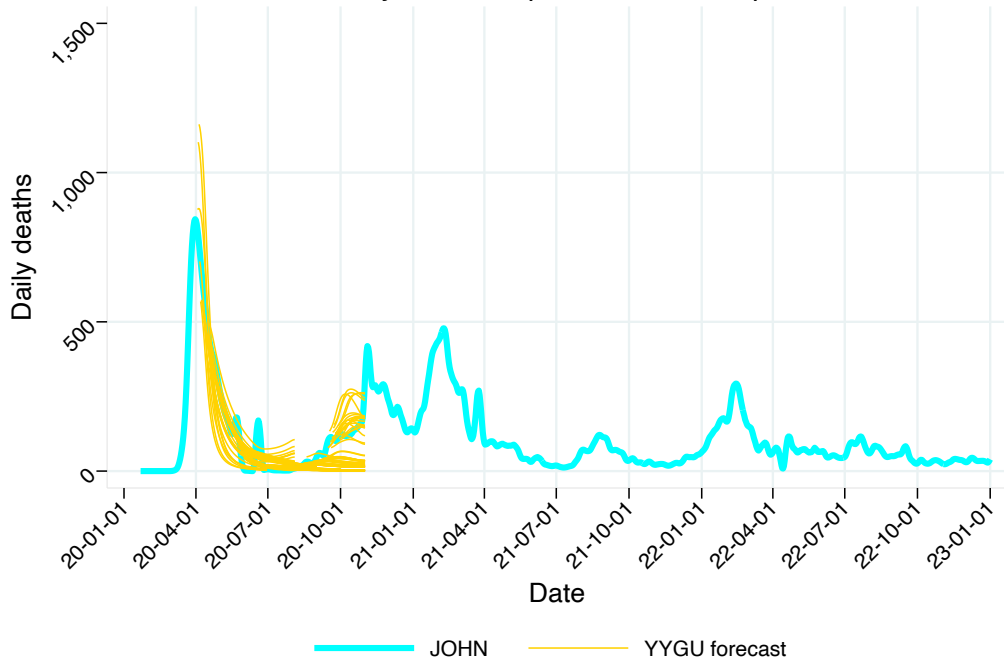
C19 daily deaths, Spain, LANL, all updates



C19 daily deaths, Spain, UCLA, all updates



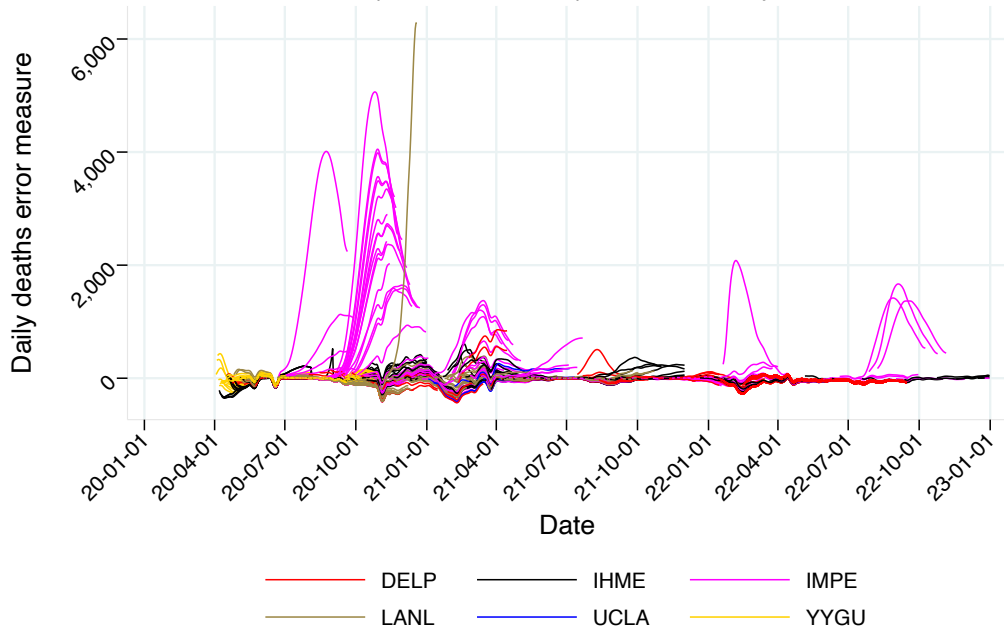
C19 daily deaths, Spain, YYGU, all updates





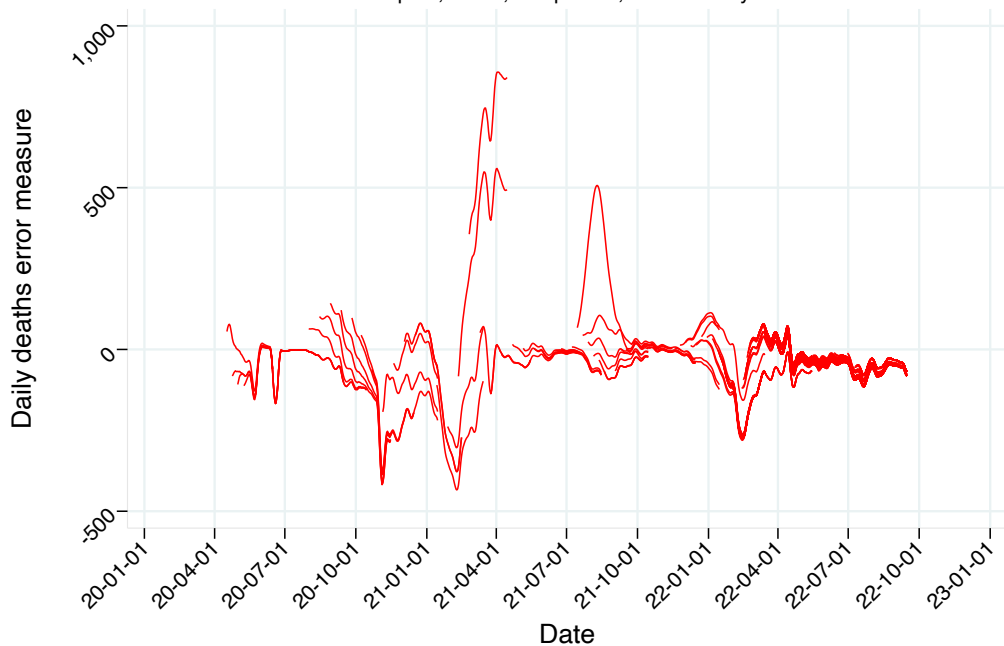
# C19 daily deaths error

Spain, all Models, all updates, forecast only



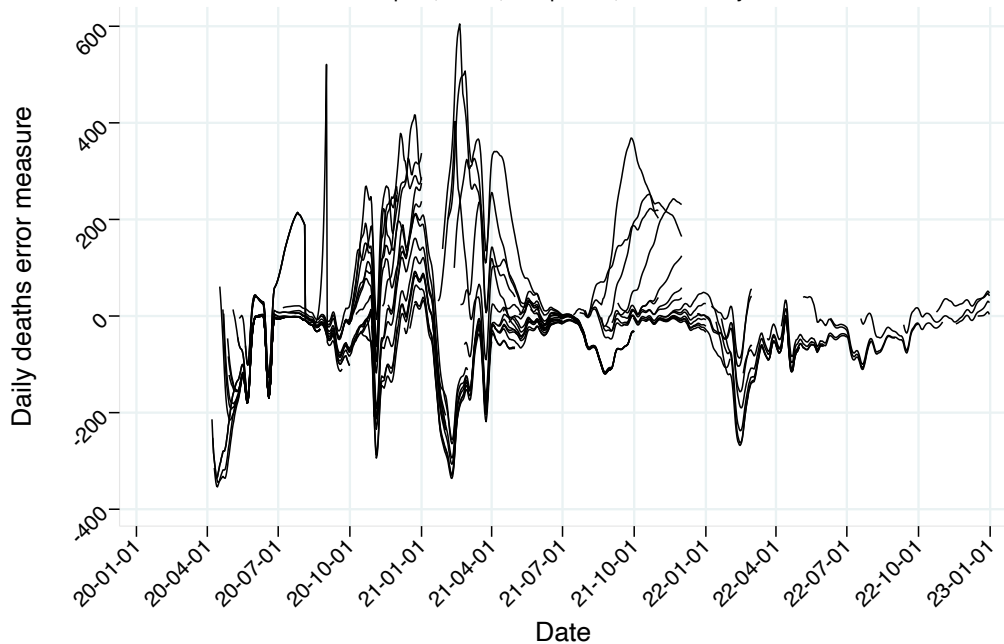
# C19 daily deaths error

Spain, DELP, all updates, forecast only



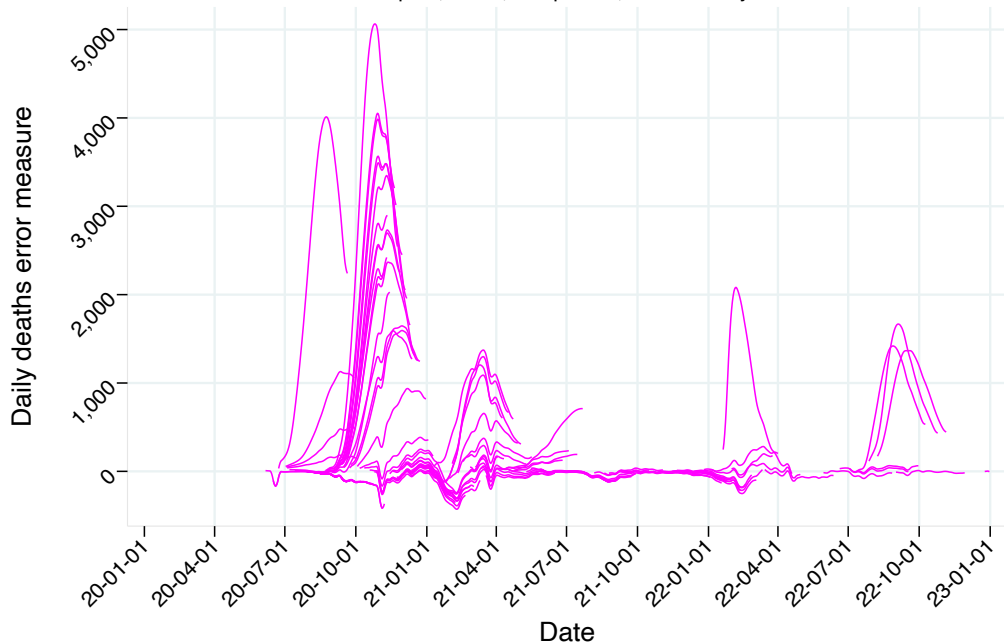
# C19 daily deaths error

Spain, IHME, all updates, forecast only



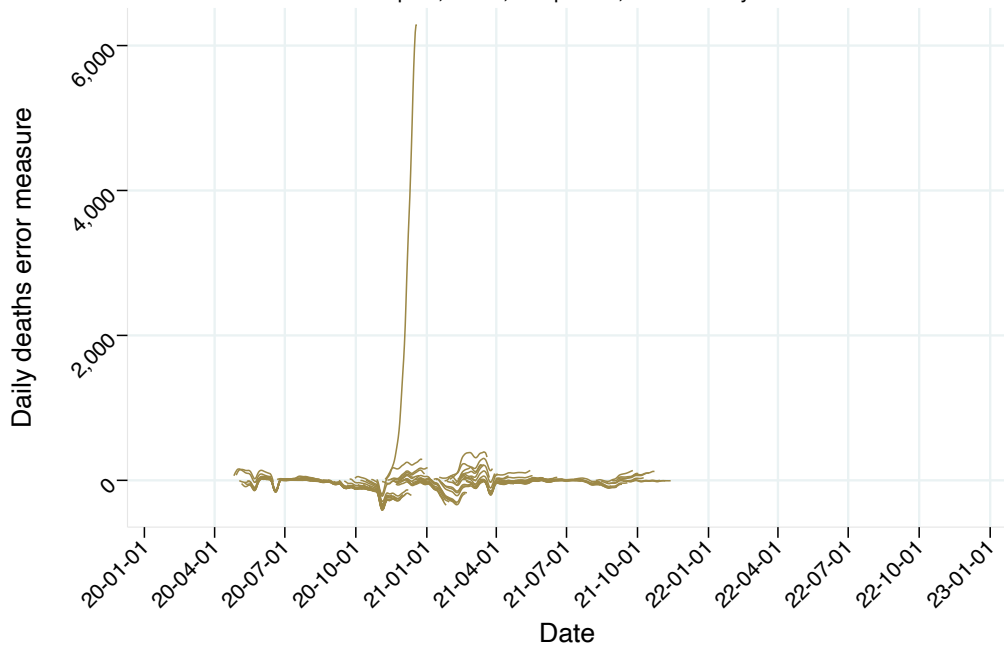
# C19 daily deaths error

Spain, IMPE, all updates, forecast only



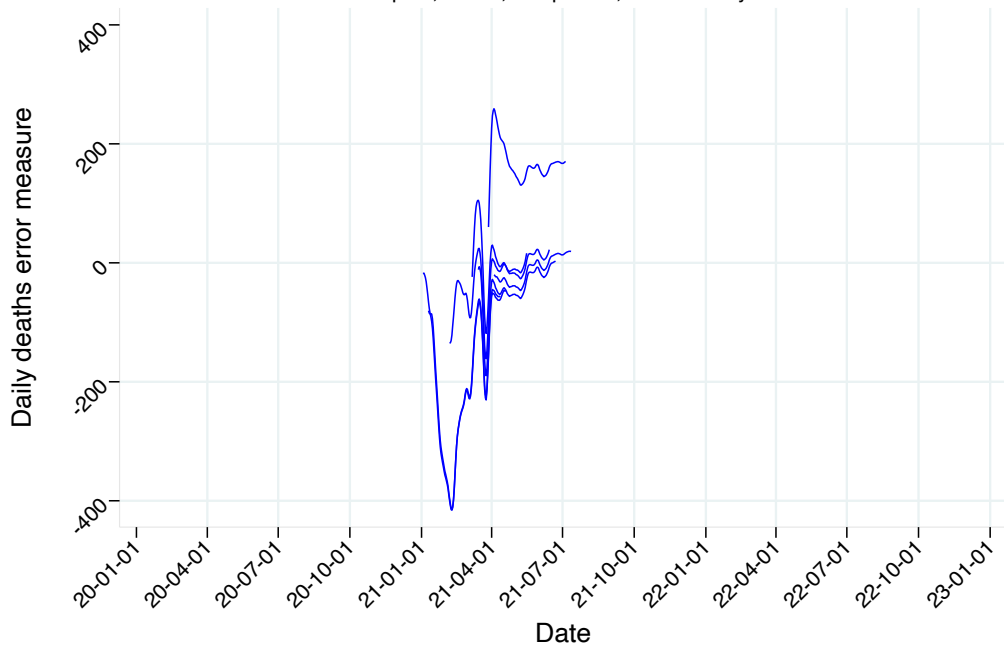
# C19 daily deaths error

Spain, LANL, all updates, forecast only



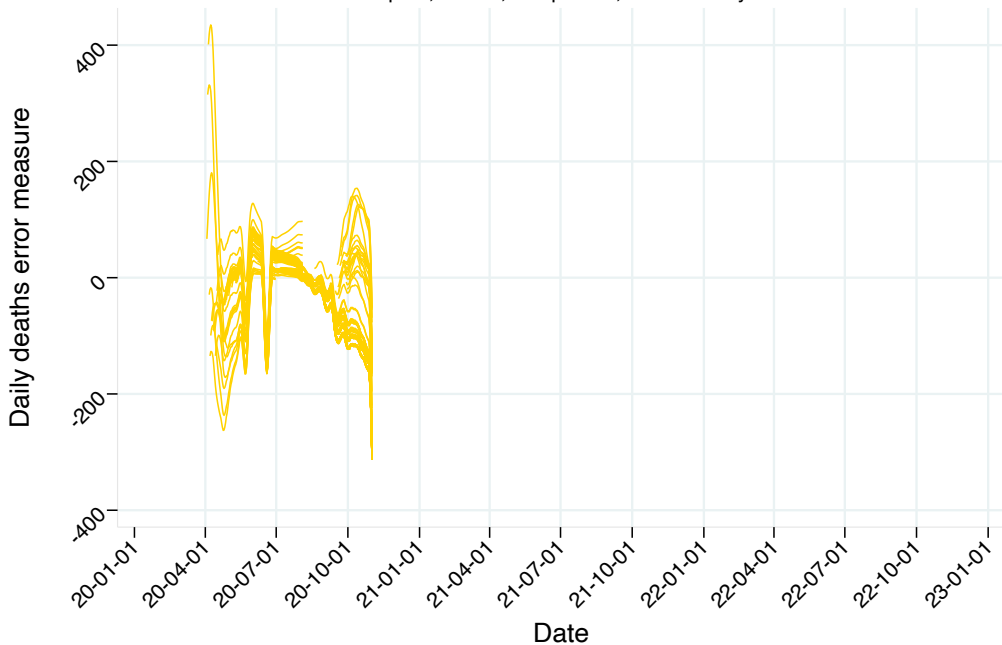
# C19 daily deaths error

Spain, UCLA, all updates, forecast only

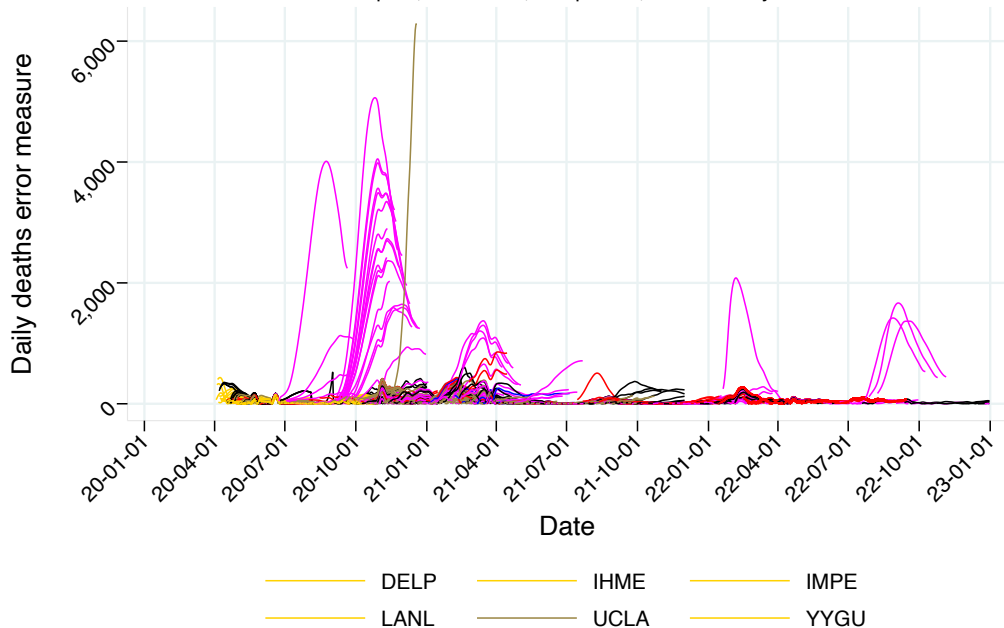


# C19 daily deaths error

Spain, YYGU, all updates, forecast only



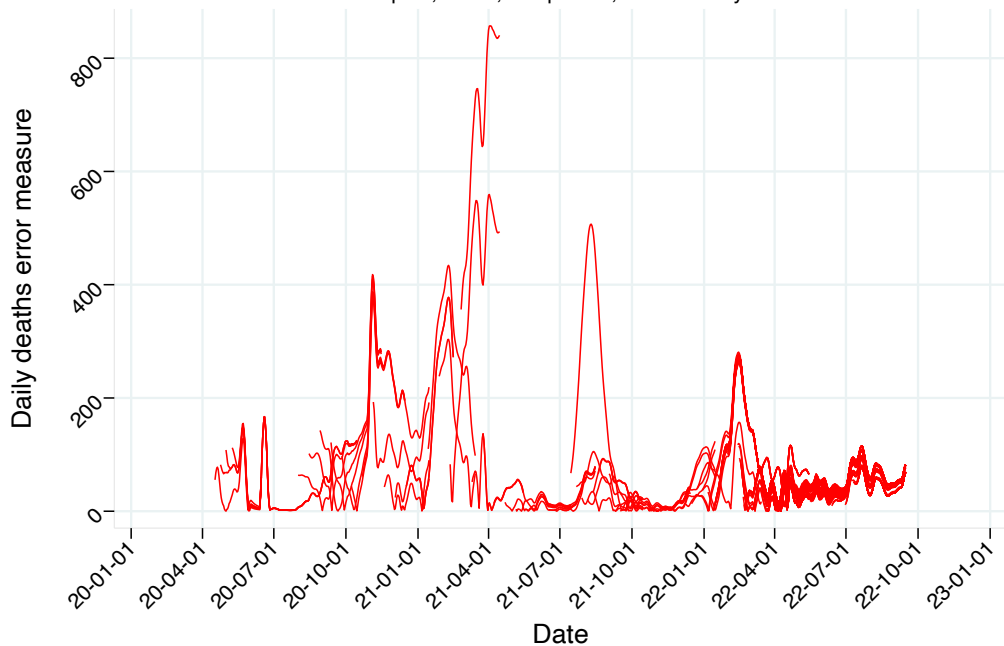
C19 daily deaths absolute error  
Spain, all Models, all updates, forecast only





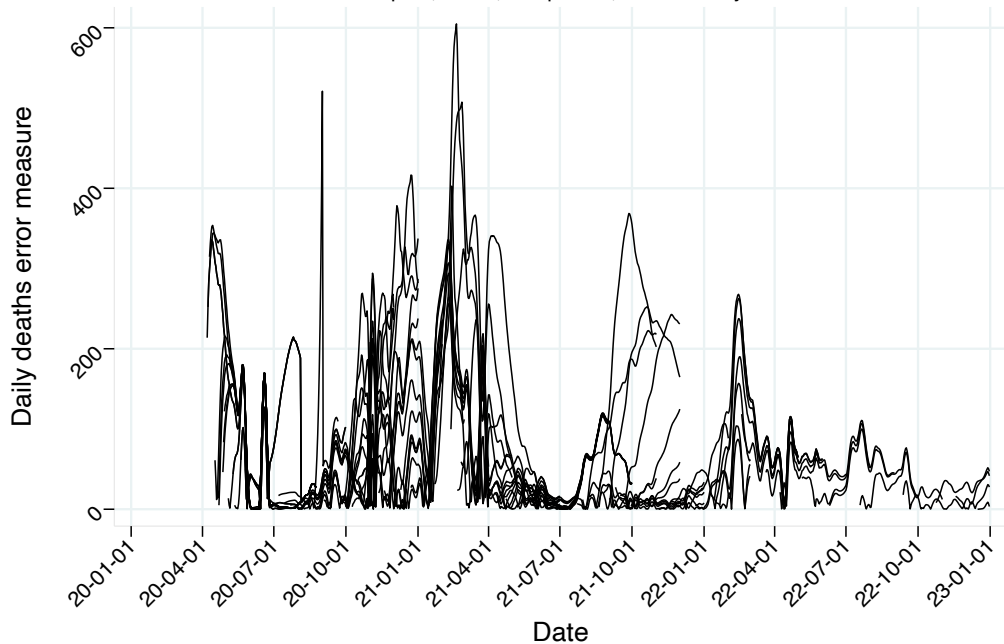
# C19 daily deaths absolute error

Spain, DELP, all updates, forecast only



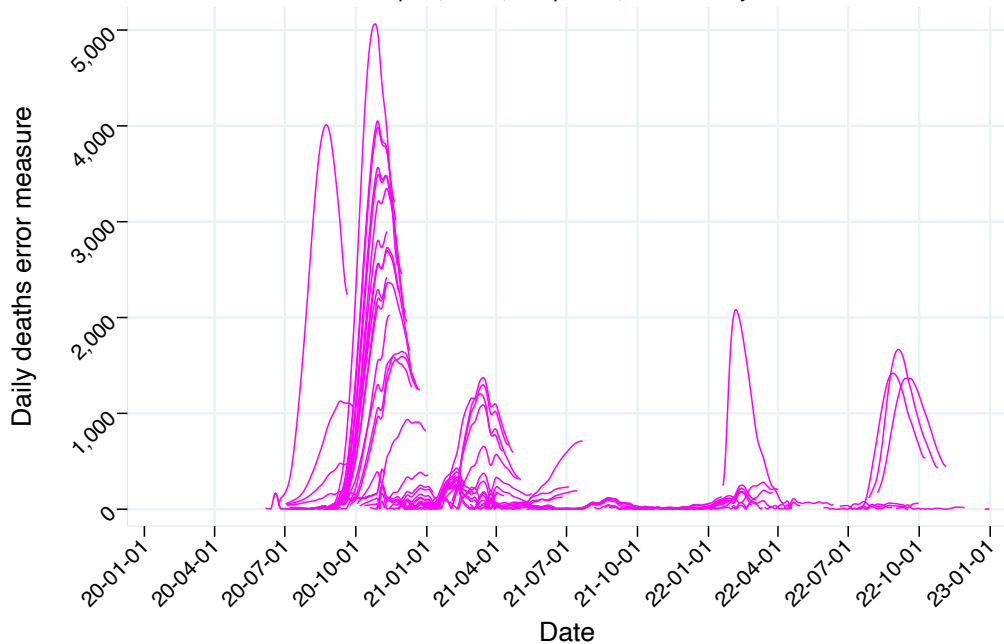
# C19 daily deaths absolute error

Spain, IHME, all updates, forecast only



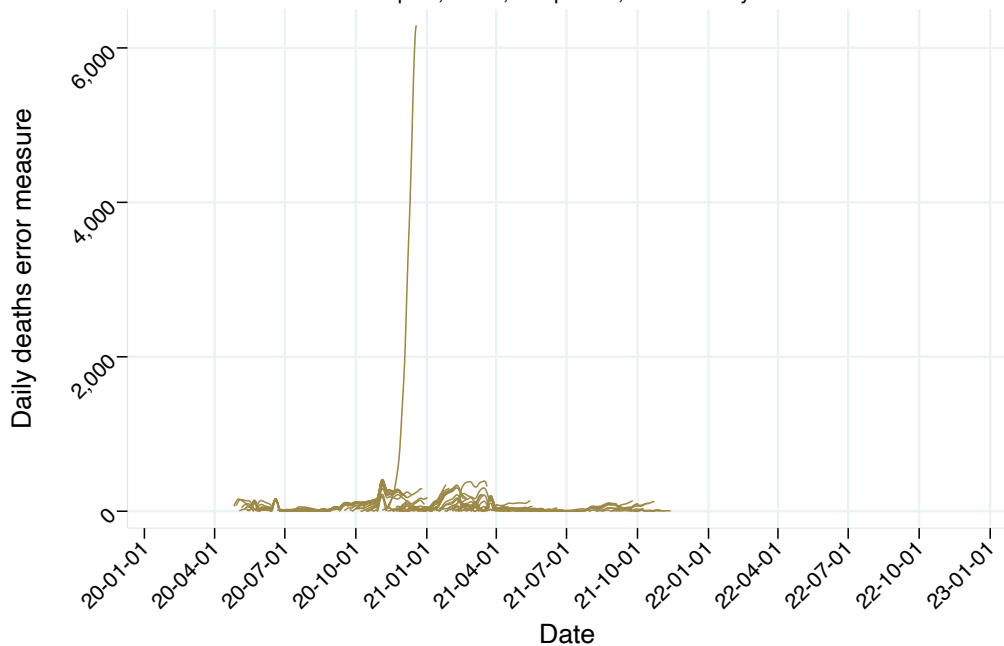
# C19 daily deaths absolute error

Spain, IMPE, all updates, forecast only



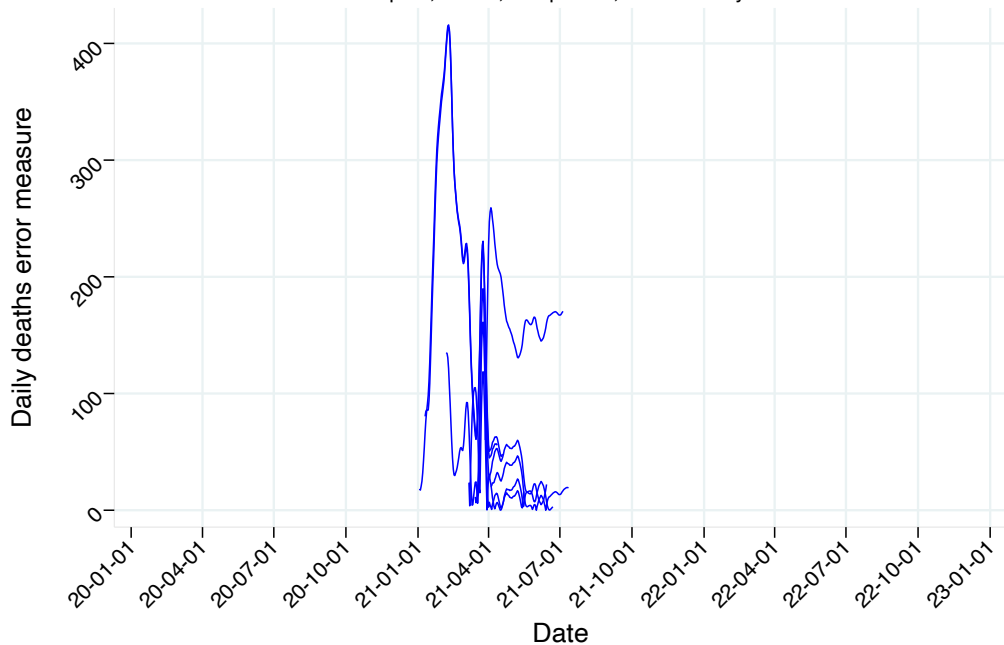
# C19 daily deaths absolute error

Spain, LANL, all updates, forecast only



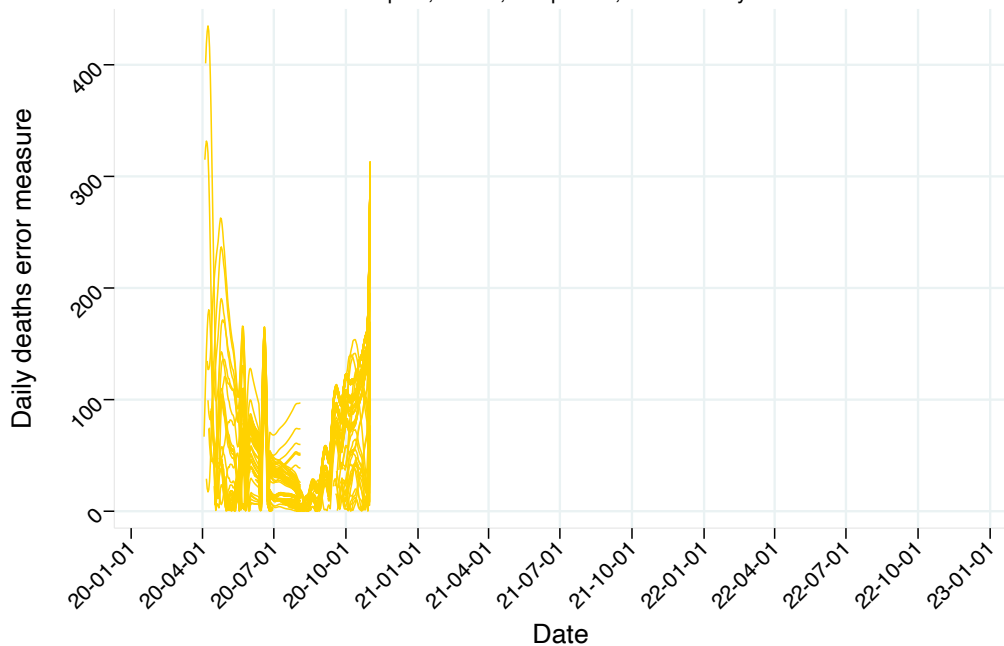
# C19 daily deaths absolute error

Spain, UCLA, all updates, forecast only



# C19 daily deaths absolute error

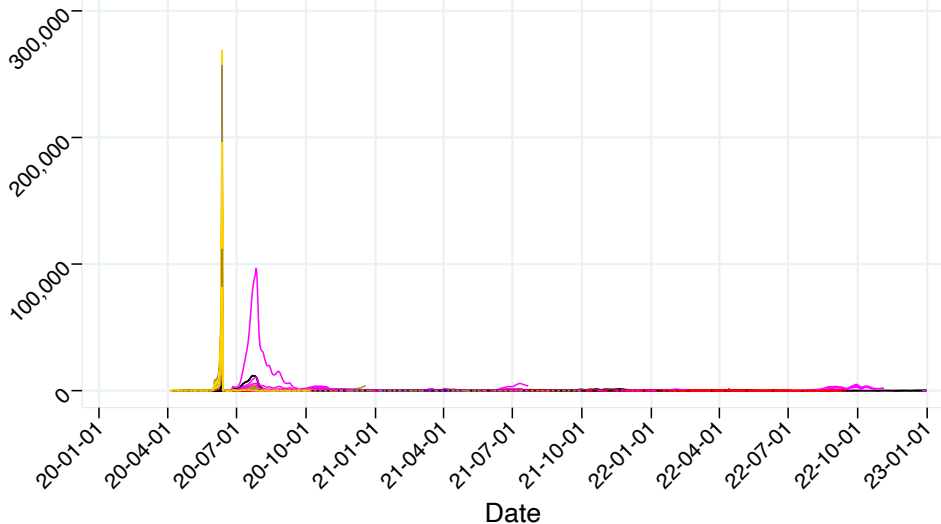
Spain, YYGU, all updates, forecast only



# C19 daily deaths percent error

Spain, all Models, all updates, forecast only

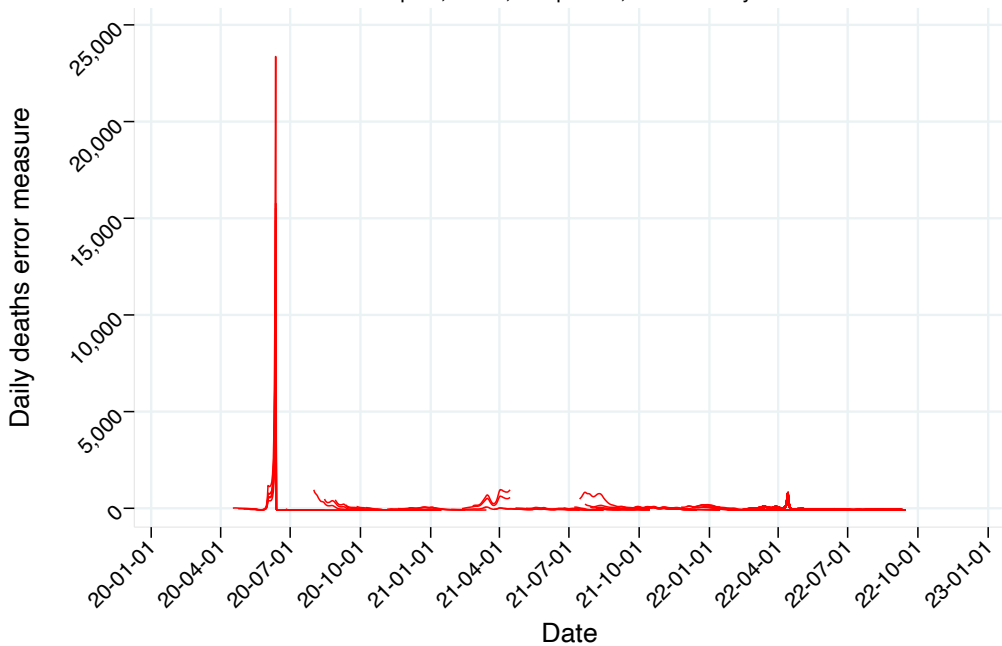
Daily deaths error measure



DELPHI IHME IMPE  
LANL UCLA YYGU

# C19 daily deaths percent error

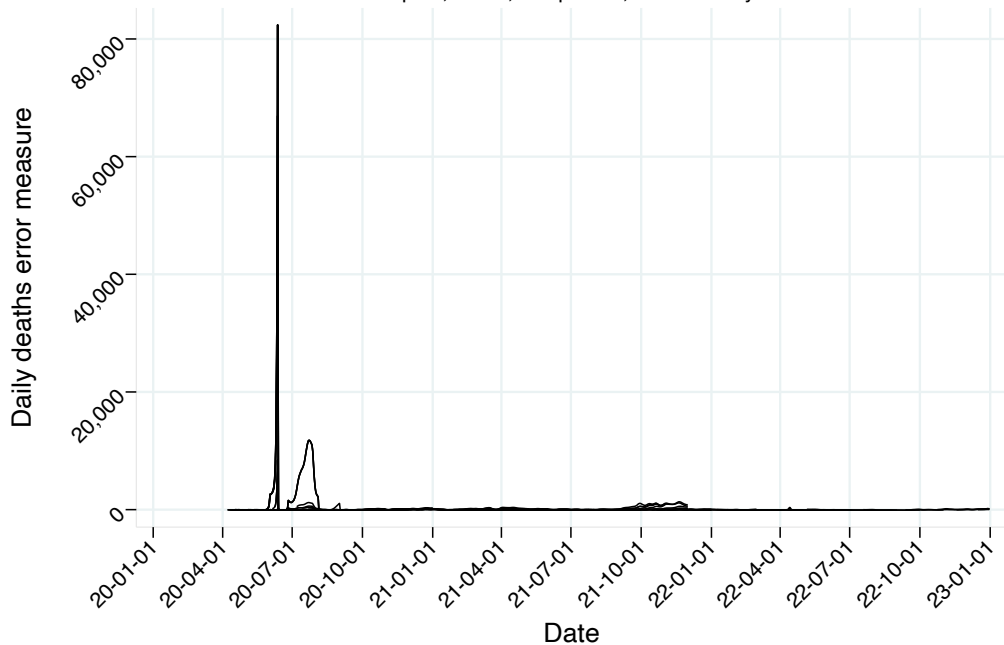
Spain, DELP, all updates, forecast only





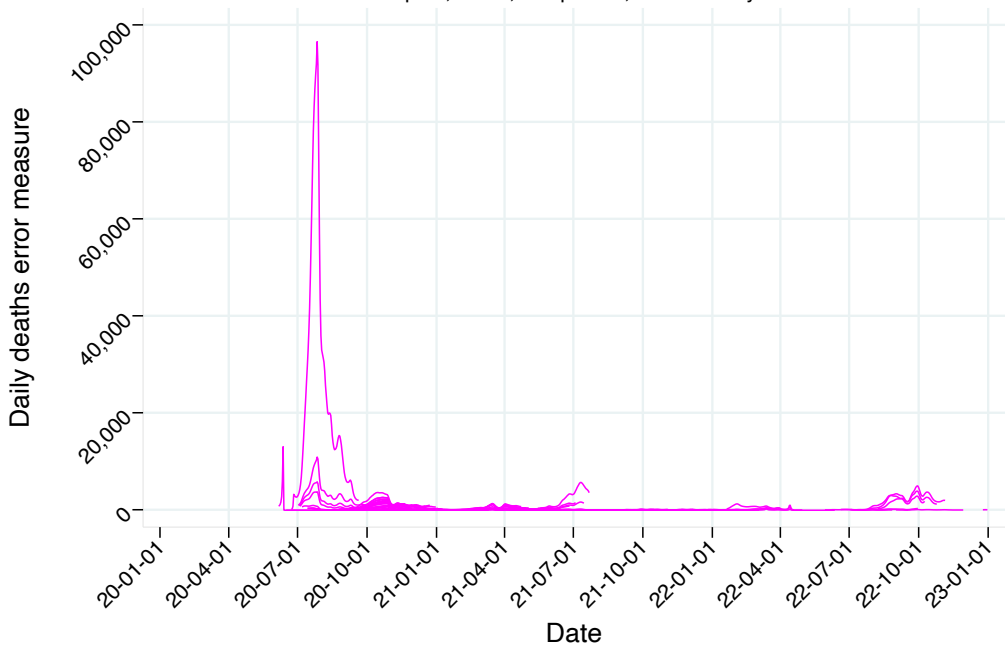
# C19 daily deaths percent error

Spain, IHME, all updates, forecast only



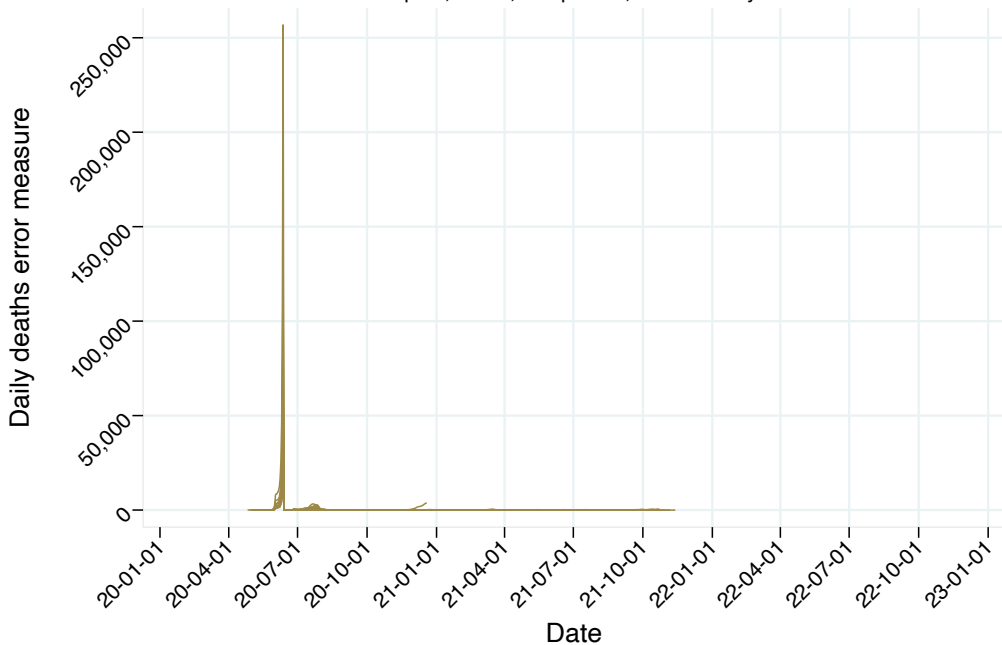
# C19 daily deaths percent error

Spain, IMPE, all updates, forecast only



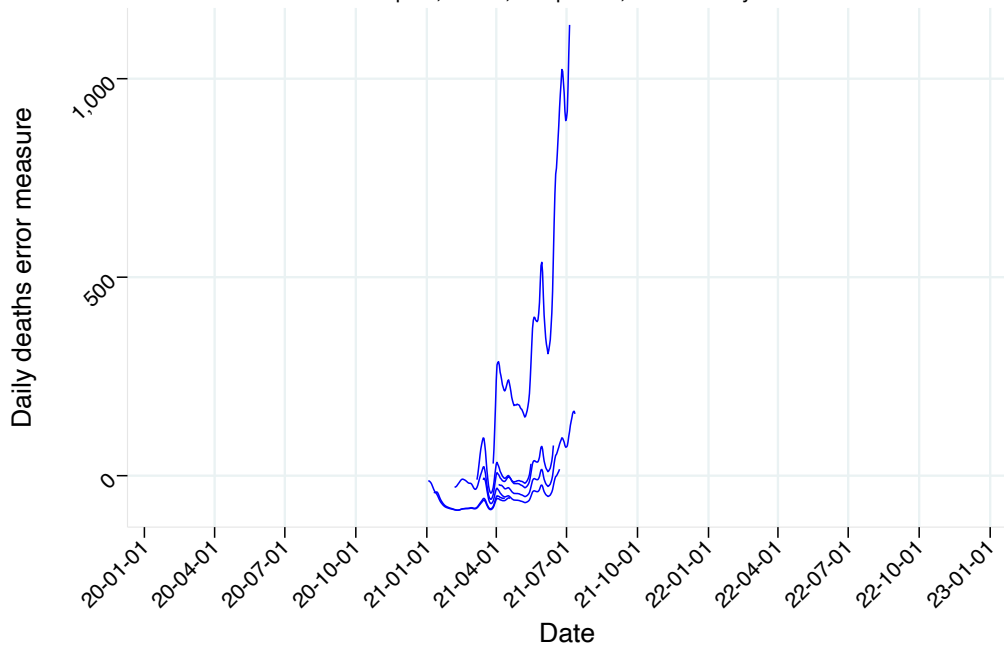
# C19 daily deaths percent error

Spain, LANL, all updates, forecast only



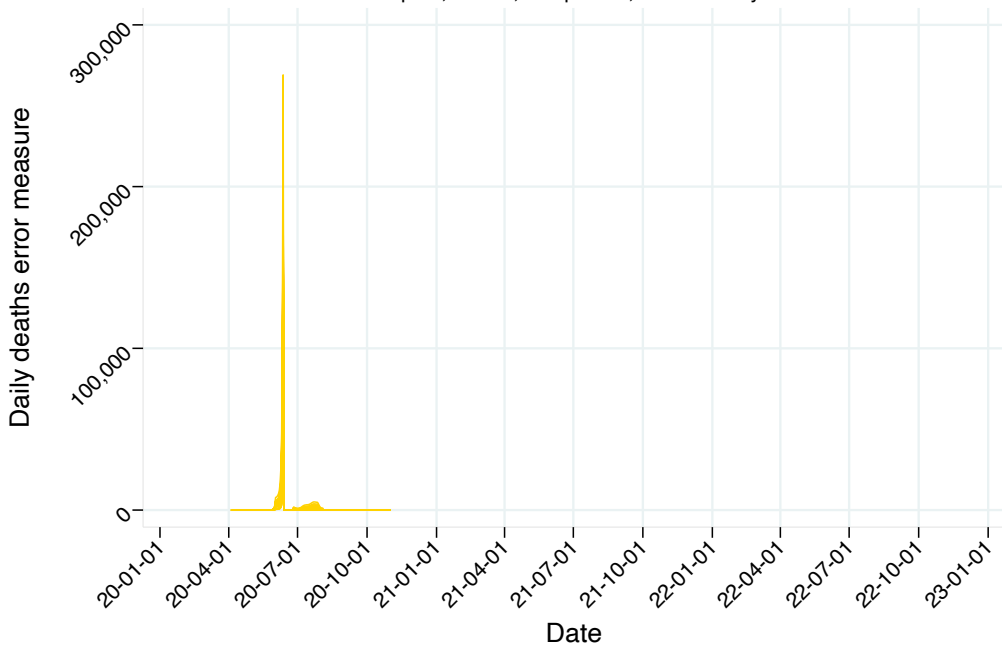
# C19 daily deaths percent error

Spain, UCLA, all updates, forecast only



# C19 daily deaths percent error

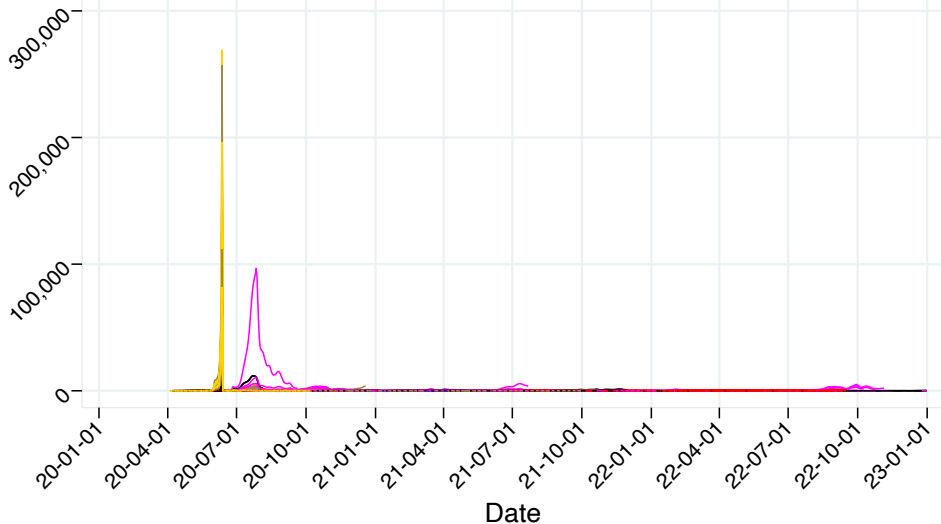
Spain, YYGU, all updates, forecast only



# C19 daily deaths absolute percent error

Spain, ALL MODELS, all updates, forecast only

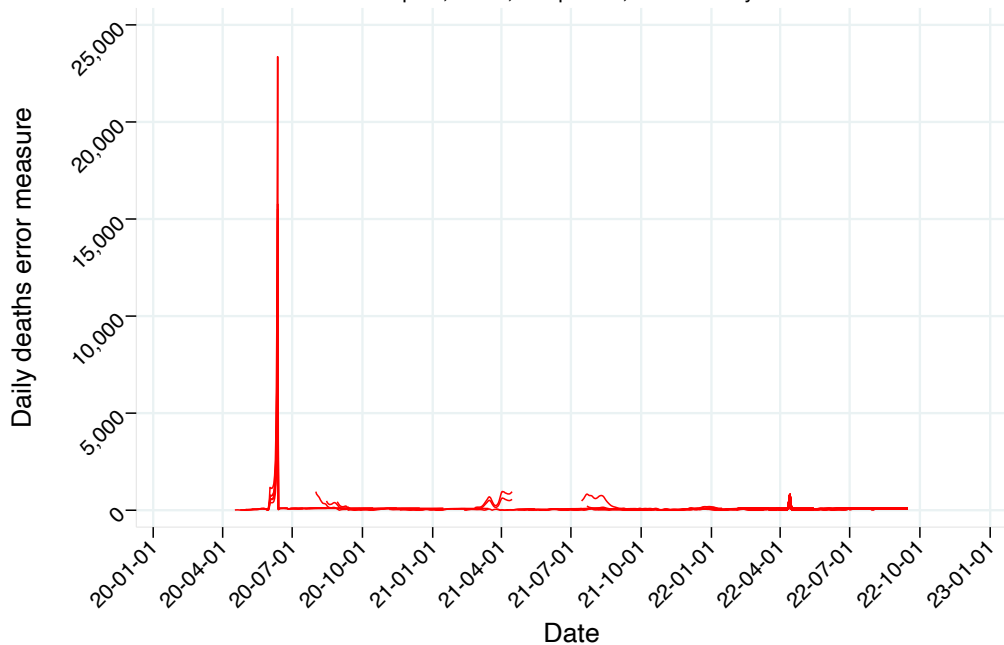
Daily deaths error measure



DELPHI IHME IMPE  
LANL UCLA YYGU

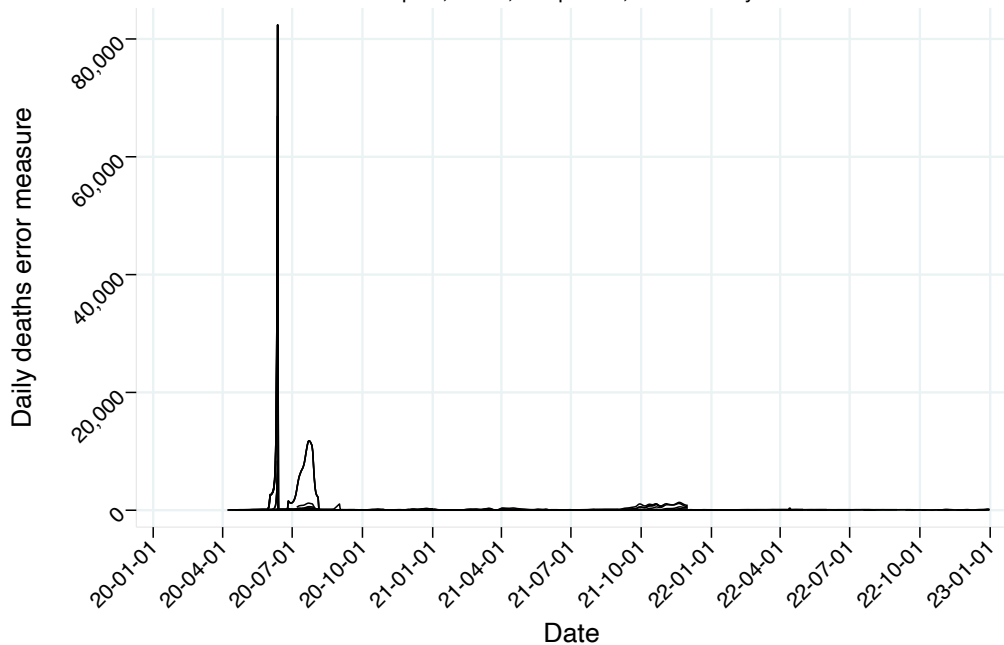
# C19 daily deaths absolute percent error

Spain, DELP, all updates, forecast only



# C19 daily deaths absolute percent error

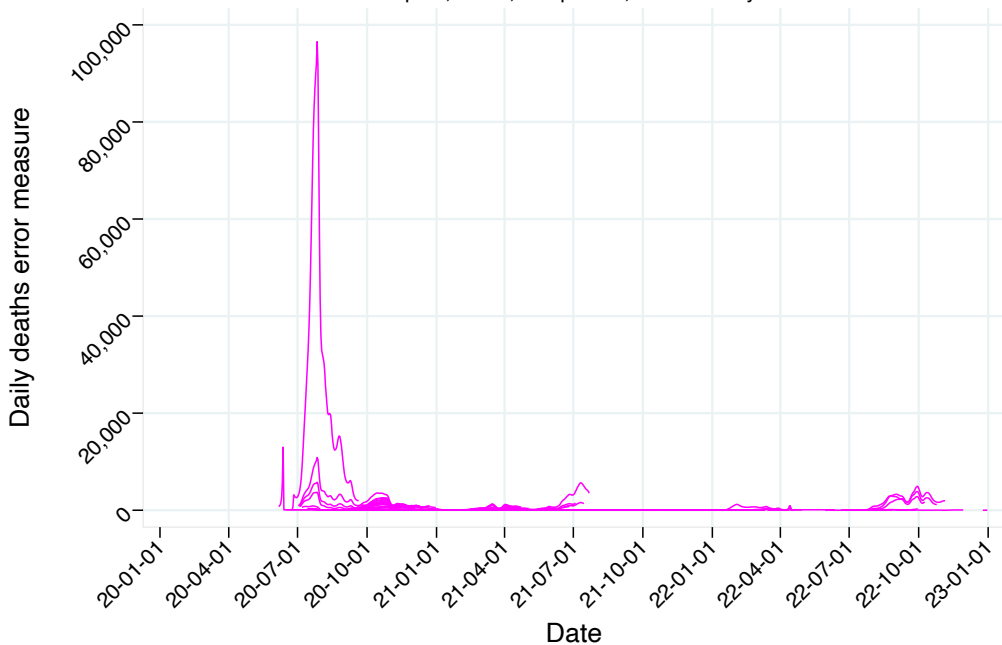
Spain, IHME, all updates, forecast only





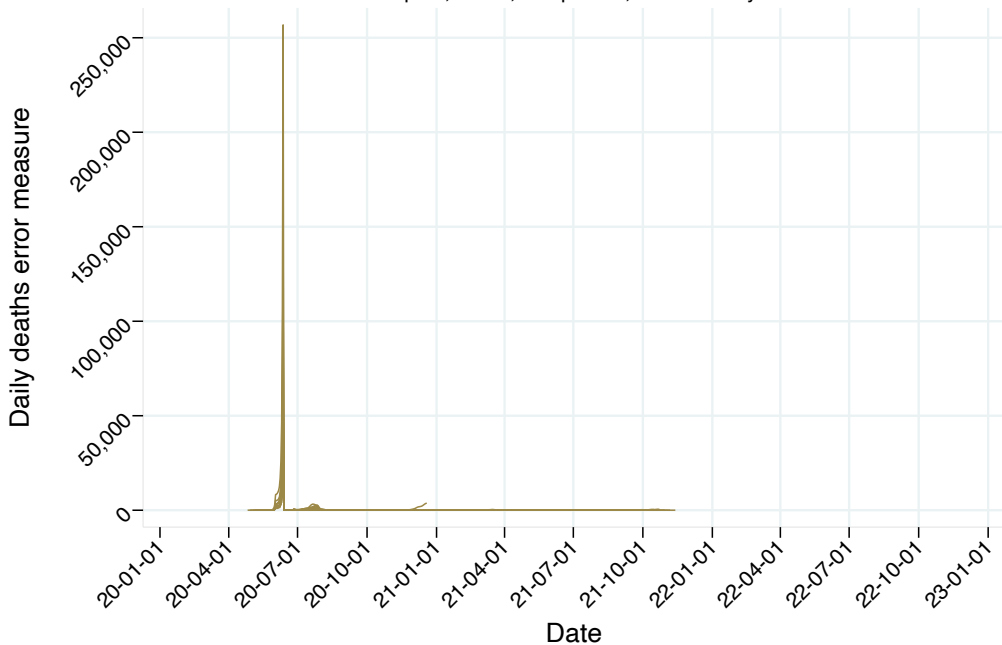
# C19 daily deaths absolute percent error

Spain, IMPE, all updates, forecast only



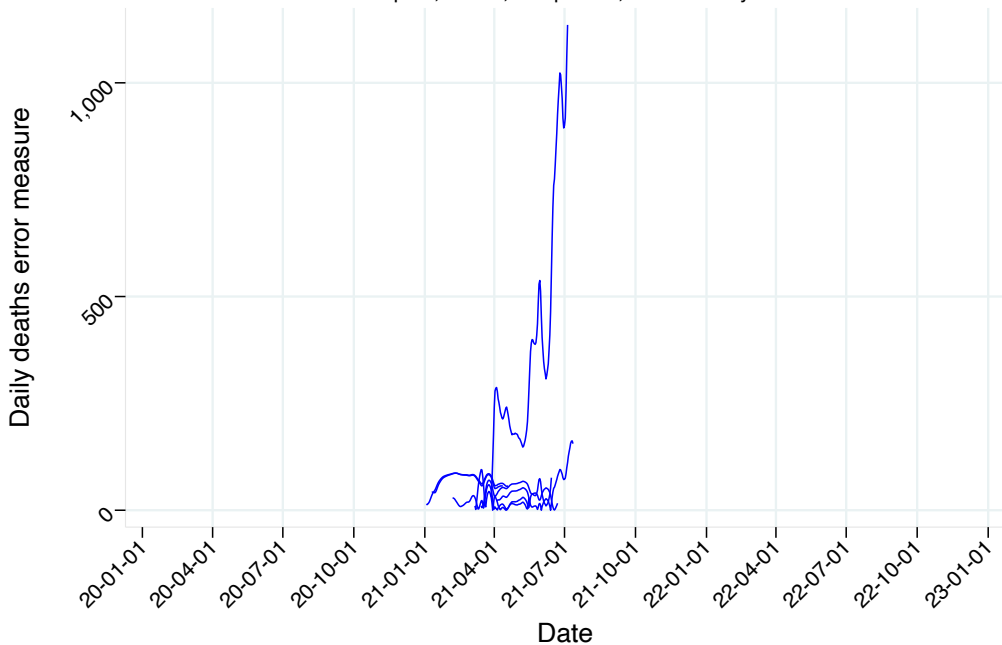
# C19 daily deaths absolute percent error

Spain, LANL, all updates, forecast only



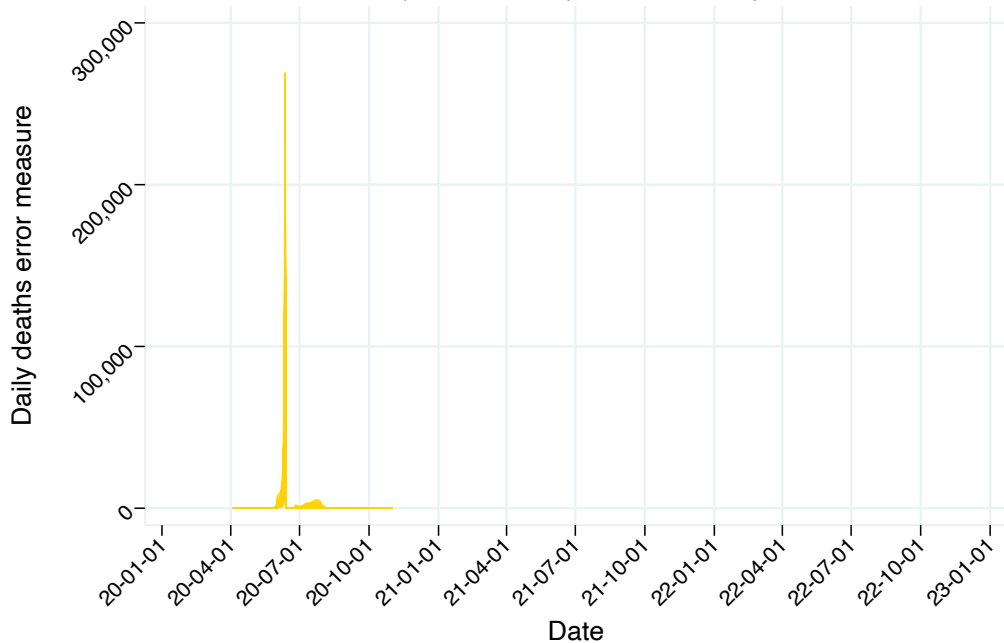
# C19 daily deaths absolute percent error

Spain, UCLA, all updates, forecast only



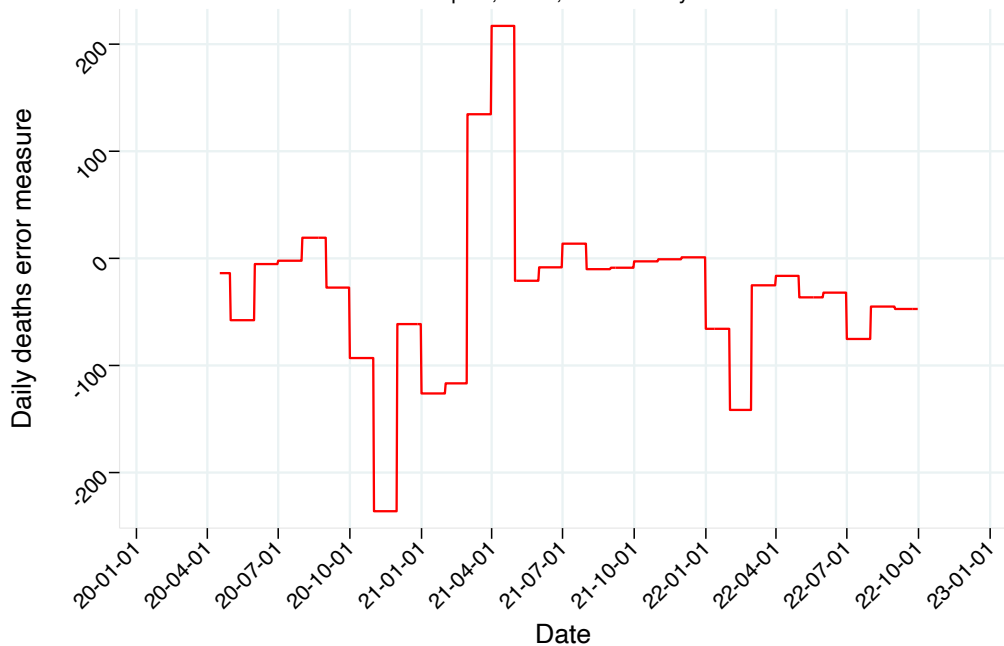
# C19 daily deaths absolute percent error

Spain, YYGU, all updates, forecast only



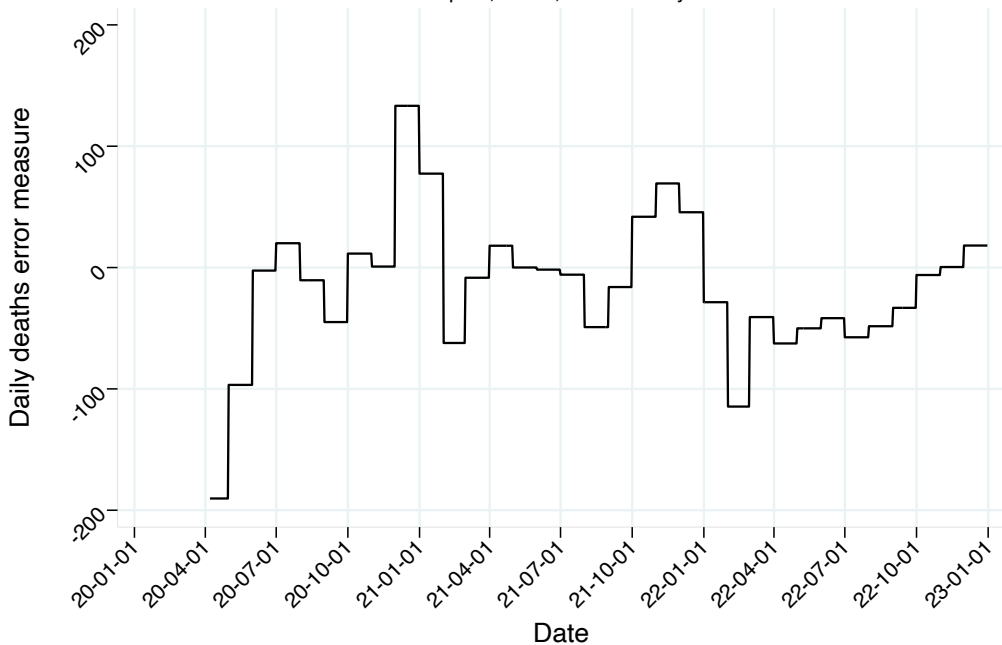
# C19 daily deaths, average median error

Spain, DELP, forecast only



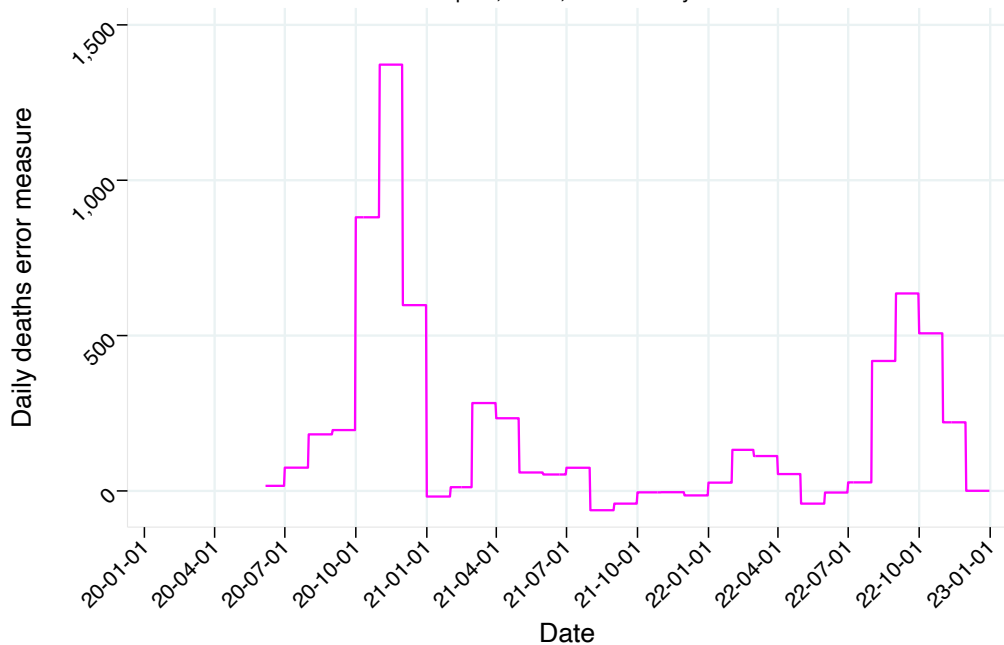
# C19 daily deaths, average median error

Spain, IHME, forecast only



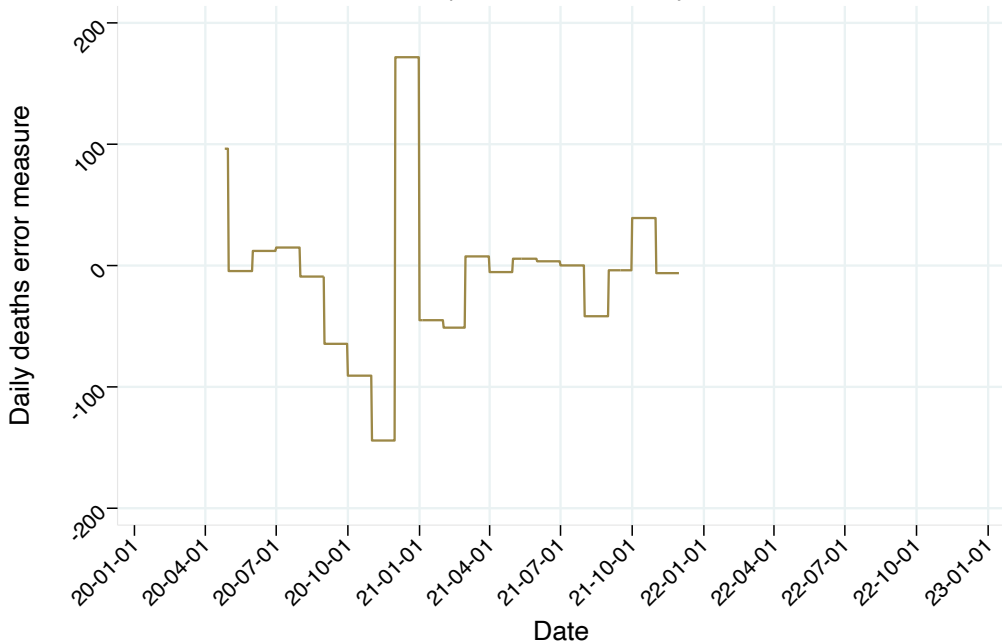
# C19 daily deaths, average median error

Spain, IMPE, forecast only



# C19 daily deaths, average median error

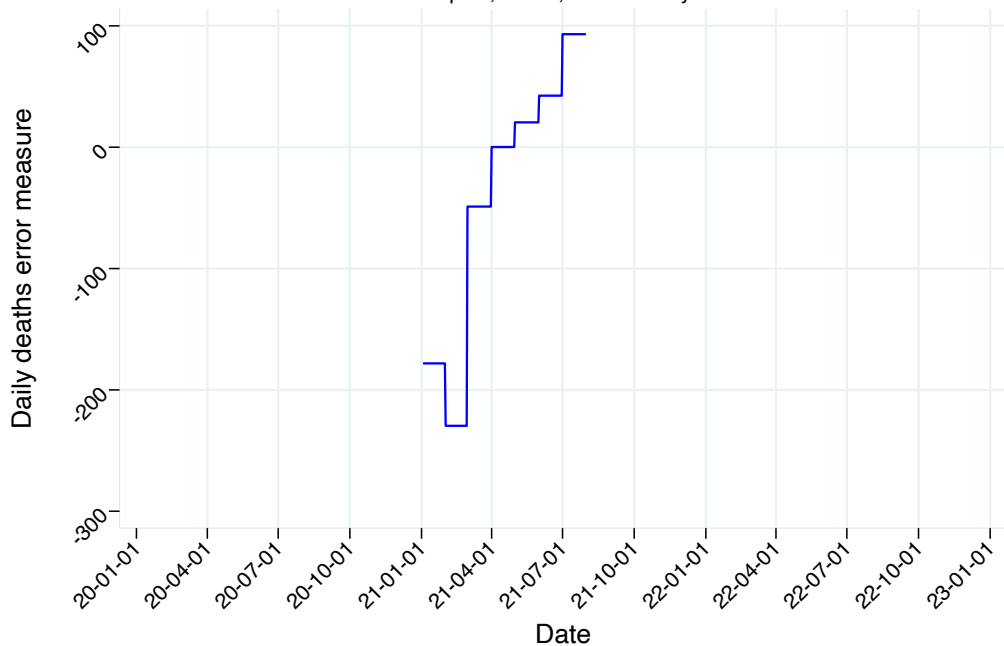
Spain, LANL, forecast only





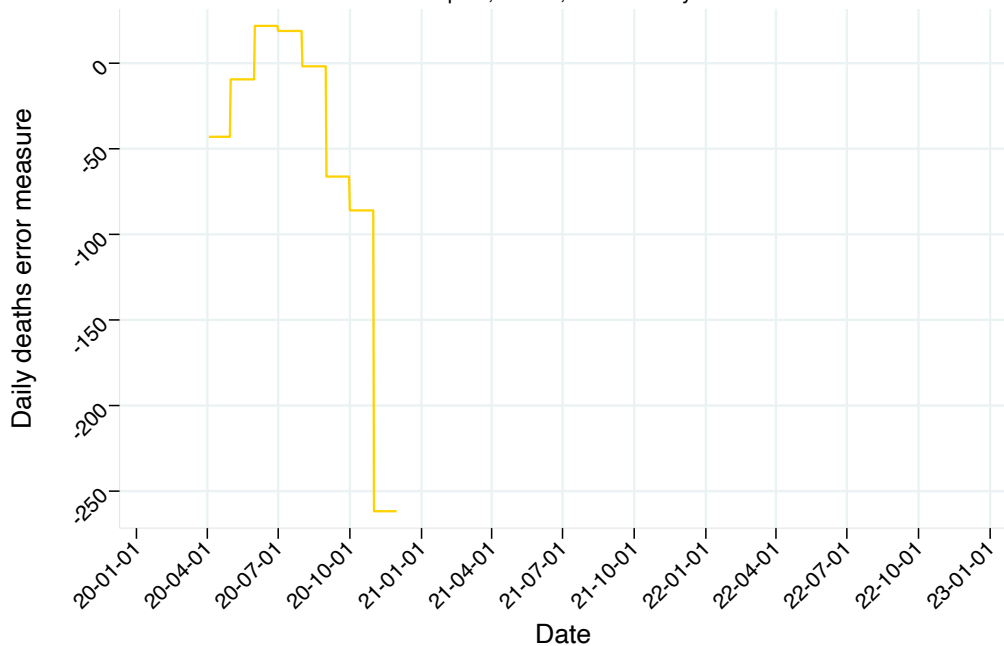
# C19 daily deaths, average median error

Spain, UCLA, forecast only



# C19 daily deaths, average median error

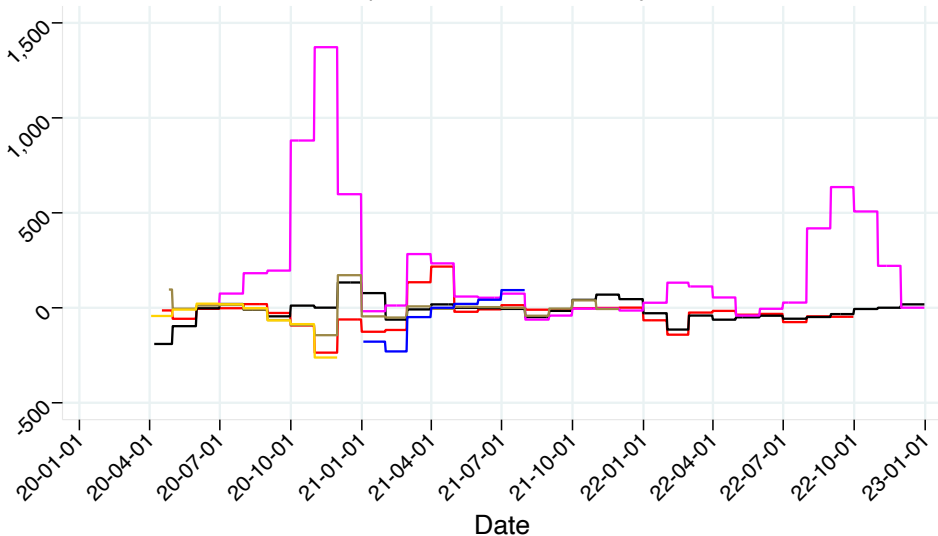
Spain, YYGU, forecast only



# C19 daily deaths, average median error

Spain, all Models, forecast only

Daily deaths error measure

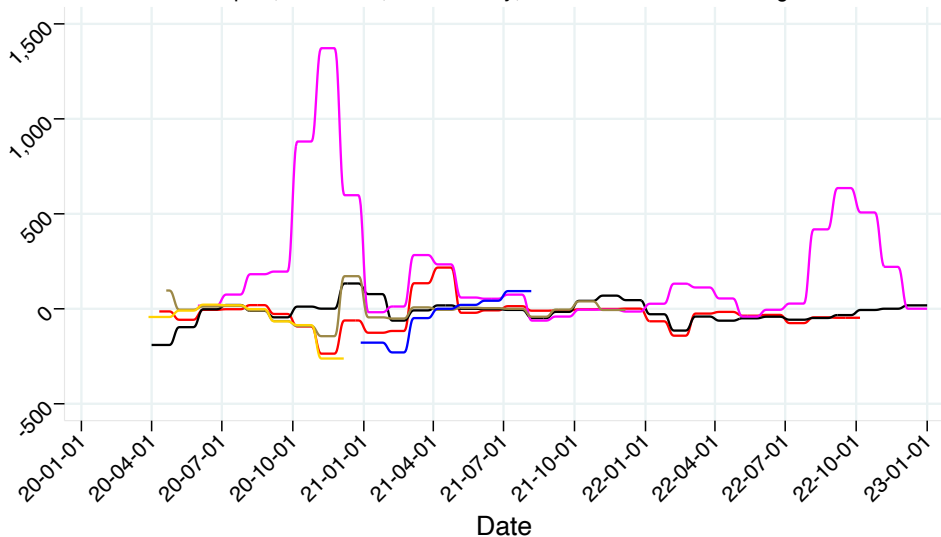


DELP IHME IMPE  
LANL UCLA YYGU

# C19 daily deaths, average median error

Spain, all Models, forecast only; smoothed for better viewing

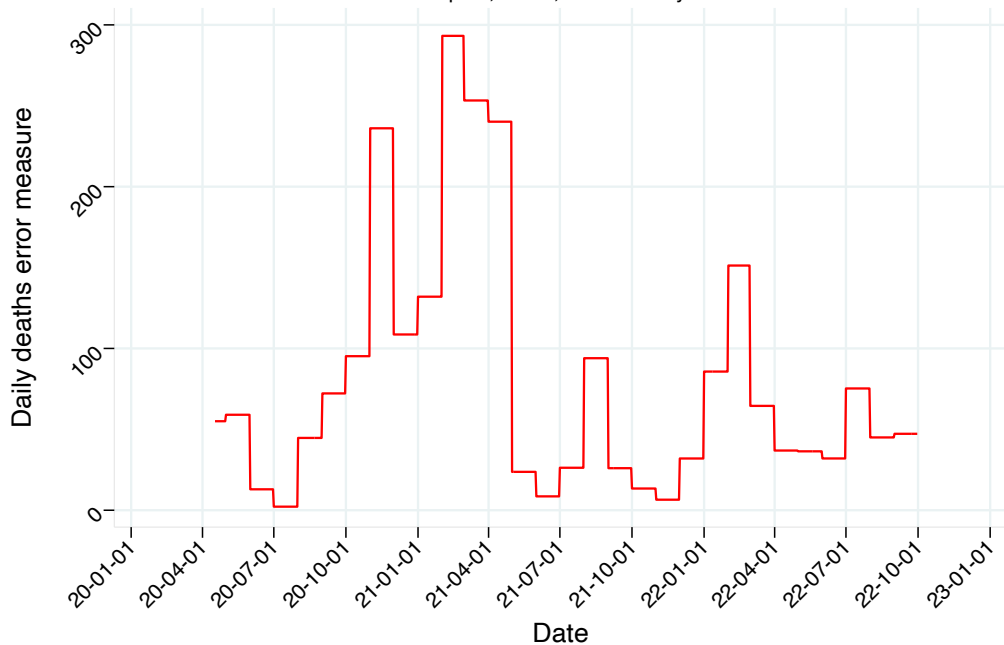
Daily deaths error measure



DELP IHME IMPE  
LANL UCLA YYGU

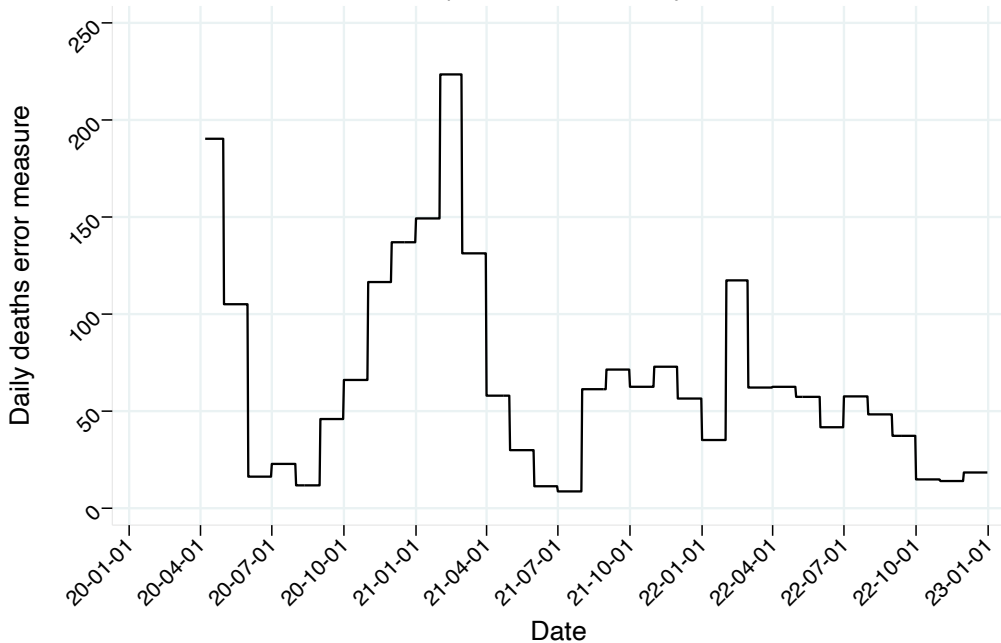
# C19 daily deaths, average median absolute error

Spain, DELP, forecast only



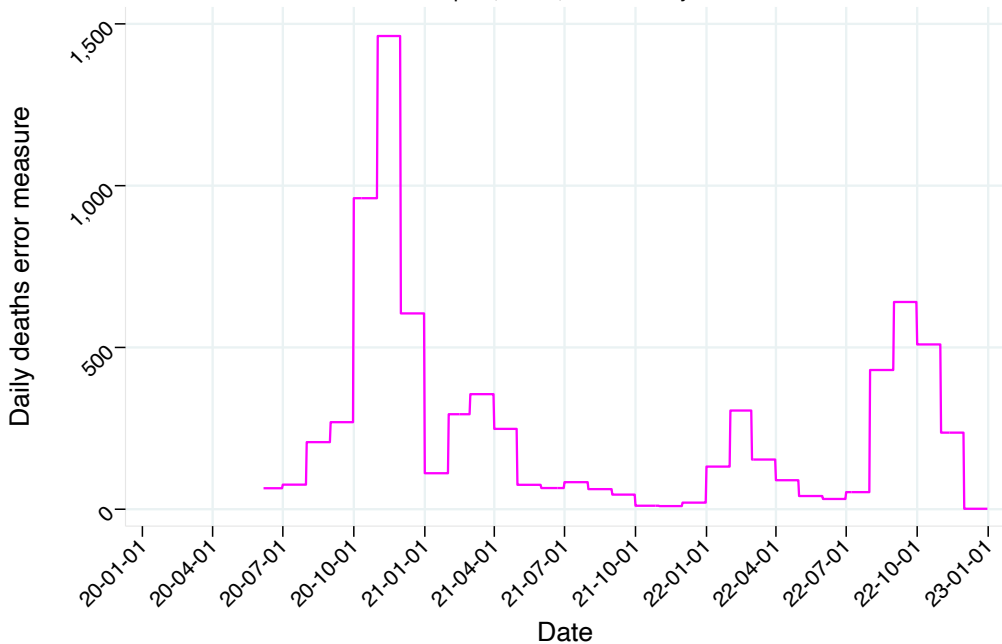
# C19 daily deaths, average median absolute error

Spain, IHME, forecast only



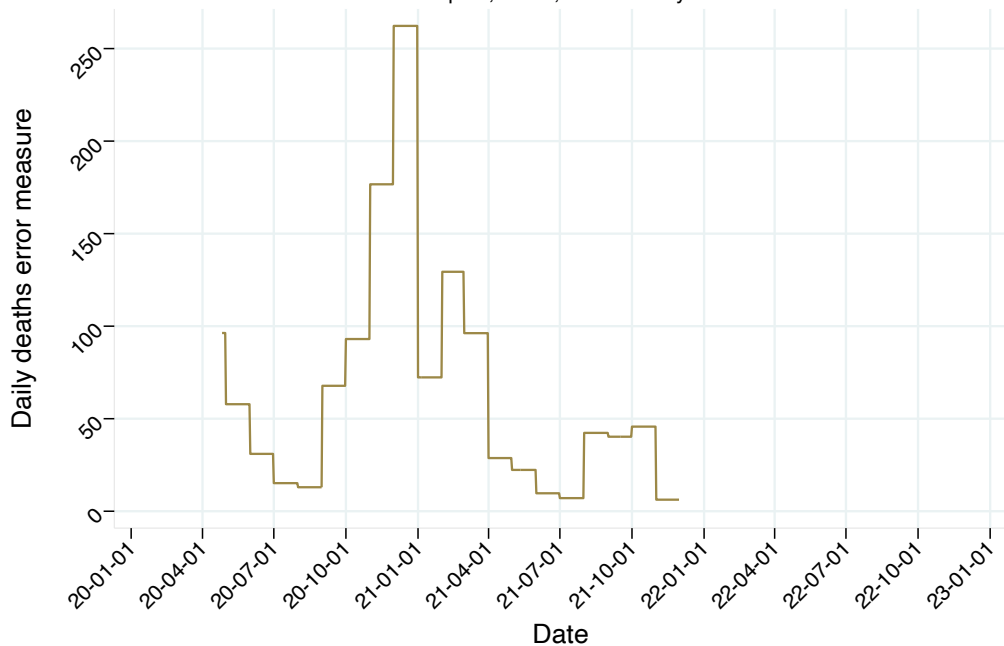
# C19 daily deaths, average median absolute error

Spain, IMPE, forecast only



# C19 daily deaths, average median absolute error

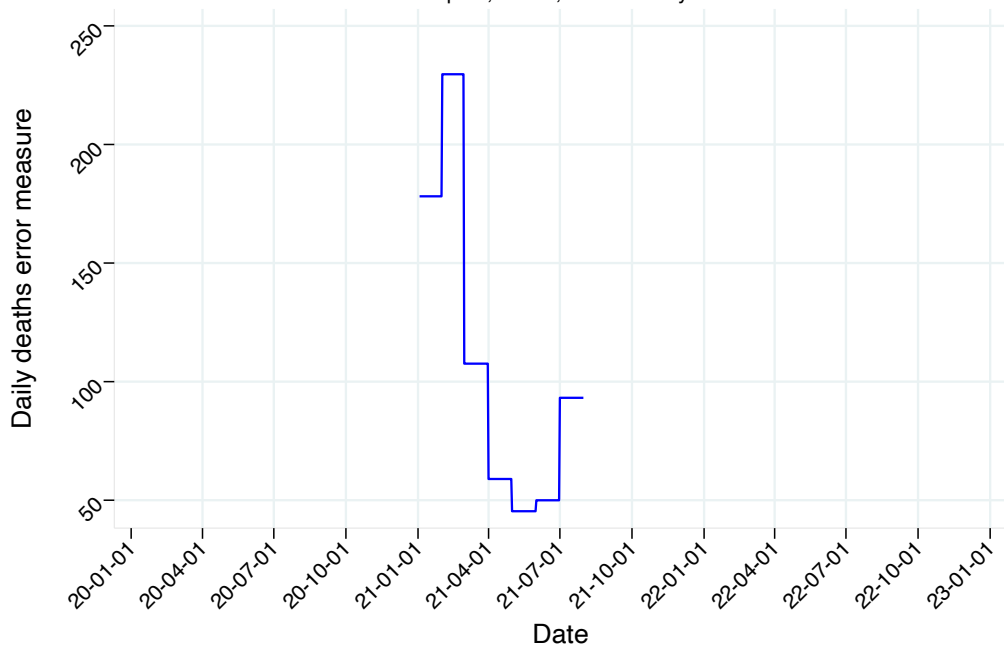
Spain, LANL, forecast only





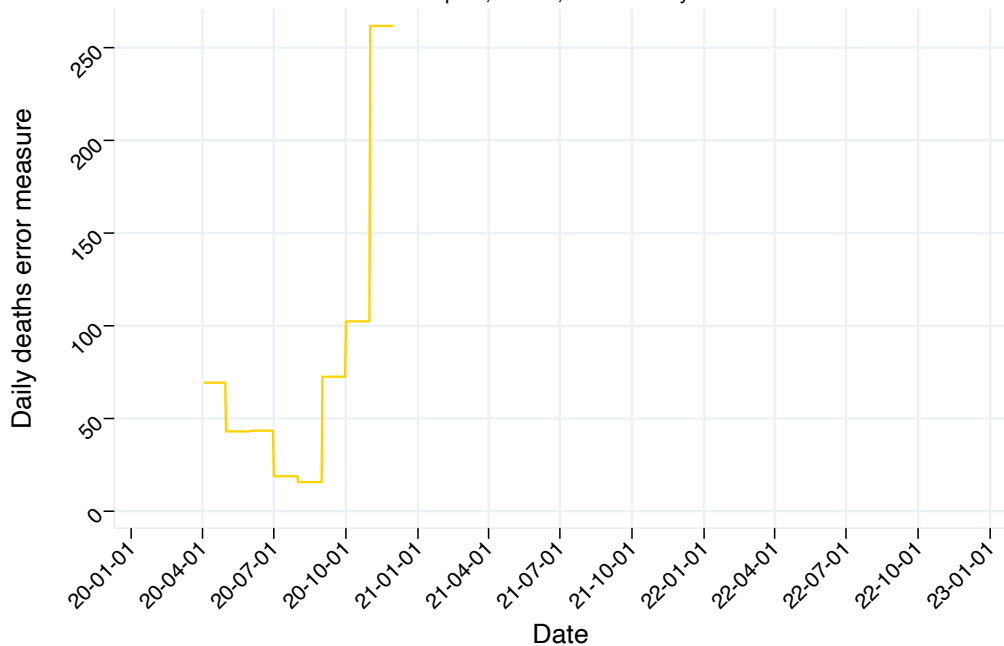
# C19 daily deaths, average median absolute error

Spain, UCLA, forecast only



# C19 daily deaths, average median absolute error

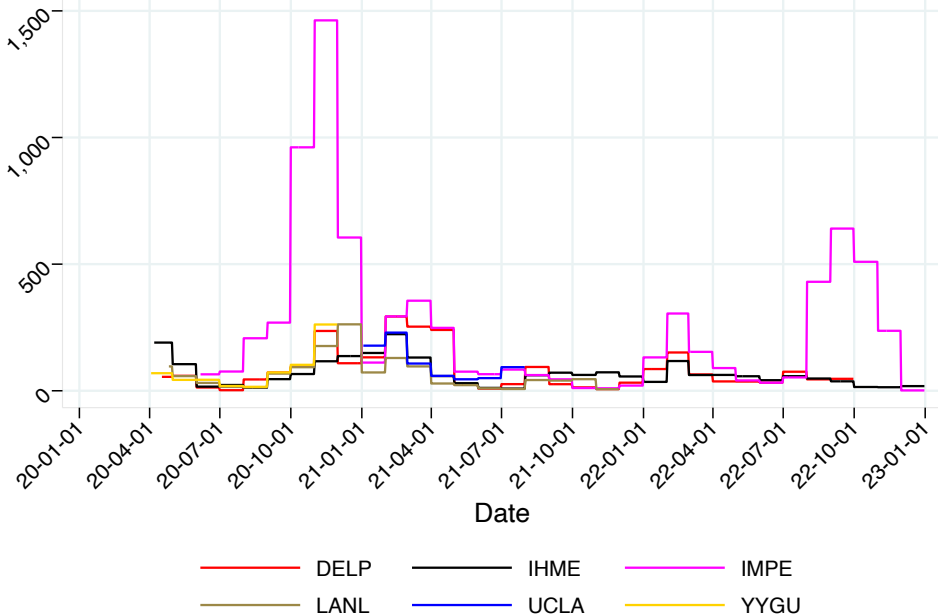
Spain, YYGU, forecast only



# C19 daily deaths, average median absolute error

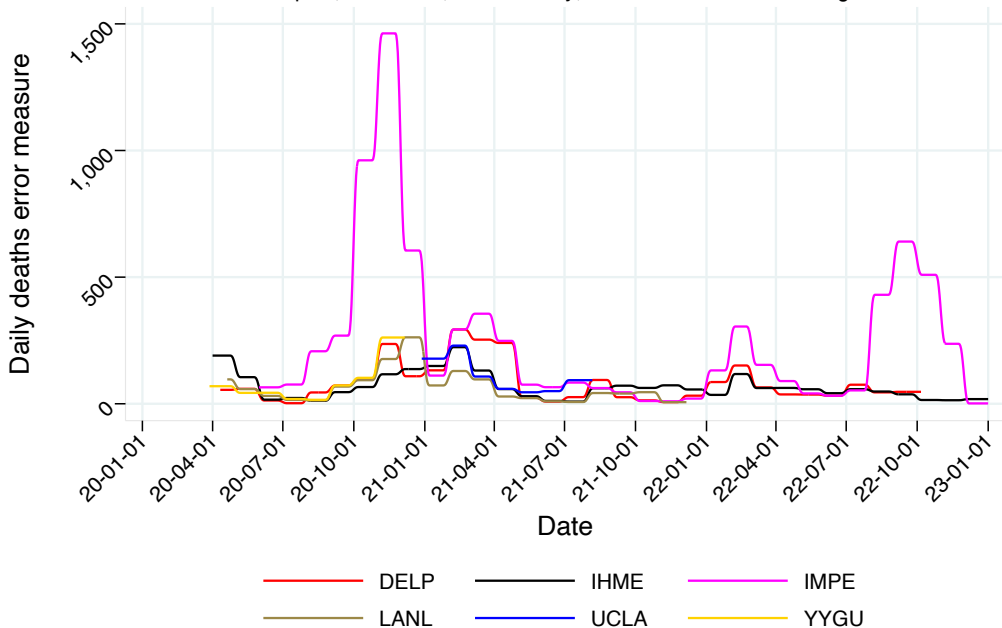
Spain, all Models, forecast only

Daily deaths error measure



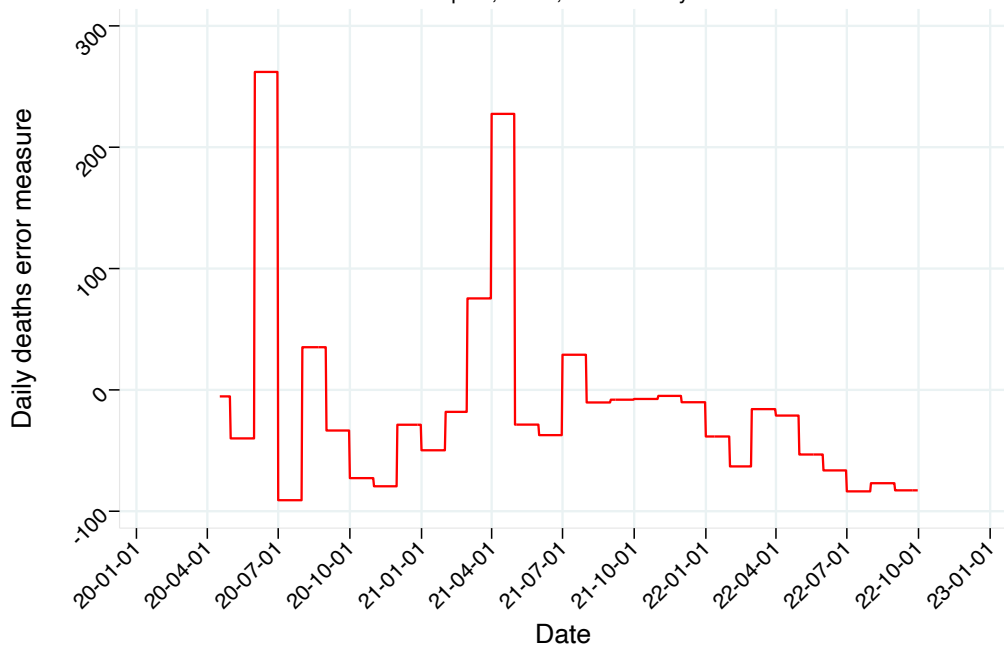
# C19 daily deaths, average median absolute error

Spain, all Models, forecast only; smoothed for better viewing



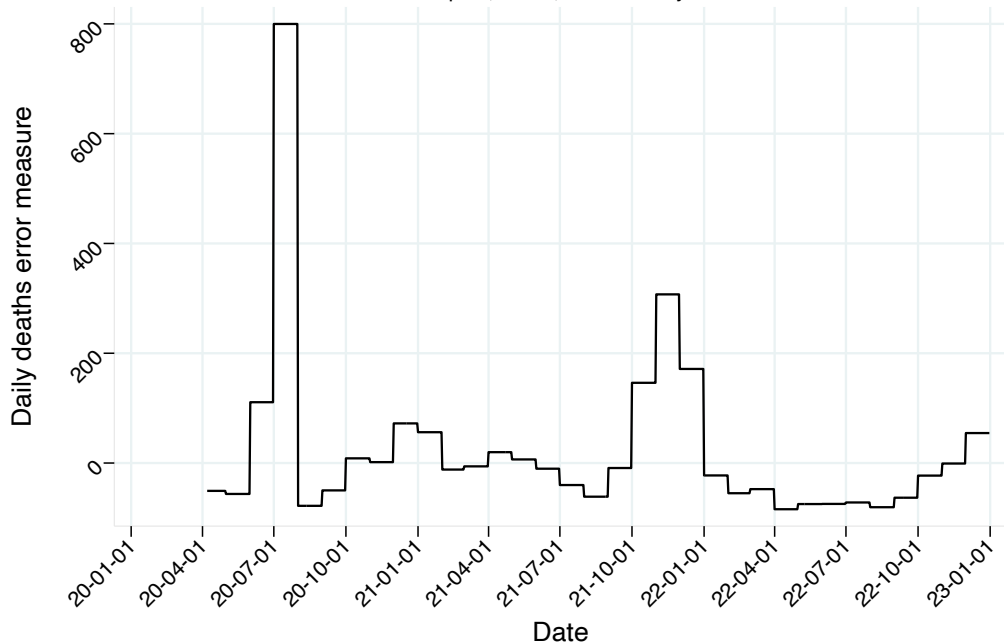
# C19 daily deaths, average median percent error

Spain, DELP, forecast only



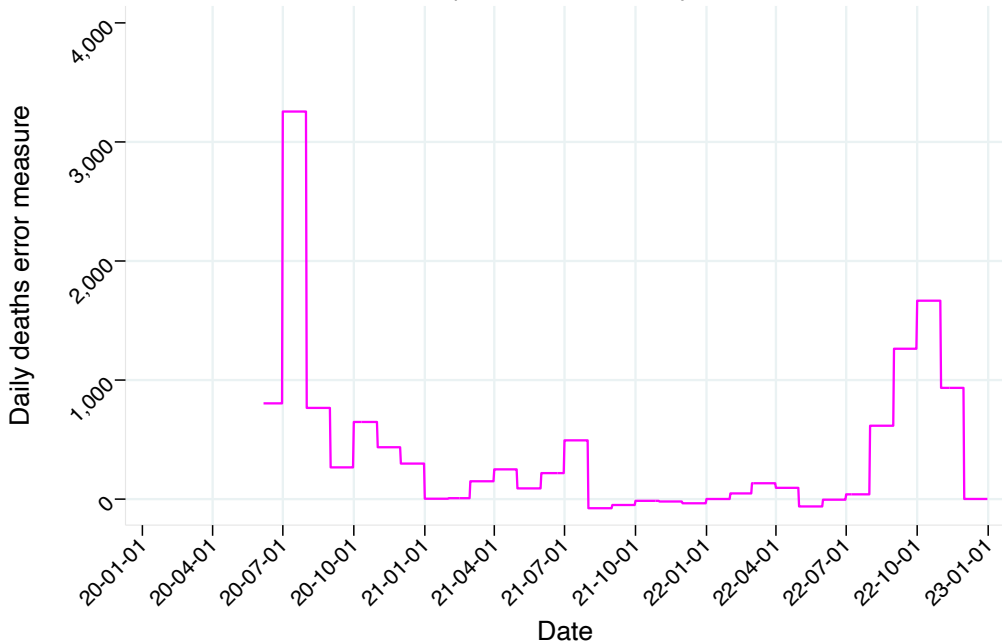
# C19 daily deaths, average median percent error

Spain, IHME, forecast only



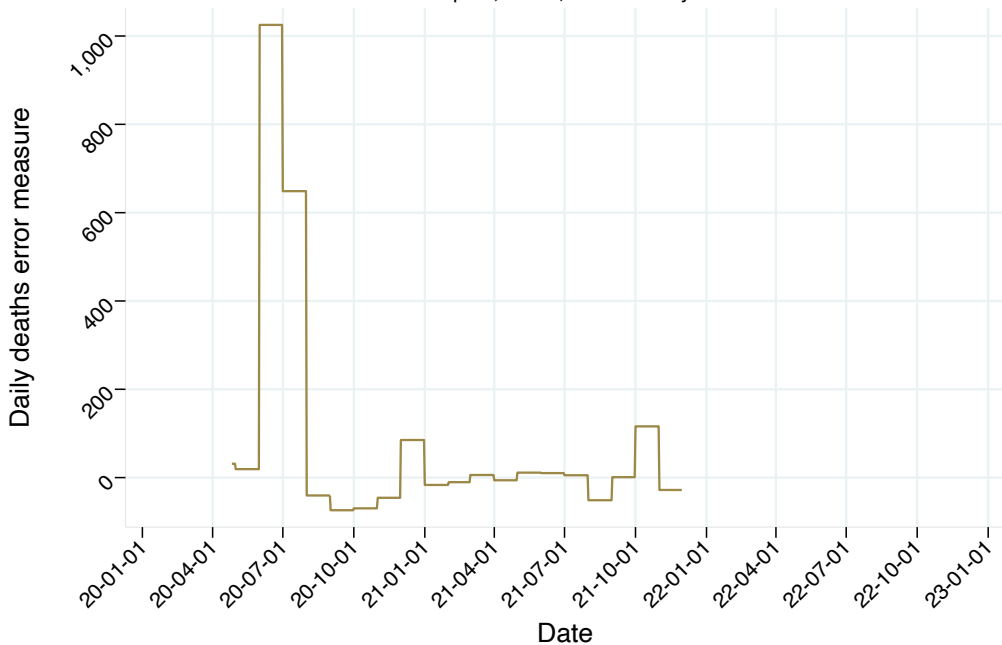
# C19 daily deaths, average median percent error

Spain, IMPE, forecast only



# C19 daily deaths, average median percent error

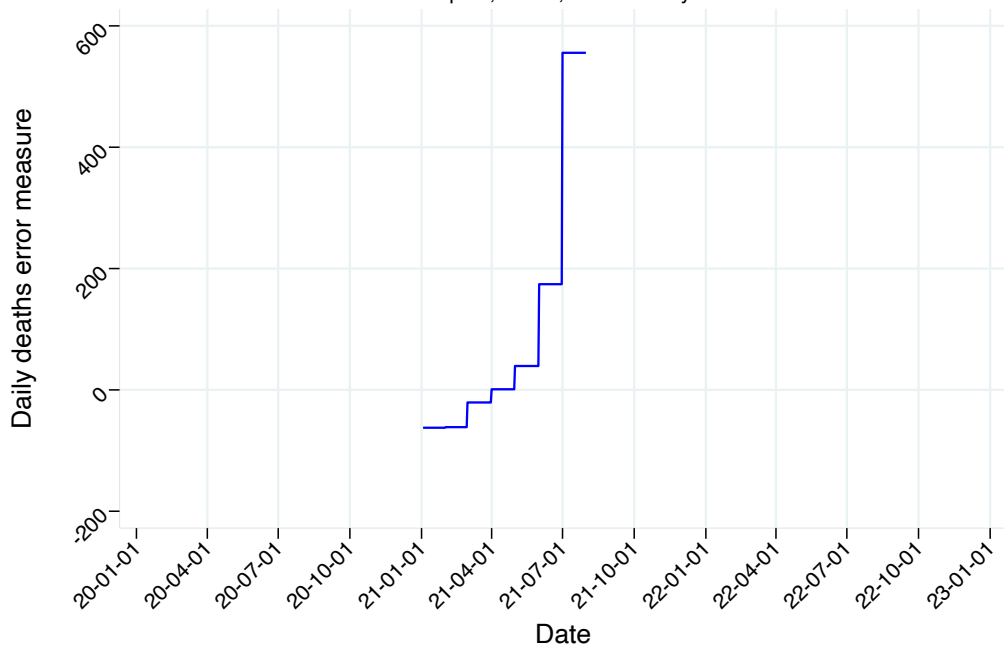
Spain, LANL, forecast only





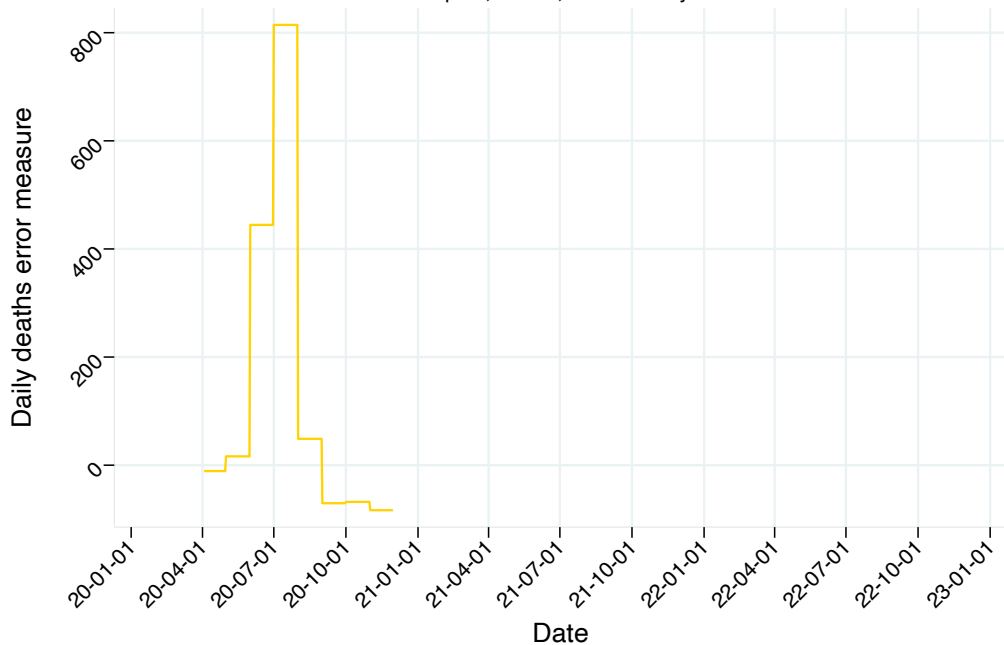
# C19 daily deaths, average median percent error

Spain, UCLA, forecast only



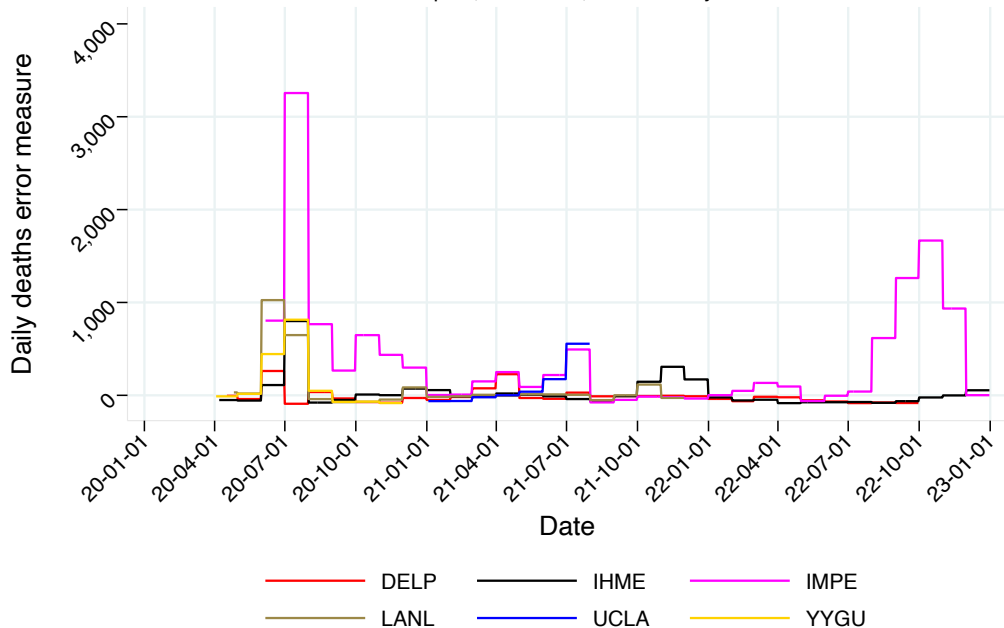
# C19 daily deaths, average median percent error

Spain, YYGU, forecast only



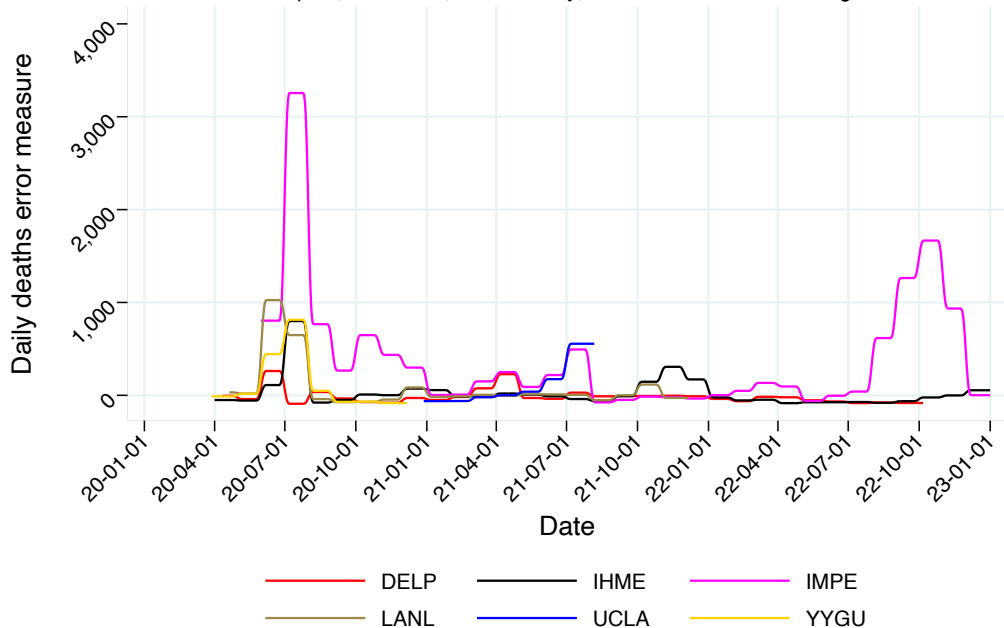
# C19 daily deaths, average median percent error

Spain, all Models, forecast only



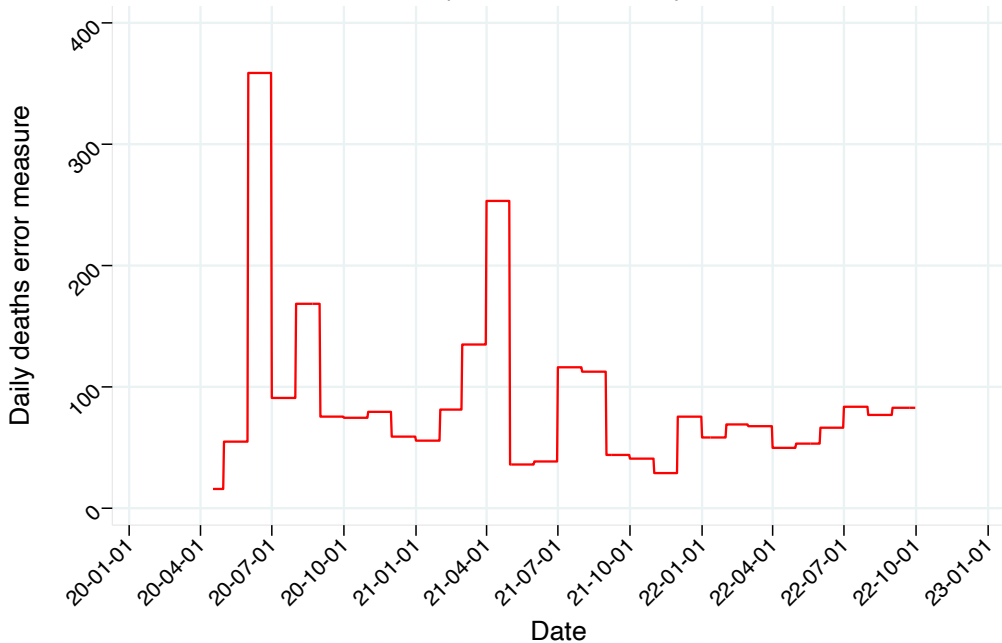
# C19 daily deaths, average median percent error

Spain, all Models, forecast only; smoothed for better viewing



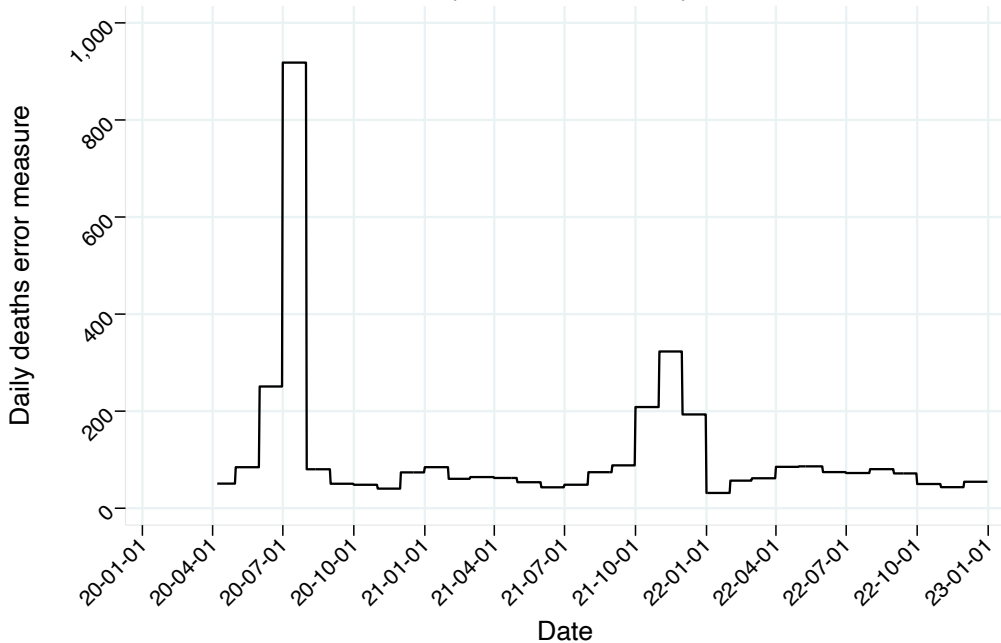
# C19 daily deaths, average median absolute percent error

Spain, DELP, forecast only



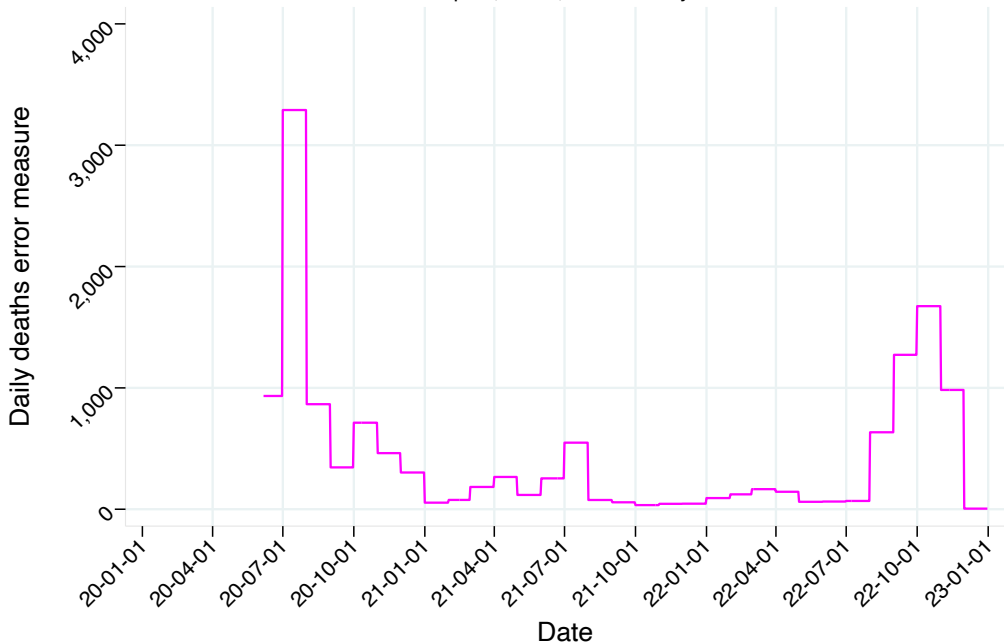
# C19 daily deaths, average median absolute percent error

Spain, IHME, forecast only



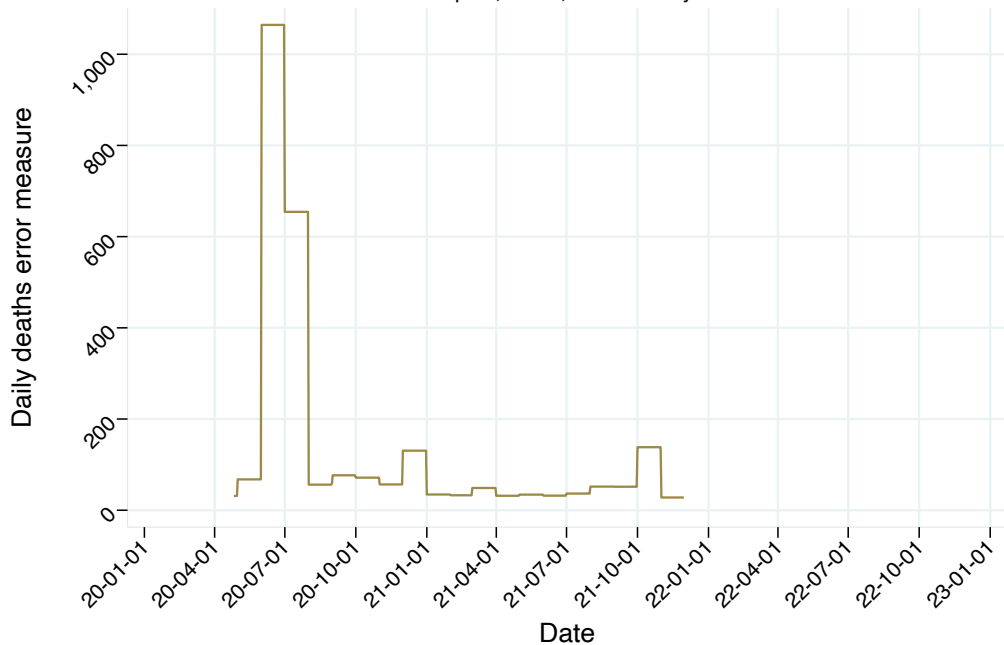
# C19 daily deaths, average median absolute percent error

Spain, IMPE, forecast only



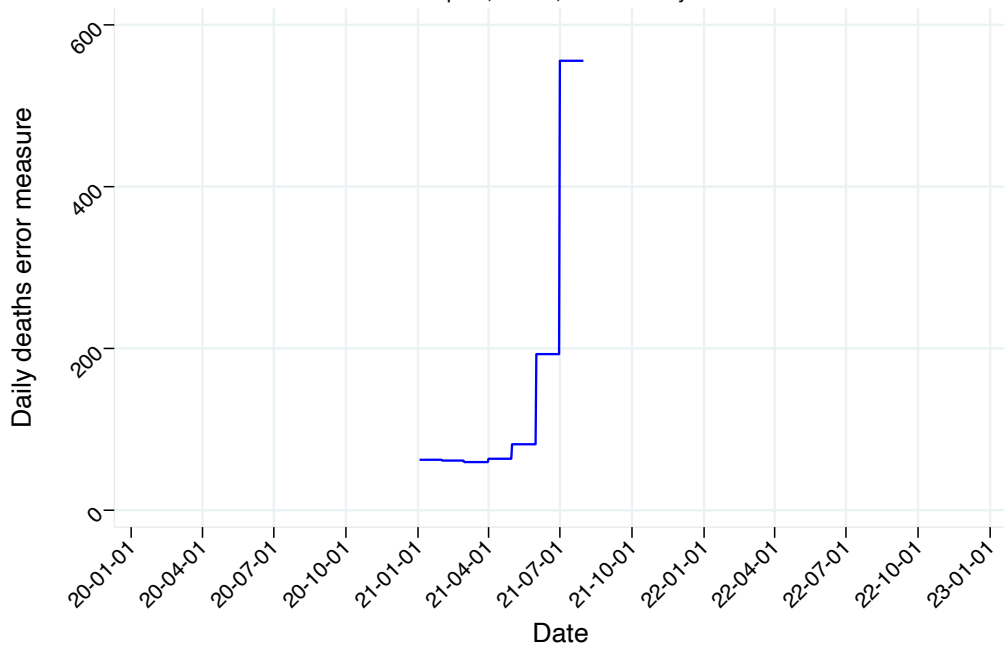
# C19 daily deaths, average median absolute percent error

Spain, LANL, forecast only



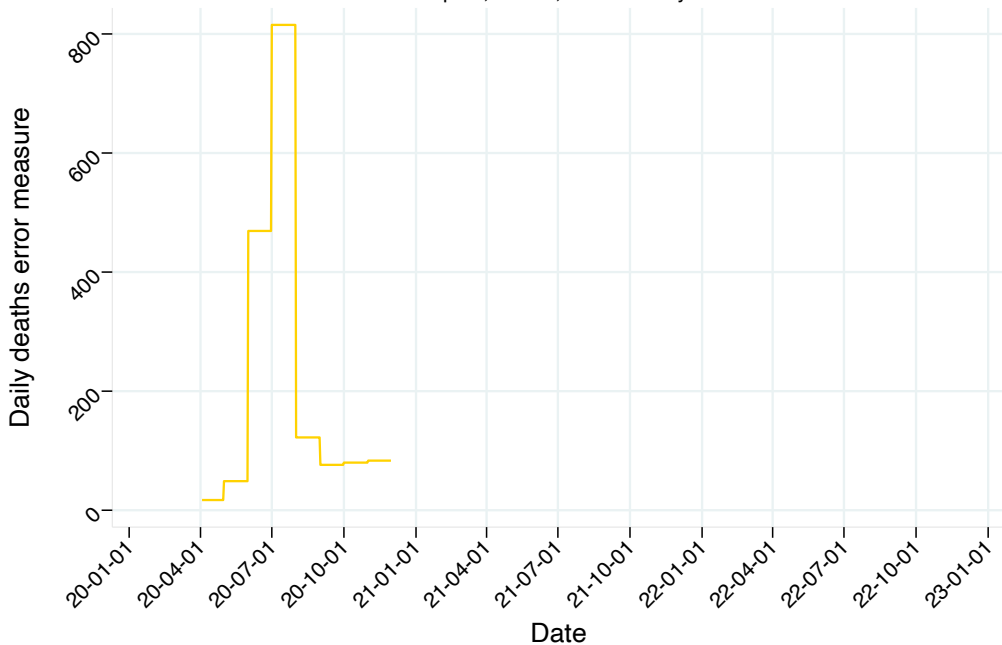


C19 daily deaths, average median absolute percent error  
Spain, UCLA, forecast only



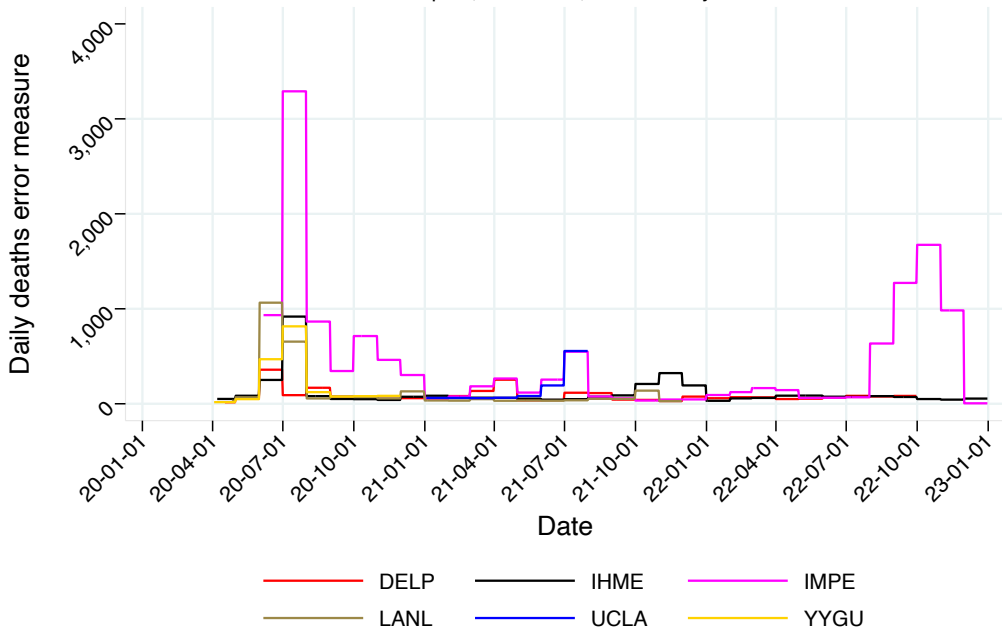
# C19 daily deaths, average median absolute percent error

Spain, YYGU, forecast only



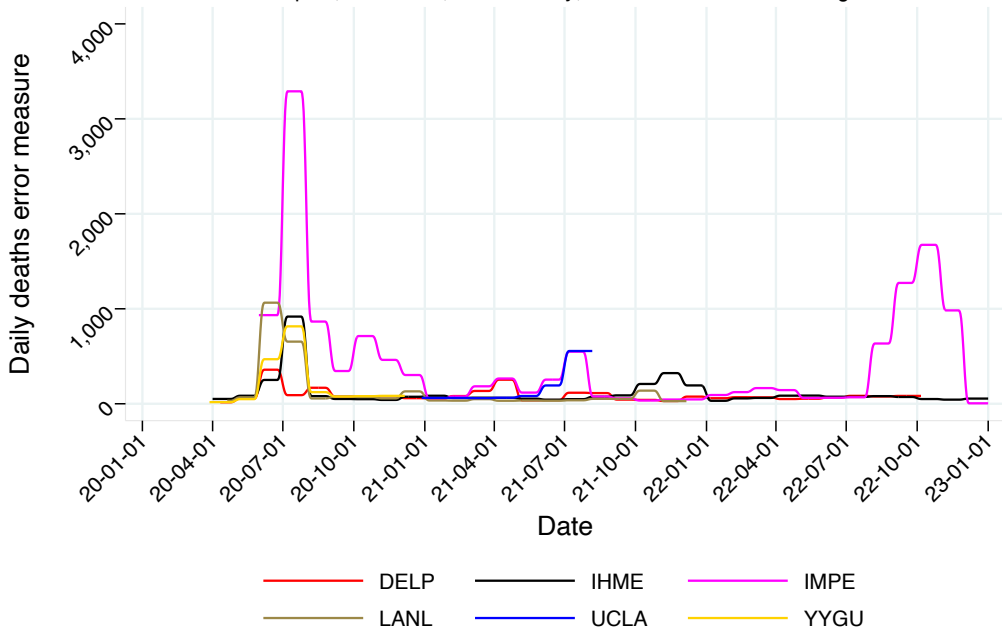
# C19 daily deaths, average median absolute percent error

Spain, all Models, forecast only



# C19 daily deaths, average median absolute percent error

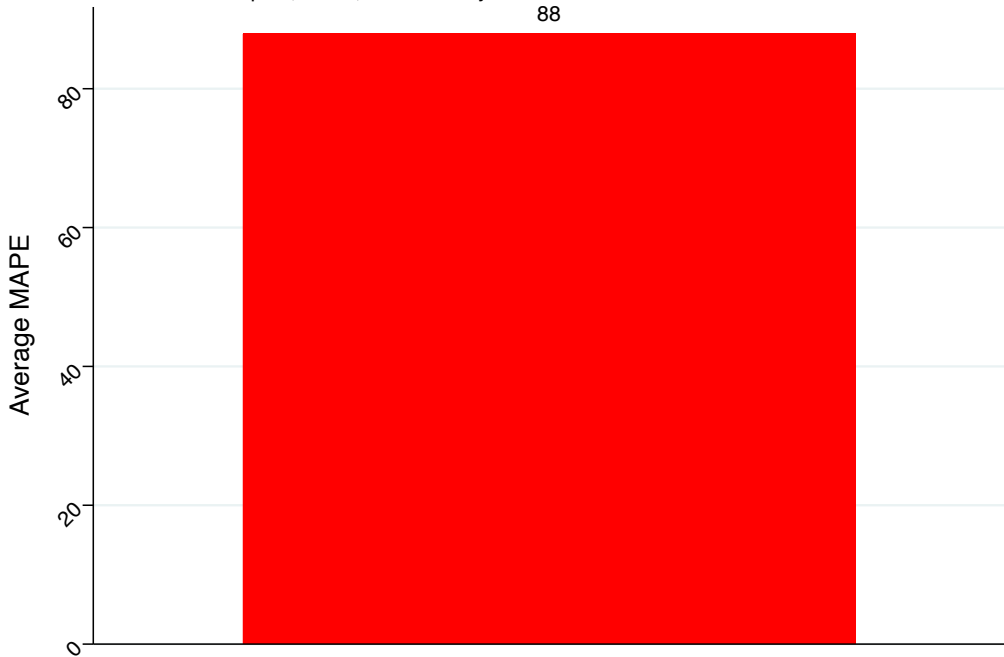
Spain, all Models, forecast only; smoothed for better viewing



# C19 daily deaths average MAPE over updates and calendar months

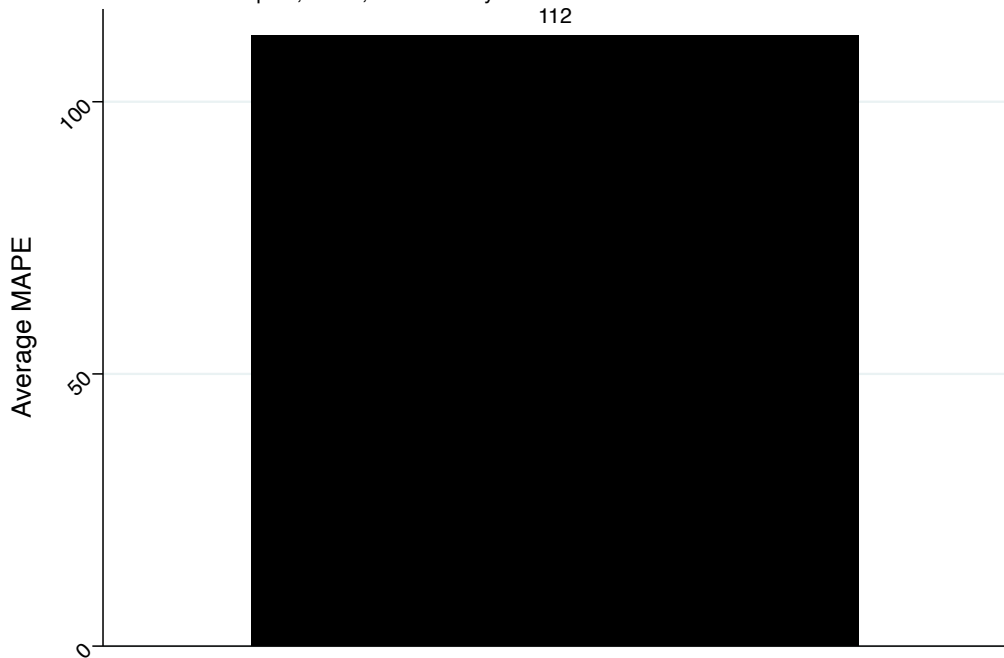
Spain, DELP, forecast only. MAPE: Median Absolute Percent Error

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# C19 daily deaths average MAPE over updates and calendar months

Spain, IHME, forecast only. MAPE: Median Absolute Percent Error



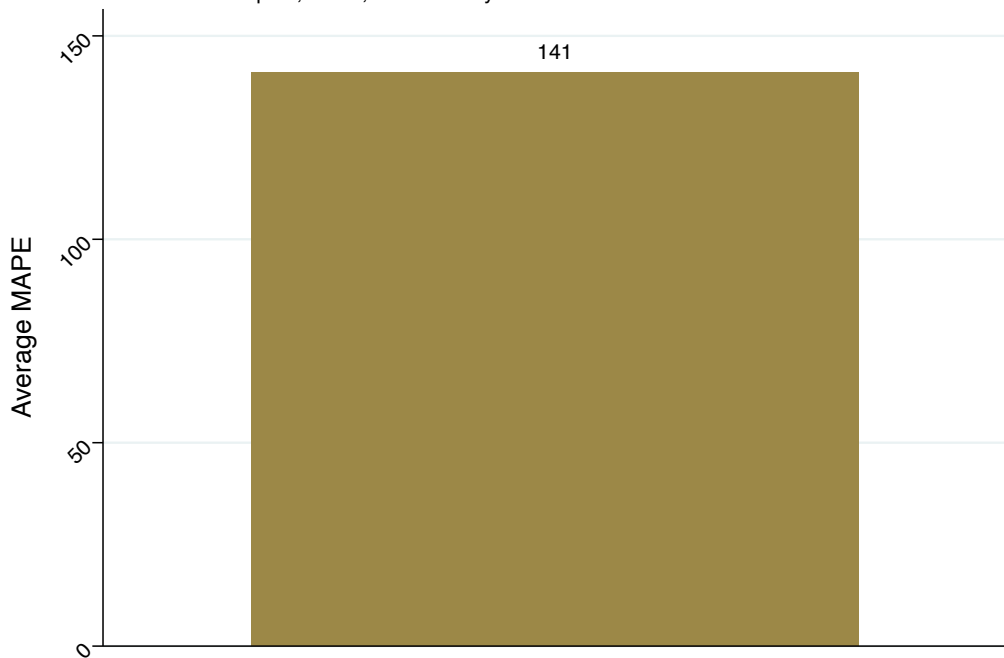
# C19 daily deaths average MAPE over updates and calendar months

Spain, IMPE, forecast only. MAPE: Median Absolute Percent Error



# C19 daily deaths average MAPE over updates and calendar months

Spain, LANL, forecast only. MAPE: Median Absolute Percent Error

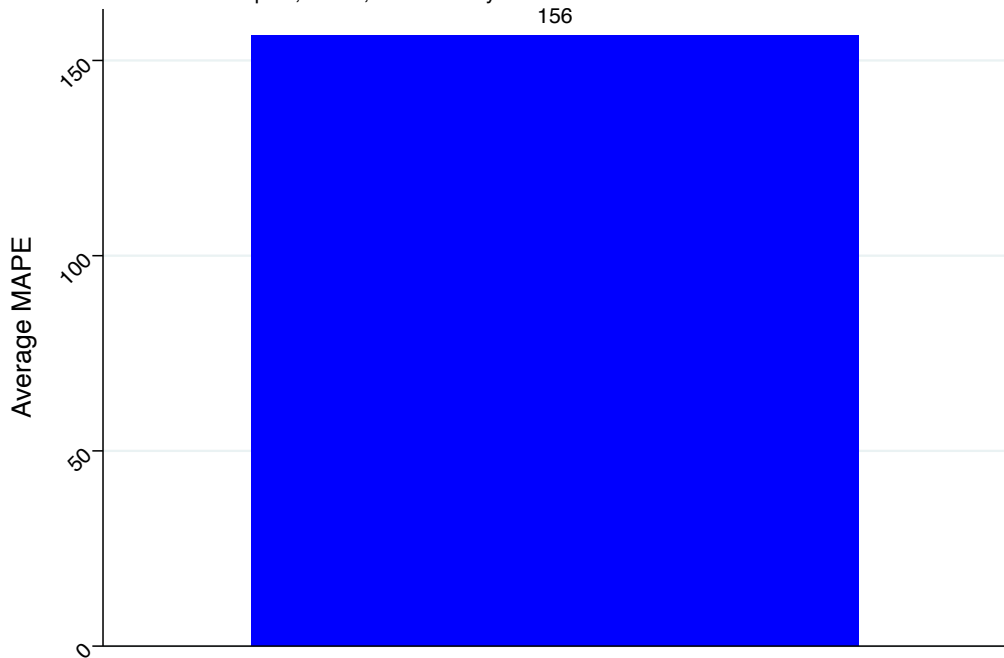




# C19 daily deaths average MAPE over updates and calendar months

Spain, UCLA, forecast only. MAPE: Median Absolute Percent Error

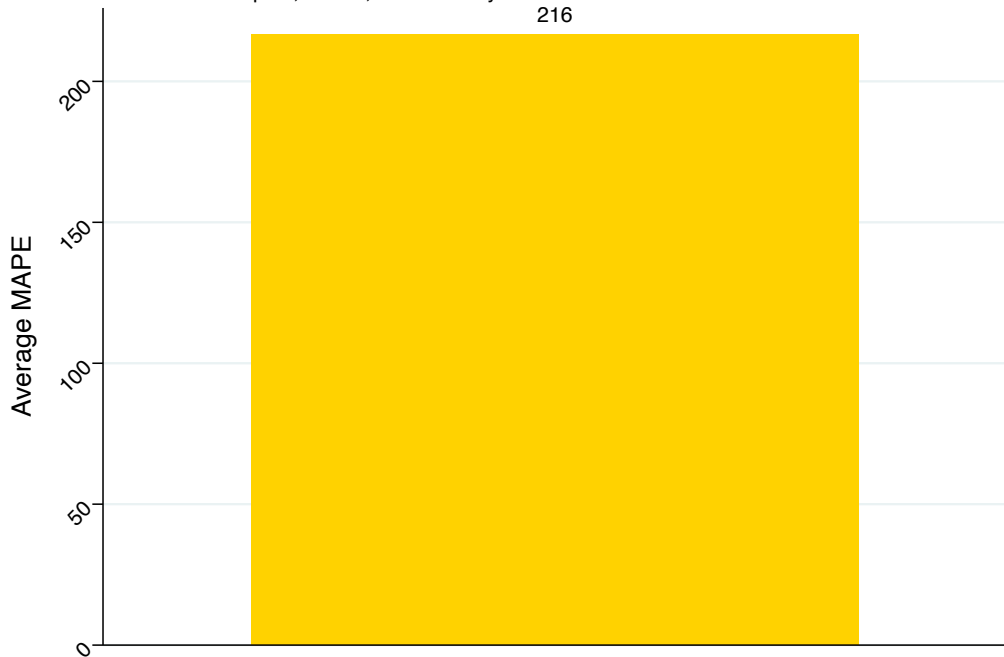
156



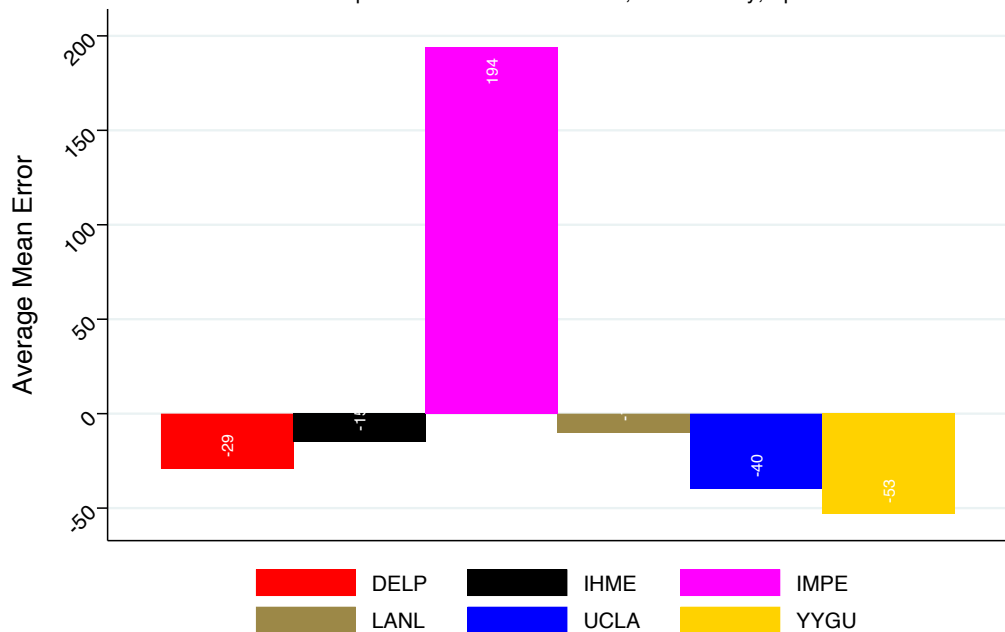
# C19 daily deaths average MAPE over updates and calendar months

Spain, YYGU, forecast only. MAPE: Median Absolute Percent Error

216

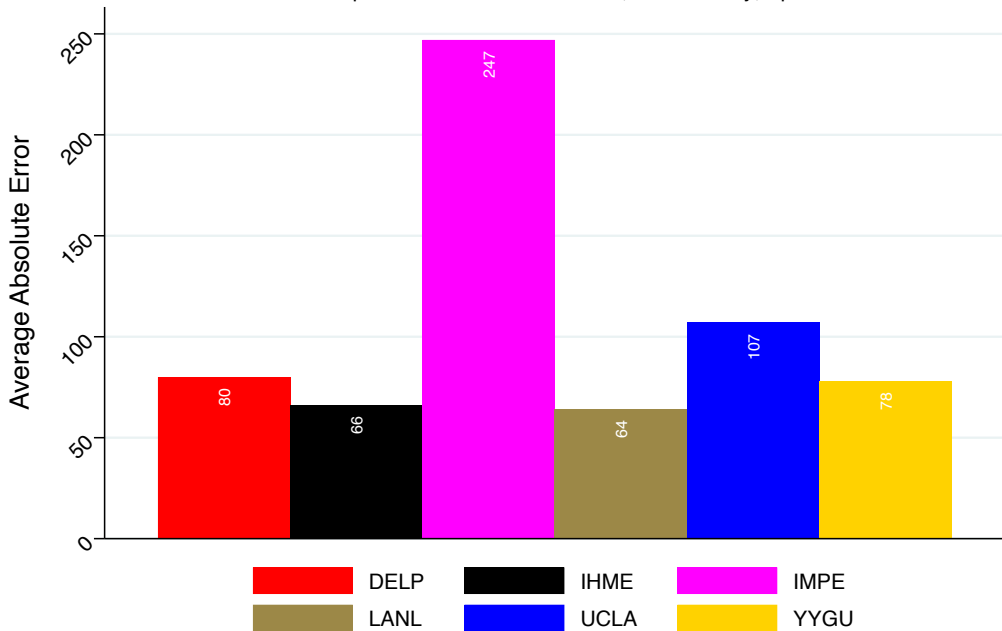


C19 daily deaths average of Mean Error  
Over updates and calendar months; forecast only; Spain



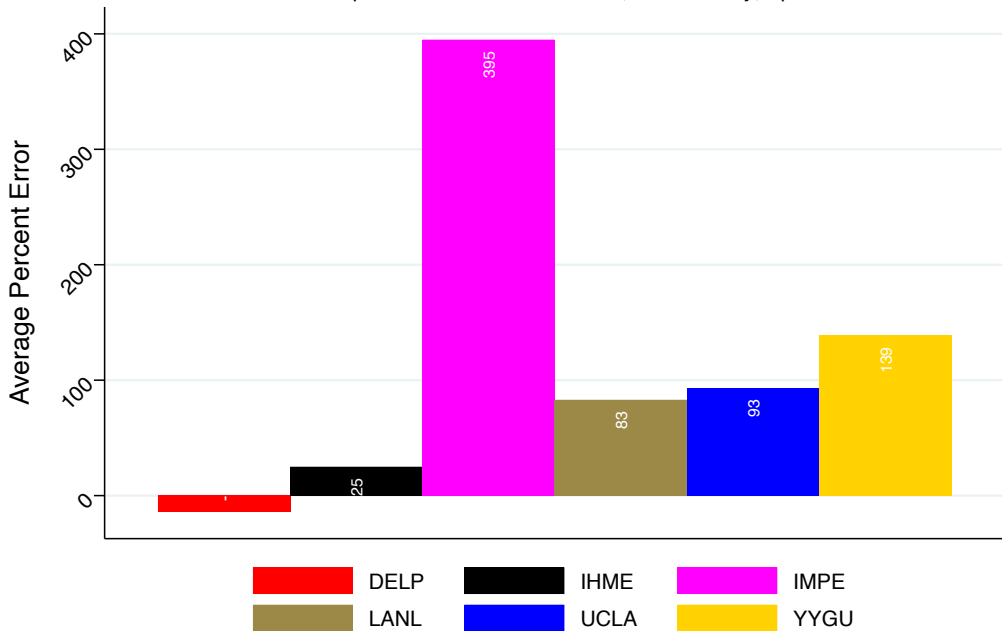
# C19 daily deaths average of Absolute Error

Over updates and calendar months; forecast only; Spain



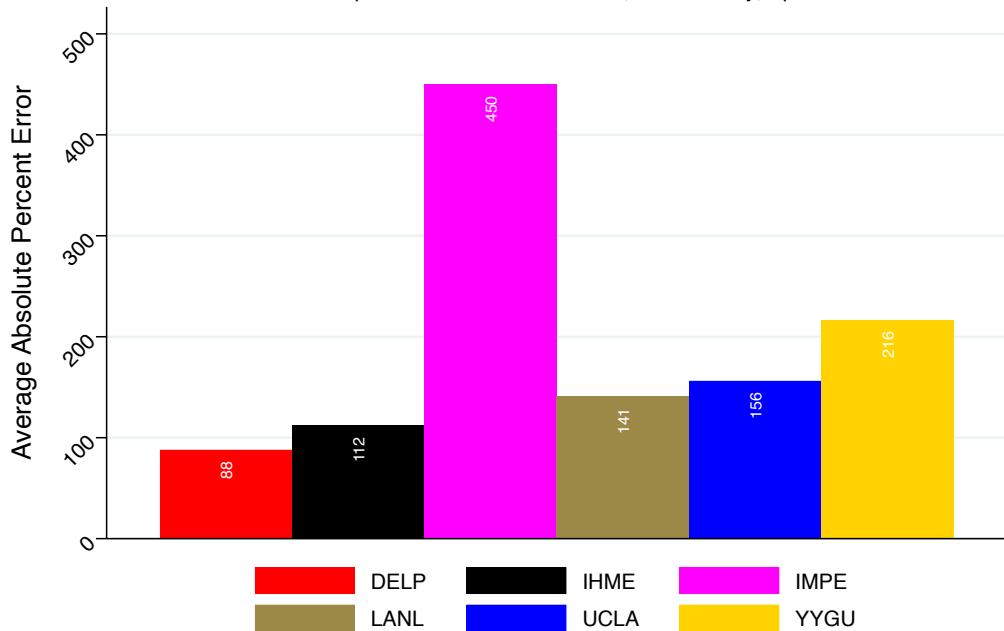
# C19 daily deaths average of Percent Error

Over updates and calendar months; forecast only; Spain



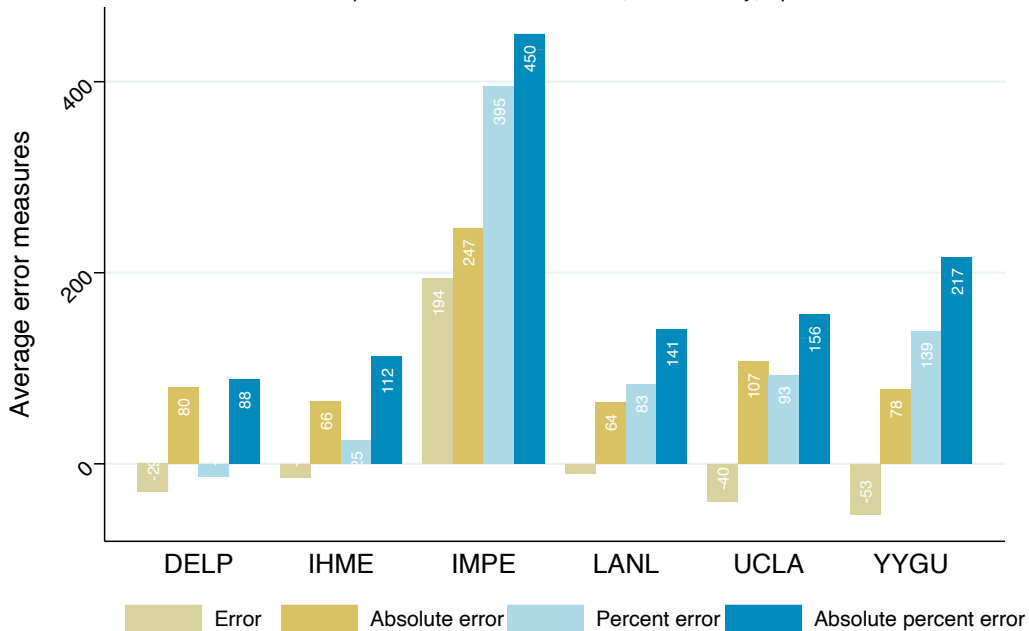
# C19 daily deaths average of Absolute Percent Error

Over updates and calendar months; forecast only; Spain



# C19 daily deaths, models across average error measures

Over updates and calendar months; forecast only; Spain



# C19 daily deaths, average of error measures across models

Over updates and calendar months; forecast only; Spain

