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@_CatintheHat

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EXCESS DEATHS... a thread 🧵

There have been 25,700 excess deaths in the UK so far this year (source: CMI).

That averages out at OVER 1,000 excess deaths a week.

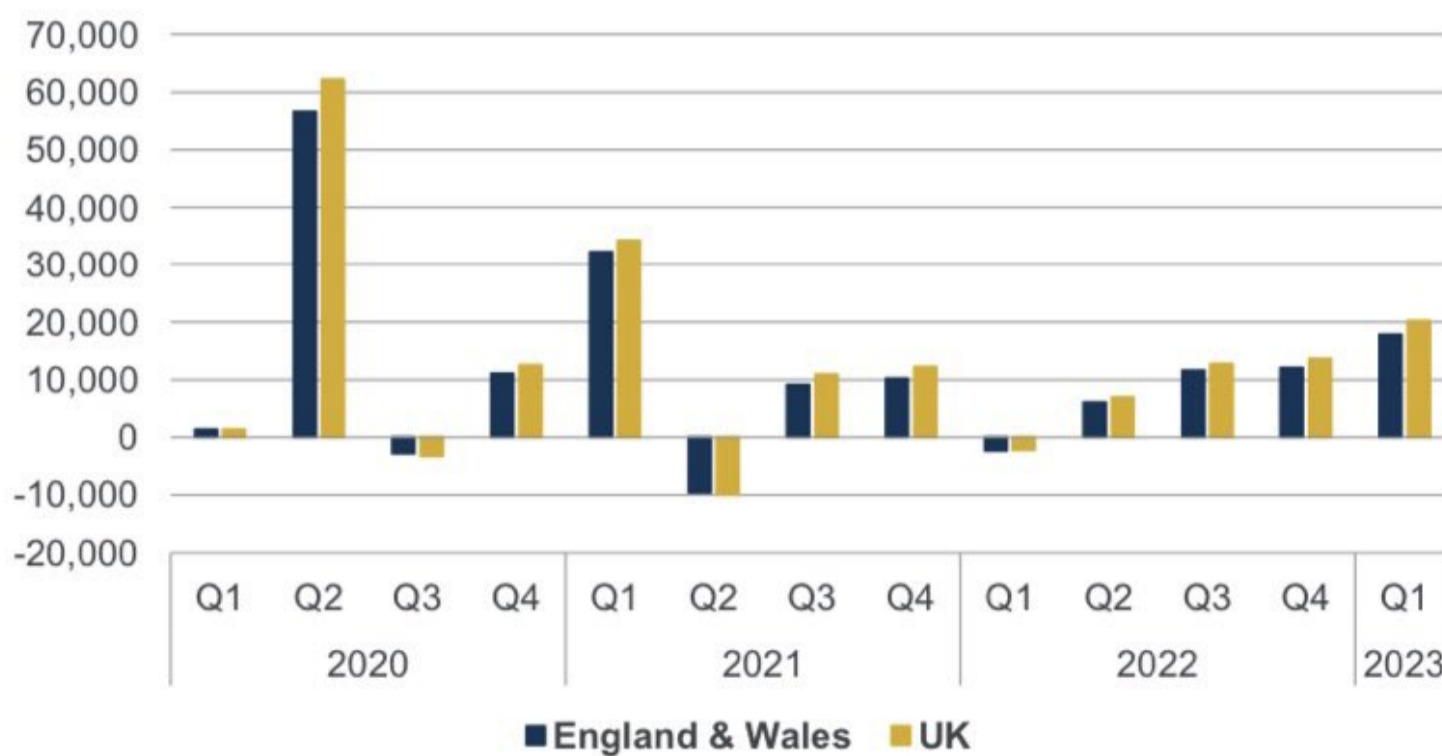
Now I hope you're sitting comfortably because I've been doing some digging & there's a lot more to this story...



Table 2: Cumulative excess deaths

	England & Wales	United Kingdom
From the start of the pandemic (29 Feb 2020 to 16 June 2023)	158,300	177,100
From week 1 of 2023 (31 Dec 2022 to 16 June 2023)	22,600	25,700

Chart 9: Quarterly excess deaths (from week 10 of 2020)



Note: Q2 2023 is not yet shown on this chart as we do not have data for the full quarter yet.

I want you to think back to that terrible time in mid-January 2021, when we were being hammered by the Alpha variant.

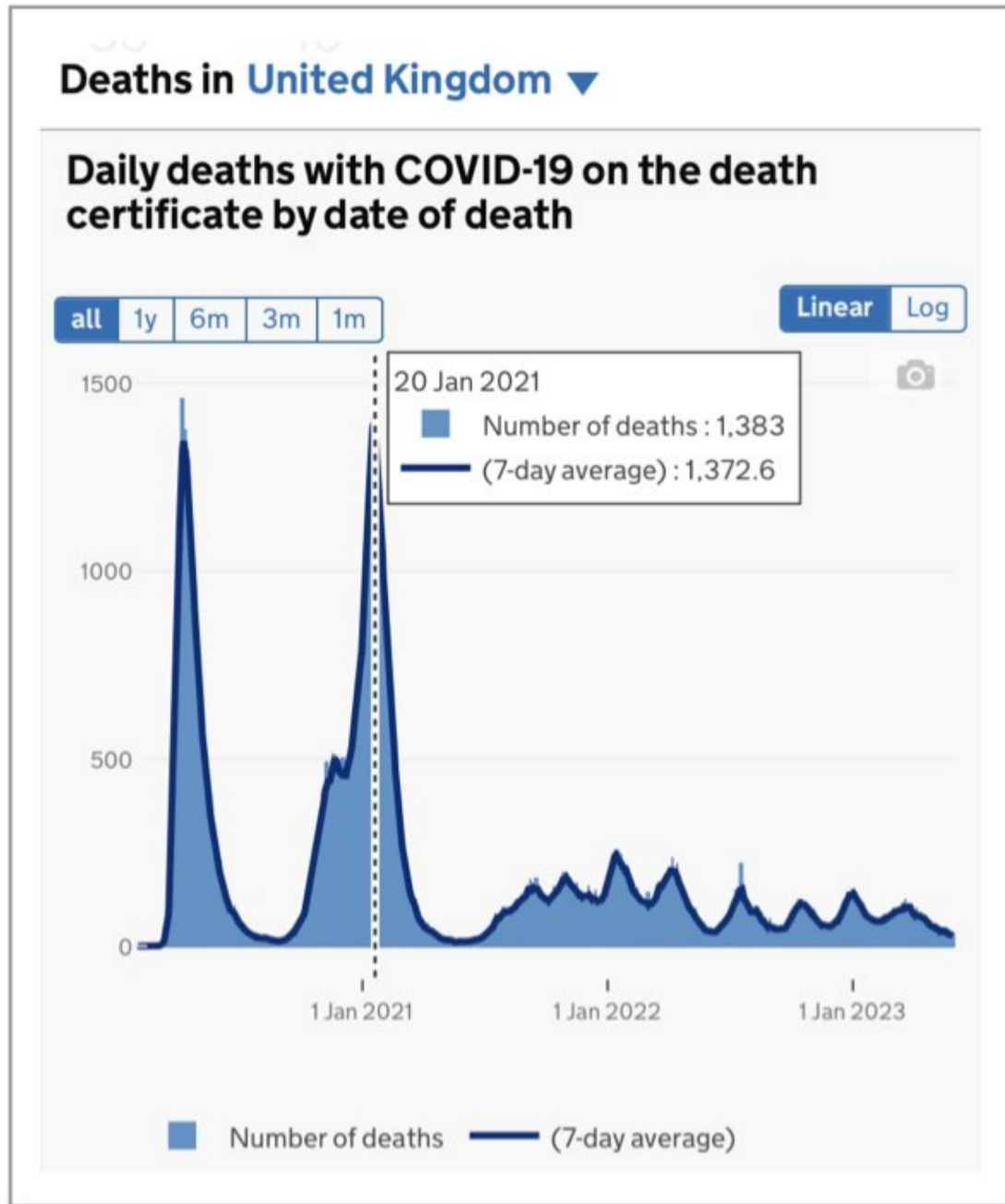
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Daily deaths reached a record peak which has never yet been surpassed.

<https://t.co/7dvI1BCS3mitv.com/news/2021-01-2...>

20 January 2021



itvX

Covid: Highest number of UK deaths reported on a single day since outbreak began

HEALTH | CORONAVIRUS
 Wednesday 20 January 2021 at 10:41pm

itvNEWS

• Video report by ITV News Political Correspondent Libby Wiener

A further 1,820 people have died within 28 days of testing positive for Covid-19 – the highest number of UK deaths reported on a single day since the coronavirus outbreak began.

It brings the total number of reported deaths linked to coronavirus in the UK to 93,290.



Highest number of Covid deaths reported on single day since outbreak began | ITV News

A further 1,820 people have died within 28 days of testing positive for Covid-19, according to the Government. | ITV National News

<https://www.itv.com/news/2021-01-20/covid-highest-number-of-uk-deaths-reported-on-a-single-day-since-the-outbreak-began>

But that's all behind us now, right?

Covid deaths have dropped way down since then.

The pandemic is over.

...or is it?

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I want you to take a good look at this chart 🙏

Pay particular attention to the thick black line (2023) & the solid green line (2021).

What do you notice?

Do you see it yet?

The cumulative mortality rate for the first half of this year is almost identical to the first half of 2021, when we'd just had that huge deadly Alpha wave.

Just take a moment to think about that for a second.

It's horrifying!

<https://t.co/ryD5khUPG9actuaries.org.uk/system/files/f...>

Death has become so normalised now, that it's not even newsworthy anymore.

No one talks about it.

But over 1,000 more people are quietly dying each week than we would expect.

Death rates are usually expected to fall over time, a trend which has held for 200 years.

Obviously 2020-22 saw far higher excess death rates due to Covid. 🙏

But rather than dropping back down to normal, 2023 (not shown on this chart) has shot up again, above the 2022 level.

The strange thing is, given the huge excess deaths during 2020-22, we should expect excess deaths to DROP in subsequent years since so many of the elderly and vulnerable people have already died, sooner than expected.

The rather grim term for this is 'mortality displacement'.

However, we are not yet seeing any sign of 'mortality displacement' kicking in.

Not even close!

Here's another chart showing weekly excess deaths in England (source: OHID).

It's clear we're still seeing high levels of excess deaths, week after week.

<https://t.co/bVvvAYSEhrapp.powerbi.com/view?r=eyJrIjo...>



<https://app.powerbi.com/view?r=eyJrIjojYmUwNmFhMjYtNGZhYS00NDk2LWFIMTAOTg0OGNhNmFiNGM0IiwidCI6ImVINGUxNDk5LTRhMzUtNGI...>

But if so many elderly & vulnerable have already died, how are we sustaining such high levels of excess death?

I wondered if perhaps the deaths might now be working their way down the age bands in order to maintain such high ongoing levels of excess?

Time to look for more data.

In the CMI Q1 Mortality Monitor for England & Wales, I found this chart which breaks down cumulative mortality by age.

What jumped out to me was that mortality rates for 20-44 year olds are extremely high this year.


Many of those will be parents.

<https://t.co/ZqBbV4inKX> actuarial.org.uk/system/files/f...

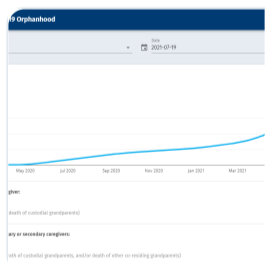
Imperial College have a Covid Orphanhood calculator.

The numbers are sobering.

Over 16,000 children in the U.K. have tragically lost one or both of their parents to Covid.

If you're not in the UK, you can look up the number for your own country here 

<https://t.co/IRmgJ4WcfU> imperialcollegelondon.github.io/orphanhood_cal...



COVID-19 Orphanhood Calculator

Global minimum estimates of children affected by COVID-19-associated orphanhood and deaths of caregivers

https://imperialcollegelondon.github.io/orphanhood_calculator/#/country/United%20Kingdom

How about the younger age groups?

There's no chart for under 20's in the CMI report, but I found more age-stratified data on the OHID dashboard.

Amongst 0-24 year olds in England, the excess deaths are considerably higher now compared to all earlier stages of the pandemic.

Sadly, this is not a surprise to me...

We already know that Covid now kills more children annually than any other vaccine preventable disease, including flu, measles, mumps, rubella & varicella.

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And child Covid hospitalisations have increased dramatically since Omicron arrived. <https://t.co/A39aG5CpC6>

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https://twitter.com/_catinthehat/status/1671086937921277952

It frustrates me immensely to hear the pandemic constantly referred to in the past tense.

When the ONS Infection Survey was axed back in March, infection rates were HIGHER than at the peak of Jan 2021...& on the rise again.

High infection rates have just become the new norm.

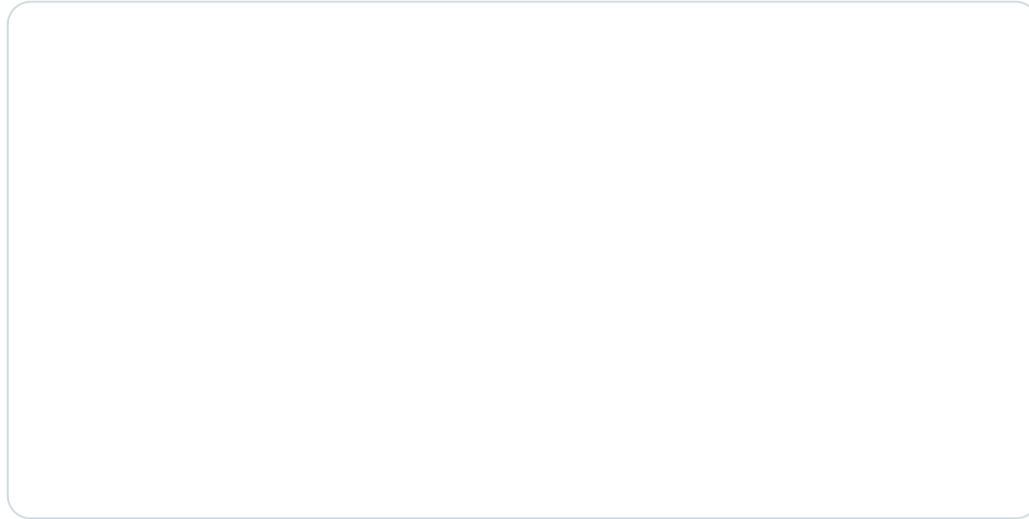
.@AdeleGroyer has done some additional analysis on the excess deaths reported by the CMI which shows that, since February this year (after the big flu spike in January), pretty much ALL of the excess mortality so far this year (in England & Wales) can be explained by Covid.

👉 <https://t.co/bp7rPweh0q>

Adele Groyer@AdeleGroyer · [Follow](#)

Troubling that there continues to be an excess but there is no non-Covid excess mortality this week.

The CMI has calculated that there was a large non-Covid excess in Jan 2023 (likely due to the flu spike). But since Feb, the cumulative excess mortality is explained by Covid.

**COVID-19 Actuaries Response Group** @COVID19actuary

The Continuous Mortality investigation (CMI) has published its weekly Mortality Monitor covering deaths to 26 May. Death rates this week were higher than the equivalent week in 2019. There were 322 more deaths, which is 3% more. 1/3

7:22 PM · Jun 6, 2023

[See the latest COVID-19 information on Twitter](#)[Read 14 replies](#)

The trend is also very clear from this OHID chart of England's excess mortality since the start of the pandemic. 🙄

- total deaths: 1,778,647 (10% higher than expected)

- excess deaths: 159,910


- deaths with Covid mentioned on the death certificate (🟡 on the chart): 192,833

And before the anti-vaxxers show up to try and blame the excess deaths on the jab, @jneill has been keeping a very close eye on the data...

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There is still **no** correlation between vaccinations & excess deaths.

But there **is** clear correlation between Covid & excess deaths.

 <https://t.co/B4rt5LcCVY>

James Neill - 🇺🇦 🇩🇪 🇮🇹 🇬🇧



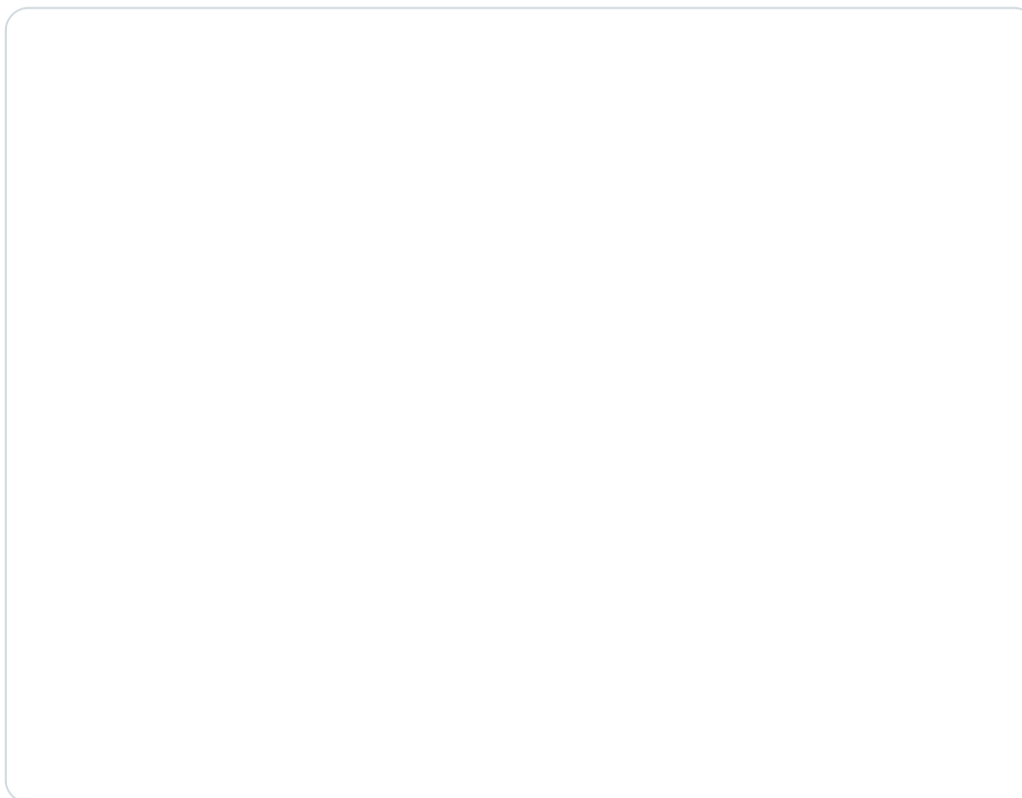
@jneill · Follow

UPDATE: Covid-19 vaccine doses vs all-cause excess deaths & Covid deaths, daily by date of occurrence

Jan 2020 - May 2023

Still NO correlation between vaccinations and excess deaths. But there *is* correlation between Covid and excess deaths.

Sources: ONS & UKHSA data



James Neill - 🇺🇦 🇩🇪 🇮🇹 🇬🇧 @jneill

UPDATE: Covid-19 vaccine doses vs all-cause excess deaths & Covid deaths, daily by date of occurrence

Jan 2020 - April 2023

Still NO correlation between vaccinations and excess deaths. But there *is* correlation between Covid and excess deaths.

Sources: ONS & UKHSA data



10:34 PM · Jun 26, 2023



👍 91

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Frustratingly, from now on, I fear the deaths data may become far more muddy in terms of the delineation between Covid & non-Covid deaths since all routine Covid testing in hospitals & care homes ended back in April 2023, even for patients/residents with obvious Covid symptoms. <https://t.co/EZEoZnCP9c>

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Replying to @_CatintheHat

THE EROSION OF COVID MITIGATIONS, PART 3 📖:

I'm adding on to the thread I wrote just 3 days ago as yet more shocking news has been revealed.

We'd already heard that Covid testing in hospitals was going to be scaled back, but I hadn't realised quite how far they'd go...

12:37 PM · Apr 2, 2023 ⓘ

♥ 82
⚡ See the latest COVID-19 information on Twitter

[Read 6 replies](#)

Of course, my hope is that doctors will continue to conduct Covid tests to inform clinical decisions...

However, since April, the amount of NHS Covid testing has plummeted, so I think it's reasonable to assume that at least some Covid deaths will be missed going forward. <https://t.co/I7V5hA4bgb>

Prognostic Chats

@PrognosticChats · [Follow](#)

Trump knew it, test less = less cases reported = less deaths recorded.
Most laughed. Now it's policy in a lot of countries. Testing scaled back. Data reporting stopping. Problem solved. Falling numbers will be celebrated by media & more. The clinical context will not be heard.

Watch on Twitter

2:34 AM · Jun 28, 2023 ⓘ

♥ 59
💬 Reply
🔗 Copy link

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A recent study found that people who caught Covid were 5 TIMES more likely to die from heart disease in the 18 months after infection.

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<https://t.co/jW6jROYa2o> <https://t.co/BywxraEvKn>bhf.org.uk/what-we-do/new...

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<https://twitter.com/sandyboots2020/status/1673266839135084545>



Nearly 100,000 more deaths involving heart conditions and stroke than usual since pandemic began

<https://bhf.org.uk/what-we-do/news-from-the-bhf/news-archive/2023/june/100000-excess-deaths-cardiovascular-disease>

As this BBC article acknowledges, it's very likely that at least some of the deaths which were (or will be) hastened by the after-effects of a Covid infection will **not** end up being linked to the virus when the death is registered.

<https://t.co/CryJiwC0jv>bbc.co.uk/news/health-64...



Excess deaths in 2022 among worst in 50 years

New figures show more than 650,000 people died in the UK last year.

<https://bbc.co.uk/news/health-64209221>

It's not just the heart though...

Covid can also damage your lungs, heart, brain, kidneys & basically every other organ of your body.

Even if it doesn't kill you, it can leave you with serious long-term health problems.

You just might not know it yet.

<https://t.co/xAIDSqSkn0>nature.com/articles/s4157...

And the risk of severe health outcomes increases with each successive reinfection.

Just because you've had Covid before and were fine, it doesn't mean you'll be fine next time.

You roll the dice every single time you get infected...

<https://t.co/nopexy2won>nature.com/articles/s4159

According to the CDC, around 1 in 5 adults now have a health condition that may be related to their previous Covid infection.

That's 20% of us!

And with each new infection, that % will just keep rising and rising...

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To those paying attention to the science and latest research, it’s clear we’re heading towards a tidal wave of chronic illness.

In fact, we’re seeing it already...

The number of adults in the U.K. who are off work due to long-term sickness just hit 2.55 million, a record high.

<https://t.co/XOw1KVV9kJ>

Resolution Foundation
@resfoundation · [Follow](#)

Replying to @resfoundation

Lastly, it's worth noting how the number of people out of work due to long-term sickness continues to rise, reaching a fresh record high of 2.55 million.

Tackling this issue will hold the key to further boosting the size of Britain's workforce.

11:32 AM · Jun 13, 2023

♥ 128
 💬 Reply
 🔗 Copy link

[Read 11 replies](#)

Back in February, the CDC added an update to its guidance for certifying ‘Deaths due to Covid’, making it clear that clinicians should bear in mind that Covid “can have lasting effects on nearly every organ of the body for weeks, months & potentially years after infection.”



This phenomenon of delayed deaths from post-infection sequelae is not new.

We also saw it following the 1918 flu pandemic, as this Australian data shows.

Just as deaths from most other causes plummeted due to medical advances, deaths from heart disease exploded after 1918.

<https://t.co/vzNmyg0dPT>

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<https://twitter.com/ragesheen/status/1649523761140604928>

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I also want to talk about the methodologies for calculating excess deaths.

The UK data I've used so far in this thread is from CMI & OHID who both use pre-pandemic death rates as their baseline.


On the other hand, ONS now include 2021 & 2022 in their 5-year average baseline.

The Office for Statistics Regulation recently reviewed ONS's methodology and recommended that ONS should "review its methods & approach to ensure its statistics are fit for purpose".

The methodologies used by ONS, OHID & CMI are outlined below:



<https://t.co/Z4jwvl4FZ7> osr.statisticsauthority.gov.uk/publication/os...

	<p>OSR's review of excess deaths reporting OSR's review of excess deaths reporting https://osr.statisticsauthority.gov.uk/publication/osrs-review-of-excess-deaths-reporting/</p>
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By baking these high pandemic-year death figures into the baseline, the concern is that ONS is magically decreasing the excess mortality calculation... ✂️

...so now the high rates of excess deaths just become the new norm.

The thread below from @RPLerias explains more.



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<https://twitter.com/rplerias/status/1657064263578427392>


Please don't stop reading here... there's still more to the story.

Click "Show replies" to see rest of the thread.



Instead of using excess deaths during 2021/22 to set a new baseline of *higher* expected deaths, maybe it would be more appropriate to use the number of 'deaths brought forward' to *reduce* the baseline?

According to experts, this would be tricky, but it's food for thought... 🤔 <https://t.co/KV051aujSM>

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Replying to @VictimOfMaths @AdeleGroyer and @Jean__Fisch
Ok, so this is where it gets really interesting!

Are you suggesting that, rather than using the excess deaths during pandemic years to set a new baseline of **higher** expected deaths, we should actually be using the number of 'deaths brought forward' to **reduce** the baseline?

12:38 PM · Jun 11, 2023

👍 6 ⚡ See the latest COVID-19 information on Twitter

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It's worth noting that, even **with** 2021 & 2022 baked into ONS's 5-year average baseline, they're still reporting an 8% increase in excess deaths so far this year.

Excess deaths were 10.4% above the 5-year average in the latest week (w/e 16 June) - that's 1,008 more deaths.

<https://t.co/D0CXmVSMrN>

Office for National Statistics (ONS) 🇬🇧
@ONS · [Follow](#)

10,700 deaths were registered in England and Wales in the week ending 16 June 2023 (Week 24).

This was 10.4% above the five-year average (1,008 more deaths).

[👉 ons.gov.uk/peoplepopulati...](https://ons.gov.uk/peoplepopulati...)

10:31 AM · Jun 27, 2023

👍 256 💬 Reply 🔗 Copy link

[Read 46 replies](#)

We know that discussions took place early on in the pandemic about what the government considered to be an “acceptable” level of excess death.

Apparently they settled on a figure of 1,000 weekly deaths.

Clearly this level is still deemed “acceptable”.

<https://t.co/a8etEM6Igrinews.co.uk/news/boris-joh...>



Boris Johnson 'privately accepts' up to 50,000 annual Covid deaths as acceptable, advisers say

i understands Downing Street will consider a cost-benefit analysis on both saving lives and effect of deaths on the UK economy before implementing contingency plans for further lockdowns

<https://inews.co.uk/news/boris-johnson-privately-accepts-up-to-50000-annual-covid-deaths-as-an-acceptable-level-1170069>

This situation with continuing high levels of excess deaths is not unique to the UK.

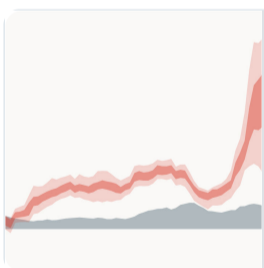
Around the world, we are now seeing sharp drops in life expectancy.



The Economist has recently published the results of their model for estimating global Covid deaths using excess death figures.

The official number of Covid deaths globally is 6.9m, but their model suggests the true toll is 23.9 MILLION, 3.4 times higher.

<https://t.co/esm99cJl9ueconomist.com/graphic-detail...>



The pandemic's true death toll

Our daily estimate of excess deaths around the world

<https://www.economist.com/graphic-detail/coronavirus-excess-deaths-estimates>

This chart showing excess mortality rates around the world is fascinating!

Countries are sorted by the total excess mortality as % of the baseline.

Interestingly, excess deaths are typically highest in countries that either did not vaccinate or vaccinated late.

<https://t.co/OVJKbLhl5K>

Adele Groyer
@AdeleGroyer · [Follow](#)

Replying to @piersmorgan

RK Jnr's stats certainly don't bear any relation to verified stats. Excess deaths are highest in countries that did not vaccinate / vaccinated late.

see: github.com/dkobak/excess-...

11:53 PM · Apr 29, 2023

16 ❤️ ⚡ See the latest COVID-19 information on Twitter


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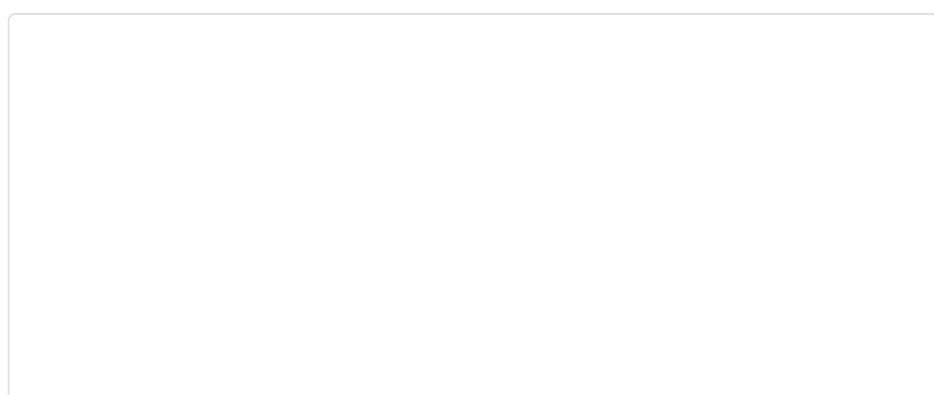
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More from @_CatintheHat



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@_CatintheHat

Jun 29

A shocking chart has been doing the rounds today showing that teacher absences in England rose by 50% in 2021/22 compared to 2015. Some may look at the time period & think: “That was LAST year. It’s different now.” But what if I told you that figure had now RISEN BY 110%! 📊 <https://t.co/x1E2JzWyCg>

A report from Arbor Education showed that: 📊📌 Sickness absence for teachers soared by a massive 110% in the Autumn term 2022 compared to the pre-pandemic Autumn term 2019! 📌 That term,

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@_CatintheHat

Jun 20

SCHOOL ATTENDANCE... a thread 📊 As the end of the Summer Term approaches, here’s a quick summary of the current situation with pupil attendance in schools. Academic year to date (up to 26 May 2023): 📌 Overall absence: 7.5% 📌 Persistent absence: 22.1% ...e-education-statistics.service.gov.uk/find-statistic...

As the chart shows, the vast majority of pupil absences this academic year have been due to illness, with a particularly high

Read 14 tweets



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@_CatintheHat

Jun 20

JCVI: FACT or FICTION... a thread 📊 I was just looking through the UK JCVI Minutes from the meeting held in May 2021. There are so many flawed arguments here that it deserves a special ‘Cat in the Hat’ thread to unpack them all. 📌 app.box.com/s/iddfb4ppwgmt... (h/t @non_jenkins)

JCVI STATEMENT #1: “Children rarely develop severe disease or die of COVID-19.” FACT: We now know that Covid is the number one cause of death in children from infectious or respiratory

Read 28 tweets



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@_CatintheHat

Jun 13

COVID & the BRAIN... a thread 📊 Almost every week, a new study is published proving the undisputed harm that Covid causes to our vital organs. This latest study shows how Covid can cause our brain cells to fuse together causing cognitive impairment. 📌 science.org/doi/10.1126/sc...

As Professor Yazi Ke explains: “When Covid infects our brains, the brain cells start fusing together into these giant multi-cellular structures and that causes a lot of brain functions not to happen. “In different individuals, the virus can affect different parts of the

Read 30 tweets



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@_CatintheHat

Apr 28

THREAD ABOUT CLEAN AIR IN SCHOOLS 📊 In a small piece of good news, the DfE have published a brand new webpage this week, consolidating all the advice and guidance about ventilation, filtration & CO2 monitoring in schools:



Cat in the Hat 🐱🎩🇬🇧
@_CatintheHat

Apr 15

I imagine some rather awkward discussions are taking place in Downing Street right now... @RishiSunak @UKHSA @SteveBarclay @SRileyIDD

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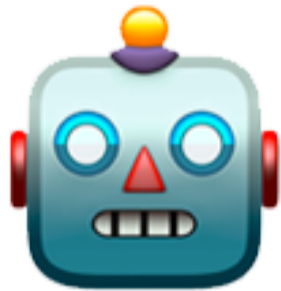
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Most of the information that this new webpage links to is pre-existing material, but it's all been updated and refreshed, so someone is clearly working on this behind the scenes (thank you

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Once again, newspapers in the UK are filled with stories about a new Covid variant that's suddenly causing cases to surge at a very rapid rate in India: This is XBB.1.16, also known as 'Arcturus'...

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