\leftarrow **Thread**



Dr Satoshi Akima FRACP 『秋間聰』 🕏



@ToshiAkima

I agree wholeheartedly with the criticism of the way the Conly Cochrane meta-analysis dismissive of masks has been conducted. But—sorry, team—I need to add some wee quibbles from a philosophy of science perspective.



theconversation.com

Yes, masks reduce the risk of spreading COVID, despite a review saying they ... An updated Cochrane Review suggests face masks don't reduce the spread of COVID in the community. But there are several reasons why this conclusion i...

6:21 AM · Feb 7, 2023 · 293K Views



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Tweet your reply

Reply



Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 Replying to @ToshiAkima

The biggest shortcoming of RCTs of respirators is this: where direct mechanistic evidence retains predictive validity, this is the preferred form of scientific evidence. The invalidity of direct mechanistic modelling needs to be proven before falling back on RCTs.



Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 · · · · Look at the key occupational PPE worn by this soldier: tactical respirator, helmet, body armour. None are tested by RCT. Some non-clinicians sitting in an office demand RCTs before the *same gear* can be issued to HCW before going into battle against COVID.

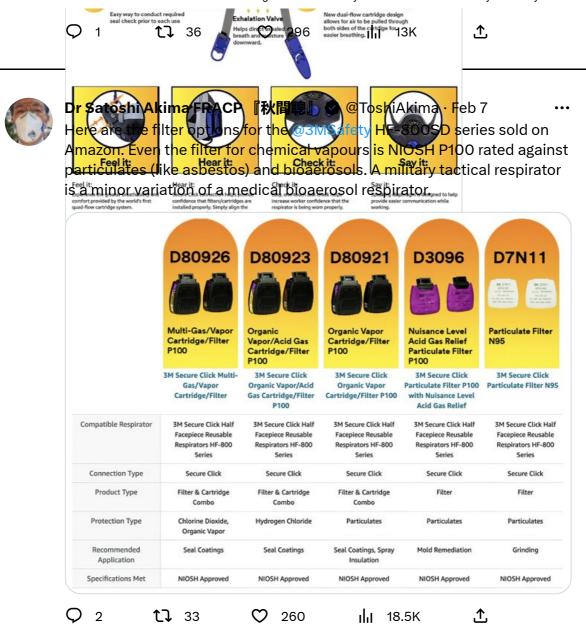


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Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 · · · Let's look at the filtration component of a military tactical respirator. It protects against the inhalation of hazardous gasses and bioaerosols in chemical and biological warfare. Here is a 3M HF-800 half-mask, which can do much the same thing.

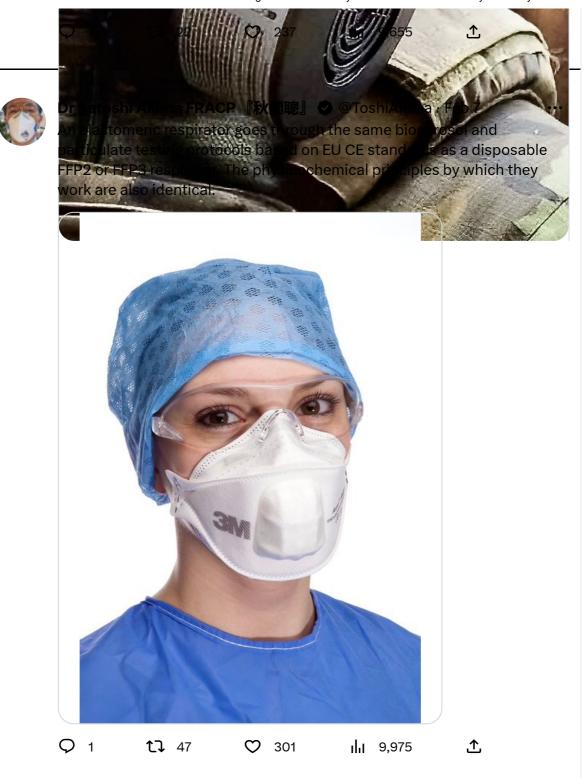






Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 ···· Let's take a closer look at that military tactical respirator. You can make out faint EU CE certification markings, probably similar (if not the exact same) CE markings as those conferred to non-military elastomerics.







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Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7

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Or are we to believe that the toxic vapour filtration (for chemical warfare) and the bioaerosol filtration (for biological warfare) of the *same* NIOSH/CE certified filter should be tested by different standards? One by direct mechanistic testing, the other by clinical RCT?



Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7

As with crash-testing helmets, there is no reason that laboratory testing of respirators does not accurately predict outcomes in the real world.

Because evidence gained from direct mechanistic modelling retains predictive validity for the real world.

VIRGINIA TECH...
HELMET RATING



helmet.beam.vt.edu

Virginia Tech Helmet Ratings

Virginia Tech Helmet Ratings - testing sport helmets to evaluate their ability to reduce brain injury risk.

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Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 ··· Bioaerosols behave according to the predictive laws of physics. Inlaboratory direct mechanistic testing of a respirator can be demonstrated to be predictive of protection against airborne bioaerosols. It is unethical to subject wearers to live RCT testing in biowarfare.



Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7

Testing in real-world RCT settings is more likely to introduce confounding from compliance and deployment training issues. If soldiers died before donning respirators in a Novichok attack in Ukraine, would you declare surgical masks just as effective as tactical respirators?

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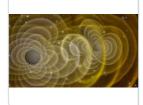


The likes of Conly are useless academics who sit in an office trying to get us frontline HCWs killed and injured by hindering universal access to correct PPE. They have blood on their hands. Thousands of HCWs have suffered from such incompetence. ••

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Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 · · · The majority of science is done by predictive corroborative testing of direct mechanistic modelling without RCTs. For example, Einstein's general theory of relativity predicted gravity waves which took decades before they were definitively confirmed.



ligo.caltech.edu What are Gravitational Waves? A description of gravitational waves

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Dr Satoshi Akima FRACP 『秋間聰』 ② @ToshiAkima · Feb 7 ··· Medicine is the black sheep of science, as predictive modelling of drug efficacy is not yet valid. We can't design drugs with direct mechanistic modelling like engineers design bridges. We are reduced to primitive trial-and-error empiricism to see if a drug kills or cures.



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Devabhaktuni "Sri" Srikrishna ❖ @sri_srikrishna · Feb 8 ··· Replying to @ToshiAkima

The RCT vs "everything else" debate seems to go long back many years at least



raps.org

Former CDC Director: Medicine Should Look Beyond Randomized C... In an article in the New England Journal of Medicine on Thursday, former director of the US Centers for Disease Control and Preventio...

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Dr Satoshi Akima FRACP 『秋間聰』 **②** @ToshiAkima · Feb 8 Replying to @sri_srikrishna

Note Vinay quote! Once personalised medicine gets underway, it will make more RCTs difficult as medicine becomes more molecular—and mechanistic, like engineering. Vinay senses that and is digging his heels in as an RCT dogmatist.

Show replies



Replying to @ToshiAkima

totally agree!

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Rusian Troll. Online Account. @TrollRusian · Feb 9

Replying to @ToshiAkima

Ah, the Sour Grapes of Epistemology, wherein "evidence-based" medicine proponents, jealous of other fields of "harder" sciences, insist on dragging the practice of those other fields back into the morass of double-blind empiricism they themselves are unable to clamber out of.

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Vinay Kishore @vinay_kishore · Feb 7 Replying to @ToshiAkima

@threadreaderapp unroll

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betcha if it was raining asbestos, Conly would be wearing a respirator

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 $\textbf{holiday vibes} @ needs_holiday \cdot Feb \ 8$

Replying to @ToshiAkima

If success of mask wearing is dependent on the effort of the person wearing it, they should not be dismissed or discouraged. Whats the agenda of any medical professional dismissing masks – i only see well when i wear my glasses properly. Same goes for seat belts

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Don Ford - The People's Strategist - @DonEford · Feb 14

Replying to @ToshiAkima

RCTs are strictly for treatments.

Masks are not treatments.

The end.

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never ever @4__mula · Feb 7 Replying to @ToshiAkima

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🕘 😈 Jennifer Cooper 😈 👛 😁 💉 🦉 @ReJennerating · Feb 7 Replying to @ToshiAkima

Excellent. Thank you. RCT have a place when mechanistic studies are not possible. Time for medicine to wake up to this distinction.

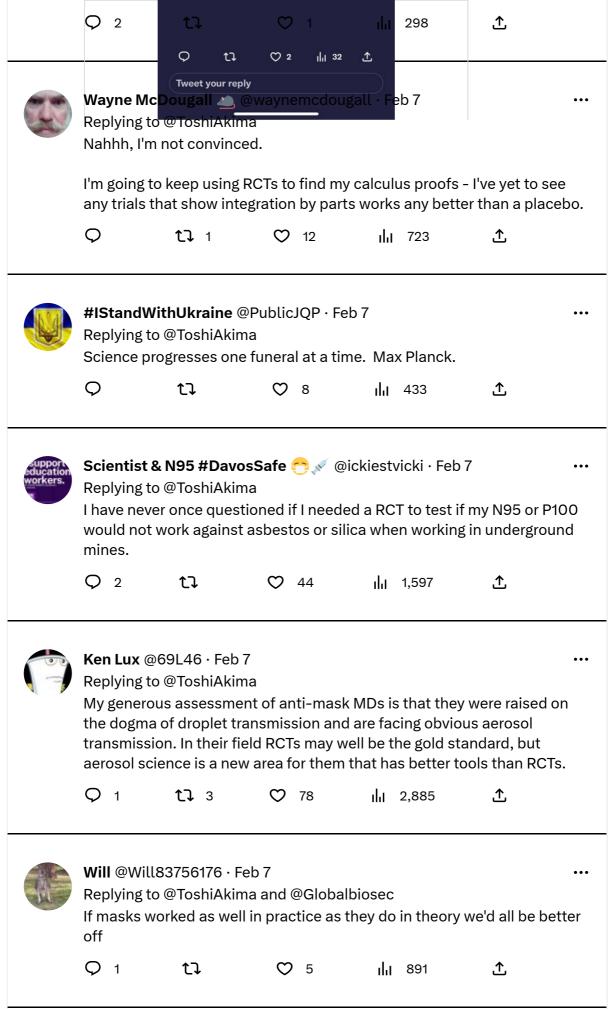
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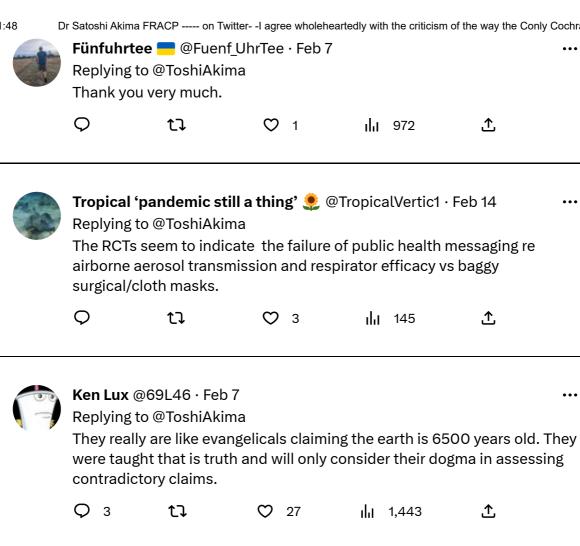


Marie @MazP1976 · Feb 7 Replying to @ToshiAkima and @DFisman









Joe Duarte 🌉 @ValidScience · Feb 7

Replying to @ToshiAkima

The variable is COVID spread or infection risk, not droplets or mechanistic outcomes. That's a big mistake to make. Arbitrary reductions in pathogen population don't necessarily reduce infection risk – you have to find out, scientifically.

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yehuda harmor @fluffylucy · Feb 15

Replying to @ToshiAkima and @Ckanned

I read the review and realised it was a review of masking policy implementations not of masks themselves. That so many conflate the two, is disappointing, to say the least.

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AlleBurgers @AlleBurgers · Feb 15 Replying to @ToshiAkima and @karamballes Great analysis.

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wes george @wesgeorge8 · Feb 8

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Replying to @ToshiAkima

My own anecdotal experience with masking is that the public will wear poor quality masks or improperly fit masks in high percentages.

Also, workers over use of masks can cause unintended health consequences. Maybe limit masks to special risk situations is best?

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Ken Lux @69L46 · Feb 7

Replying to @ToshiAkima

My less generous assessment is that they think that they are smarter than all these heretical engineers/scientists who are talking about aerosol transmission.

So they try to use RCTs to disprove respirator benefits although RCTs obscure the effects they claim to measure.

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John Kriby @johnkriby1 · Feb 8

Replying to @ToshiAkima

Part of the problem may be the idea that masks are a "medical intervention."

Are seatbelts and bicycle helmets medical interventions? Most would say 'no'. But then neither are masks. They are all external safety devices.

Myth #1 here is about RCTs...



ncbi.nlm.nih.gov

Six Persistent Research Misconceptions Scientific knowledge changes rapidly, but the concepts and methods of the conduct of researc...

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Johannes Johansson #NAFO 🏣 ⊑ 😁 迟 @Ethereal_PhD · Feb 7

Replying to @ToshiAkima and @1goodtern

Sad to see the article still misinterpret the Bangladesh study. It showed that increasing mask usage from 13 to 42 % reduced transmission by 11 % ,

Dr Satoshi Akima FRACP ---- on Twitter- -I agree wholeheartedly with the criticism of the way the Conly Cochrane meta-ana...

so a more realistic estimate of mask effectiveness, as imperfectly used, would be 11 % * 100/(42-13) = 38 %.

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CivillyDisobedient.us @DisobeyCivilly · Feb 7

Replying to @ToshiAkima

So no, masks don't work. Respirators may work. The study isn't incorrect.

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FriendlyinaFoxhole @viaFoxholecourt · Feb 7

Replying to @ToshiAkima

You are correct however the issue lies in the denial by Conley and other public health officials that Covid is airborne. No one denies HCW N95 masks for TB because they don't deny it's airborne. This is the crux of the problem with IPAC

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Dr. Lynn Fynn-derella € @Fynnderella1 · Feb 8 Replying to @ToshiAkima and @DFisman No they don't.



🚱 Dr. Lynn Fynn-derella 💓 @Fynnderella1 · Jan 31

- 1) Masking was a non-starter! To the argument "Why do Drs. use them in surgery?" It's just to keep particulate out of wound field- nothing else!
- Ritter et al., in 1975, found that "the wearing of a surgical face mask had no effect upon the overall operating room

Show this thread

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doesnotcompute @doescomputing · Feb 8

Replying to @ToshiAkima

This is a huge red herring...

- 1) You're talking about respirators, not masks
- 2) You're talking about individual usage, not community transmission from mandates.

Nothing you presented refutes the conclusions. =



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Mark Johnson @MarkJohnsonTw · Feb 8

Replying to @ToshiAkima

Some wee quibbles with your analysis

- * general societal masking does not work against Covid
- * industrial workers military wear masks respirators because the hazard area is limited and known. Covid is everywhere people don't wear masks all the time
- * cloth surgical mask useless



🧝 lan Miller 🕏 @ianmSC · Dec 3, 2021

Cases in South Korea are 305% higher than last winter's peak, despite consistent 99% mask compliance and over 80% of their population vaccinated, but the good news is they're going to start vaccine passports, because governments are addicted to doing what's already failed

