

World covid19 data & oil price

I was shocked at end of November when WTI oil price dropped drastically (EIA 78.32 \$/b on 24 November to 65.44 \$/b on 01 December = 16%) because of the Omicron variant (which started in South Africa) cases jumped sharply when the WHO (World Health Organization) has not yet reported any death from Omicron

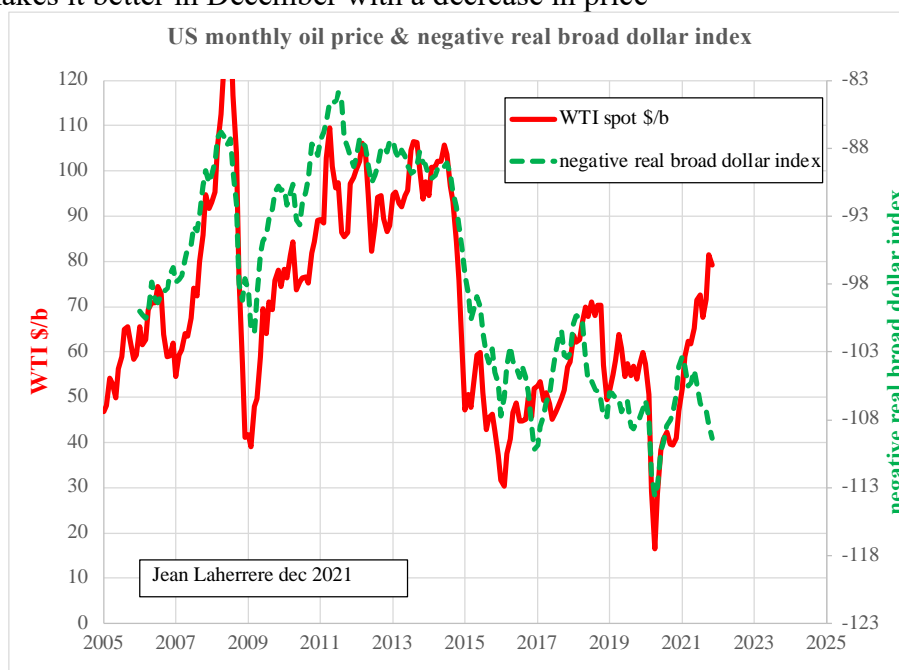
NEW YORK, Nov 30 (Reuters) - Oil prices tumbled on Tuesday after Moderna's chief cast doubt on the efficacy of COVID-19 vaccines against the Omicron coronavirus variant, spooking financial markets and heightening worries about oil demand.



I am always very suspicious when data is reported with 4 significant digits (as WTI) when during the day the second digit changes: it is a bad practice, but going on for more than two centuries!

My graphs JHL displays WTI oil price (West Texas Intermediate in Oklahoma) correlating with the negative dollar value since 2005, without saying which is the cause: WTI oil price increases when the dollar value decreases; WTI oil price decreases when the dollar value increases. When the dollar value decreases, it means that the countries in euros can buy more oil and the oil price increases.

This correlation does not work anymore in 2021. I do not have yet December 2021 data, but Omicron makes it better in December with a decrease in price



The coming months could destroy or not this correlation WTI/dollar value: wait and see!

Covid19 data:

In the past I was plotting covid19 data only as deaths and as ICU (Intensive Care Unit = réanimation in French) because cases were too erratic, depending upon testing which is not systematic.

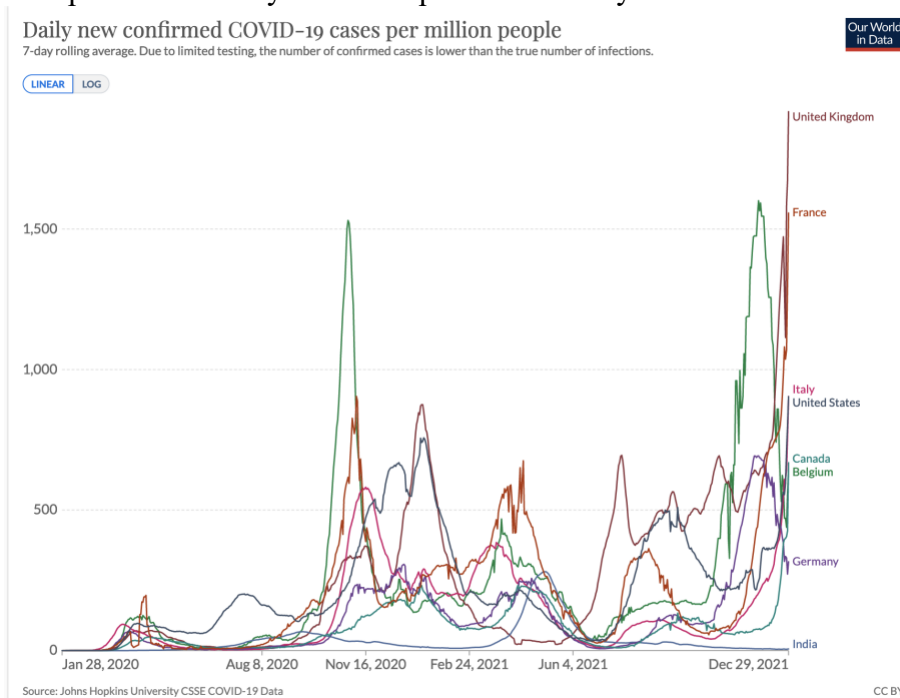
Furthermore, there are false positive tests (my grandson has one positive test at Roissy airport on a recent return from New York, cancelled by a negative test the day after)

After November WTI fall, I started to plot new cases to correlate with covid deaths

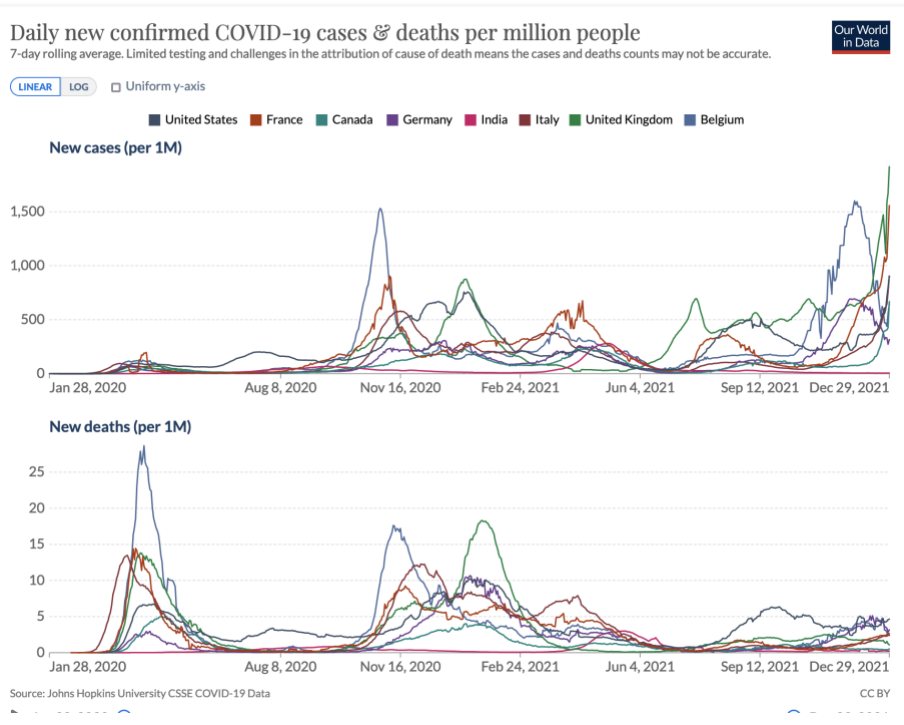
Data are from Our world in data (owid) 31 December, displaying smoothed 7 days daily cases, smoothed daily deaths and daily ICU when available

The goal is to estimate the delay between the cases peak and the deaths peak, as the last (omicron) cases peak to guess the last death peak

Owid new cases per million: only last cases peak = Germany but before Omicron



cases and deaths per million: many waves but of similar width!



World

The world smoothed daily new cases graph displays up to now 3 peaks: February 2021 745 k, March 2021 827 k, august 2021 662 k and presently end 2021 at 1047 k increasing

The world smoothed daily deaths displays 6 peaks the last one is on 8 December 2021 at 8000; when the smoothed value on 29 December is 6357

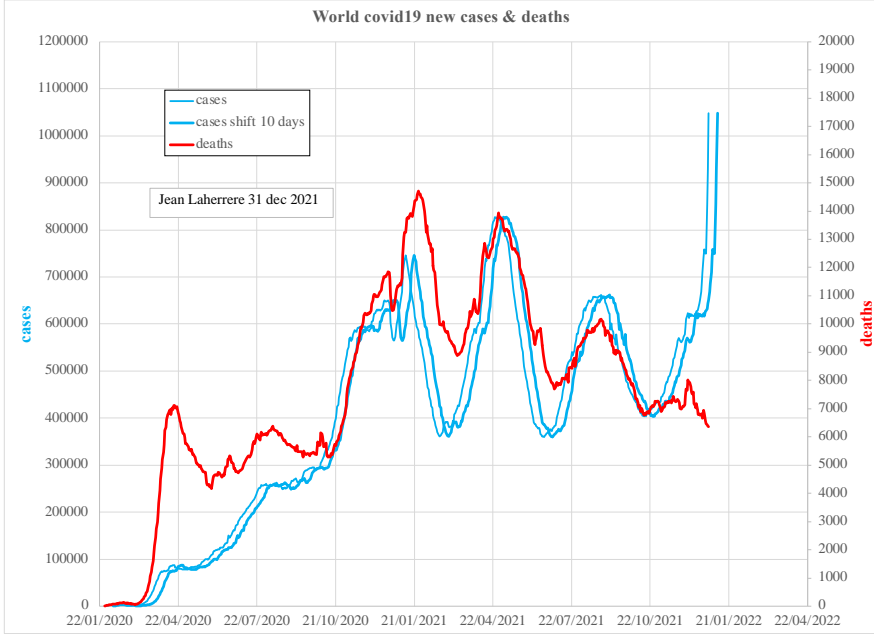
The highest death peak was on end of January 2021 at 14 700

For the last day of December 2021, new cases increase sharply when deaths decrease: is it to continue in January 2022, new cases jumped at year end because many people use tests in order to participate at festivities: it will change likely in January: wait and see!

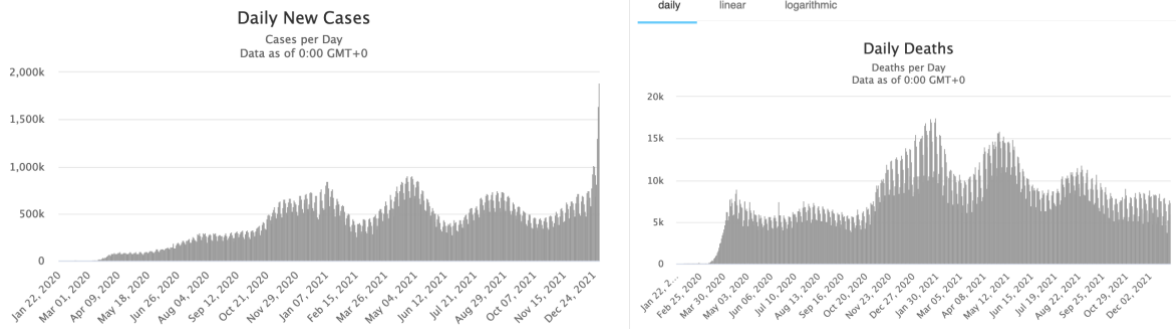
It is why it is important to measure the delay between cases peak and deaths peak!

World cases correlate with deaths after a shift of 10 days

For the peak of March 2021 and October 2021 60 cases for one death



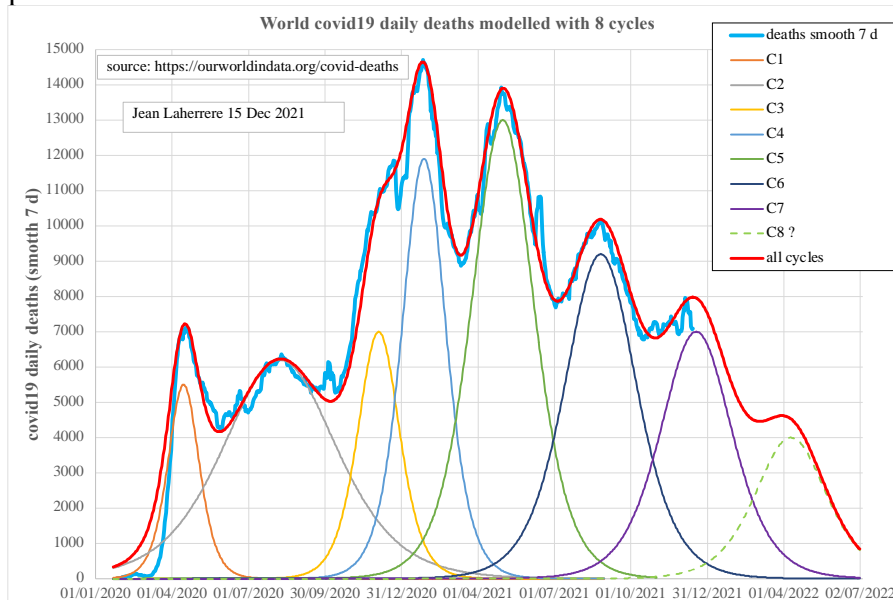
worldometer



Worldometer displays number per country and the world total is wrong as being only the sum of countries with data

worldometer 31 dec 2021												
#	Country, Other	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	New Recovered	Active Cases	Serious, Critical	Tot Cases/ 1M pop	Deaths/ 1M pop	
	World	288,680,388	210,011	5,455,377	2,376	253,874,458	184,652	29,350,553	88,703	37,035	699.9	

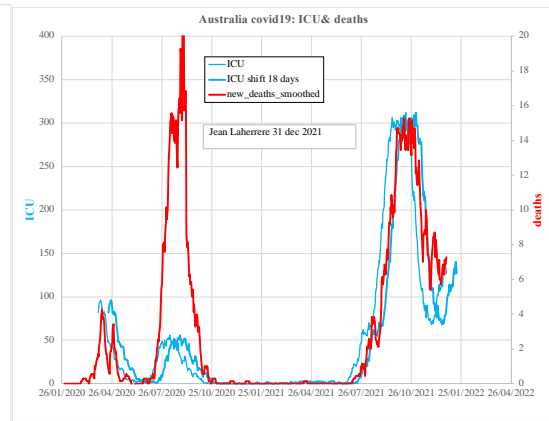
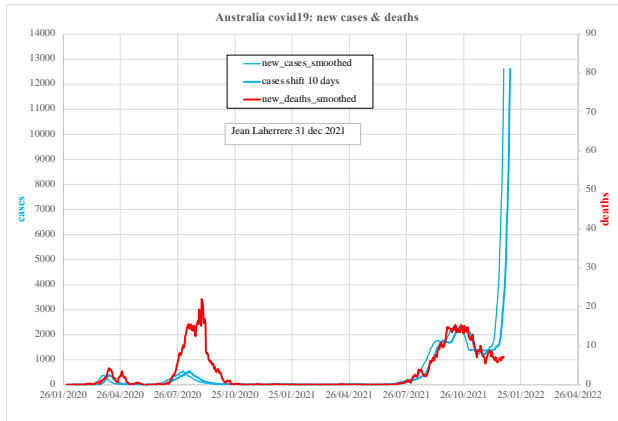
my JHL graph on world deaths



Australia

shift = 10 days, not yet last cases peak
For October 2021 155 cases for one death

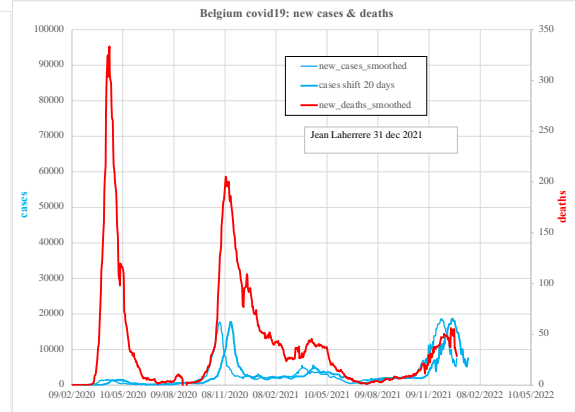
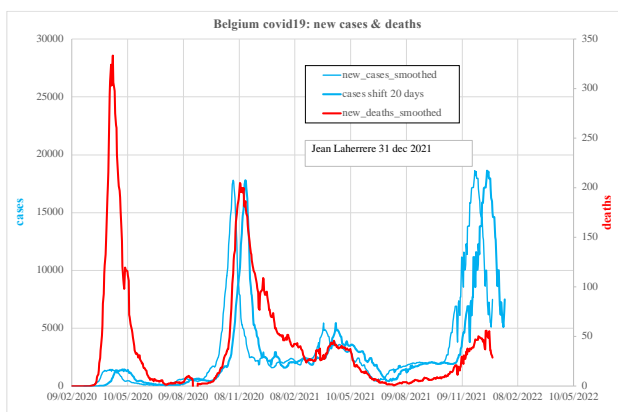
For October 2021 20 ICU for one death



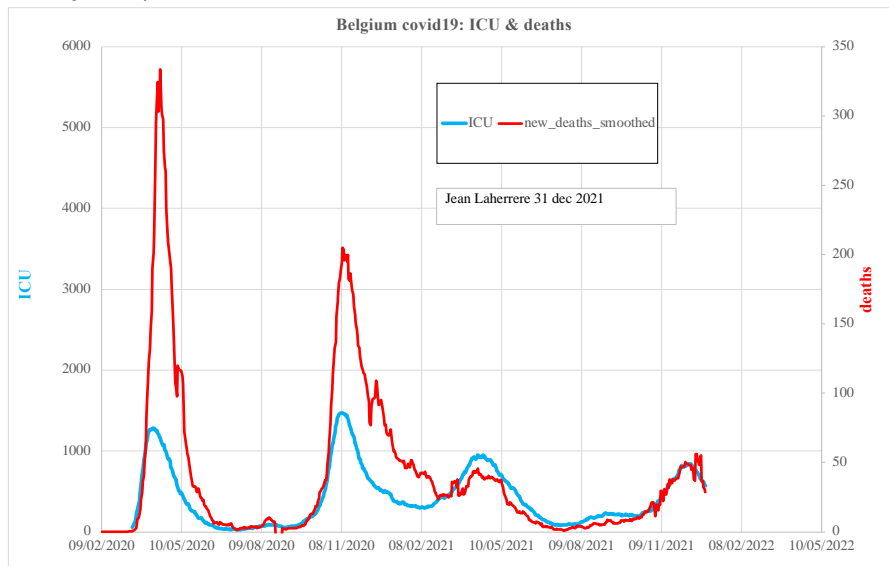
Belgium

shift = 20 days, last cases peak = 2 December 2021

For November 2020 86 cases for one death For November 2021 290 cases for one death



For November 2021 17 ICU for one death

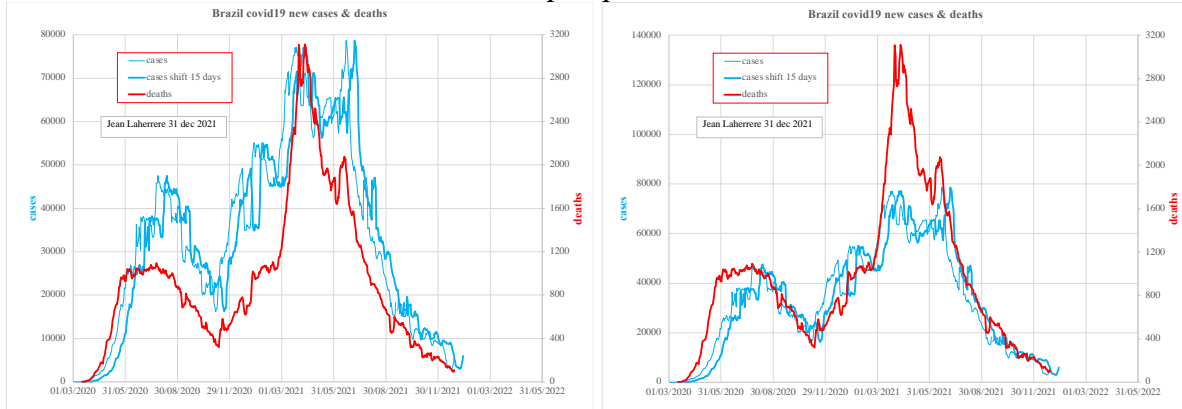


Brazil

shift = 15 days

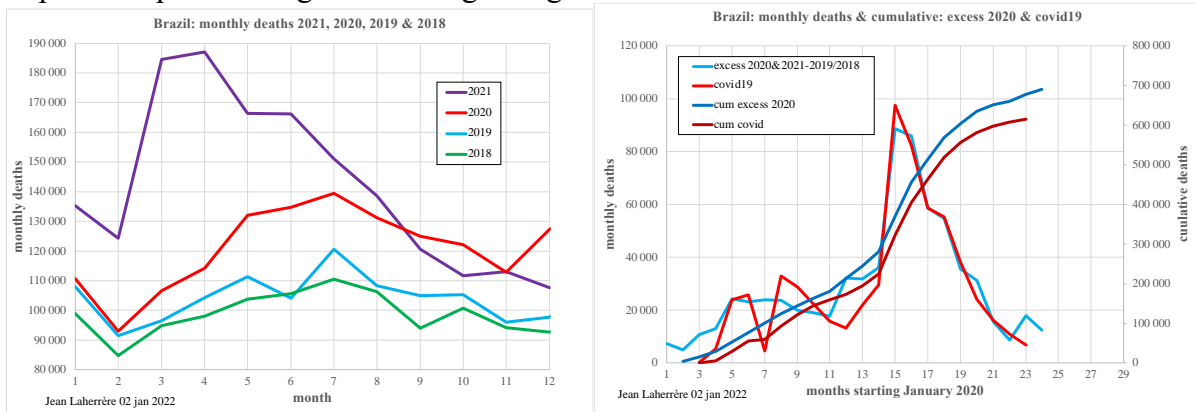
for March-April 2020 about 67 cases for one death

For 2020-2021 except April-June 2021 about 45 cases for one death



The correlation between cases and deaths is very good since July 2021 to end December 2021

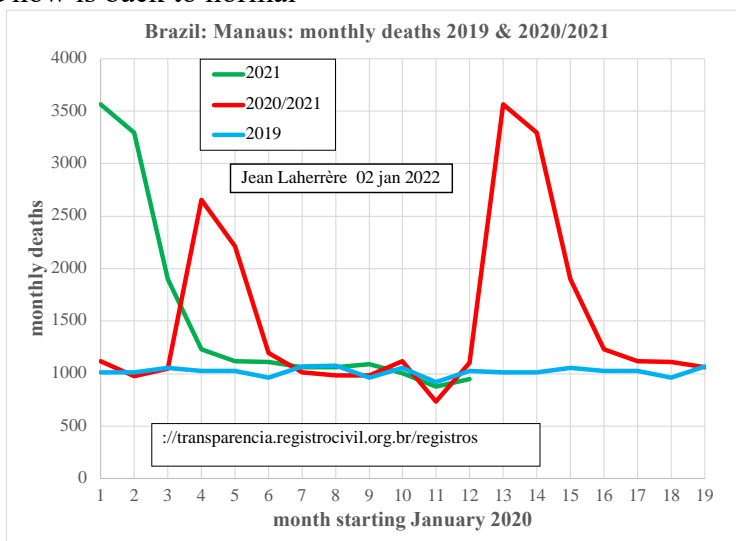
Brazil provides very quickly the monthly all causes deaths at <https://transparencia.registrocivil.org.br/registros>



The comparison between covid19 deaths and excess mortality is very good in 2021. There is a death peak in March 2021 and the decline since is strong.

Brazil should be close to herd immunity

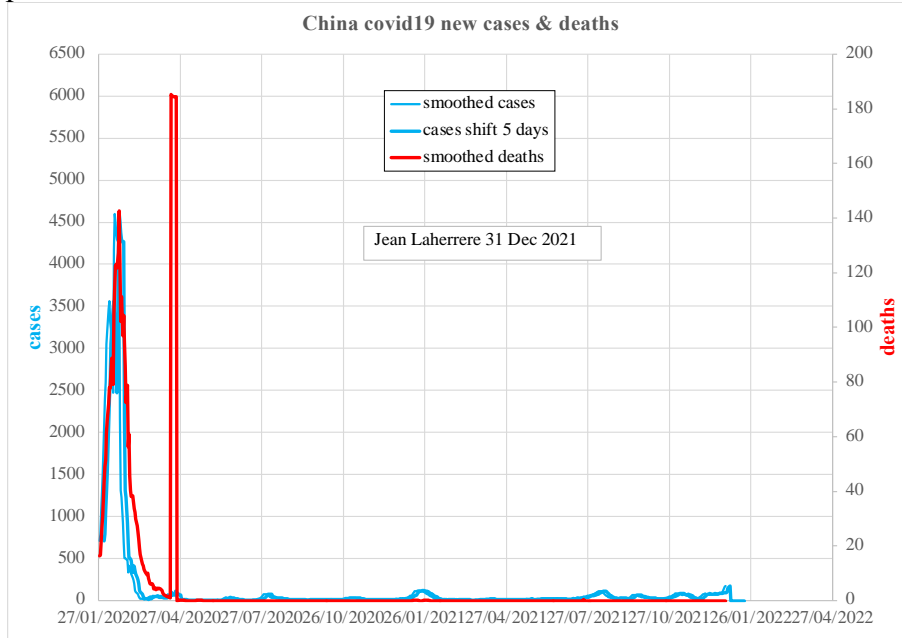
Manaus (Amazons) was claimed in 2020 to have reached herd immunity being contaminated over 60% (as estimated at the time) after a peak in March 2020, but there was another peak in January 2021 and now is back to normal



Herd immunity for covid19 should be over 85 % (smallpox, polio) or 95% (measles) Epidemy will stop when almost the world is contaminated or vaccinated!

China

shift = 5 days for the first peak, beyond the data looks unrealistic, compared with Hong Kong the burst of 1290 deaths on 17 April is unreal as followed by no death up to end of 2021! for the first peak 32 cases for one death

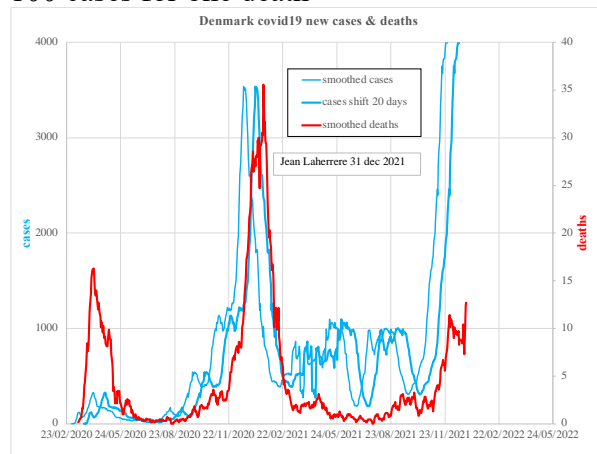


China is famous for manipulated data (GDP and new field wildcats, putting in jail for spying IHS geologist Xue Feng for 8 years <https://aspofrance.org/2016/06/07/document-les-creaming-curves/>)! It means that the oil data in China is State Secret (like it is in Russia: According to Article 5, item 2 of Russian Federation Law #54-85-1 “About State Secret” dated 21st of July 1993 all information about reserves, extraction, production and consumption of strategic raw materials in the Russian Federation, including balanced oil reserves is classified as a State Secret.)

Denmark

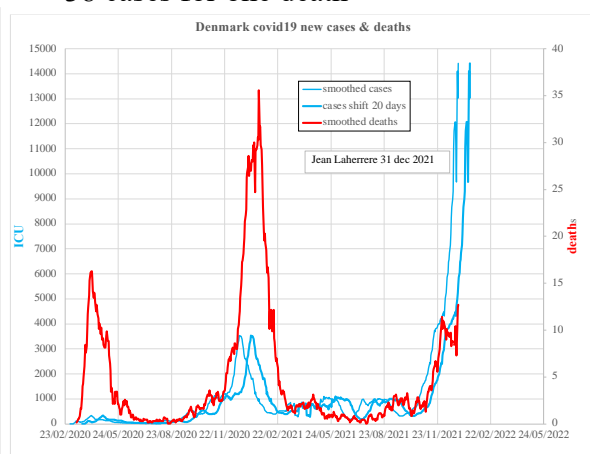
shift = 20 days

100 cases for one death

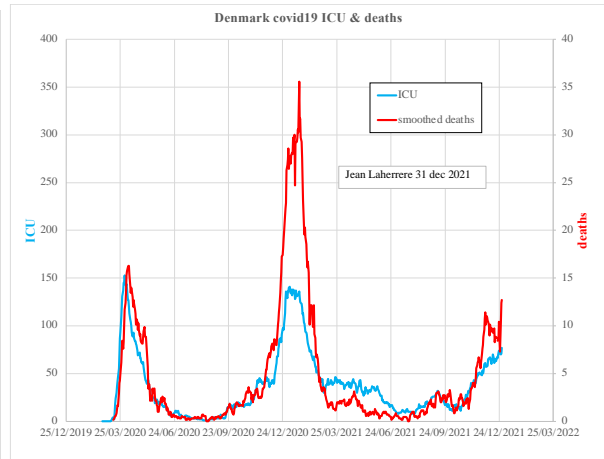
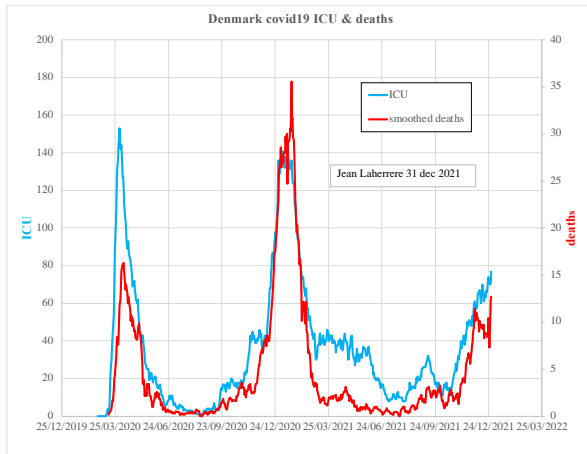


5 ICU for one death

38 cases for one death



10 ICU for one death

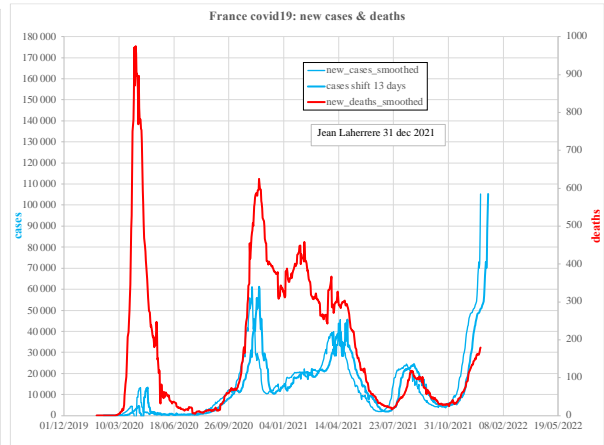
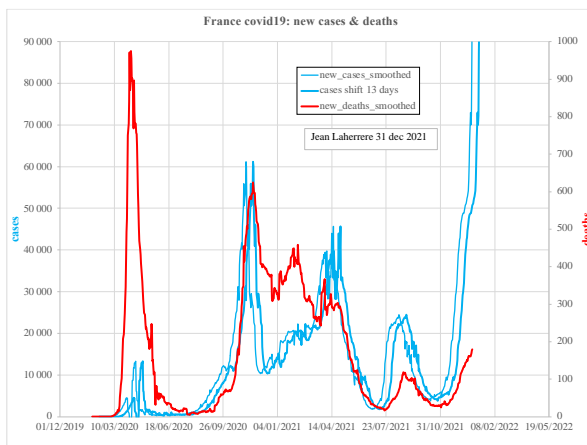


France

shift = 13 days, not yet last cases peak

For November 2020 and May 2021, about 90 cases for one death

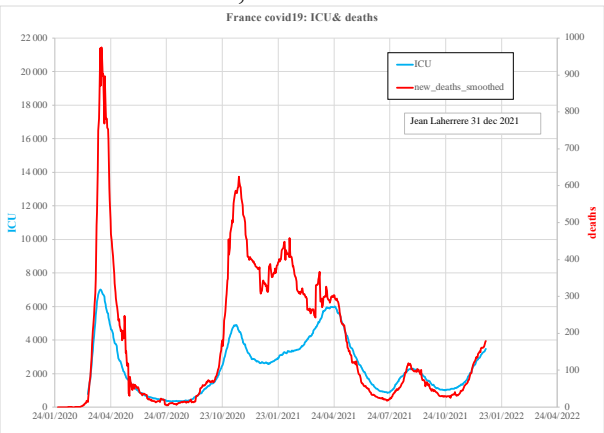
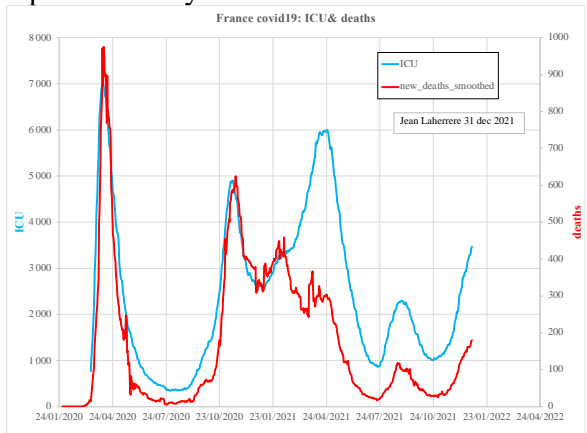
For November 2021, 180 cases for one death



No shift between ICU and death

Up to February 2021 8 ICU for one death

For November 2021, 22 ICU for one death



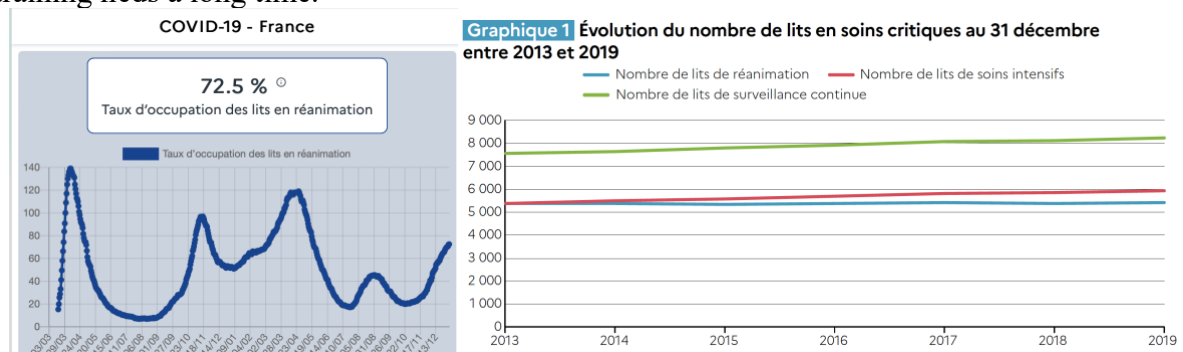
Santé Publique reports the percentage of the number of ICU, without giving the total of beds available. Covidtracker France which reports good graphs on covid19 indicates that the percentage is relative to the number of ICU beds available in France at end 2018 (DREES) =

about 5080 beds (fin 2019 = 5433 and today 6733 https://www.lamontagne.fr/paris-75000/actualites/y-a-t-il-plus-de-lits-de-reanimation-en-france-depuis-la-premiere-vague-oui-mais_13905930/). It means that this ICU percentage is not the reality of today.

Why does the government (Santé Publique) publish such wrong data?

Private hospitals in France can increase from 2000 to 4000 beds.

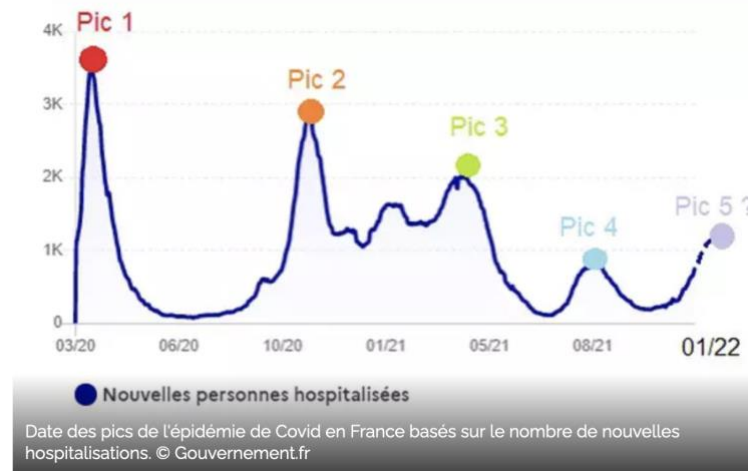
Meanwhile the government requires that the number of beds to be increased to 12 000. But the hospitals claims that the problem is the lack of trained people and not beds, and the training needs a long time.



The problem in France is the percentage of administrative staff in hospitals is about 35 % against 24 % in Germany and also that the poor connection between the public and the private hospitals (better in Germany).

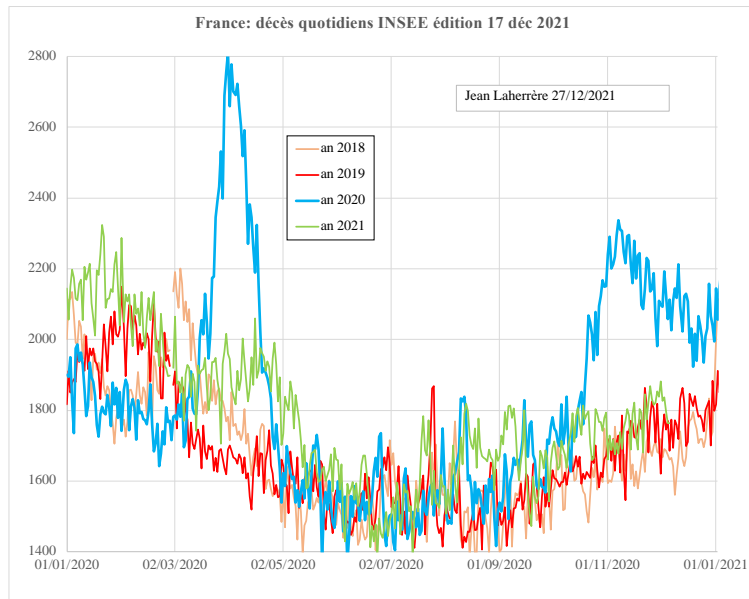
French medias speak about the fifth wave starting in November 2021, but they missed one peak in January 2021, small on cases but obvious on deaths!

But the comparison with the excess mortality (see further page 10) shows that this covid death peak was in fact manipulated: it is why it is better to forget it



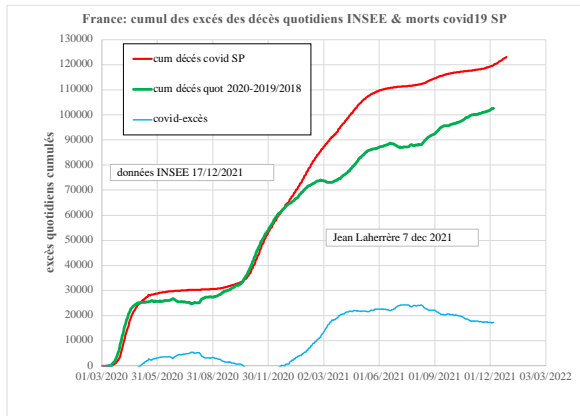
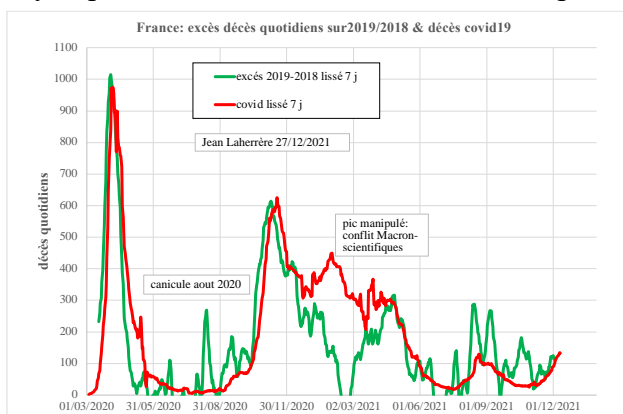
The problem is that covid19 deaths are in large majority due to comorbidity and do not agree with excess mortality for all causes deaths from INSEE

In November 2021 all deaths were similar with November 2019!



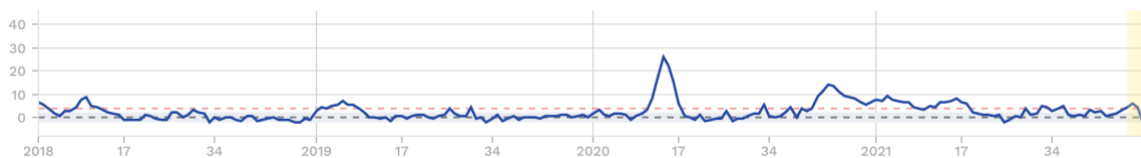
There is a discrepancy between covid 19 deaths and excess mortality from 2019/2018 average, in particular January 2021 where the president Macron, against the Scientific Council (heads of hospitals), decided to not impose a lockdown: the Scientific Council are the ones who declare the cause of deaths!

In December 2021 the cumulative deaths discrepancy was about 20 000 deaths or 20 %!
My explanation is the conflict between the president Macron and the scientists!

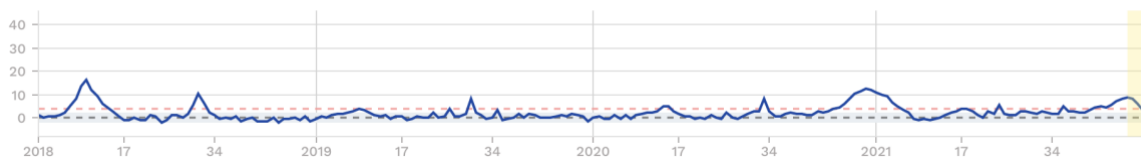


Euromomo <https://www.euromomo.eu/> displays for Europe the weekly deaths plot for the 51 week of 2021: back to normal for France, less for Germany

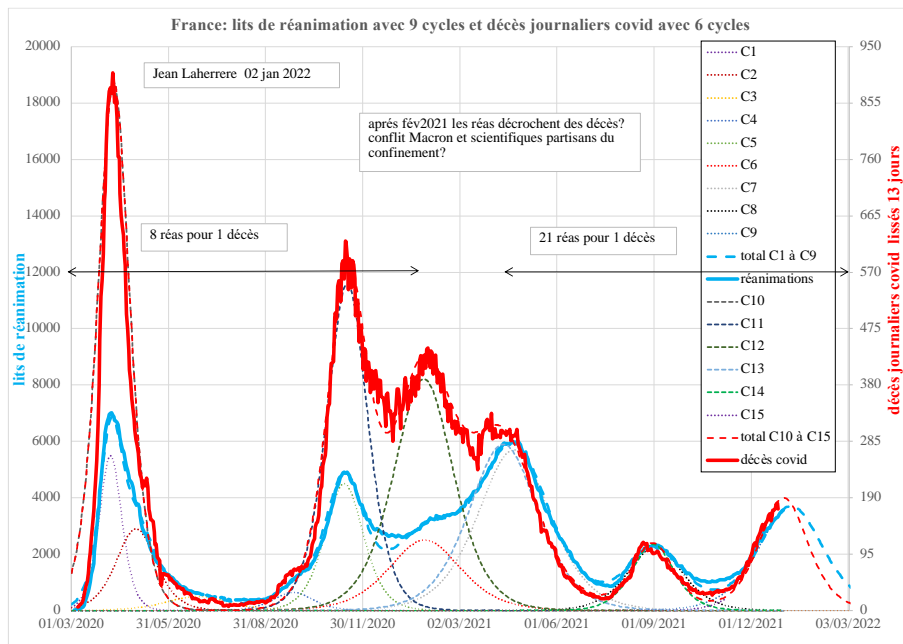
France



Germany

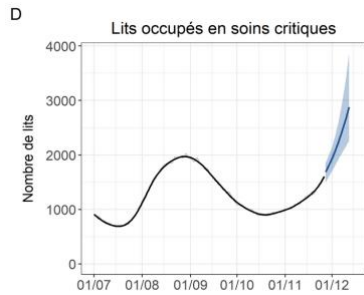


A week ago, I challenged a bet on the January 2022 ICU peak being less than 4000: no one took it

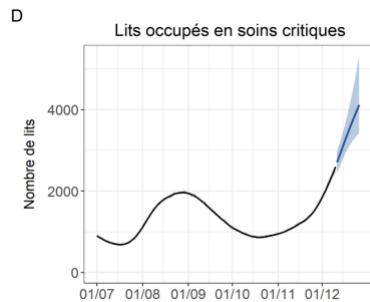


The "Institut Pasteur" (team of 8 researchers) forecasts ICUs which change with time, but always short term and no peak in view

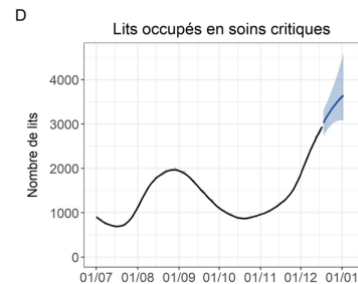
30 nov



15 dec



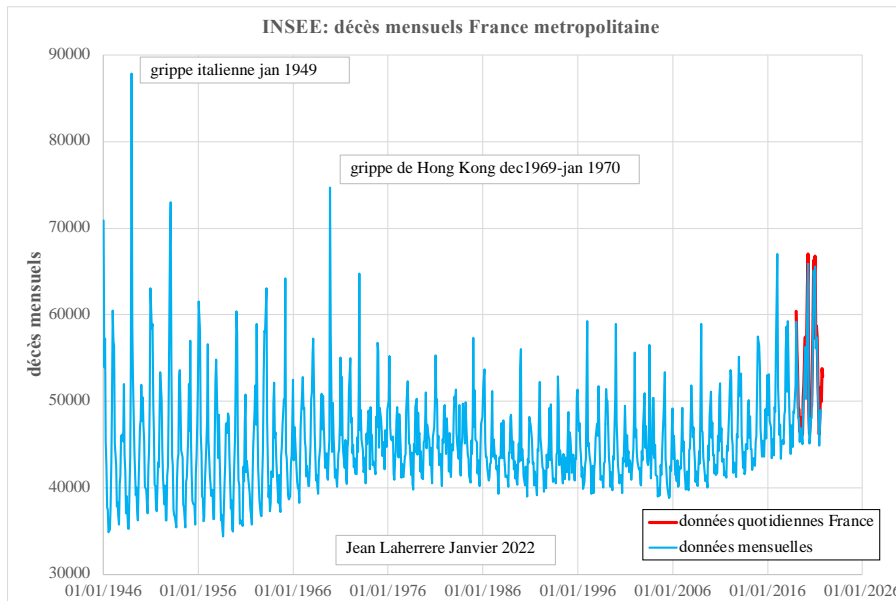
20 dec



Covid vaccine should be compulsory, as the 11 vaccines for the children or as for yellow fever when going to certain countries (Guyana).

Individual freedom stops where your neighbor freedom starts.

The graph of INSEE monthly all causes deaths since 1946 shows that the covid19 impact is not obvious, giving monthly levels less than the Italian flu of 1946 or the Hong Kong flu of 1970, just equal with January 2017, which did not alarm the medias at the time!



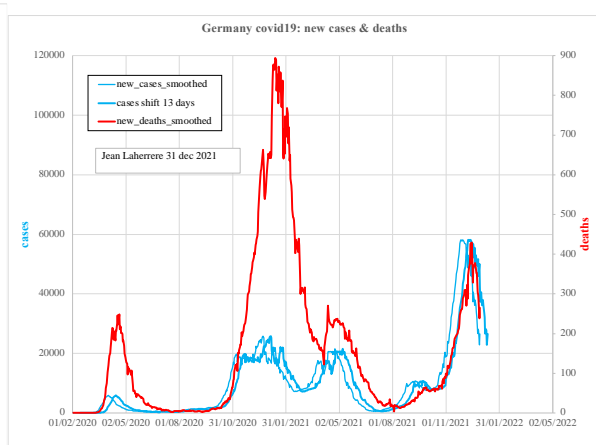
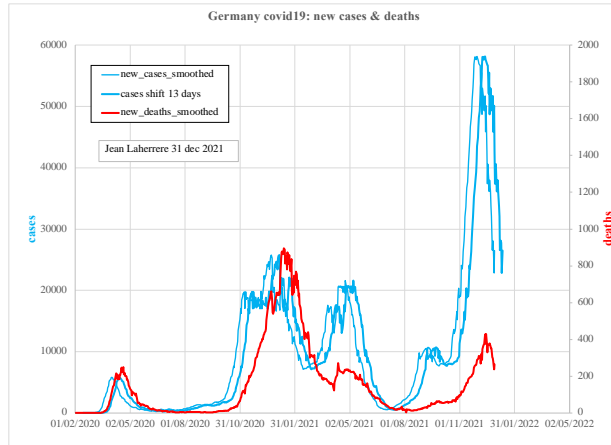
France population has increased since 1946 and the same graph in deaths per million will diminish the covid19 impact!

Germany

shift = 13 days

20 cases for one death

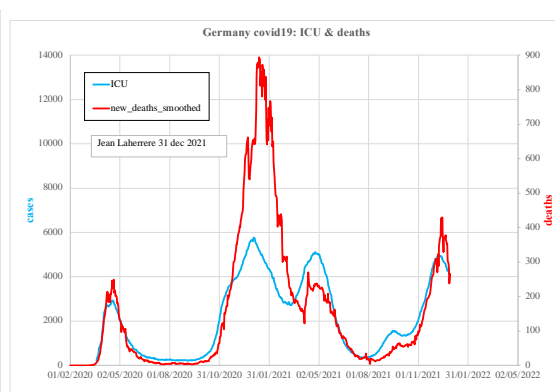
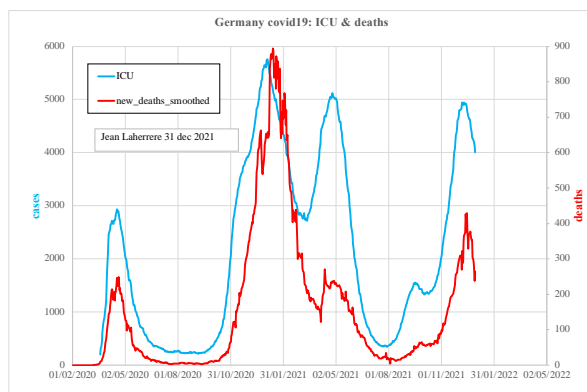
133 cases for one death



ICU & deaths

for January 2021 7 ICU for one death

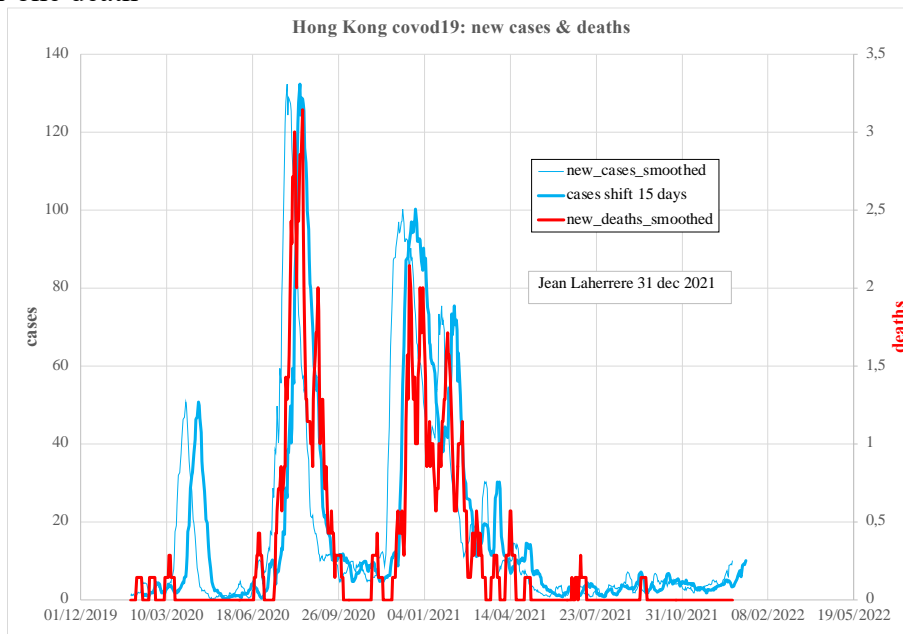
for December 2021 16 ICU for one death



Hong Kong

shift=15 days not yet last peak

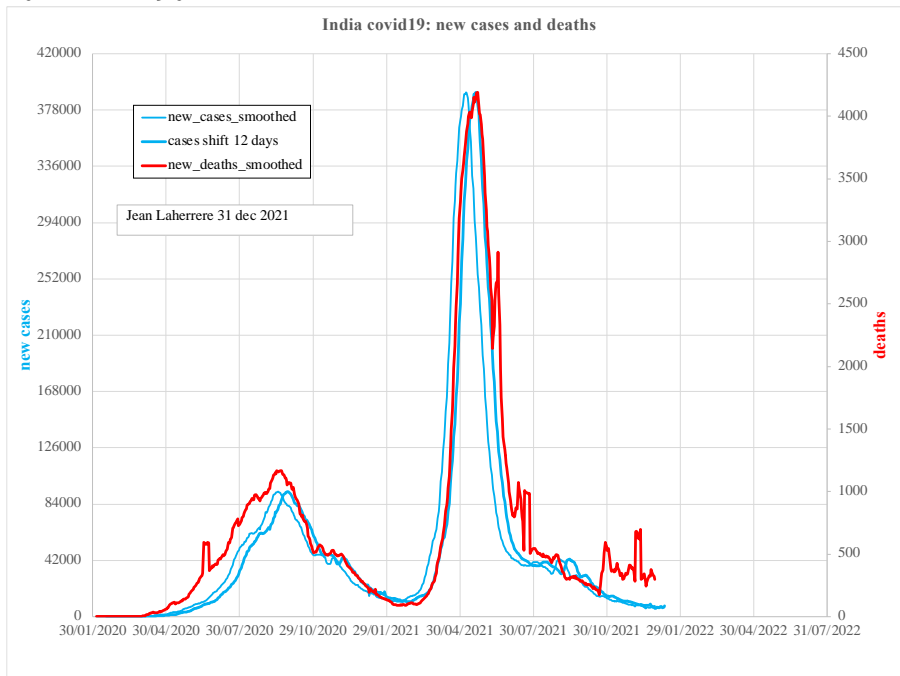
40 cases for one death



India

shift= 12 days not yet last peak: decline since May 2021 peak

for 2020 & 2021 about 90 cases for one death

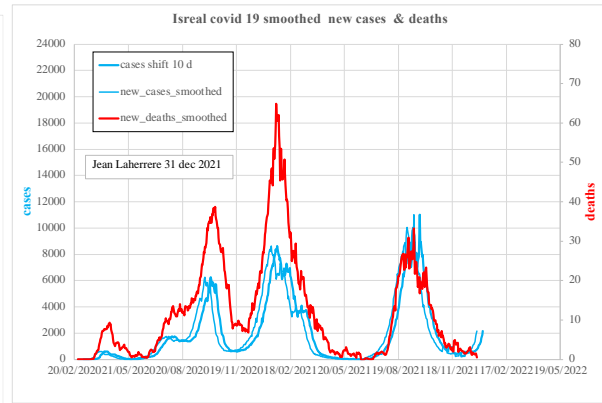
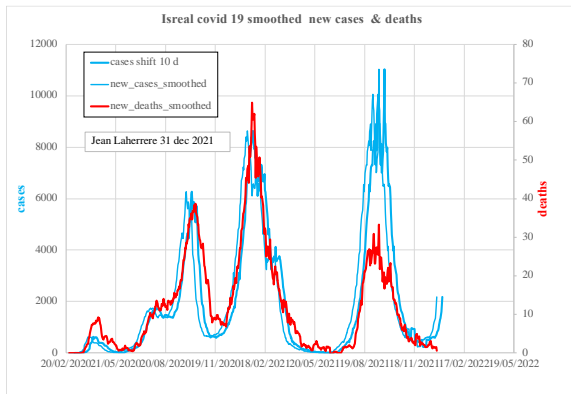


Israel

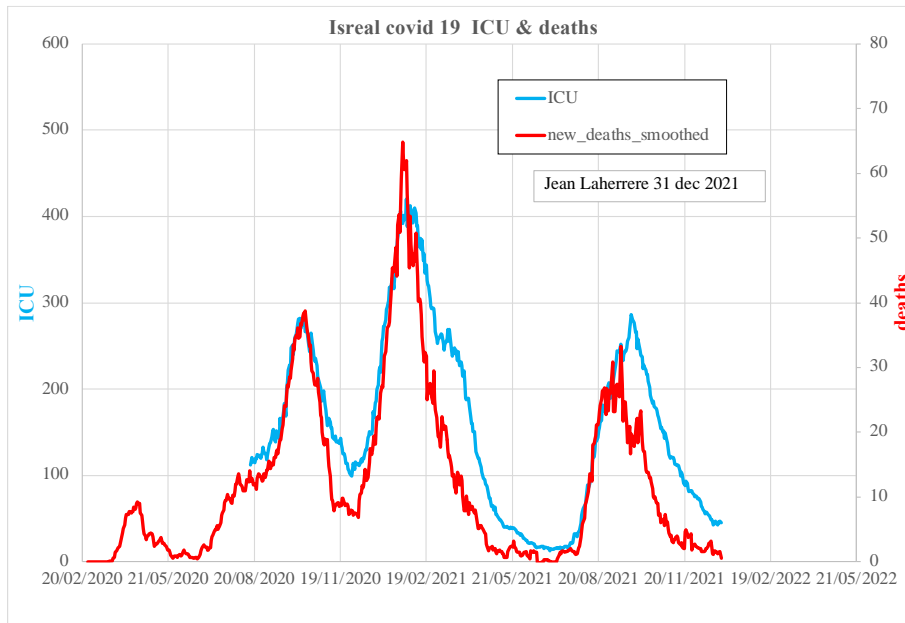
shift= 10 days, not yet cases peak

up June 2021 240 cases for one death

For September 2021 300 cases for one death



For 2020 & 2021 about 7 ICU for one death

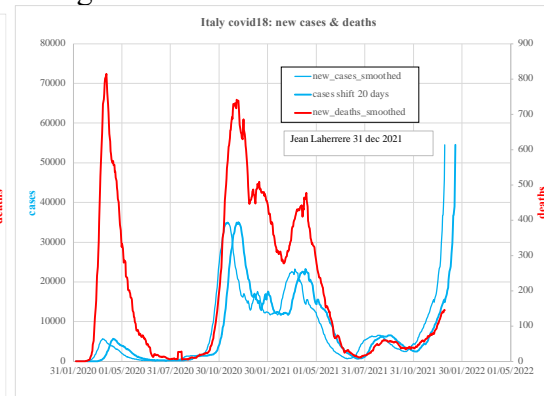
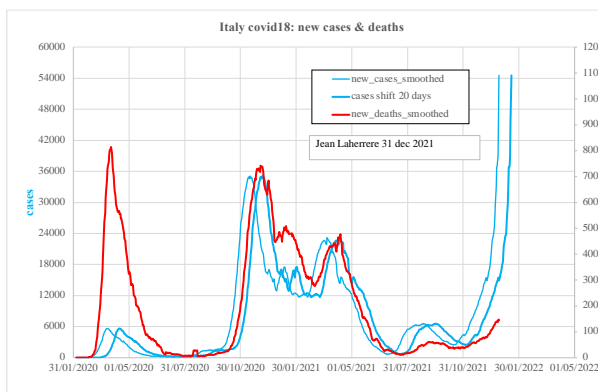


Italy

shift = 20 days, not yet last peak

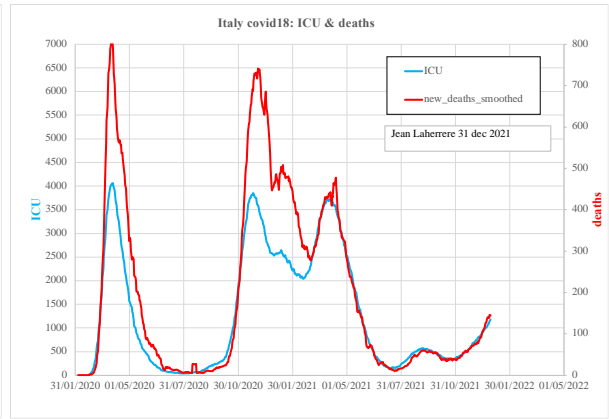
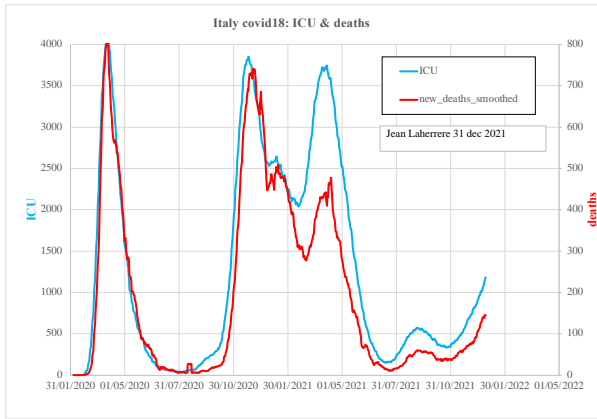
for July 2020 to November 2021 about 50 cases for one death

Since August 2021 90 cases for one death



From February 2020 to February 2021: 5 ICU for one death

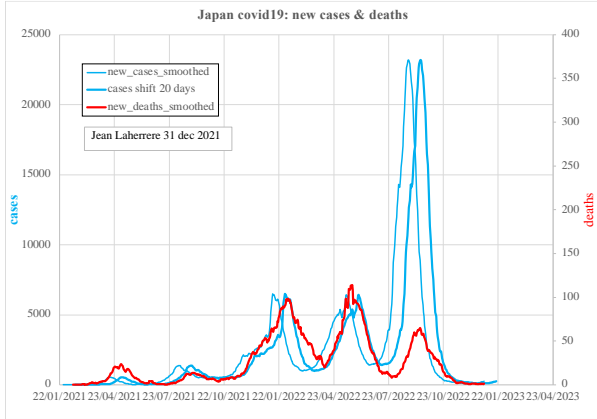
Since March 2021 perfect correlation with 8.75 ICU for one death



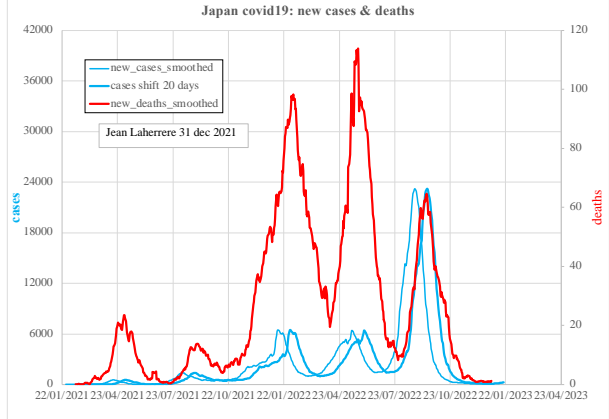
Japan

shift = 20 days

up to June 2021 60 cases for one death



In October 2021 350 cases for one death



Luxembourg

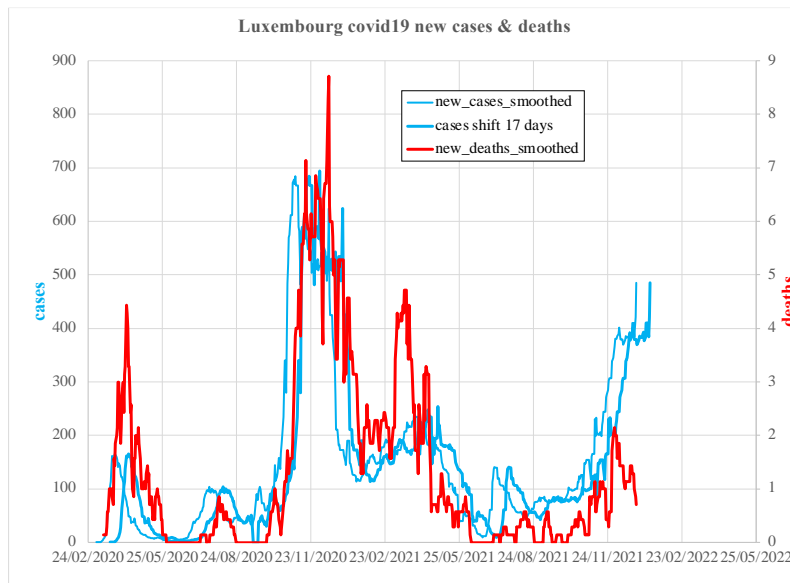
shift = 17 days

anomalous burst of deaths in March 2021

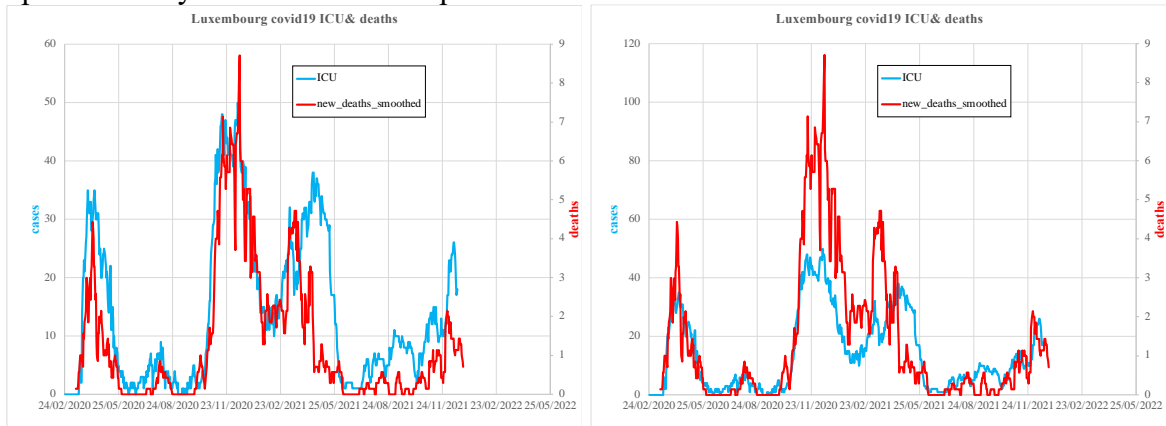
last death peak in December when cases burst

up to October 2021 about 100 cases for one death

one death



Good correlation ICU and death February 2020, but in fact in March 2021 cases look anomalous
 up to February 2021 about 7 ICU per death Since June 2021 about 13 ICU for one death



Euromomo does not show any obvious weekly extra mortality, as the daily covid peak is for 7 deaths, which is the level of all causes deaths noise!

Luxembourg

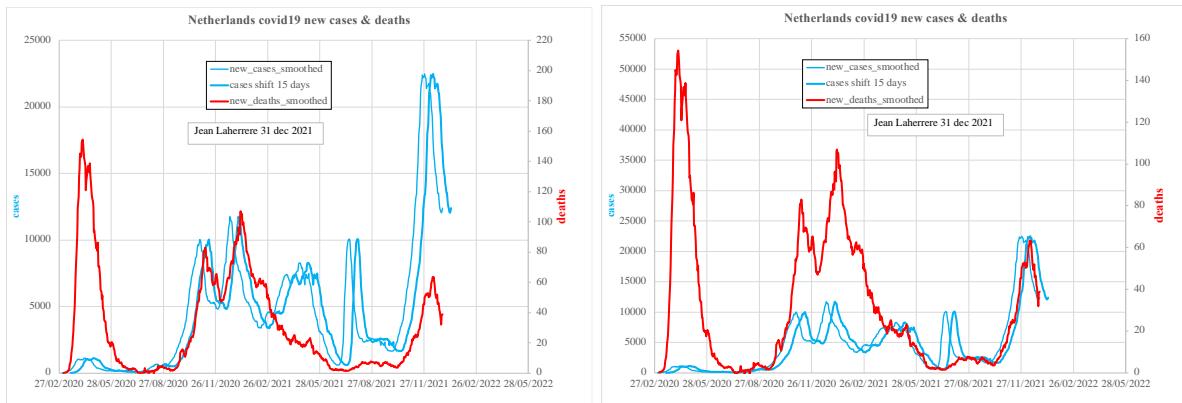


Netherlands

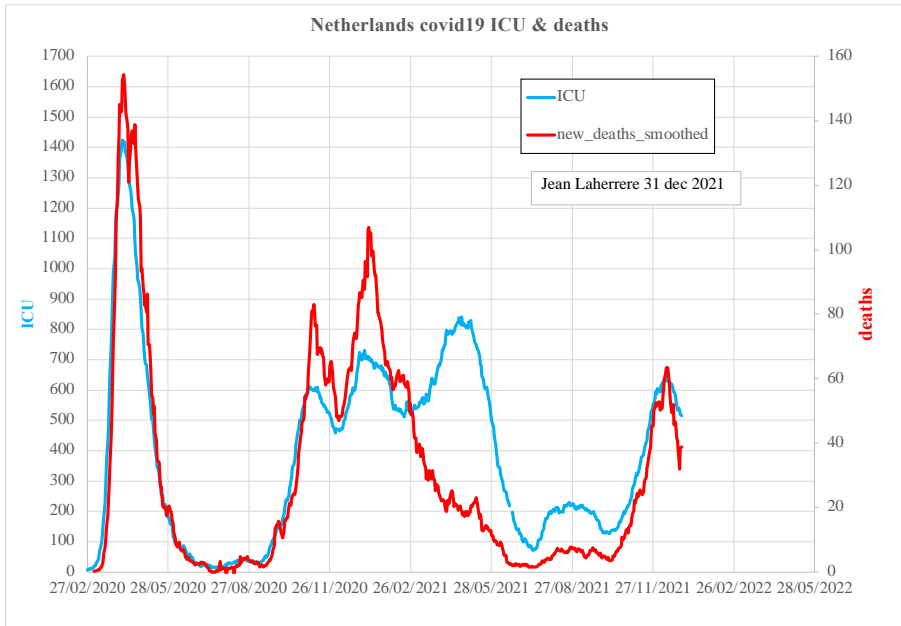
shift = 15 days

with last cases peak end November 2021 and death peak on 13 December 2021
 for April 2020 to March 2021 about 110 cases for one death

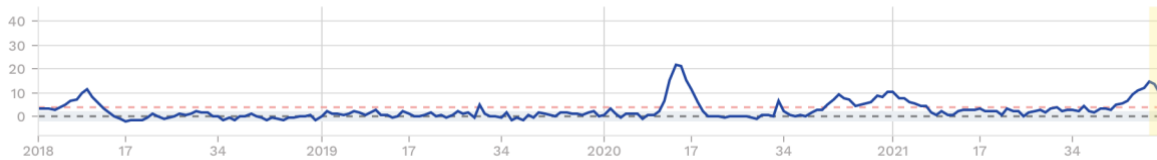
Since April 2021 about 340 cases for one death



good correlation ICU and deaths with peak 11 December 2021
 except March 2021-October 2021 about 10 ICU for one death

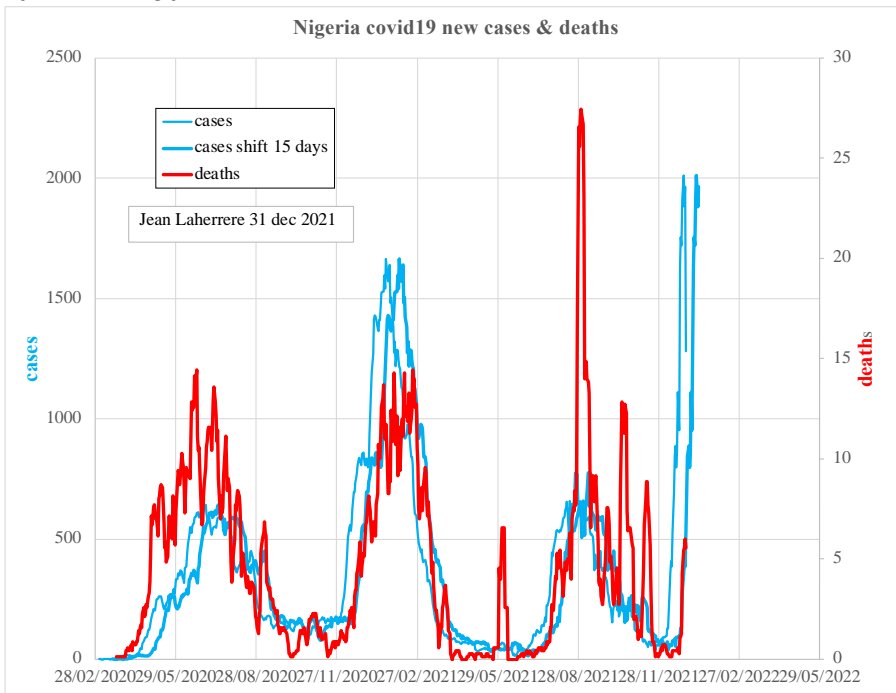


Euromomo extra mortality, not yet back to normal
Netherlands



Nigeria

shift = 15 days, Nigeria is very poorly vaccinated see annex for 2020+2021 about 80 cases for one death

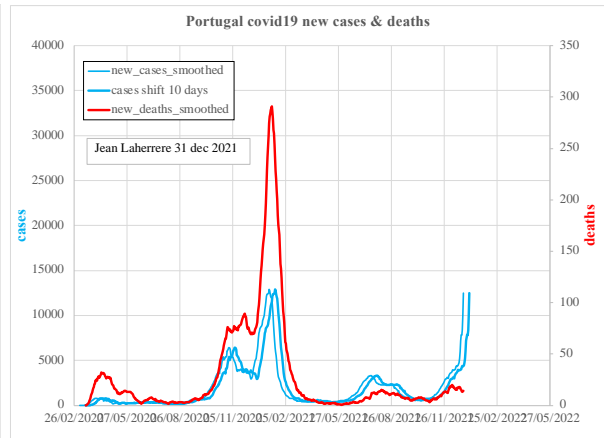
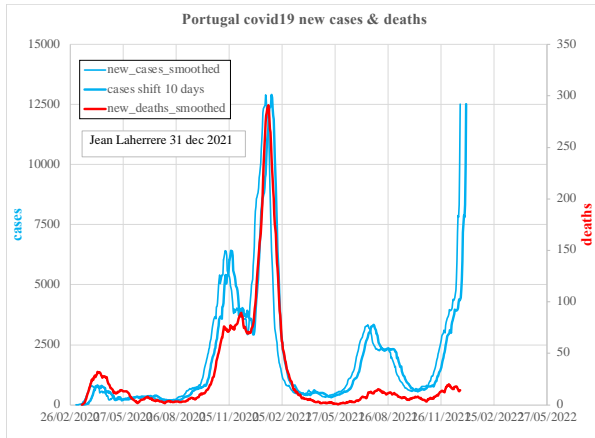


Portugal

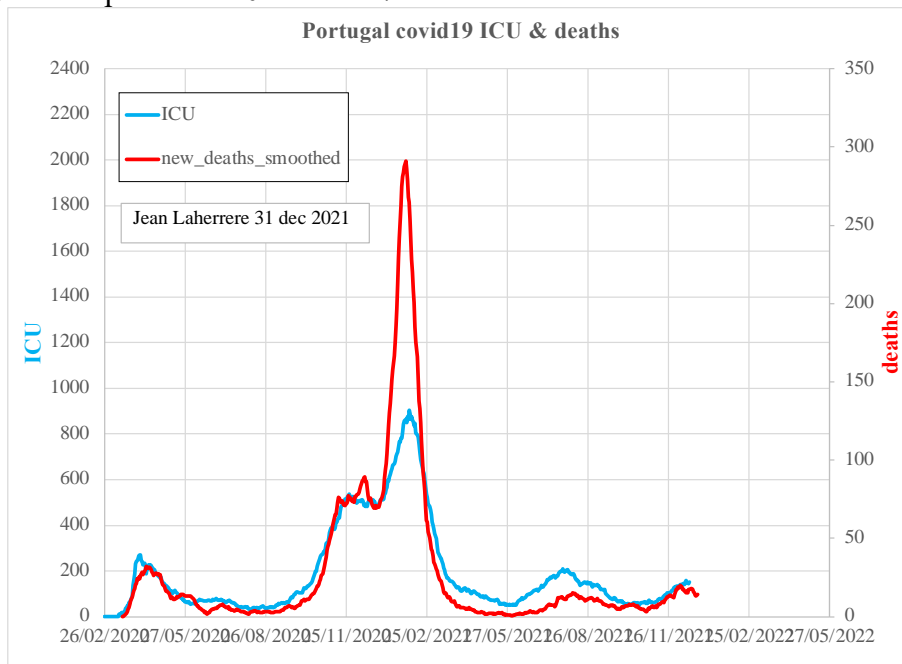
shift = 10 days

up to February 2020 40 cases for one death

since March 2021 110 cases for one death

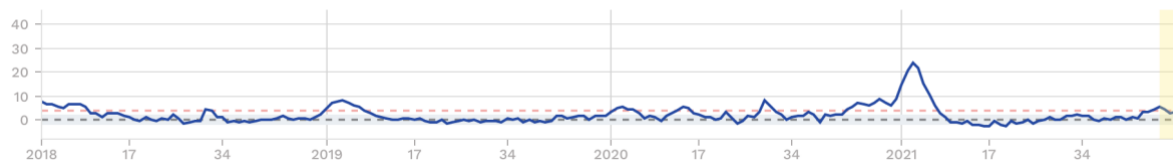


Good correlation ICU and deaths for first peak and fifth peak!
for 2020-2021 except March 2021 about 7 ICU for one death



Euromomo: week 51 of 2021 is less than the peak in week 3 of 2019

Portugal

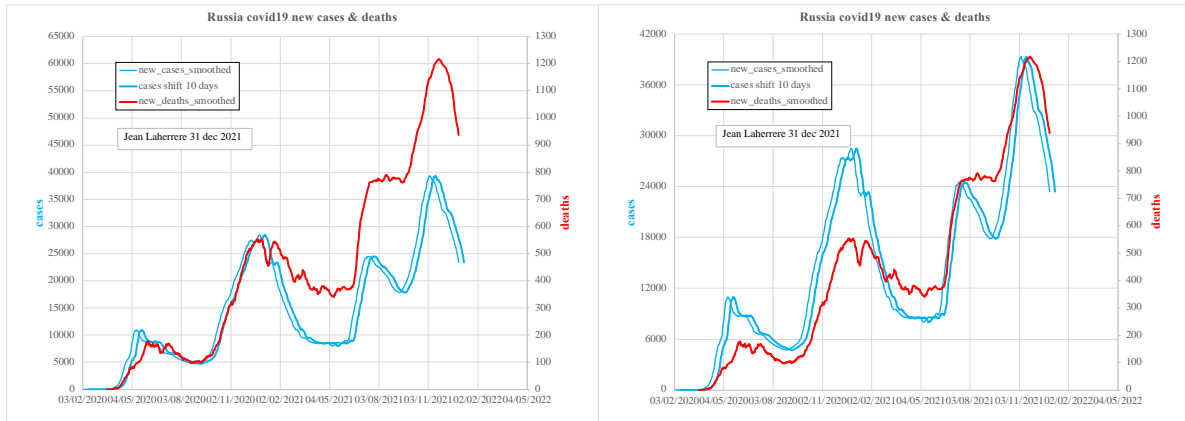


Russia

shift = 10 days last death peak end November 2021

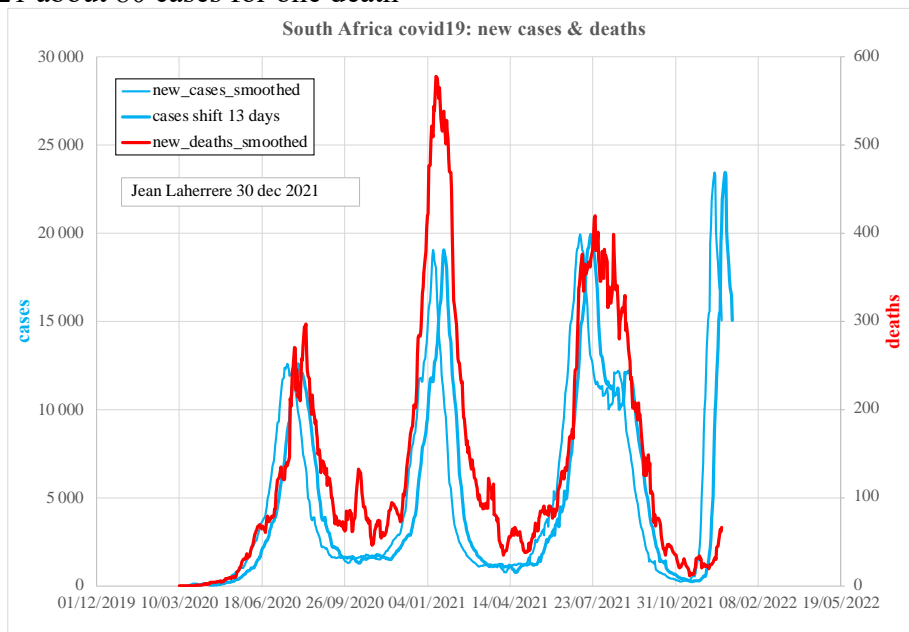
up to January 2021 50 cases for one death

Since June 2021 32 cases for one death



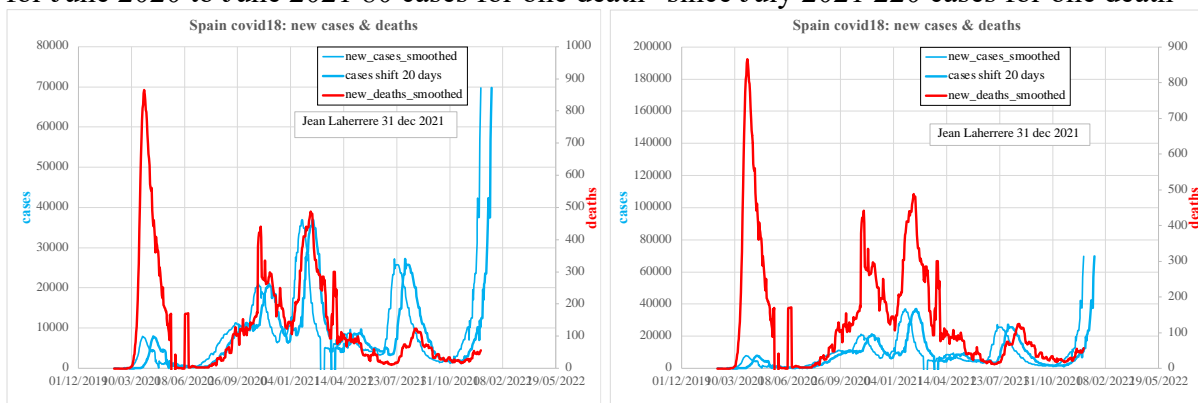
South Africa

shift = 13 days last cases peak = 16 December 2021
 for 2020+2021 about 80 cases for one death

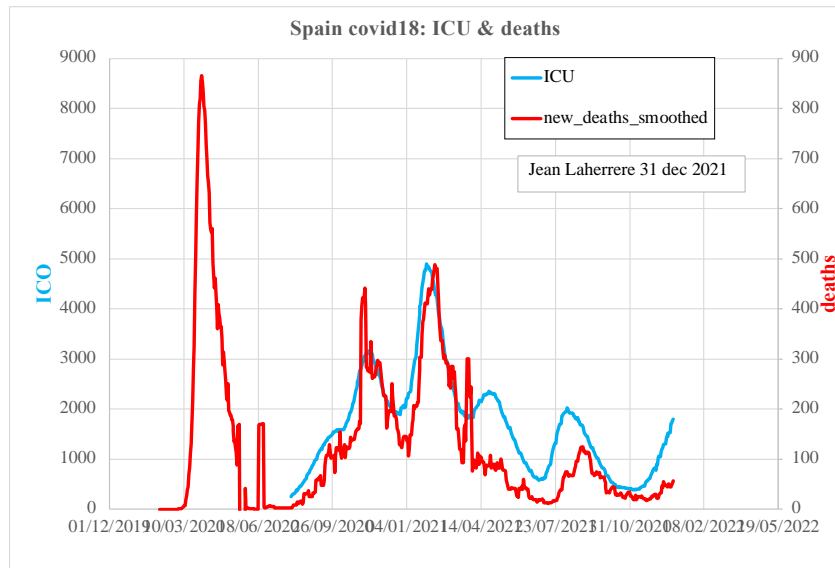


Spain

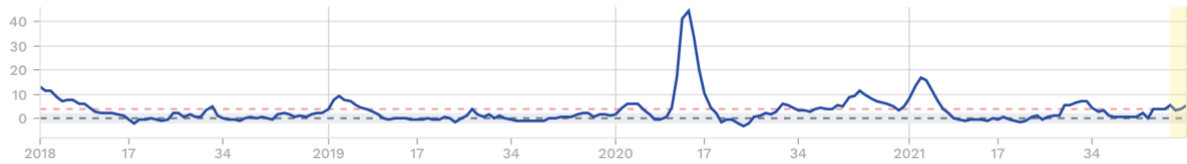
shift = 20 days, not yet last peak
 for June 2020 to June 2021 80 cases for one death since July 2021 220 cases for one death



For 2020+2021 about 10 ICU for one death



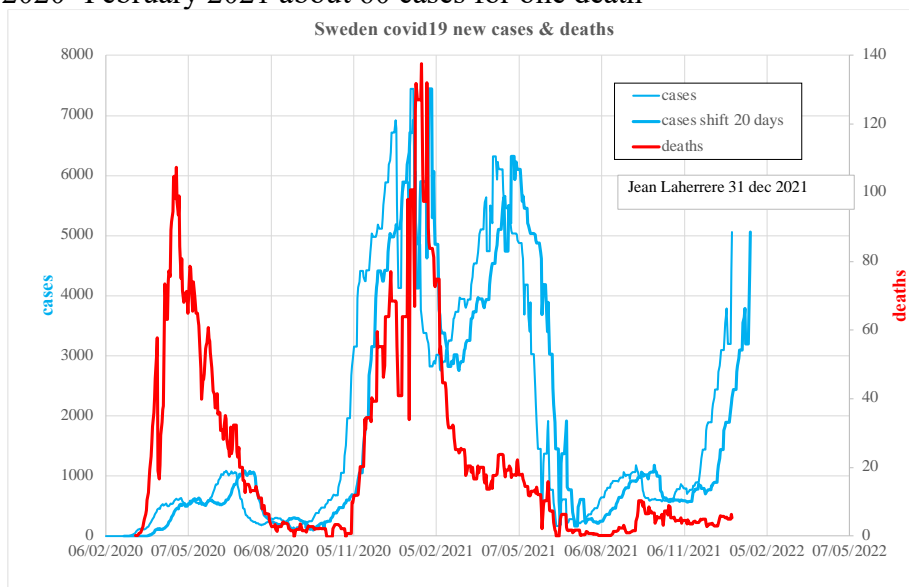
Euromomo
Spain



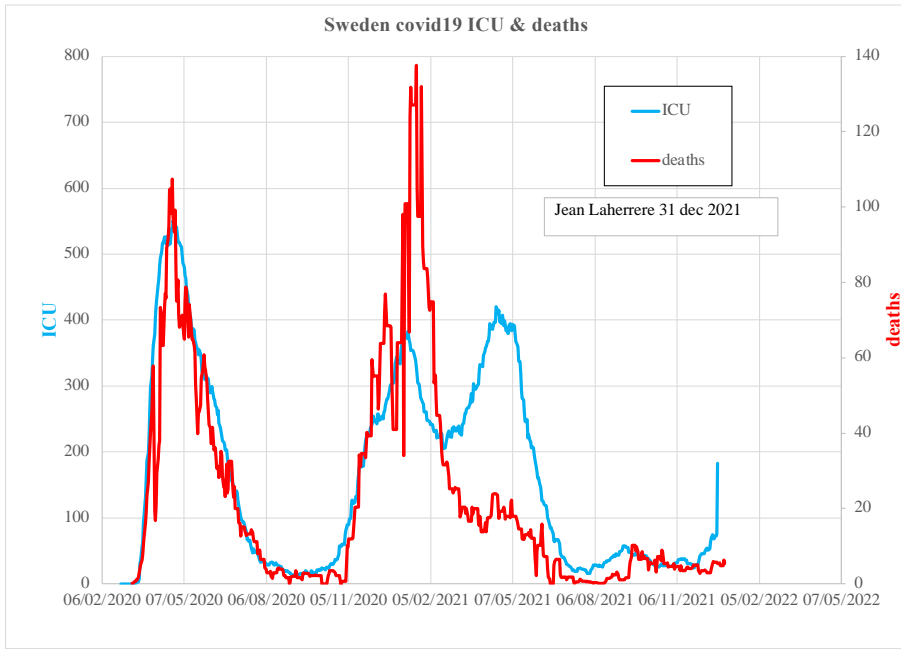
Sweden

shift = 20 days

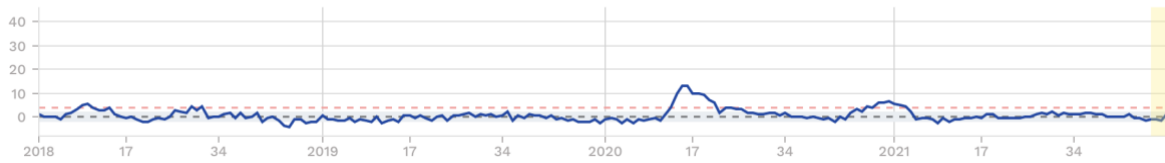
for August 2020- February 2021 about 60 cases for one death



for 2020 and September 2021 about 6 ICU for one death



**Euromomo
Sweden**

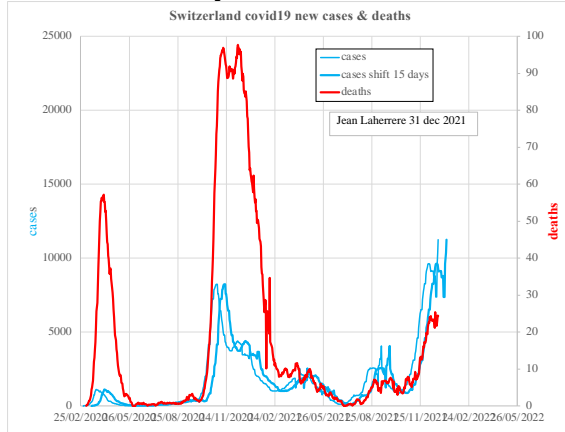
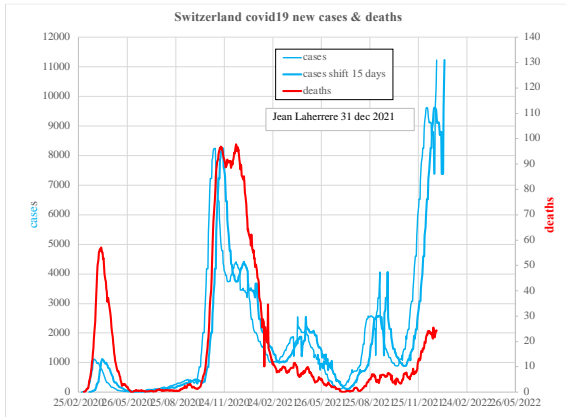


Switzerland

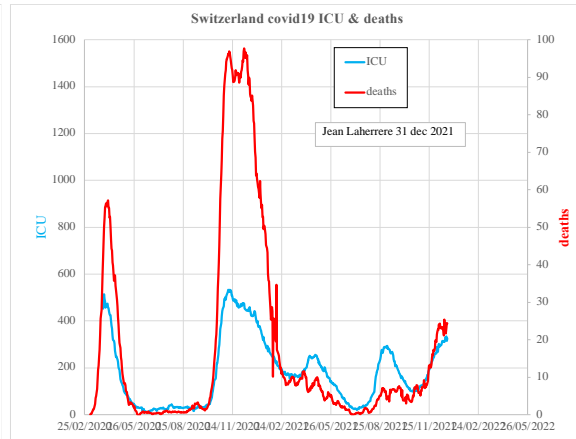
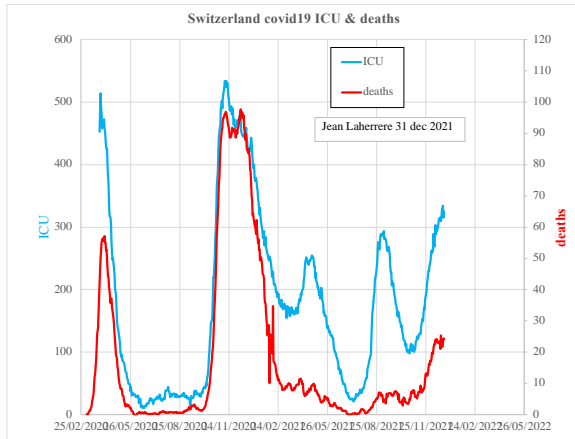
shift = 15 days

For November 2020 80 cases for one death

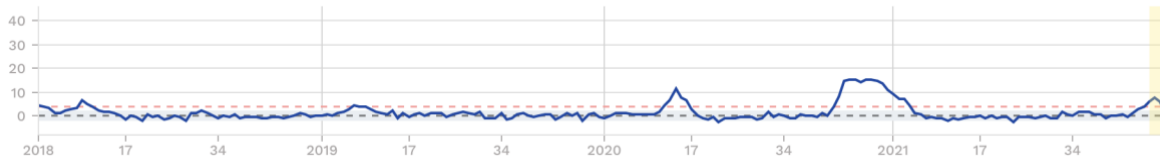
Since May 2021 250 cases for one death



October 2020 to January 2021 5 ICU for one death Since February 2021 16 ICU for one death

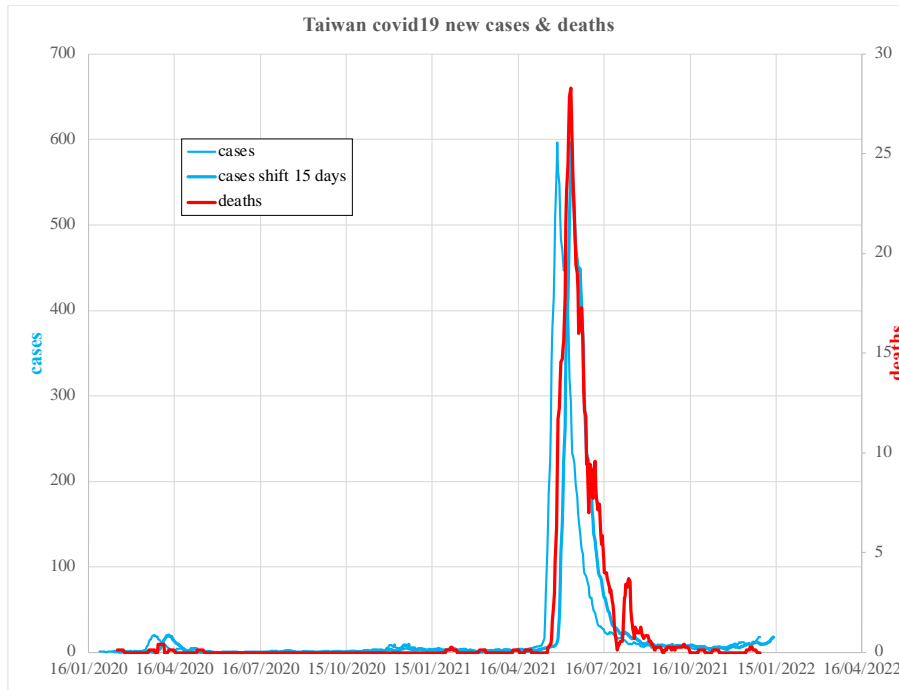


Euromomo extra mortality
Switzerland



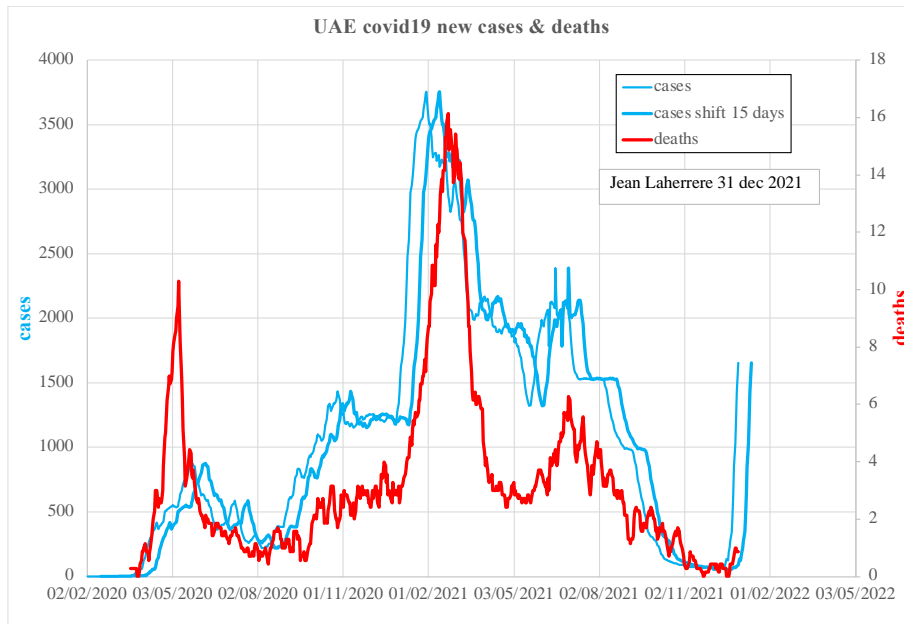
Taiwan

shift = 15 days, only one peak, very particular!
for 2020-2021 about 23 cases for one death



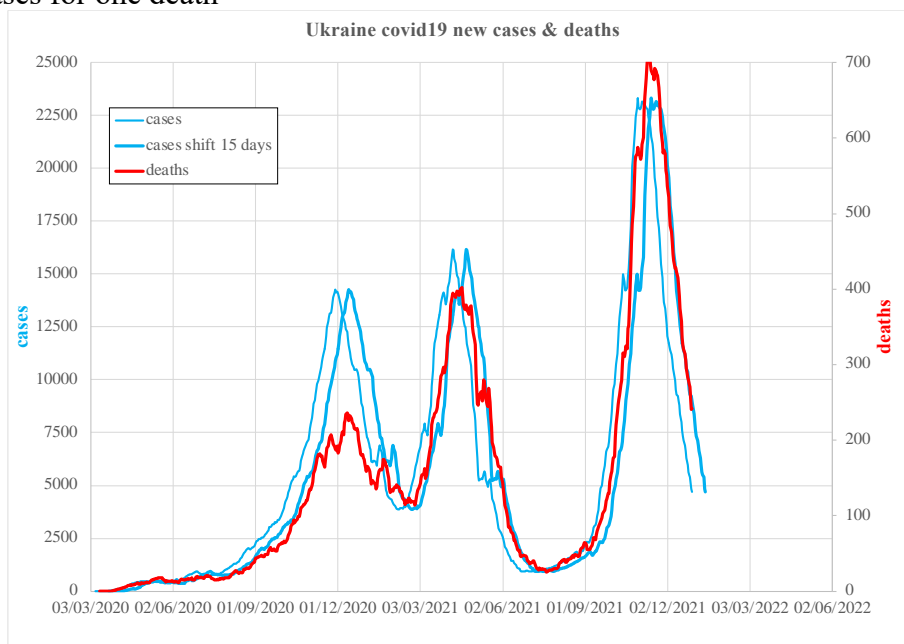
UAE

shift = 15 days, UAE is the most vaccinated country: see annex
for January 2021 to March 2021 about 220 cases for one death



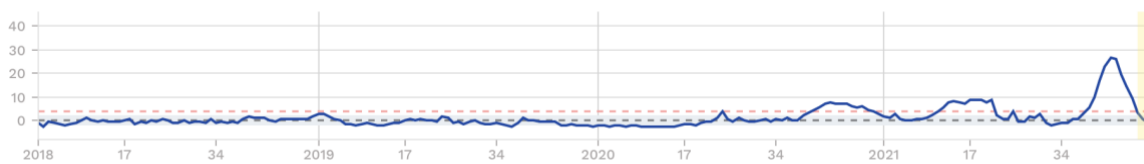
Ukraine

shift = 15 days good correlation cases and deaths in 2021: peak in November 2021 about 35 cases for one death



Euromomo shows recent extra mortality, back to normal on week 51

Ukraine

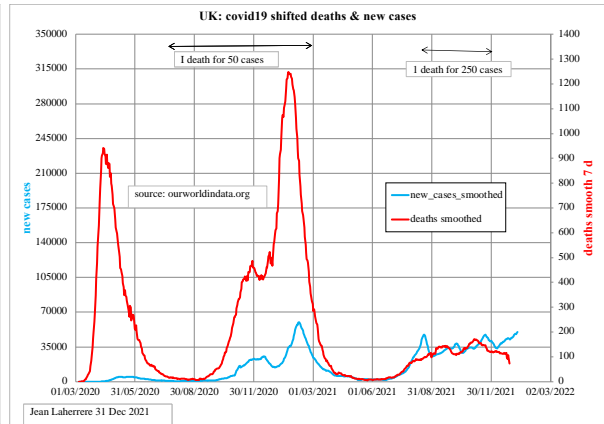
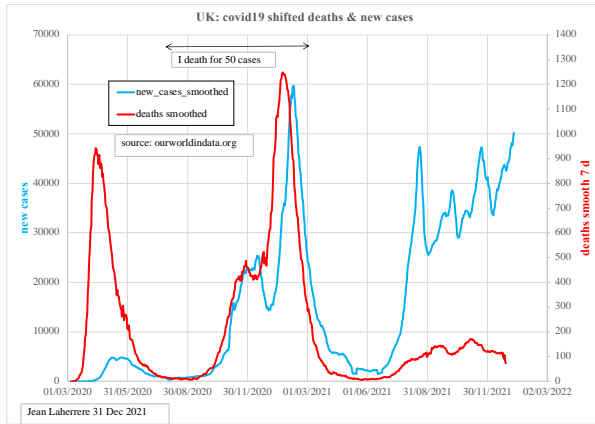


UK

negative shift! it is strange as UK is the only country where deaths peak in January 2021 occurs before cases peak

for June 2020-July 2021 50 cases for one death

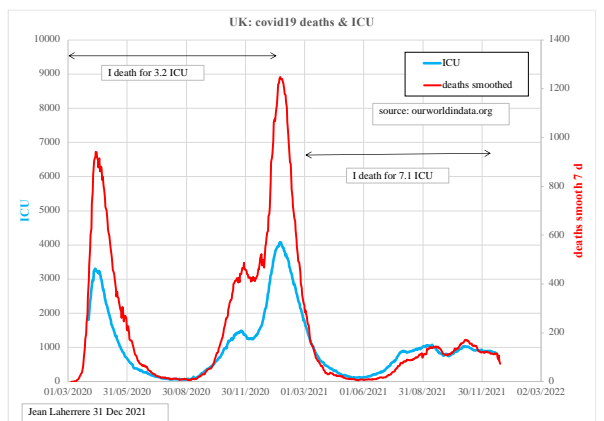
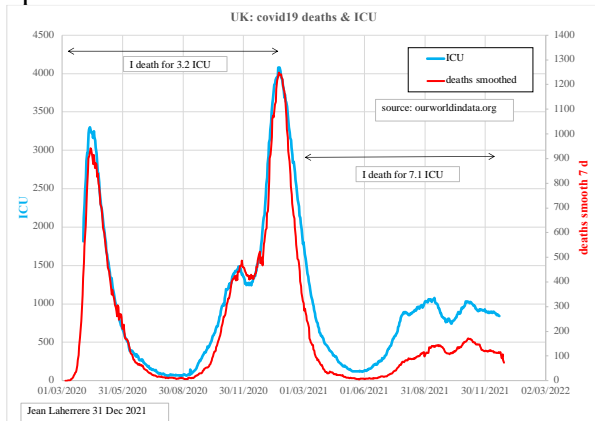
Since May 2021 cases and deaths correlate without shift and 250 cases for one death



ICU and deaths

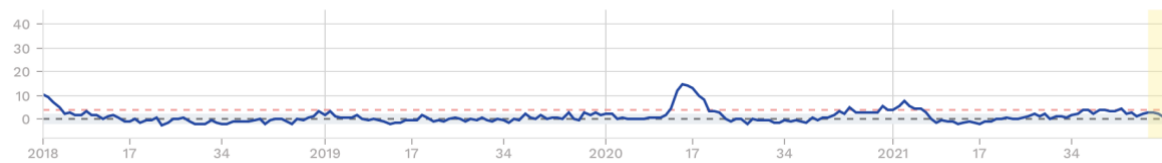
up to March 2021 3 ICU for one death

March 2021 December 2021 7 ICU for one death



Euromomo for Scotland is flat for week 51 of 2021

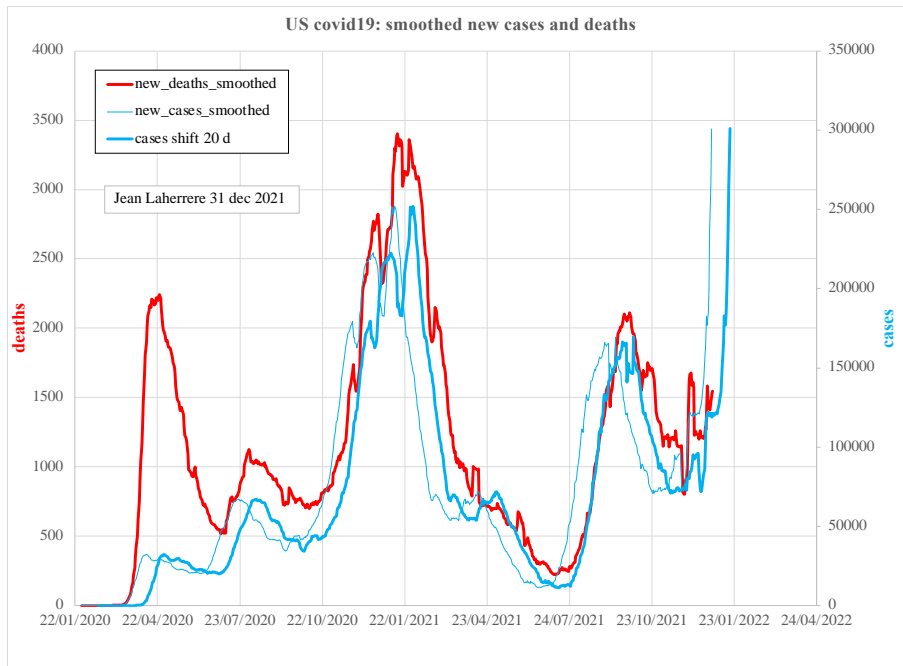
UK (Scotland)



US

shift = 20 days not yet last cases peak

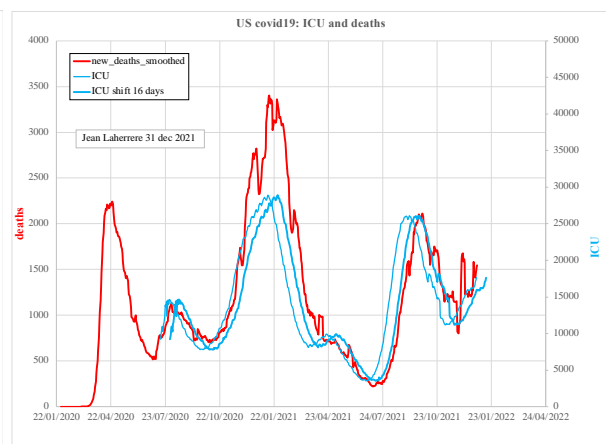
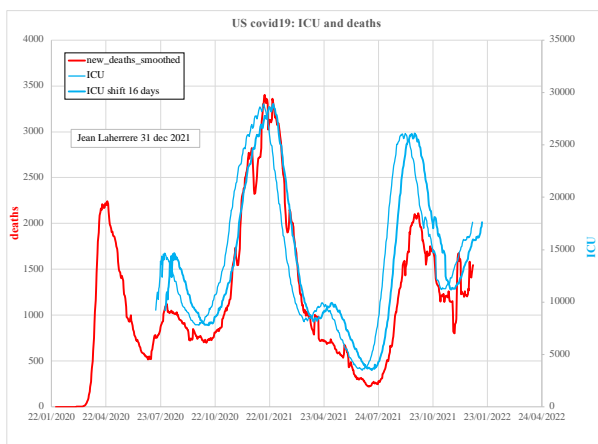
For August 2020 to now about 88 cases for one death



ICU and deaths

for October 2020 to August 2021 9 ICU for one death

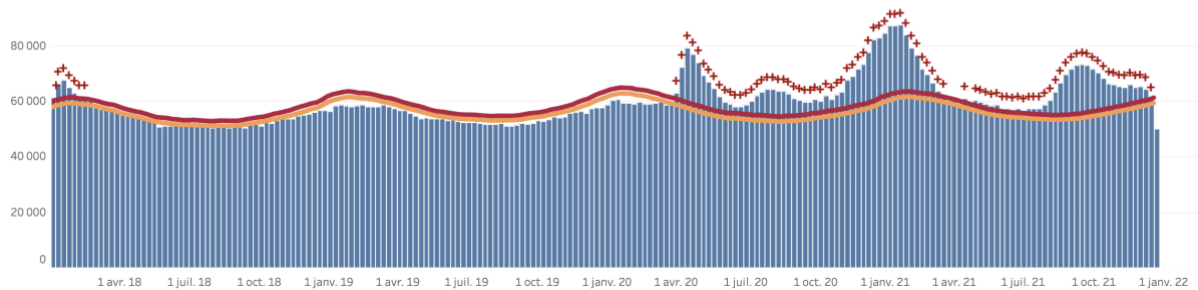
Since May 2021 12 ICU for one death



CDC displays of excess deaths is almost back to normal on 1st January 2022!

https://www.cdc.gov/nchs/nvss/vsrr/covid19/excess_deaths.htm

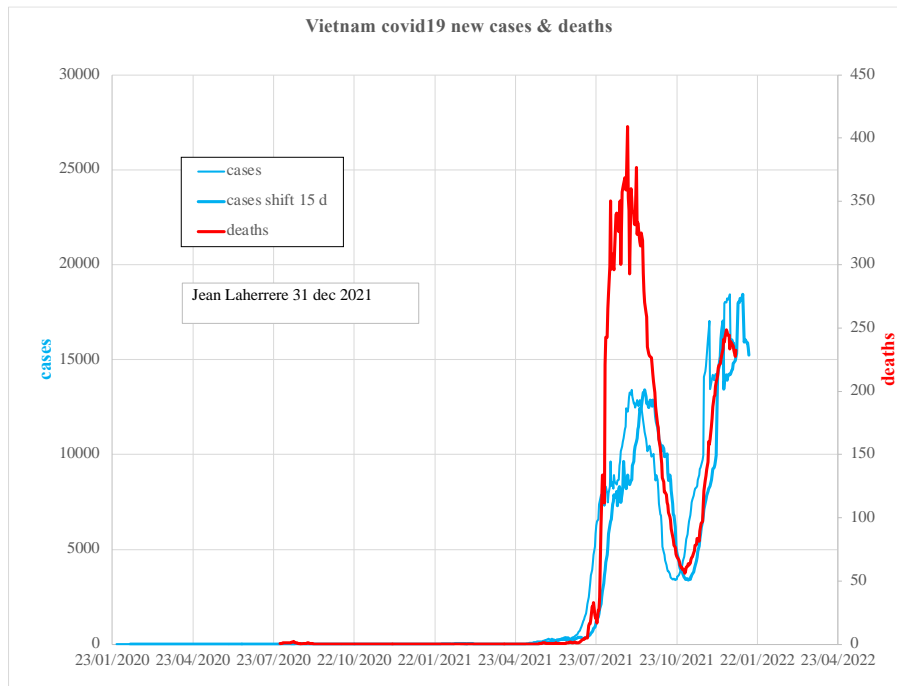
Weekly number of deaths (from all causes)



Vietnam

nothing before July 2021, presently peaking?

peak September 2021 with 37 cases for one death but in December 2021 64 cases for one death



Recapitulation of covid19 results

For most countries, two graphs are displayed to correlate cases (or ICU) with deaths and two numbers are given of cases for one death

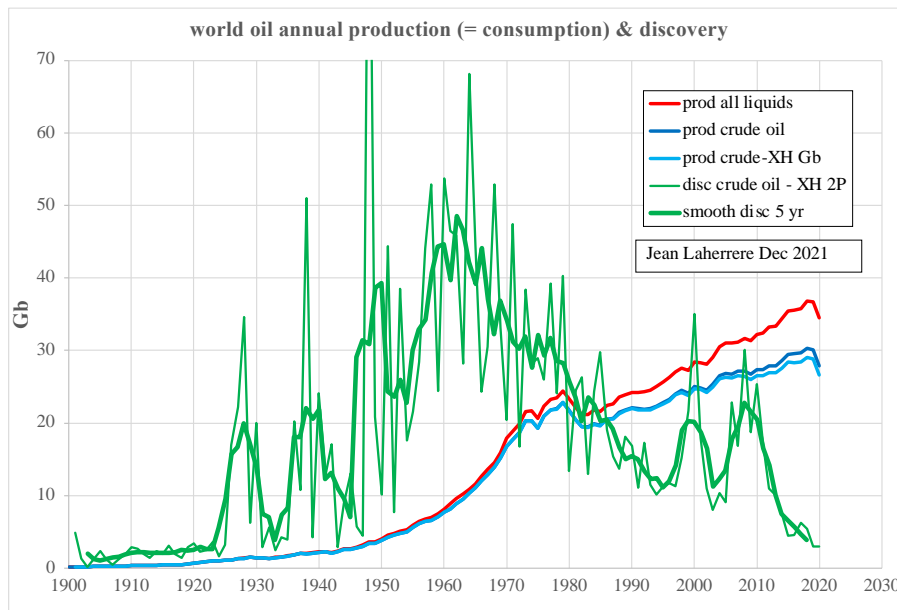
The shift as the number of cases and of ICU for one death are reported in this table

	days	for one death	for one death	for one death	for one death
	shift case-death	cases	cases	ICU	ICU
Australia	10	155		20	
Belgium	20	86	290	17	
Brazil	15	67	45		
China	5	32			
Denmark	20	100	32	5	10
France	13	90	180	8	22
Germany	13	22	133	7	16
Hong Kong	15	40			
India	12	90			
Israel	10	240	300	7	
Italy	20	50	90	5	9
Japan	20	350			
Luxembourg	17	100		7	13
Netherlands	15	110	350	10	
Nigerai	15	80			
Portugal	10	40	110	7	
Russia	10	220	50	32	
South Africa	13	80			
Spain	20	80	220	10	
Sweden	20	60		6	
Switzerland	15	80	250	5	16
Taiwan	15	23			
UAE	15	220			
Ukraine	15	35			
UK	negative	50	250	3	7
US	20	88		9	12
Vietnam	15	37	64		
World	10	60			

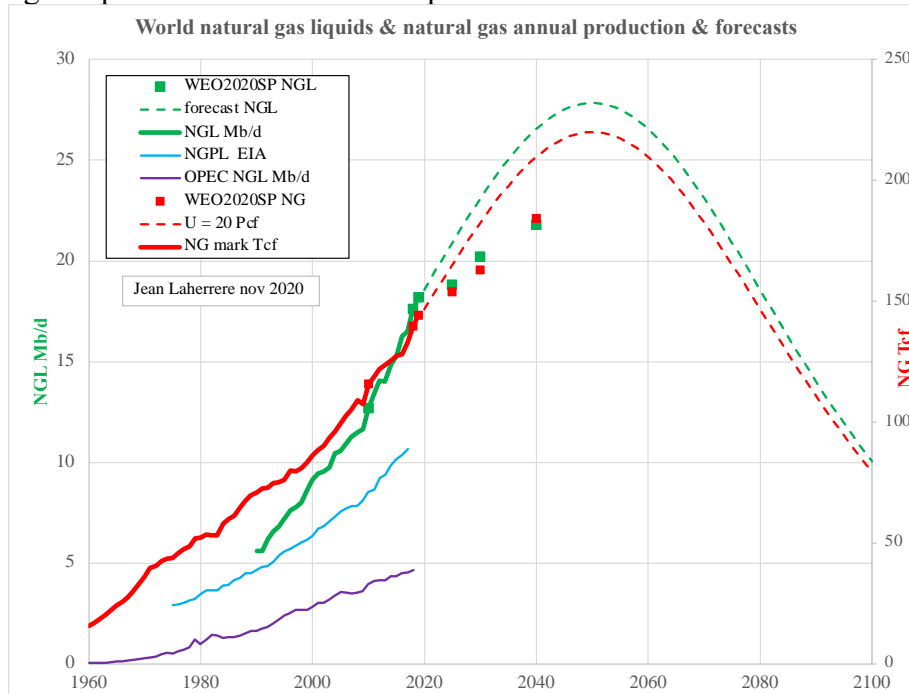
It appears that the range of the shift between cases and deaths is 5-20 days, when the range of the number of cases for one death 20-350 (60 for the world) and of the number of ICU for one death 3-32: quite large. range!

Crude oil discovery & production

In my update of "graphiques JHL", it is obvious that since 1985 crude oil discovery is less than production. In 2020 crude oil discovery was about 3 Gb, when production was about 30 Gb: 10 times less and in 2021 the crude discovery was lower and crude oil production will decline



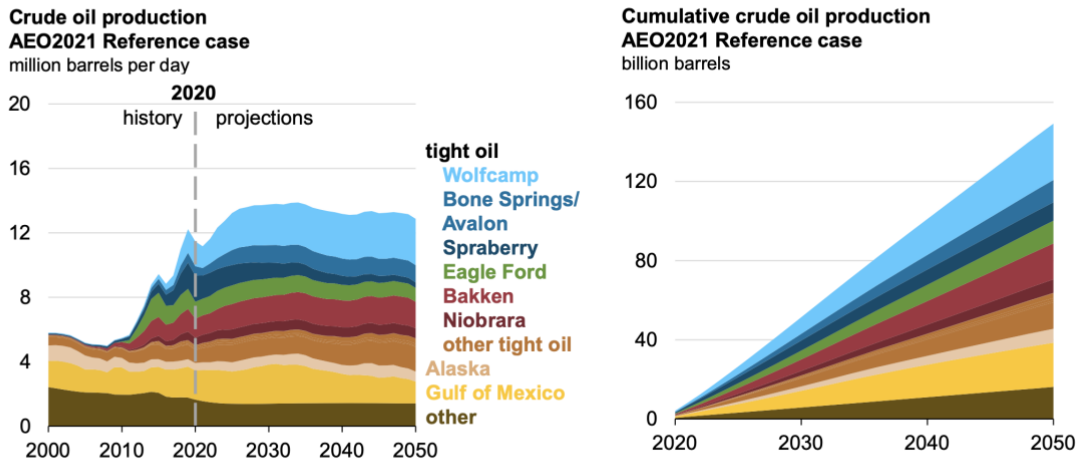
Only natural gas liquids will increase with a peak around 2050



In 2019 world NGL production was 18 Mb/d when LTO production was only 8 Mb/d US LTO production will decline sharply because the sweet spots are fully drilled (except Permian) and EIA forecast (AEO2021) of higher production (based only on more wells without bothering to check where) in 2050 is completely unrealistic! In 2050 US LTO production will be likely zero!



U.S. crude oil levels and cumulative production



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

www.eia.gov/aeo

5

Conclusion

It appears that Omicron contaminates more than Delta but kills less.

Pandemic will stop when everybody is contaminated or vaccinated: it appears to be close for India and Brazil.

Omicron will accelerate the herd immunity (85 %?) and looks today as good news.

Covid19 data is unreliable for cases (nonsystematic tests), doubtful for deaths (comorbidity).

Only excess mortality data is reliable.

Oil price fall in December by fear of Omicron was a wrong move and price recovery will continue.

It is likely that WTI will be well over 80 \$/b at the end of 2022, maybe over 100.

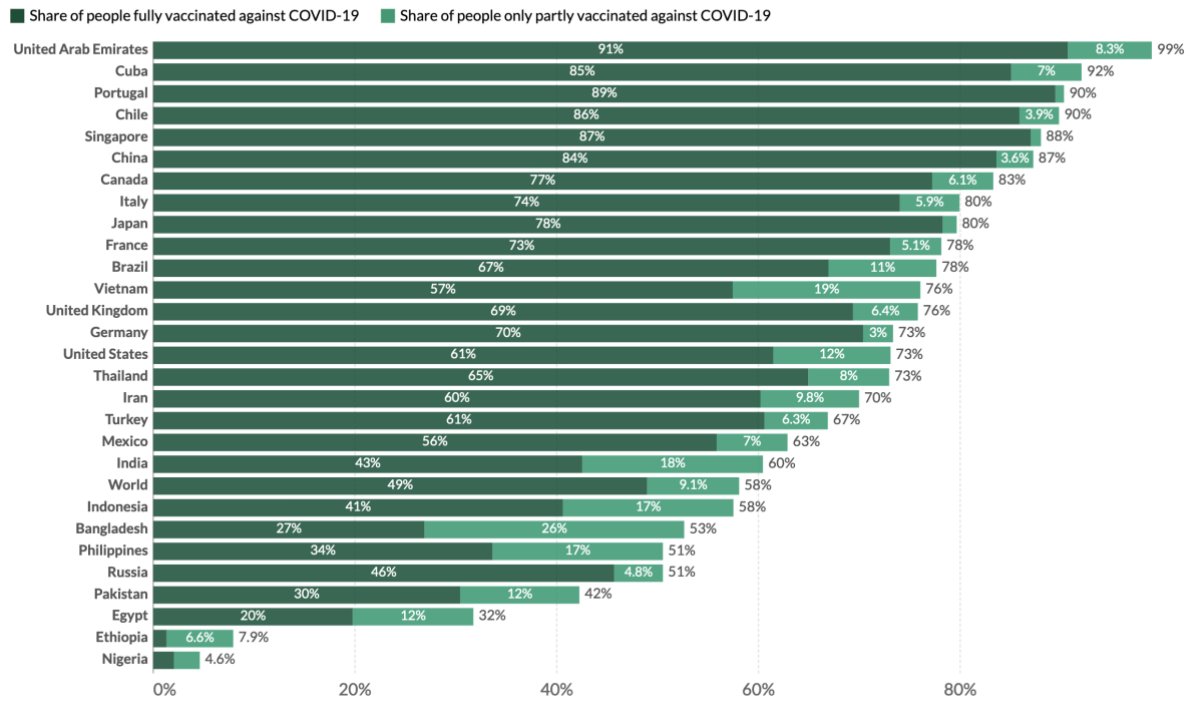
Inflation is back and it will not be transitory as the medias claim!

Annex

Vaccinations but Israel is missing on the Owid list!

Share of people vaccinated against COVID-19, Dec 29, 2021

Our World in Data



Source: Official data collated by Our World in Data
 Note: Alternative definitions of a full vaccination, e.g. having been infected with SARS-CoV-2 and having 1 dose of a 2-dose protocol, are ignored to maximize comparability between countries.

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taux de positivité en France avec total des tests montrant que cela n'est pas représentatif du pays, car trop variable avec l'actualité

COVIDTRACKER

