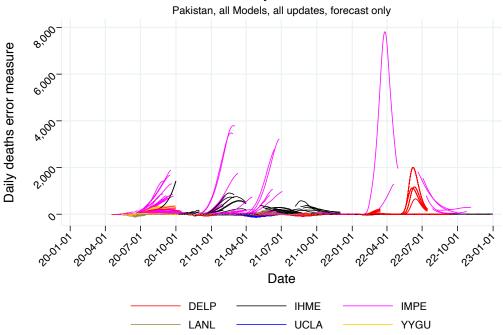


#### C19 daily deaths error



C19 daily deaths error Pakistan, DELP, all updates, forecast only 2000-Daily deaths error measure 1/200-100-600-0potal pokal potal praal rakal rakal ratal ritool pakal rakal ritool pakal Date

### C19 daily deaths error Pakistan, IHME, all updates, forecast only 1/200-Daily deaths error measure 100фD. 0potal pokal potal praal rakal rakal ratal ritool pakal rakal ritool pakal

Date

C19 daily deaths error Pakistan, IMPE, all updates, forecast only 8000-Daily deaths error measure 600-\*000\_ 0poi al pokal polal priori grakal grakal grakal grakal grakal grakal grakal grakal Date

# Pakistan, LANL, all updates, forecast only 300-Daily deaths error measure 200-00. 0para paka pala praa rain raka rain riaa para para paka pala praa

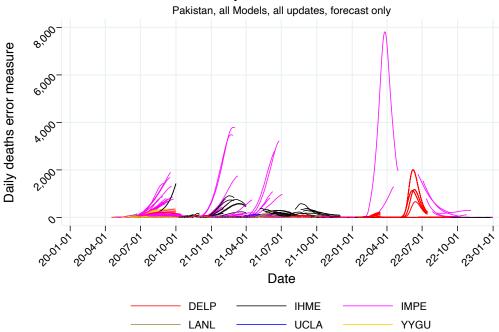
Date

C19 daily deaths error

## C19 daily deaths error Pakistan, UCLA, all updates, forecast only 0-Daily deaths error measure δo. ,00° 2001 of 2004 of 2010 and 2010 Date

### C19 daily deaths error Pakistan, YYGU, all updates, forecast only MO--og Daily deaths error measure 200-00, 0patal pakal patal praal patal pakal patal privat patal pakal patal praal Date

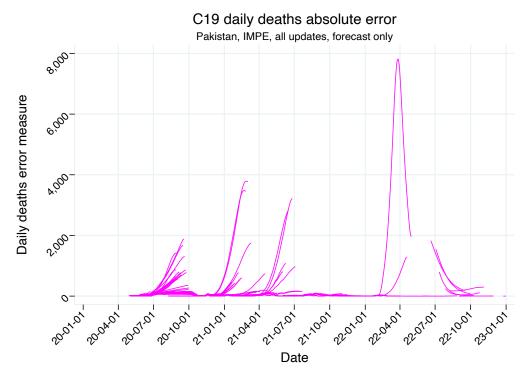
### C19 daily deaths absolute error



## C19 daily deaths absolute error Pakistan, DELP, all updates, forecast only Daily deaths error measure 1/200-100-400point pour point prot tare tare train train stare son son son son son Date

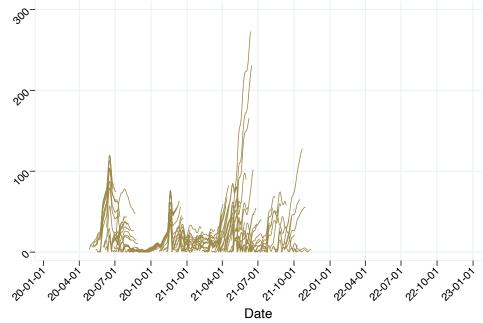
C19 daily deaths absolute error

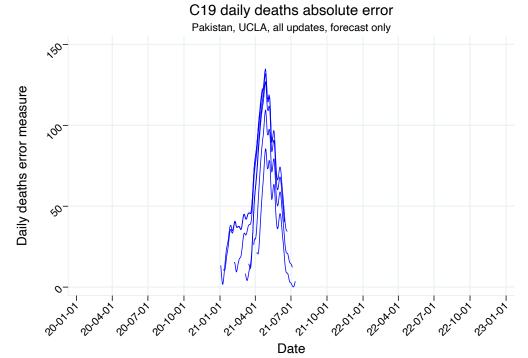
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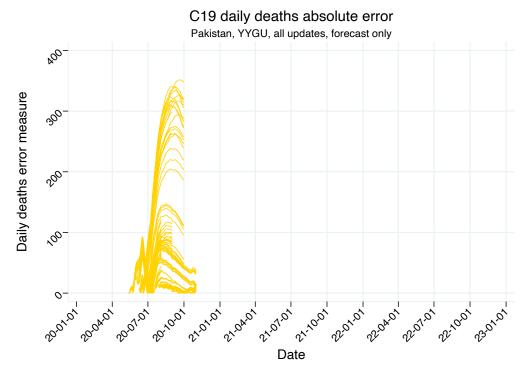


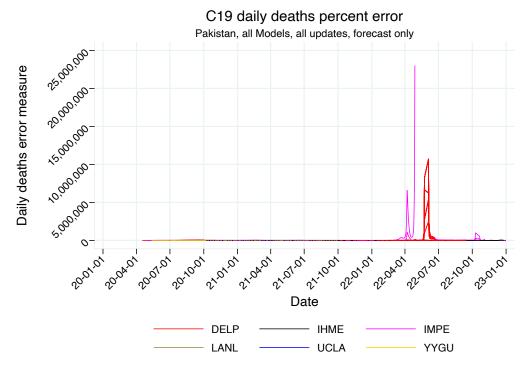
#### C19 daily deaths absolute error

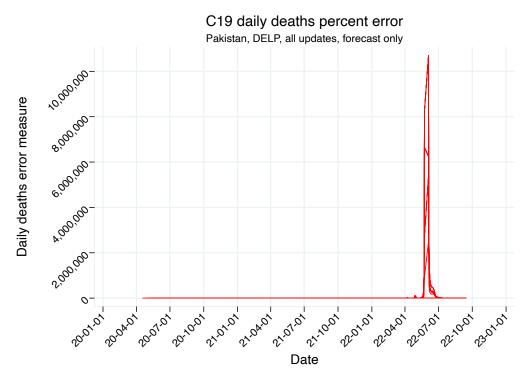
Pakistan, LANL, all updates, forecast only





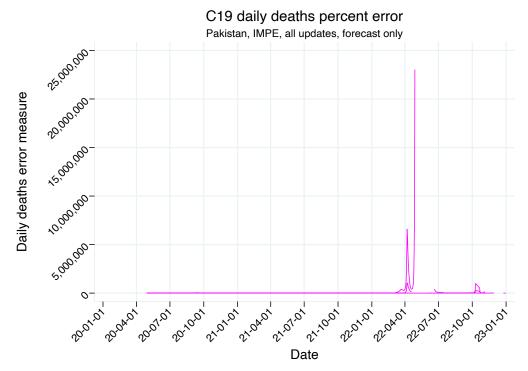




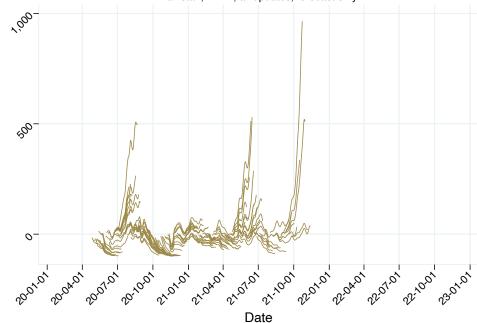


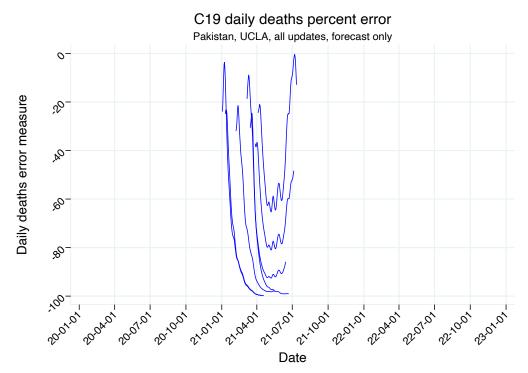
C19 daily deaths percent error Pakistan, IHME, all updates, forecast only \*0000\_ Daily deaths error measure 30,00-10000-

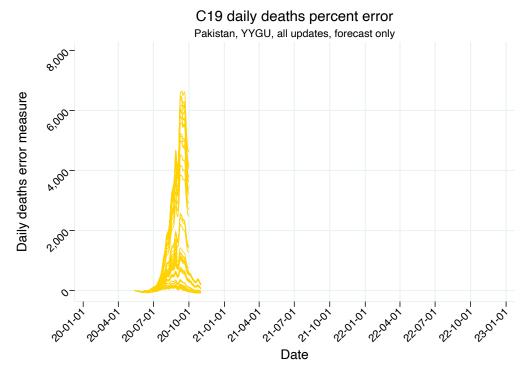
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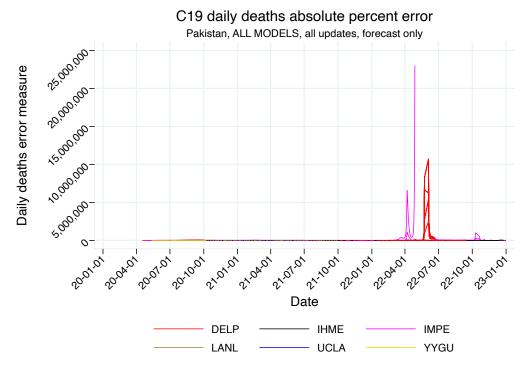


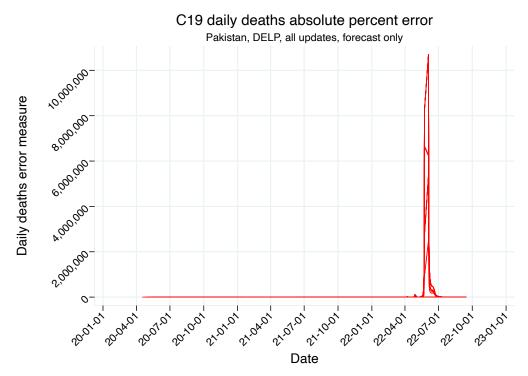
Daily deaths error measure



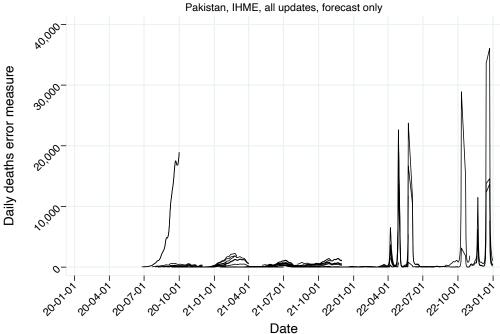






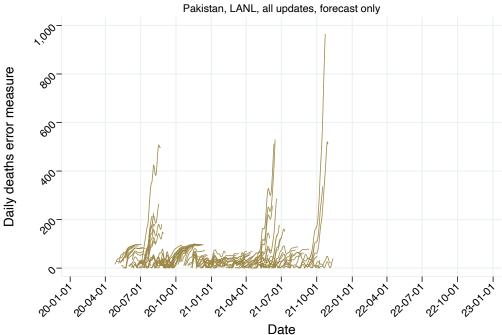


### C19 daily deaths absolute percent error

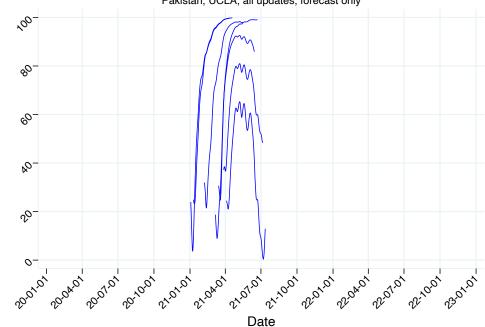


C19 daily deaths absolute percent error Pakistan, IMPE, all updates, forecast only Daily deaths error measure 0-Date

#### C19 daily deaths absolute percent error

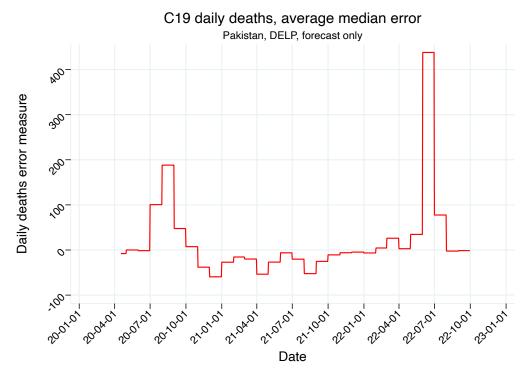


### C19 daily deaths absolute percent error Pakistan, UCLA, all updates, forecast only

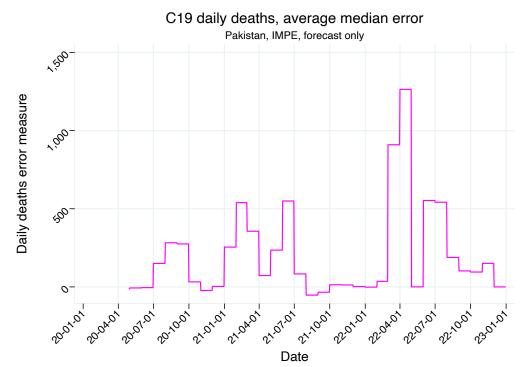


Daily deaths error measure

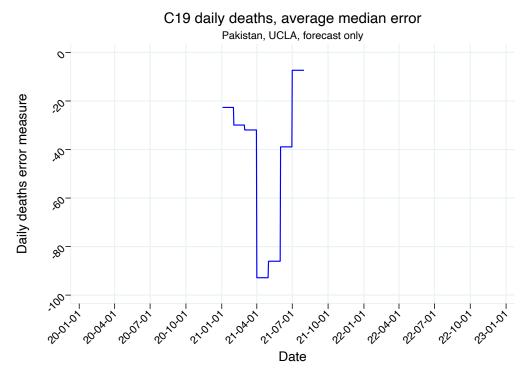
C19 daily deaths absolute percent error Pakistan, YYGU, all updates, forecast only Daily deaths error measure 000-Date



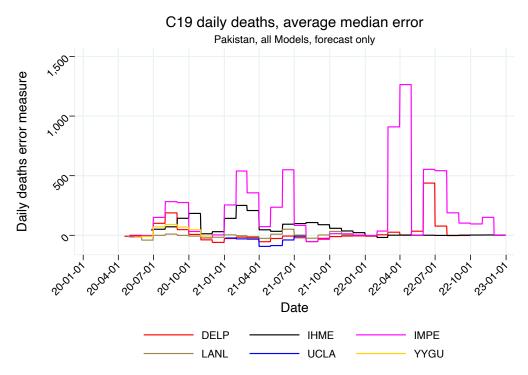
C19 daily deaths, average median error Pakistan, IHME, forecast only 250-200-Daily deaths error measure 160-,00-80-0potot potot potot proof potot potot potot potot potot potot potot potot Date



C19 daily deaths, average median error Pakistan, LANL, forecast only *©*-Daily deaths error measure -Q<sub>4</sub> 20 0-30. pain paka pala prica pain paka pala prica paka pala paka pala prica pala



# C19 daily deaths, average median error Pakistan, YYGU, forecast only ,00<sup>-</sup> Daily deaths error measure SO-0pota poka pota proa rata raka rata praka pota paka pata praka

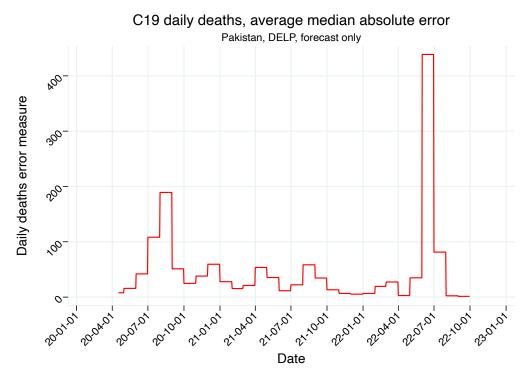


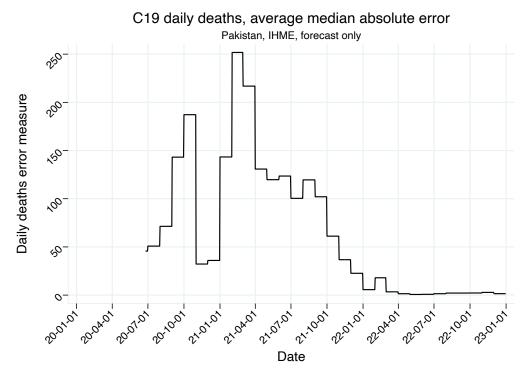
C19 daily deaths, average median error Pakistan, all Models, forecast only; smoothed for better viewing 1,500-Daily deaths error measure 100ф0°-0-Date **DELP** IHME **IMPE** 

**UCLA** 

YYGU

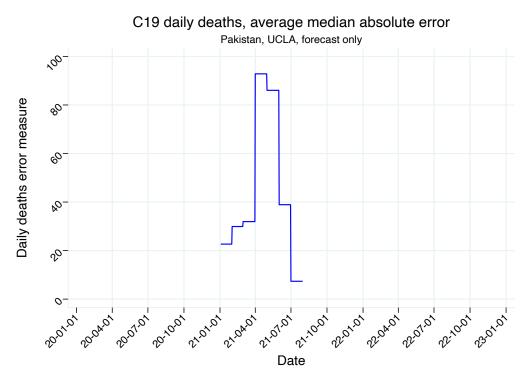
LANL





C19 daily deaths, average median absolute error Pakistan, IMPE, forecast only 1,500-Daily deaths error measure 100-SO potal pokal potal praal rakal rakal ratal ritool pakal rakal ritool pakal

C19 daily deaths, average median absolute error Pakistan, LANL, forecast only *©*-Daily deaths error measure ·Q 2 para paka pala praa raia raka raia riaa para para paka para para



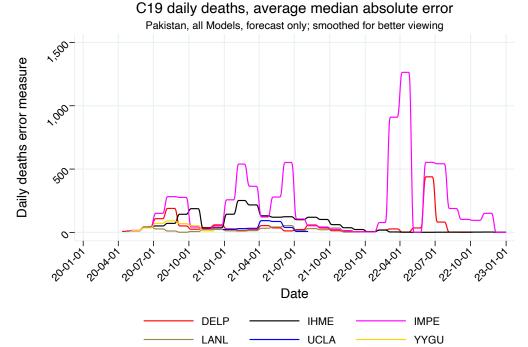
C19 daily deaths, average median absolute error Pakistan, YYGU, forecast only ,00<sup>-1</sup> Daily deaths error measure -Op 60--O<sub>4</sub> S. patal pakal palal praal ratal ratal riaal riaal ratal ratal ratal

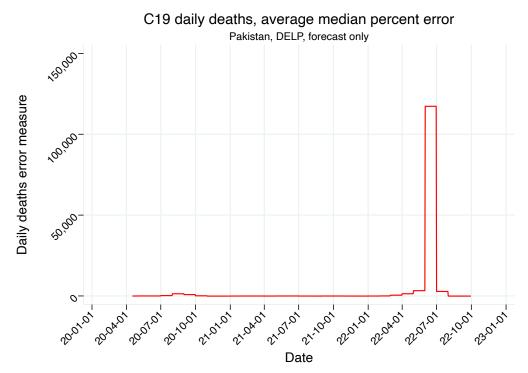
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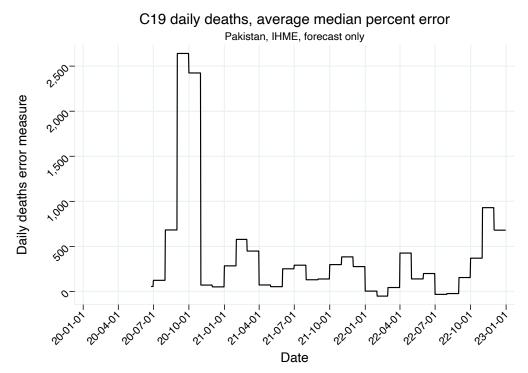
**UCLA** 

YYGU

LANL

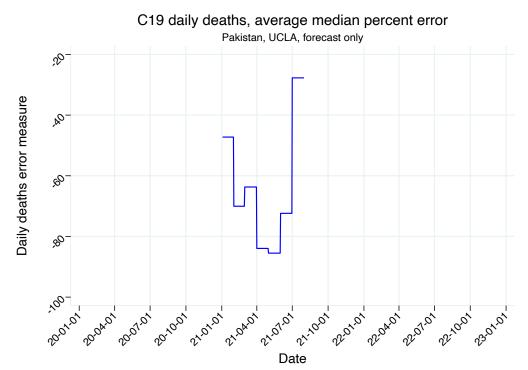


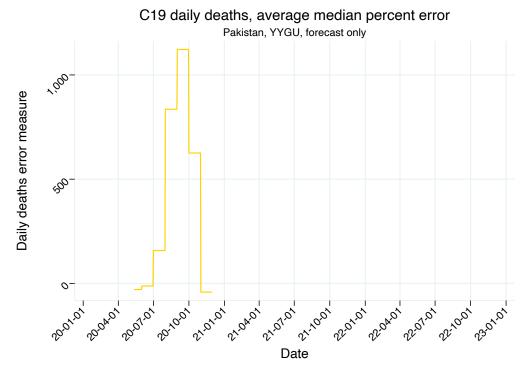




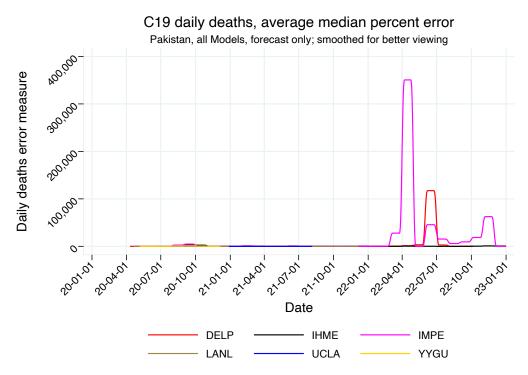
C19 daily deaths, average median percent error Pakistan, IMPE, forecast only <sup>KO</sup>0'000\_ Daily deaths error measure zoarai zoarai zoarai zoroai zarai zarai zarai zarai zarai zarai zoarai zarai

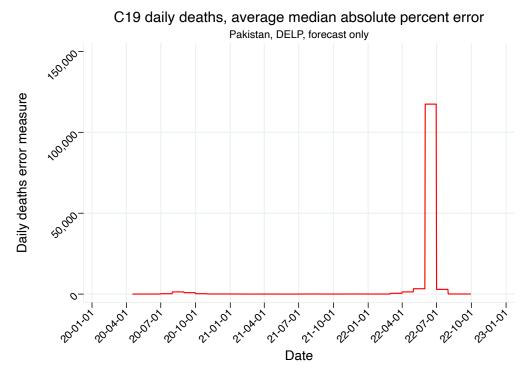
C19 daily deaths, average median percent error Pakistan, LANL, forecast only 160-Daily deaths error measure ,00<sup>-</sup> 30-0ķο. potot pokot potot proof potot potot potot potot potot potot potot





C19 daily deaths, average median percent error Pakistan, all Models, forecast only \*00'00\_ Daily deaths error measure 30,00-50000-0-Date **DELP** IHME **IMPE** LANL **UCLA** YYGU

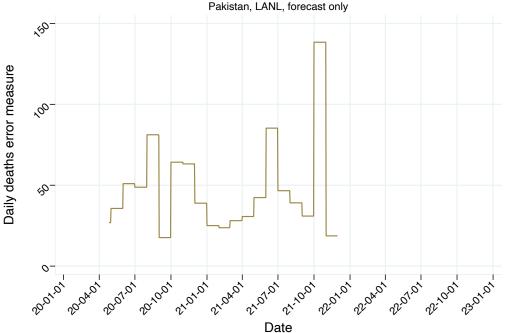




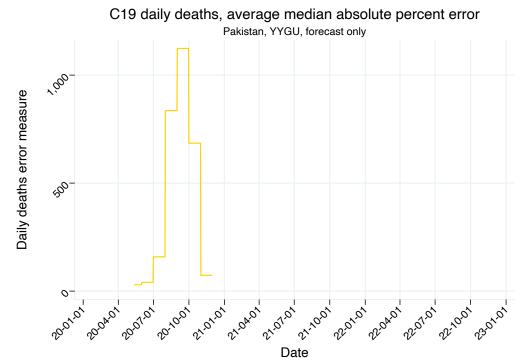
C19 daily deaths, average median absolute percent error Pakistan, IHME, forecast only 2,500-Daily deaths error measure 2000-1,400\_ 100go-0point pour point product and take tale trace set and sever set at sever set Date

C19 daily deaths, average median absolute percent error Pakistan, IMPE, forecast only <sup>100</sup>000\_ Daily deaths error measure potat pokat potat proof ratat rakat ratat read potat pokat potat prior potat

C19 daily deaths, average median absolute percent error

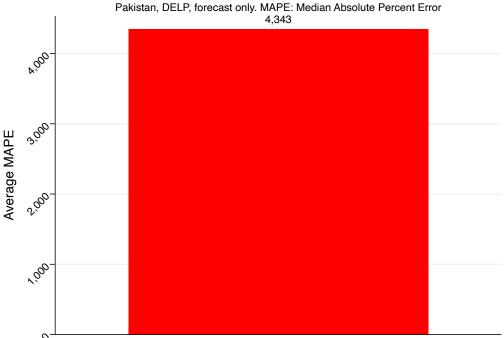


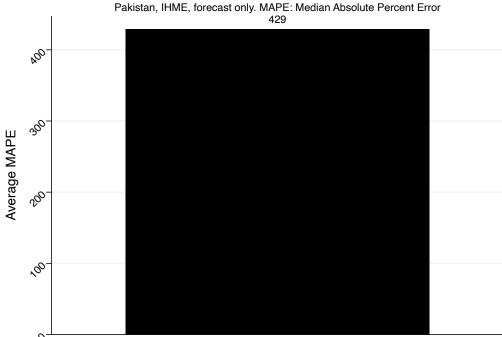
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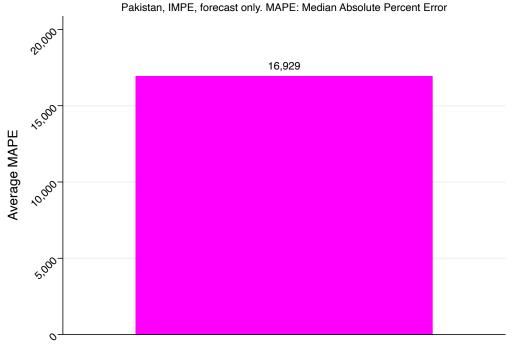


C19 daily deaths, average median absolute percent error Pakistan, all Models, forecast only \*00'00\_ Daily deaths error measure 30,00-50000-0-Date **DELP** IHME **IMPE** LANL **UCLA** YYGU

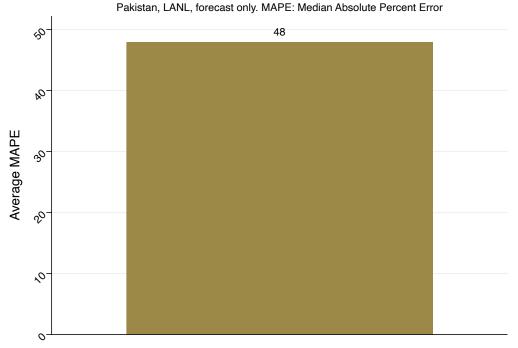
C19 daily deaths, average median absolute percent error Pakistan, all Models, forecast only; smoothed for better viewing \*00'00\_ Daily deaths error measure 30,00-0-Date **DELP** IHME **IMPE** LANL **UCLA** YYGU



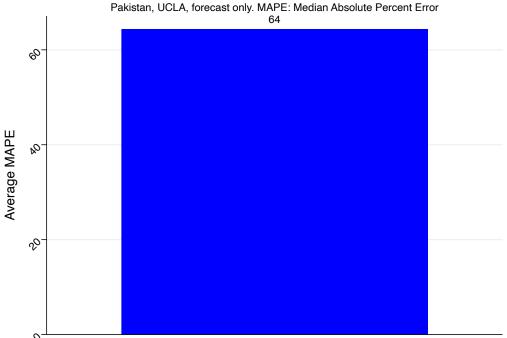


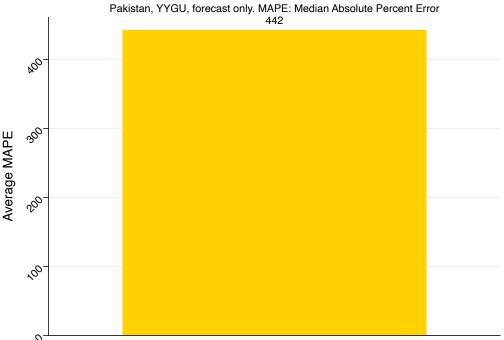


C19 daily deaths average MAPE over updates and calendar months



C19 daily deaths average MAPE over updates and calendar months



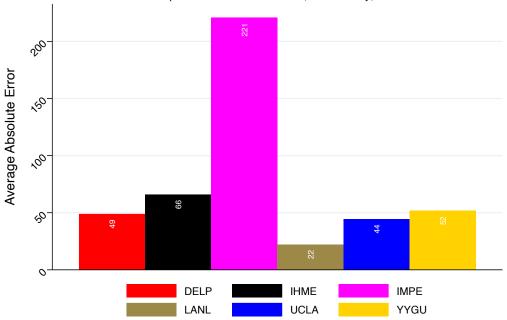


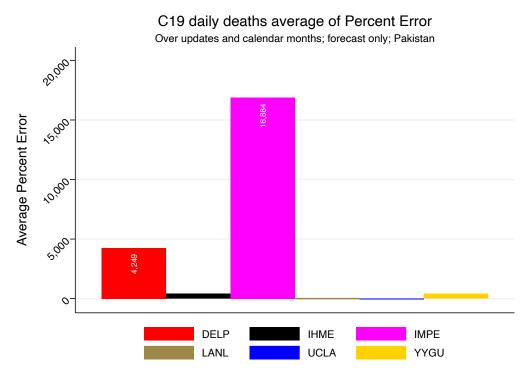
#### C19 daily deaths average of Mean Error

Over updates and calendar months; forecast only; Pakistan 200-160 Average Mean Error ,00<sup>-</sup> SO. 0-ŠΟ. DELP **IHME IMPE** LANL **UCLA YYGU** 

#### C19 daily deaths average of Absolute Error

Over updates and calendar months; forecast only; Pakistan





#### C19 daily deaths average of Absolute Percent Error

