## 1AC—Framing

### FW

#### The standard is maximizing expected wellbeing.

#### Prefer it:

#### 1] Actor specificity:

#### A] Aggregation – every policy benefits some and harms others, which also means side constraints freeze action.

#### B] No act-omission distinction – choosing to omit is an act itself – governments decide not to act which means being presented with the aff creates a choice between two actions, neither of which is an omission

#### C] No intent-foresight distinction – If we foresee a consequence, then it becomes part of our deliberation which makes it intrinsic to our action since we intend it to happen

#### 2] Lexical pre-requisite: threats to bodily security preclude the ability for moral actors to effectively act upon other moral theories since they are in a constant state of crisis that inhibits the ideal moral conditions which other theories presuppose

#### 3] Only consequentialism explains degrees of wrongness—if I break a promise to meet up for lunch, that is not as bad as breaking a promise to take a dying person to the hospital. Only the consequences of breaking the promise explain why the second one is much worse than the first. Intuitions outweigh—they’re the foundational basis for any argument and theories that contradict our intuitions are most likely false even if we can’t deductively determine why.

### 1AC Core

#### Plan: In a democracy, a free press ought to prioritize objectivity over advocacy when reporting on vaccines.

#### Objective journalism is not blind transcription but rather necessitates a commitment to the facts that solves misinformation.

Alan Sunderland, 9-9-2015, [Alan Sunderland is the ABC's head of editorial policy, having previously worked as the head of policy and staff development with ABC News. A journalist for 32 years, he began as an ABC cadet in 1979 before spending more than 20 years as an on-the-road reporter with the ABC and SBS. His experience includes five years as political editor with SBS in Canberra, and two Walkley Awards for news reporting. He returned to the ABC, and to news management, in 2005.], "Objective reporting: It has never been more necessary," ABC News, <https://www.abc.net.au/news/2015-09-10/sunderland-objective-reporting-has-never-been-more-necessary/6764320> //SLC PK

I very rarely disagree with my esteemed former colleague Jonathan Holmes ([Objective reporting: It's a thing of the past](http://www.theage.com.au/comment/the-objective-middle-ground-is-death-for-modern-media-20150907-gjhamh.html)) on matters of journalism, but it's time to speak up for the endangered and misunderstood discipline of objective reporting.

On one matter, Jonathan is absolutely right. The notion of objective reporting is seen by many as out of fashion and out of date. Fine in theory, but in the real world it is either impossible to achieve or 'too bloody dull'.

It is often parodied as a recitation of facts devoid of context or colour, leading to 'he said/she said' stories that list the views of the usual suspects on a topic but leave the reader, listener or viewer none the wiser about who's right and who's wrong. The reporter responsible for such stories is employing the 'view from nowhere', pretending they neither know nor care about the matters they are reciting.

That is certainly a problem, and we see plenty of examples of it. But that's not objective journalism, that's just bad journalism. Anyone who simply collects facts and sets them down is not a reporter. That's not journalism, it's stenography.

It has always been the case that reporters need to sift through facts, weigh them up, make editorial judgements about their relative strength and importance, and then present them in a way that illuminates the truth of a matter. It's not called 'editorial' content for nothing.

This process of making editorial judgements about facts is fundamental to great journalism. It explains why a program like Four Corners can expose what is going on inside the greyhound racing industry or 7-11 stores without in any way compromising its commitment to objective journalism. Or why 7.30 can deliver a series of stories exposing underpayment and exploitation of postal workers. The journalism is passionate, compelling and influential. It also happens to be in the best tradition of objective journalism.

It doesn't involve abandoning a commitment to impartiality and following your own whims and preoccupations. Nor does it involve handing out undigested facts by the truckload and leaving a bewildered audience to try and make sense of it.

What it does involve is gathering information without fear or favour, weighing and assessing that information and then reaching a conclusion based on the evidence. It involves a conscious and disciplined process where the evidence is not misrepresented or suppressed if it doesn't suit a preconceived opinion. A process where the reporter examines and challenges his or her own assumptions and blind spots as well as everyone else's.

Conclusions arrived at using this process are all the stronger for it. The passion and purpose that drives good journalism comes from the facts and not from rhetoric, spin or sophistry.

The key here is what tools a reporter uses in this process of weighing the evidence. You can rely on your own prejudices and preconceptions, picking the facts that support your opinion and ignoring the ones that don't. Or you can try to set aside your own views and instead be led by the facts, by what you uncover as you turn over an issue and examine all sides.

I say 'try' deliberately, as this kind of work is hard. Being objective as a reporter is not a state of perfection like sainthood or barracking for Richmond. It is a discipline. Like so many important skills, it takes constant practice and can always be improved. At the ABC we are committed to this discipline, and we are always looking for ways to reflect on it and improve it. But at its best it means that the passion and power of what we produce is driven by the facts we uncover, not by the personal views we hold.

After all, we expect scientists to examine the evidence on issues like climate change or cancer research, and reach conclusions based on rigorous and professional judgements rather than their opinions or their hunches. We expect a similar objectivity from our judicial system, from our police and from many other professionals who serve the public. I haven't heard too many calls for us to accept, for example, that judges will always have their own views on matters and so they might as well just decide cases based on their own opinions rather than the evidence. We know they are fallible human beings like the rest of us, but we ask them to do their best to set their views aside and do their job.

We should ask no less of reporters. It is difficult and we should continue to expect failures along the way. But in this information rich, connected world, it has never been more important. We are assailed on all sides by information presented to us by those with hidden agendas, causes to push and products to sell. To wade into the ocean of digital information these days is to feel manipulated, pressured and overwhelmed by 'facts' that have been twisted and misrepresented to suit someone else's opinion. What we need are at least some people who are trying to cut through the manipulation and the spin and let the facts do the talking.

If media organisations need to stand for something, that'll do for me.

#### Specifically in the context of COVID—debunking alternative facts and providing balanced preemptive and reactive analysis solves.

Stephan Lewandowsky and Philipp Schmid, 10-22-2021, [Stephan Lewandowsky is the Chair in Cognitive Science at the University of Bristol. Philipp Schmid is a psychologist and postdoctoral researcher at the University of Erfurt, Germany], “How to fight COVID vaccine misinformation?, ”How to fight COVID vaccine misinformation?”, Al Jazeera, <https://www.aljazeera.com/opinions/2021/10/22/fighting-vaccine-misinformation> //SLC PK

Opposition to vaccination is as old as vaccination itself. Although vaccines save five lives every minute, and even though 85 percent of children worldwide are vaccinated against diphtheria, tetanus, and whooping cough, some people are resisting the life-saving shots. A range of factors contribute to vaccine opposition – from fear of needles or side effects to conspiracy theories involving governments or the pharmaceutical industry.

Although anti-vaccination activists ultimately have never prevailed, when they find a temporary foothold in a society, vaccination rates can decline, and preventable illnesses increase.

The COVID-19 pandemic illustrates everything we know about vaccines and opposition to vaccines. The development of safe COVID-19 vaccines has provided us with the tools to combat the pandemic, and with 6.5 billion doses already administered, and more being administered at the rate of 22 million per day, there is light at the end of a dark tunnel.

On the other side of the ledger, the pandemic not only caused the death of millions, but it also created a toxic legacy of misinformation and conspiracy theories that has mobilised opposition to vaccinations. This is unsurprising based on what we know about human behaviour. When people suffer a loss of control over their lives or feel threatened, they invariably become more vulnerable to believing conspiracies. And if there is one thing a pandemic is good at, it is to create fear and loss of control.

Although this opposition has not prevented many countries from reaching very high vaccine uptake – for example in Spain, nearly 80 percent of the population has been fully vaccinated, with Italy and France not far behind – it cannot be ignored because anti-vaccination activists are increasingly resorting to intimidation and threats of violence against healthcare personnel. In the United Kingdom, police are now protecting some mobile vaccination stations, and in Germany, a man attacked healthcare workers because they refused to issue him a vaccination certificate without giving him the shot.

In the United States, attitudes towards vaccinations have become so politicised, with several Republican leaders voicing opposition to vaccines, that there is now a striking gap in uptake between states depending on which way they vote. States that lean towards the Democrats have high uptake, with Massachusetts and Vermont topping at 78 percent, whereas those that lean Republican lag behind, with West Virginia bringing up the rear at 48 percent. Perhaps most concerning, there are growing signs that American anti-vaccination campaigners have joined forces with the extreme right and other conspiracy theorists.

Given the obvious risk to public health posed by anti-vaccination movements, what can communicators and politicians do to respond?

First, leadership matters. When deciding about a complex issue like vaccination, laypeople generally rely on advice from trusted opinion leaders, which may be experts, media personalities or politicians. However, when issues become politically polarised, the question of whom to trust may become a matter of partisanship rather than expertise. In fact, evidence shows that the willingness to get vaccinated against COVID-19 among Republicans varies as a function of who recommends getting vaccinated – Donald Trump or Joe Biden. Thus, it is crucial that opinion leaders understand their effect on individuals’ health decision-making and put public health before partisan divide. It is therefore important that some Republicans speak out in favour of vaccination.

Nonetheless, even when leaders issue clear messages, some individuals will carry on with publicly questioning the effectiveness and safety of vaccinations, almost inevitably by spreading information that is outright false or highly misleading. The messages of these science deniers do the most damage when left uncorrected.

Fortunately, research shows that the effect of messages of science deniers can be mitigated by providing fact-based corrections or by unmasking logical flaws. The recent Debunking Handbook provides hands-on advice for practitioners on how to structure debunkings and write promising corrections. The importance of debunking has been recognised by various health authorities around the globe. For example, the World Health Organization debunks emerging myths surrounding COVID-19 on its website and through its social media channels as part of its Myth Busters initiative.

Reactive approaches like debunking can only be one building block in the fight against misinformation. In analogy to fighting a virus, policymakers should not rely on treatments alone but should invest in prevention measures: psychological vaccines against misinformation exist that warn individuals about the threat of disinformation and provide people with strong counterarguments.

In numerous experiments, those psychological vaccines have been shown to build up resistance to misinformation. Psychological vaccines have been developed in the form of simple text-based warnings or short videos, as well as appealing online games. For example, the free-to-play Go Viral! game confronts players with myths surrounding COVID-19 in a playful manner and thus prepares players for real dangers.

Psychological vaccines are crucial as a prevention measure.

Unfortunately, these approaches have not been implemented on a wide scale at the beginning of the pandemic. Therefore, to minimise damage, it is sometimes necessary to remove false information from users’ information channels – that is, “deplatforming” matters. For example, YouTube is taking down conspiratorial material that targets individuals. One conspiratorial video that gathered millions of views when first posted became irrelevant within two weeks of it being removed by YouTube.

Finally, fighting misinformation is also about providing more high-quality information. It is crucial to report potential side effects of vaccinations accurately. However, communicators, including journalists should weigh evidence and focus on the bigger threat for public health, that is, the risk of the disease.

In fact, information about individual risks of COVID-19 can influence even strongly hesitant people. Moreover, risk communication should also highlight social benefits. Showing people what the pandemic means for members of risk groups targets people’s natural empathy and evidently increases the willingness to participate in prevention measures. Stories about the tragedies of this pandemic can make people experience what all the abstract numbers mean. Again, not all stories work the same in all audiences. That is why tailored communication approaches were and are central to effective health communication in times of crisis.

#### Vaccine skepticism is still on the rise—latest and most comprehensive studies show a robust statistical trend. Only engagement with scientific, fact-based reporting solves misinformation.

Stephen R. Neely PhD et. al, Christina Eldredge PhD, Robin Ersing PhD, Christa Remington PhD, 10-20-2021, [Neely is the Undergraduate Program Coordinator & Associate Professor at the SPA at USF, Eldredge is the Assistant Professor of Health Informatics at USF, Ersing is the School Director & Associate Professor at the SPA at USF, Remington is the Assistant Professor of Public Administration at the USF], “Vaccine Hesitancy and Exposure to Misinformation: a Survey Analysis”, Journal of General Internal Medicine, <https://link.springer.com/article/10.1007/s11606-021-07171-z#author-information> //SLC PK

In the pre-pandemic era, the World Health Organization (WHO) labeled vaccine hesitancy as one of the “top ten threats to global health” in 2019.[20](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR20) Despite being one of the most effective methods for infectious disease control, Americans have become increasingly skeptical of vaccinations, with vaccine rates declining notably in the past decade.[21](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR21) Factors such as a previous study correlating MMR vaccination with autism, and the misinformation which followed, may have played a role in this trend.[22](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR22) Our study found that only 57.8% of survey respondents were fully vaccinated at the time of their participation in this survey. Herd immunity vaccination percentage requirements for COVID-19 in a population is an area of emerging research; however, the observed 57.8% is far less than required for herd immunity in diseases such as measles (95%) and polio (80%) according to the WHO. Furthermore, the WHO considers herd immunity by pathogen exposure unethical due to potential suffering and mortality.[23](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR23)

Understanding the reasoning behind vaccine hesitancy is an important step in effectively targeting public health messaging. Our survey found that the three most common reasons that respondents give for holding off on receiving the COVID-19 vaccine are (1) the potential for side effects, (2) the speed at which the vaccine was created, and (3) surprisingly, a lack of confidence in the vaccine’s effectiveness. While the potential for side effects is a reasonable concern, the benefits of COVID-19 vaccines have shown to be greater than the potential risks. Furthermore, despite the speed at which the vaccine was developed, the Center for Disease and Control notes that the safety monitoring of the COVID-19 vaccine development was “the most intense safety monitoring in U.S. history”.[24](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR24) The findings suggest that amplifying these messages will continue to be an important task for public health professionals moving forward.

Interestingly, 20.6% of the survey respondents felt that vaccines were not effective despite the positive clinical trial results and “real world” research to support their efficacy.[25](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR25) It is not clear whether this belief itself is related to misinformation; however, it does indicate that current methods of public health messaging regarding vaccination efficacy may be inadequate. Given that 24.3% of unvaccinated respondents in this study indicated they were unsure whether they would undergo vaccination, increasing public health messaging efforts to reach this portion of the population who are “open” to considering vaccination should be paramount.

Our findings also suggest that vaccine hesitancy may be driven in large part by the increasing politicization of public health policy, which appears to have reached its zenith in the case of COVID-19.[7](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR7),[26](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR26) Our survey results highlighted a significant difference in the rate of vaccination based on political affiliation, with nearly three-quarters of self-identified Democrats being vaccinated (73.4%), compared with less than two-thirds of Republicans (58.5%) and political Independents (56.5%). Even when accounting for additional demographic factors and misinformation exposure, political affiliation was a very strong predictor of vaccination. This presents a unique challenge for public health messaging, as politicization makes it more likely that consumers will seek informational cues from political thought leaders rather than health professionals.

Furthermore, our findings affirm that widespread exposure to misinformation is a barrier to consumer health education on the vaccine and its benefits. In the survey results, those health information consumers with more exposure to misinformation regarding the COVID-19 vaccine were less likely to be vaccinated. Furthermore, the rate of vaccination among respondents continued to decline with exposure to two or more misinformation themes. Although the timing of misinformation exposure could not be determined by the survey, the results suggest that misinformation may play a very important role in vaccination status. This conclusion is consistent with other research on COVID-19 vaccine hesitancy. For example, a recent study found a 6.4% point decline in vaccination with exposure to misinformation in the USA and a 6.2% point decline in the UK.[27](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR27)

Of particular concern is the proliferation of political and conspiratorial misinformation, which we found to have the most substantial relationship to vaccine hesitancy. In some cases, we found a 20% lower rate of vaccination among those exposed to specific conspiratorial claims, such as the COVID-19 virus being created to increase vaccine sales and the Russian president’s daughter dying from a COVID-19 vaccine. The strong relationship between these claims and vaccine hesitancy further underscores the effects of politicization on the COVID-19 pandemic (and public health efforts in general). The tendency of conspiratorial claims to be circulated and amplified among closed circles of like-minded partisans means that these types of misinformation are often difficult for public health officials to identify, and even more difficult to combat.[28](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR28) The documented propensity of information consumers to self-select partisan media sources[29](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR29),[30](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR30) is believed to result in political echo chambers wherein these types of misinformation are easily amplified.[31](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR31) Strategic and targeted messaging will be essential in order to increase vaccine acceptance among individuals exposed to these types of misinformation.

With these findings in mind, we note that public health officials and healthcare providers should remain diligent in their efforts to identify and understand evolving objections, both rational and misinformed, that patients have about the COVID-19 vaccine. To address patient concerns about vaccine safety, they may opt to facilitate open discussions about vaccine fears through community outreach efforts or via social media and other outlets. Research has shown that acknowledging fears regarding difficult issues can promote trust in the messenger of the information.[32](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR32) Trust in public health messaging is especially important during public health emergencies when information is dynamic and rapidly evolving. Because political affiliation is so strongly correlated with vaccine hesitancy, this means that utilizing political figures to promote reliable information may be an essential means of increasing vaccination rates within those ideological groups.

In this instance, targeted and consistent messaging from Republican leaders in particular will be necessary to overcome politicized vaccine hesitancy.[33](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR33) While reporting shows that many Republican political leaders have been vaccinated against COVID-19, they have thus far been less inclined to promote vaccination among their political adherents. Recent attempts to promote vaccination on the part of Republican thought leaders such as Sean Hannity and Senate Minority Leader Mitch McConnell have been a positive step,[34](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR34) though these messages have been somewhat muted by simultaneous rhetoric and efforts against vaccine and mask mandates in various high-risk settings.[35](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR35) More consistent messaging on the part of Republican leaders will be necessary to ensure increased rates of vaccine acceptance. Public health officials can help to facilitate these efforts by partnering with willing political leaders at the local, state, and national levels.

Another potential strategy may include encouraging hesitant patients to reengage with their primary care providers, who are well-positioned to communicate reliable vaccine-related information. Recent studies have found personal appeals from practicing physicians to be more effective than institutional communications for promoting public health guidance.[36](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR36) However, only 32.3% of respondents to this survey reported having a conversation with their own primary care provider about COVID-19 vaccination. Among other factors, the politicization of the COVID-19 pandemic has resulted in increased reliance on “political cues” on the part of many information consumers, at the expense of conversations that would typically be sought with one’s most trusted healthcare providers. A proactive campaign on the part of public health officials and political leaders to direct patients back toward these provider-patient conversations may help to overcome some cases of vaccine hesitancy.

Lastly, we note that the increased role of social media in health information seeking has likely also played a significant role in the widespread exposure to misinformation observed in our study. Evidence from recent studies show that health consumers have relied heavily on social media to learn and stay informed about the COVID-19 pandemic.[10](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR10),[37](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR37) Studies have also found alarming rates of misinformation about COVID-19— both medical and political — being circulated on social media platforms such as Facebook and Twitter.[38](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR38),[39](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR39) In order to counteract these trends, public health professionals will need to become increasingly savvy in their use of social media to anticipate, identify, and respond to health-related misinformation. Preliminary evidence suggests that such interventions may be effective. For example, one study found that corrective infographics created by the World Health Organization were effective in reducing scientific misperceptions about COVID-19 prevention.[40](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR40) In another study from early 2021, those engaging with more credible, scientific sources on social media reported a greater likelihood of undergoing vaccination.[10](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8528483/#CR10) Expanding social media presence on the part of both public health organizations and individual practitioners may help at least in part to offset the rapid spread of misinformation associated with social networking sites.

#### This is not just true of COVID—misinformation harms trust in vaccines writ large.

Heidi J. Larson, 10-16-2018, [Heidi J. Larson is professor of anthropology, risk and decision science at the London School of Hygiene & Tropical Medicine.], "The biggest pandemic risk? Viral misinformation," Nature, <https://www.nature.com/articles/d41586-018-07034-4> //BC+PK

A hundred years ago this month, the death rate from the 1918 influenza was at its peak. An estimated 500 million people were infected over the course of the pandemic; between 50 million and 100 million died, around 3% of the global population at the time.

A century on, advances in vaccines have made massive outbreaks of flu — and measles, rubella, diphtheria and polio — rare. But people still discount their risks of disease. Few realize that flu and its complications caused an estimated 80,000 deaths in the United States alone this past winter, mainly in the elderly and infirm. Of the 183 children whose deaths were confirmed as flu-related, 80% had not been vaccinated that season, according to the US Centers for Disease Control and Prevention.

I predict that the next major outbreak — whether of a highly fatal strain of influenza or something else — will not be due to a lack of preventive technologies. Instead, emotional contagion, digitally enabled, could erode trust in vaccines so much as to render them moot. The deluge of conflicting information, misinformation and manipulated information on social media should be recognized as a global public-health threat.

So, what is to be done? The Vaccine Confidence Project, which I direct, works to detect early signals of rumours and scares about vaccines, and so to address them before they snowball. The international team comprises experts in anthropology, epidemiology, statistics, political science and more. We monitor news and social media, and we survey attitudes. We have also developed a Vaccine Confidence Index, similar to a consumer-confidence index, to track attitudes.

Emotions around vaccines are volatile, making vigilance and monitoring crucial for effective public outreach. In 2016, our project identified Europe as the region with the highest scepticism around vaccine safety (H. J. Larson et al. EBioMedicine 12, 295–301; 2016). The European Union commissioned us to re-run the survey this summer; results will be released this month. In the Philippines, confidence in vaccine safety dropped from 82% in 2015 to 21% in 2018 (H. J. Larson et al. Hum. Vaccines Immunother. https://doi.org/10.1080/21645515.2018.1522468; 2018), after legitimate concerns arose about new dengue vaccines. Immunization rates for established vaccines for tetanus, polio, tetanus and more also plummeted.

We have found that it is useful to categorize misinformation into several levels. Among the most damaging is bad science: people with medical credentials stoking overblown or unfounded fears. The canonical example is the 1998 publication by infamous former physician Andrew Wakefield purporting to show a link between autism and the measles, mumps and rubella (MMR) vaccine. Despite having his licence revoked and his work retracted, Wakefield persists in campaigning against the vaccine. Expert consensus alleges that his efforts have contributed to persistent vaccine anxieties and refusals, including a 2017 measles outbreak in Minnesota. Had Wakefield been disciplined and his article retracted 12 months after publication rather than 12 years, we might not be remarking that this year marks the twentieth anniversary of its publication.

The second-most-dangerous category includes those who see anti-vaccine debates as a financial opportunity for selling books, services, or other products. (Wakefield, who maintains that financial concerns have not affected his research and that he has been unfairly vilified, gave paid testimony against the vaccine and filed a patent that allegedly stood to become more valuable were the vaccine to be discredited.)

The next tier of damaging misinformation comes from those who see anti-vaccine debates as a political opportunity, a wedge with which to polarize society. Multiple reports this year found that Russian trolls and bots used emotional, angry language to spread misinformation and exacerbate the divisions between those for and against vaccines (see D. A. Broniatowski et al. Am. J. Pub. Health 108, 1378–1384; 2018).

Next are ‘super-spreaders’, who propagate misinformation through social media to like-minded vaccine-questioners. A common claim is that suspected adverse reactions to vaccines (typically coincidences) are confirmed reactions. Finally, there is misunderstood or inadequate information that might be circulating generally.

Targeted social media can combat misinformation. Both Denmark and Ireland faced groups broadcasting testimonies on social media and television news of young girls alleged to have been harmed by human papillomavirus (HPV) vaccination. In Denmark, national immunization rates fell from over 90% in 2000 to under 20% in 2005.

In response, Danish public-health officials emphasized the risk of disease, and promoted stories of people who had lost wives and mothers to cervical cancer. They also created a Facebook page for answering parents’ questions. Ireland’s social-media efforts used similar tactics to rebuild HPV-vaccine confidence; numbers for 2018 show an increase of 6% for vaccine uptake from 2017.

No single strategy works for all types of misinformation, particularly among those who are already sceptical. Educational materials and resources are important, but limited; health officials and educational campaigns often fall short because they craft messages based on what they want to promote, without addressing existing perceptions. Dialogue matters. Strategies must include listening and engagement. We have to get better at this: if a strain as deadly as the 1918 influenza emerges and people’s hesitancy to get vaccinated remains at the level it is today, a debilitating and fatal disease will spread.

#### COVID vaccine skepticism supercharges the internal link—it specifically spills outwards into broader vaccine mistrust.

Chloe Taylor, 1-26-2022, [Chloe is a news assistant at CNBC], “Covid vaccine skepticism may be fueling ‘worrisome’ rise in wider anti-vax sentiment, doctors say”, CNBC, <https://www.cnbc.com/2022/01/26/covid-vaccine-skepticism-fueling-wider-anti-vax-sentiment-doctors-say.html> //BC+PK

Skepticism toward Covid-19 vaccines could be fueling a “worrisome” rise in broader anti-vax sentiment, doctors have said.

Professor Liam Smeeth, a physician and director of the London School of Hygiene and Tropical Medicine, told CNBC he was concerned that vaccine hesitancy around Covid was “creeping into” sentiment toward other vaccines.

“I’m concerned it’s making people think: ‘oh, well, maybe the measles vaccine isn’t great either, and maybe these other vaccines aren’t great,’” Smeeth said in a phone call. “And we don’t have to see much of a drop in measles vaccine coverage in the U.K. to get measles outbreaks.”

He noted that there had been outbreaks of the disease when vaccination rates dropped in Britain in the 1990s and early 2000s.

In the late 1990s, claims that vaccines caused autism “turned tens of thousands of parents around the world against the measles, mumps and rubella vaccine,” according to the Lancet medical journal. In 2010, the journal retracted a 12-year-old article linking vaccines to autism, and studies have proven vaccines do not cause Autism Spectrum Disorder.

‘Jar full of wasps’

London-based Smeeth said measles vaccination rates only needed to drop a little below 90% for the disease to become a problem.

Measles is a highly contagious, serious viral illness that can lead to complications such as pneumonia and inflammation of the brain. Before widespread use of the measles vaccine, major epidemics broke out approximately every two to three years and the disease caused an estimated 2.6 million deaths each year, according to the WHO.

In the U.K. last year, 90.3% of two-year-olds were vaccinated against measles, mumps and rubella. A year earlier, 90.6% of children of the same age had been given the vaccine.

In the U.S., 90% of children were vaccinated against measles by the age of two in 2019, according to figures from the World Bank, marking a decrease of 2 percentage points from a year earlier. More recent data for the U.S. is not available.

Between 1988 and 1992, that figure fell from 98% to 83% in the U.S., and stayed below 90% for four years. In the U.K., the measles vaccination rate for two-year-olds dipped below 90% in the late 1990s and did not recover until 2011.

“Measles is like a jam jar full of wasps that is raging to get out,” Smeeth warned. “The minute vaccine coverage drops, measles will reappear. So that is a worry, that that [Covid anti-vax sentiment] and that dent in confidence is seeping across into other vaccines. That is a real worry.”

‘Devastating’ changes

Gretchen LaSalle, a physician and clinical assistant professor at Washington State University’s Elson S. Floyd College of Medicine, told CNBC that the politicization of Covid and its vaccines, as well as a lack of understanding of vaccine ingredients and public health, had had “devastating” effects.

In 2020, LaSalle completed the American Academy of Family Physicians Vaccine Science Fellowship. As part of the program, she helped carry out a survey of more than 2,200 people, tracking their attitudes toward immunizations.

Covid vaccines were first administered in December 2020 in the United States.

“In living through the Covid-19 pandemic and seeing the devastating effects on lives and livelihoods with their own eyes, our theory was that people would be reminded of the vital importance of vaccination and that their confidence would increase,” LaSalle told CNBC in an email.

But 20% of respondents told LaSalle’s team they had become less confident in vaccines during the pandemic.

“This decrease is worrisome,” LaSalle said. “For illnesses like measles that require a very high percentage of the population (typically around 95%) to be immune in order to limit the spread, a decrease in vaccination percentages by even 5 to 10% could be devastating.”

#### Vaccines solve future pandemic outbreaks but mass vaccination is key.

Shantell M. Kirkendoll, 7-7-2021, [University Communications], "New universal coronavirus vaccine could prevent future pandemics," University of North Carolina at Chapel Hill, <https://www.unc.edu/posts/2021/07/07/new-universal-coronavirus-vaccine-could-prevent-future-pandemics/> //BC+PK

Scientists at the University of North Carolina Gillings School of Global Public Health have developed a vaccine that could be effective against COVID-19, its variants — and a future coronavirus pandemic.

While no one knows which virus may cause the next outbreak, coronaviruses remain a threat after causing the SARS outbreak in 2003 and the global COVID-19 pandemic.

According to a study published June 22 in Science, the vaccine designed at UNC-Chapel Hill protected mice from the current SARS-CoV-2 coronavirus, plus a group of coronaviruses known to make the jump from animals to humans.

The lead study authors are David R. Martinez, a postdoctoral researcher at UNC Gillings School of Global Public Health and a Hanna H. Gray Fellow at the Howard Hughes Medical Institute, and Ralph Baric, an epidemiologist at UNC Gillings School of Global Public Health and professor of immunology and microbiology at the UNC School of Medicine, whose research has led to new therapies to fight emerging infectious diseases.

“Our findings look bright for the future because they suggest we can design more universal pan coronavirus vaccines to proactively guard against viruses we know are at risk for emerging in humans,” Martinez said. “With this strategy, perhaps we can prevent a SARS-CoV-3.”

Researchers at UNC-Chapel Hill are playing a key role in coronavirus vaccine development. After testing the effectiveness of the first generation of COVID-19 vaccines, they pivoted to look at a second-generation vaccine: one that targets sarbecoviruses, Baric said.

Sarbecoviruses, part of the large family of coronaviruses, are a priority for virologists after two caused devastating diseases in the past two decades: SARS and COVID-19.

The team’s approach started with mRNA, which is similar to the Pfizer and Moderna vaccines used today. But instead of including the mRNA code for only one virus, they welded together mRNA from multiple coronaviruses.

When given to mice, the hybrid vaccine effectively generated neutralizing antibodies against multiple spike proteins, which viruses use to latch onto healthy cells, including one associated with the Delta variant B.1.351, first discovered in South Africa.

“The vaccine has the potential to prevent outbreaks when used as a variant is detected,” said Baric, a trailblazer in pandemic preparedness who advocates proactive, rather than reactive, tracking of emerging coronaviruses.

The paper includes data from mice infected with SARS-CoV and related coronaviruses and the vaccine prevented infection and lung damage in mice. Further studies could put the vaccine on track for human clinical trials next year.

The lead authors worked with a team of scientists from UNC-Chapel Hill, Duke University School of Medicine and the University of Pennsylvania Perelman School of Medicine.

The National Institutes of Allergy and Infectious Disease at the National Institutes of Health and the North Carolina Policy Collaboratory, with funding from the North Carolina General Assembly, supported the study.

#### Otherwise, future pandemics and bioterrorism cause extinction.

Walter Dodds, 12-3-19, [Division of Biology, Kansas State University], "Disease Now and Potential Future Pandemics," PubMed Central (PMC), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7120200/> //BC+PK

Emergent Pandemics and Superbugs

One of the worst worldwide pandemics was the “Spanish” flu that started in 1918. It killed about 3% of the world population and infected about 1/6 of all people. The bubonic plague in the 1300s infected about 1/4 of the Earth’s human population and killed an estimated 13%. The “swine” flu (H1N1) started in 2009 and infected about 1/4 of humanity but killed less than a hundredth of 1% of our population. Scientists have traced the first widespread series of cases of HIV/AIDS to 1981, but the disease probably jumped into humans in the early 1900s. Since then, about 1% of people on Earth are living with HIV, and about 1.5 million people per year die because of AIDS. About 2% of the human population deaths each year is from AIDS-related causes worldwide. Waves of disease are a regular occurrence throughout human history and becoming more common.

Recently the world has been concerned (terrified) about Ebola. Symptoms include fever, severe headache, muscle pain, weakness, fatigue, diarrhea, vomiting, abdominal (stomach) pain, unexplained hemorrhage (bleeding or bruising), and death. This disease has been simmering in Africa for decades. Outbreaks have occurred in sub-Saharan Africa regularly since 1976; in 2014, an outbreak started in Guinea and jumped to other African countries in weeks and then to countries around the world killing over 10,000 people. In 2019 almost 2000 people died in the Democratic Republic of the Congo, and stopping the disease there has been difficult because of warfare; this outbreak has spread to Uganda. The ease of global movement and increased travel continue to increase the potential for spread of the disease. What if this disease evolves to an even more easily transmitted form? There is no treatment or vaccine (although some promising vaccines are being developed).

Disease epidemics that do not kill a large proportion of the human population are common. In the 1700s there were 13 epidemics and in the 1800s 12, with 5 pandemic influenza epidemics in the 1900s. The data suggest that roughly every 10–20 years, there are epidemics with some mortality that infect a quarter to a third of the world’s population.

You could argue that disease has not wiped out humans yet, so it will not in the future. Unfortunately, science has documented cases where diseases cause the extinction of an entire species. For example, people have inadvertently moved a fungal disease around the world that kills amphibians (frogs and salamanders). This disease is leading to numerous species extinctions globally. I have seen the effects of this disease first hand in Panama.

We studied the consequences of the fungal disease killing all adult frogs leading to loss of all the tadpoles in Panamanian mountain streams. Scientists had already documented that the disease was moving through North America to South America through Central America. The disease kills frogs in high-elevation areas and moves through lower-elevation areas without killing most animals. We knew that the area we were working in was going in the direct path of the disease, so we set up a before-after experiment to understand the effects.

On our first visit to the mountain stream, there were frogs everywhere. We needed to be careful not to step on them as we walked the trails. Each square yard of stream bottom had up to a hundred tadpoles. Twenty frog species used the streams for reproduction, and many of these species were entirely restricted to cooler areas with high altitude on this particular volcanic mountain. From sunset to sunrise, the jungle was a riot of frog choruses. There were fantastically colored adult frogs including the stunning black and white Panamanian Golden Frog, a species that has special meaning for Panamanians. We made our measurements on the stream, and enjoyed the frogs.

Two years later the disease had swept through as it progressed through the country from Costa Rica. When we drove up to the stream for the “after disease infection” experiment, it was immediately clear that it was different. Hoping against hope, I went down to the stream, but there were no tadpoles and no adult frogs on the banks. It was very quiet and sad. The stream had dense growths of algae because no tadpoles were eating it and the absence of the tadpoles fundamentally changed the way the stream functioned. In the end, maybe 100 species will go extinct from this disease.

Through this and other examples, we know that some diseases have driven animals and plants to extinction [31]. In Hawaii, 16 cases of bird extinctions have come about at least in part because of diseases. Numerous mammals and birds have gone extinct from diseases alone or in combination with other factors such as habitat loss [32]. Thus, it is not impossible that humans could suffer the same fate. The conditions that could lead to such a tragedy are making it more likely that such a disease could infect the human population.

Throughout human history, new nasty diseases have arisen. Many of them have jumped into humans from other species. Whenever a particularly virulent disease has infected a human, and killed most of the people exposed to it, the population of people infected was small and disconnected from the rest of humanity. Epidemiology tells us that the incidents that were formerly isolated now have the potential to sweep across the globe and cause massive death and suffering.

We are increasing the conditions under which such diseases can arise and transmit to people (ever more intimate contact with wildlife, dense livestock production). Losses of biodiversity caused by humans also are predicted to increase the transmission of infectious human diseases [33]. It is no wonder that new diseases like Avian flu, H1N1 , Ebola, and SARS are popping up with alarming regularity. Adding to the worry, viral evolution is unpredictable, and a new deadly strain of virus could arise from laboratories working on viruses that are presumably safe and contained. In this case a newly virulent strain could arise, escape, and become a pandemic [34].

At the same time, new diseases challenge the safety of people and the ability to treat such diseases increases. We can develop vaccines rapidly. Antiviral drugs are available that work at least well enough to decrease mortality. However, only those people in developed countries are able to afford or even have access to methods to protect from sickness and death from these infections. As usual, the poorer people of the world will suffer the worst of globalization, increased population, greater chance of new diseases, and unequal distribution of basic health care.

Go to:

Bioterrorism, Biological Warfare, and Accidents

In late 2011 and early 2012, two laboratories, one at the University of Wisconsin-Madison, USA, and the other at Erasmus MC in Rotterdam, the Netherlands, found out how to make avian flu (H5N1) transmissible in ferrets. This research ignited a firestorm of controversy because the deadly virus could also spread among humans much more easily. The researchers submitted the work for publication but journals held up the release of the papers because of fears that people with bad intent (bioterrorists or countries willing to employ biological warfare) could use the information to transform this and other viruses to more deadly forms. Ultimately, the journals published the work, as eventually the information would get out. This is the way science works, once the general concept for an important idea is out, somebody else is certain to replicate the experiment. Thus, information on how to create a deadly disease is ever more available.

Accidental release from existing research facilities is also a concern. The deadliest diseases known to humanity are stored and researched in containment facilities found around the world. Smallpox has killed people for at least 3000 years, and following vaccination, it was completely eradicated from human populations in the 1970s. A number of laboratories still keep cultures. In 1978, one person died from exposure to the virus in a British laboratory. After that, scientists transferred all cultures to two laboratories, one in Russia and one in the United States. Entire generations have reached adulthood with no exposure to the disease; if smallpox was ever released by accident or on purpose (a scientist with PhD-level training could potentially re-create it from the known genetic sequence), it could cause massive mortality.

In 1979, the Sverdlovsk military facility accidentally released anthrax causing 100 human deaths. Soviet researchers probably isolated this highly virulent strain of anthrax from rodents in the Soviet city of Kirov. The facility had likely accidentally released the bacterium at least once previously. Anthrax is able to survive as dry spores, and Soviets were presumably producing it to arm biological weapons.

While research on diseases is necessary to learn about causes and cures of the diseases that influence humans, such research comes with a cost. The ability to contain these diseases in research settings is plagued with the problem of potential human error. In addition, the possibility of terrorist attacks on such facilities is perhaps remote, but real.

In 1984, followers of Bhagwan Shree Rajneesh in Oregon released salmonella into 10 restaurant salad bars sickening 751 people in an attempt to keep them from voting in a local election in which the cult had candidates. Luckily, nobody died in this incident, but it does illustrate that people can be capable of bioterrorism.

In June of 1993, members of the Aum Shinrikyo cult sprayed anthrax from the top of an eight-story building in the heart of Tokyo. Fortunately, the disease did not take hold. The strain they used was not very deadly, and they had problems with a sprayer so the dispersion of the disease was not as effective as they had hoped. This group had previously set up multiple laboratories and had experimented with the toxin for botulism, cholera, and Q fever (a dangerous bacterial disease carried by livestock). They also previously sponsored a trip to the Democratic Republic of Congo that was an attempt to bring back an isolate of Ebola. This apocalyptic cult eventually released the chemical weapon Sarin in the Tokyo subway killing 12 people and sickening thousands.

While both these examples are unusual cases, we are entering a world where a few crazy people or one crazy country could do tremendous damage to humanity if they had access to the right materials and knowledge. Such knowledge is becoming commonplace. Every year academia cranks out numerous PhDs around the world with the technical expertise to build a deadly virus with the right equipment, chemicals (reagents), and knowledge of the sequence. At the same time, technology to work with DNA sequences is getting cheaper, easier to use, and more broadly available. With a million dollars and proper training, it is now possible to create designer diseases.

We should consider motives in this discussion as well. A terrorist who wanted to kill many people but wanted to discriminate victims would not only need to create a disease but also vaccinate or protect all the people they did not want to die. While a few doses of a disease placed appropriately could quickly spread around the world, creating many doses of vaccine is a far more daunting and expensive task. Thus, it seems unlikely that any of the major terrorist groups would be able to create a disease and vaccinate large numbers of people before releasing the disease without being detected first. Such a task is not completely out of the question for a small country such as North Korea.

There are insane people who just might try to take down the entire human race. The mass shooting in a movie theater in Denver in 2012 was carried out by a neuroscience PhD student. This individual could have had the technical ability to create a novel disease. A scenario where such a person creates and releases a deadly virus is conceivable. Quite a bit of preparation and disaster training would be necessary to stop transmission of an infectious agent once it was released [35].

#### Democratic support for vaccines in East Asia are key to deter Chinese aggression in India and Africa but low vaccination rates prevents success

Ramani 7/23 [(Samuel, a tutor of politics and international relations at the University of Oxford, where he received a doctorate in 2021. He is the author of a forthcoming book on Russia’s foreign policy toward Africa.) “Vaccines Are Japan’s New Tool to Counter China” Foreign Policy, 7/23/2021. https://foreignpolicy.com/2021/07/23/vaccine-diplomacy-covid-japan-china-competition/] BC

Despite the worsening pandemic at home, Japan’s vaccine diplomacy has gained traction thanks to the country’s desire to burnish its image as a humanitarian aid donor and capitalize on China’s faltering vaccine diplomacy. On June 16, Japan supplied 1 million locally produced AstraZeneca vaccine doses to Vietnam. A week later, the country pledged 2 million additional AstraZeneca doses to Taiwan and Vietnam, and 1 million doses each to Thailand, Malaysia, Indonesia, and the Philippines. Japan has also provided $14.8 million in medical equipment to India and donated another $9.3 million in cold storage facilities for India’s vaccines. Beyond the Indo-Pacific region, Japan has provided $39 million in grants to the United Nations Children’s Fund, which expands Africa and Latin America’s access to vaccines, and recently unveiled the COVID-19 Crisis Response Emergency Support Loan for developing countries.

Although Japan’s vaccine diplomacy has gained much less attention than Russia or China’s efforts, Tokyo’s vaccine and medical aid provisions could have profound geopolitical consequences. Japan’s public health assistance has amplified its challenge against China in Southeast Asia, further consolidated its partnerships with India and sub-Saharan Africa, and could increase the appeal of its signature governance model, which prizes individual responsibility and limited government interference. These trends will likely persist beyond the pandemic and pave the way for more intense competition between China and Japan over the next decade.

Japan’s vaccine delivery announcement to Southeast Asia followed major setbacks for China’s vaccine diplomacy in the region. China’s Sinovac vaccine provides only 50 percent protection in contrast to its U.S.-made counterparts. Meanwhile, Beijing’s “Health Silk Road” vision, which included Indonesia as a major hub for vaccine clinical trials, faltered during the first half of this year. Sinovac’s vaccine production reached only half of its expected level, resulting in smaller-than-expected shipments to Cambodia, Laos, Thailand, and the Philippines. The rapid upsurge of COVID-19 cases in Indonesia, which included the deaths of at least 10 doctors who were fully vaccinated by Sinovac, shook public trust in Chinese-made vaccines throughout Southeast Asia. Filipino President Rodrigo Duterte, who was an early champion of Chinese-made vaccines, apologized for taking the unapproved Sinopharm vaccine and asked the Chinese ambassador in Manila to send back 1,000 doses of the jab.

As confidence in Chinese vaccines waned, the Quadrilateral Security Dialogue (or the “Quad”)—comprised of Japan, India, the United States, and Australia—devised plans to export vaccines across the Indo-Pacific. During the March 12 Quad meeting, the four countries agreed to ship 1 billion vaccine doses to the Indo-Pacific region by the end of 2022. India was the Quad’s leading vaccine distributor in early 2021, but its spiraling infection rates in the spring gave Japan the chance to assume this mantle.

Japan has used its influence in the Quad to encourage the equitable and apolitical distribution of vaccines, distinguishing it from China.

Japan has used its influence in the Quad to encourage the equitable and apolitical distribution of vaccines, distinguishing it from China, which has pressured vaccine recipients over their relations with Taiwan. Japanese Foreign Minister Motegi Toshimitsu has insisted vaccine deliveries be decoupled from diplomatic goals. The country has also championed the “fair distribution” of vaccines regardless of whether the recipient countries are allies or partners. Japan’s policy prescriptions were broadly accepted by Quad countries, although the Biden administration’s initial prioritization of vaccine deliveries to U.S. allies blurred this consensus.

Since China and Japan’s vaccine diplomacy campaigns often target the same countries, they sharpen preexisting competition between the two nations for infrastructure projects and access to local manufacturing sectors. Japan has used its networks with Southeast Asia’s major economic powers, such as Thailand, Indonesia, and the Philippines, to thwart their entry into a Chinese-led economic order. Meanwhile, former Japanese Prime Minister Shinzo Abe’s “quality infrastructure” vision abroad has allowed Japan to preserve its investment advantage over China’s Belt and Road Initiative in Southeast Asia. Doubts about the quality and production efficiency of Chinese manufacturing, which were exposed by China’s botched vaccine deliveries in Southeast Asia, could spill over to construction and infrastructure as well as bolster the advantage of Japanese companies.

Vaccine deliveries have strengthened Japan’s image as a reliable partner for Southeast Asian countries and led to more comprehensive security cooperation. A 2017 Ipsos Indonesia poll revealed 89 percent of Association of Southeast Asian Nations (ASEAN) residents view Japan as a friendly country and 91 percent of ASEAN residents regard Japan as a reliable friend. For instance, Duterte’s praise of the “deep friendship” between Japan and the Philippines, which followed Japan’s donation of 1 million AstraZeneca vaccines earlier this month, aids Tokyo’s efforts to frame itself as a crisis-proof partner for Southeast Asian countries. Duterte’s friendship rhetoric was followed by the first air-to-air training exercises between Japan and the Philippines.

Although Japan’s vaccine distributions are concentrated in Southeast Asia, its medical aid provisions could strengthen its partnership with India and boost its image relative to China in Africa.

Japan’s COVID-19 medical assistance to India has further ensconced its image in New Delhi as an aid donor and partner in times of crisis. Development assistance has played an instrumental role in strengthening cooperation between the two countries. In 1958, India became the first country in the world to receive Japanese official development assistance, and in 2004, India became its largest recipient. After Japan supplied emergency aid to India this April, Indian Prime Minister Narendra Modi asked Suga to visit New Delhi once the situation stabilized and claimed the India-Japan partnership will strengthen international stability in the post-pandemic world order. This contrasts with tensions between China and India, which have persisted in spite of their de-escalation agreement on the Ladakh border.

Vaccine deliveries have strengthened Japan’s image as a reliable partner for Southeast Asian countries and led to more comprehensive security cooperation.

The goodwill created by Japan’s solidarity with India could spill over to the economic and security spheres. As Western countries seek to reduce their dependence on Chinese pharmaceuticals, Japan and India are likely to work together on creating an integrated alternative supply chain. And as Japan-India cooperation on public health occurs within the Quad, it will strengthen the bloc’s cohesion. It has also facilitated the expansion of Tokyo-New Delhi cooperation on Indian Ocean security. The India-Japan maritime bilateral exercise in the northern Arabian Sea last September and the “Free and Open Indo-Pacific” drill this June underscore Japan and India’s use of bilateral security cooperation to complement Quad exercises.

Meanwhile, due to Western countries’ delayed response to Africa’s COVID-19 outbreak, China’s vaccine diplomacy has gained traction throughout the continent. But it hasn’t always boosted China’s image. The upsurge of COVID-19 cases in Seychelles, for instance, which relied extensively on Chinese-made vaccines, mirrors trends observed in Southeast Asia.

Japan is stepping in. It bucked the trend of G-7 disengagement from COVID-19 in Africa by donating $1 million to fight the pandemic under the auspices of the African Union’s Joint Continental Strategy and making strides toward its goal of training 120,000 African health care workers. The Noguchi Memorial Institute for Medical Research in Accra, Ghana, which combatted Ebola, also expanded its role in combatting infectious disease in West Africa. This builds on Japan’s longstanding track record of providing development assistance in Africa, which began with the establishment of the Tokyo International Conference on African Development in 1993.

Japanese public health investments also strengthen the Asia-Africa Growth Corridor—an economic partnership agreement among India, Japan, and multiple African countries—which seeks to reduce the dependence of African countries on Chinese development assistance. As African countries, such as Kenya and Zambia, struggle to pay off their mounting debt burdens to China, Japan’s focus on building strategic partnerships in Africa and no-strings-attached humanitarian assistance during the COVID-19 pandemic could expound on the breakthroughs it has made on the continent.

Japan’s medical diplomacy complements the growing appeal of its governance model in the Global South. As Japan had the lowest COVID-19 infection and mortality rate of any G-7 country, it has actively promoted its success on the international stage. In May 2020, Abe hailed the “Japan model,” which slowed COVID-19’s spread in six weeks. The Japan model emphasized individual responsibility by relying on personal compliance with mask-wearing recommendations and contact-tracing guidelines, and it eschewed sweeping government interventions, such as lockdowns. Hitoshi Oshitani, a prominent Japanese virologist, became the Japan model’s global ambassador and extolled its Three Cs—avoiding close spaces, crowds, and close-contact situations—through regular speeches and interviews. This model appeals to entrenched views in countries throughout the Global South—such as Sri Lanka and Malaysia, which tend to view lockdowns as unnecessarily disruptive to economic development—and is unlikely to be discredited by Japan’s recent uptick in COVID-19 cases.

The contrast between Japan’s pandemic mitigation model and China’s use of stringent lockdowns sharpens the rivalry between both countries on international governance. Japan’s governance model hinges on the premise that safety and freedom can coexist, which differs markedly from China’s sacrifice of liberty for security. Although the efficacy of China’s pandemic mitigation measures received widespread praise in the Middle East and Africa during the early stages of the pandemic, the opacity of China’s COVID-19 response and uncertainties about the virus’s origins have tarnished its success. A 14-country Pew Research Center survey last October revealed negative perceptions of China were their highest on record. In addition to bolstering its time-tested reputation as an international aid donor, which crystallized during the 1980s, Japan’s synthesis of effective pandemic management at home and medical aid allows it to capitalize on negative impressions of China’s COVID-19 response.

Notwithstanding Japan’s low vaccination rates and upsurge of cases ahead of the Tokyo Olympics, Japanese medical diplomacy during the pandemic has been a resounding success. As China’s vaccine diplomacy falters and soft power erodes, Japan’s vaccine and medical assistance provisions could deepen its partnerships in the Global South and enhance the prestige of its flagship governance model.

#### China will use power aggressively

Jennifer Lind 18, Associate Professor, Department of Government, Dartmouth College, March/April 2018, “Life in China's Asia,” Foreign Affairs, Vol. 97, No. 2

It may be tempting to believe that China will be a relatively benign regional hegemon. Economic interdependence, one argument goes, should restrain Chinese aggression: because the legitimacy of the Chinese Communist Party (CCP) rests on economic growth, which depends on trade, Beijing would maintain peaceful relations with its neighbors. Moreover, China claims to be a different sort of great power. Chinese officials and scholars regularly decry interventionism and reject the notion of "spheres of influence" as a Cold War relic. Chinese President Xi Jinping has said that his country has "never engaged in colonialism or aggression" thanks to its "peace-loving cultural tradition." In this view, life in China's Asia would not be so different from what it is today. But this is not how regional hegemons behave. Great powers typically dominate their regions in their quest for security. They develop and wield tremendous economic power. They build massive militaries, expel external rivals, and use regional institutions and cultural programs to entrench their influence. Because hegemons fear that neighboring countries will allow external rivals to establish a military foothold, they develop a profound interest in the domestic politics of their neighborhood, and even seek to spread their culture to draw other countries closer. China is already following the strategies of previous regional hegemons. It is using economic coercion to bend other countries to its will. It is building up its military to ward off challengers. It is intervening in other countries' domestic politics to get friendlier policies. And it is investing massively in educational and cultural programs to enhance its soft power. As Chinese power and ambition grow, such efforts will only increase. China's neighbors must start debating how comfortable they are with this future, and what costs they are willing to pay to shape or forestall it.

#### Rise sparks US China war.

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Ryan, "The Tipping Point: Has the U.S.-China Relationship Passed the Point of No Return?," Oct 26, nationalinterest.org/feature/the-tipping-point-has-the-us-china-relationship-passed-the-14168?page=3

Conflict between a rising power and an established power is not inevitable as most realist scholars suggest. However, in every relationship, there is a tipping point or a point of no return, and China and the United States are rapidly approaching this point. As traditional diplomatic outlets have done little to resolve the more challenging issues presently affecting the Sino-American relationship, these two great powers have been increasingly relying on their military capabilities and hard power tactics. That’s especially true in the South China Sea, which is one of the single greatest points of contention between China and the United States. While there is a realization on both sides of the Pacific that a kind of strategic stability is necessary to prevent great power conflict, both China and the United States remain unwilling to compromise and make the kind of meaningful concessions required to move the relationship further from confrontation and conflict and closer to cooperation and rapprochement. Instead, these two countries are drawing lines in the sand and preparing for the worst. Failed pursuit of strategic stability China’s proposed solution to the Sino-American strategic stability issue is the “new model of major-country relations,” which encourages the United States and China to avoid confrontation and conflict, respect one another’s political systems and national interests—specifically China’s core interests—and pursue win-win cooperation. China is exceptionally enthusiastic about this proposal and brings it up at every high-level Sino-American meeting. Chinese enthusiasm for the “new model of major-country relations” can be explained in a number of different ways. American acceptance of China’s proposal would facilitate Beijing’s rise, legitimize the Chinese Communist Party (CCP) as a leader for national strength and revival and reduce the likelihood of American containment. As acceptance of the “new model of major-country relations” would create an international environment conducive to China’s rise, it would essentially allow China to become the preeminent power in Asia without great power competition or conflict. This proposal also has the potential to put China on par with the United States, to elevate it to an equal status, one acknowledged by the United States. Not only would American recognition of China’s strength and power have effects abroad, but it would also stoke Chinese nationalism and strengthen CCP leadership at home. Furthermore, this new model is a means of establishing a new code of conduct for the Sino-American relationship that is more in line with Chinese national interests, opening the door for the creation of a Chinese sphere of influence in Asia and, potentially, a Sino-centric regional order. Prior to the recent meeting between Xi Jinping and Barack Obama, Xi announced that China’s proposed “new model of major-country-relations” would be an important discussion point for the meeting, but, while this proposal was brought up during the meeting, no clear progress was made. Because U.S. leaders believe that the “new model of major-country relations” is not in America’s best interests, the United States has repeatedly dismissed China’s proposal. As the hegemonic power, the United States maintains its power by dominating global politics; to accept a geopolitical framework alternative proposed by a strategic rival requires sacrificing a certain amount of power and influence. Along those same lines, acceptance of China’s proposal might give other states in the international system the impression that the United States is in decline and on the losing end of the classic “Thucydides trap.” Outside of traditional power politics, the call for the United States to respect China’s “core interests”— as many Chinese and foreign scholars have noted—is a loaded statement. While the United States is not opposed to respecting a state’s national interests, it tends to be unwilling to respect national interests which are highly contested, which is the situation for the majority of China’s “core interests.” In addition to traditional Chinese national interests, such as Taiwan, Tibet, and Xinjiang, China’s “core interests” also cover most of its territorial claims in Asia. The United States is concerned that China’s “new model of major-country relations” is a ploy designed to trick the United States into acknowledging China’s extensive territorial claims and undercutting the interests of American allies and long-time strategic partners in the Asia-Pacific region, which would likely result in the weakening of the American-led “hub-and-spoke” security structure, a security framework China hopes to replace with its New Asian Security Concept. There are also suspicions in the United States that China’s proposal is a call for the creation of spheres of influence, a concept to which the Obama administration has been consistently opposed. America’s approach to Sino-American strategic stability is to have China and the United States focus on cooperation and agree to avoid letting competition in one area affect cooperation and collaboration in others. In many ways, this resembles China’s old “shelving disputes and pursuing joint development” strategy for Asia. As this kind of strategy is the geopolitical equivalent of sweeping dirt under the rug, it is only effective to a point. Eventually, the dirt spills out. Sooner or later, unaddressed problems surface. At best, this approach is only a temporary stop on the road to functional strategic stability. At worst, this approach has already outlived its usefulness. China views this strategy as an attempt by the United States to avoid addressing China’s demands that the United States acknowledge China’s rise to great power status and redefine the relationship accordingly, which only encourages the already strong Chinese desire to push forward the “new model of major-country relations.” China and the United States are at an impasse regarding strategic stability. While both states have made commitments and promises to prevent great power conflict, neither China nor the United States has developed a reasonable or implementable solution for Sino-American strategic stability. Thus, competition continues unmanaged, unchecked and confrontation is steadily evolving into conflict. Drawing Lines in the “Sea” The problems pushing the Sino-American relationship towards conflict are numerous and diverse, but if you are looking for the issue most likely to cause conflict, you need look no further than the South China Sea. China perceives the territorial disputes in this area as issues in which aggressive foreign state actors led by the United States are threatening China’s territorial sovereignty. For China, because of its history, territorial sovereignty issues implicate regime survival in a way that transcends all other quarrels and disagreements. The United States, on the other hand, views China’s territorial claims and actions to bolster those claims as Chinese expansionism, aggression against American allies and strategic partners, and a threat to the guiding principles of the liberal world order—which the United States views as crucial for the preservation of America’s global hegemonic power. The situation in the South China Sea has been steadily escalating for several years now. In April, 2014, American defense secretary Chuck Hagel met with Chinese defense minister Chang Wanquan. During the meeting, Hagel said, “All parties should refrain from provocative actions and the use of intimidation, coercion, or aggression to advance their claims. Such disputes must be resolved peacefully and in accordance with international law.” Chang replied, “I’d like to reiterate that the territorial sovereignty issue is a Chinese core interest. On this issue, we will make no compromises, no concessions. Not even a tiny bit of violation will be allowed.” The inability to discuss openly or compromise on this issue has made it impossible to resolve and has led to escalation and increased tension. In the aftermath of this meeting, China began investing heavily in island construction and land reclamation activities in disputed waters. As these activities have stirred up a lot of dust in the region, the United States has demanded that China abandon its present course of action, insisting that it is provocative and negatively impacting regional peace and stability. Not only has China dismissed America’s demands, it has also increased its military presence in contested areas in order to establish anti-access zones. While China claims that its actions are within the scope of international law, the United States asserts that Chinese actions are in violation of the law of the sea and laws for the regulation of the international commons. China argues that the South China Sea issue is a territorial sovereignty issue, yet the United States regards this issue as a freedom of navigation dispute, as well as a fight for the preservation of the international legal system—a cornerstone for the American-led liberal world order. In August of this year, the United States launched its new Asia-Pacific Maritime Security Strategy, which aims “to safeguard the freedom of the seas, deter conflict and escalation, and promote adherence to international law and standards.” The Asia-Pacific region is now at the heart of the American naval security agenda. In response, Chinese foreign ministry spokesperson Hong Lei said that China “opposes any country’s attempt to challenge China’s territorial sovereignty and security under the pretext of safeguarding navigation freedom.” Responding to Chinese criticisms of America’s new regional maritime security strategy, American Defense Secretary Ashton Carter stated, “Make no mistake, we will fly, sail, and operate wherever international law permits…We will do that at times and places of our choosing.” In 2014, the United States carried out “freedom of navigation” exercises in various parts of the world and challenged the territorial claims of 18 different countries; however, the United States has yet to officially challenge China’s claims in the South China Sea. But, that may soon change, as the United States is currently considering sending American naval vessels within 12 nautical miles of China’s artificial islands in order to force China to end its land reclamation activities. Such plans are considered aggressive, dangerous and extremely provocative by the Chinese. A recent Global Times editorial read, “China mustn’t tolerate rampant US violations of China’s adjacent waters and the skies over these expanding islands. The Chinese military should be ready to launch countermeasures according to Washington’s level of provocation.” The article further stated, “If the US encroaches on China’s core interests, the Chinese military will stand up and use force to stop it.” The article stated plainly, “If the US adopts an aggressive approach, it will breach China’s bottom line, and China will not sit idly by.” Other reports from this newspaper, a state-sponsored Chinese media outlet, have made it clear that if the bottom line for the United States is that China must end all of its land reclamation activities in the South China Sea, then war is inevitable, which suggests that this issue may be the tipping point for the Sino-American relationship. How the United States and China choose to move forward on this issue will permanently redefine the relationship between these two great powers. Granted, this may just be saber rattling, but even if that is the case, this issue is still decidedly zero-sum—which increases the likelihood of conflict. For China, political preservation and a potential Chinese sphere of influence are on the line, and for the United States, the liberal world order and American hegemony are at stake. Sooner or later, this trying issue will need to be resolved, and regardless of whether it is resolved through diplomacy or military force, it will take a toll on the geopolitical influence of either one or both countries. Were the international institutions for collective security strong enough to handle situations like this when they arise—and if China and the United States were willing to establish a new relationship model which addresses each country’s respective security concerns and encourages effective collaboration—it might actually be possible to resolve this issue peacefully. But given current circumstances, this is little more than idealism and wishful thinking. As there is currently no clear solution to this problem that would allow both countries to walk out of this situation with their heads held high, these two states are pondering the unthinkable. Depending on each country’s level of commitment and resolve, this situation may have already passed the tipping point. The outcome of the geopolitical power struggle between China and the United States will almost certainly be decided in the South China Sea. Some have suggested that the South China Sea issue is not a Sino-American issue. On the contrary, it is the most pressing Sino-American issue. One side will either choose to back down or be forced to back down. No matter how everything plays out in the South China Sea, geopolitics in the Asia-Pacific region will never be the same again.

#### A US-China war ends all life on earth

Sharman 2017 – Citing professor of Chinese studies and director of King's College London's Lau China Institute & Prof of Politics @ U of Warwick  
Jon, "US would go into any war with China with 'unparalleled violence', warn experts," www.independent.co.uk/news/world/americas/us-china-war-be-end-of-life-earth-nuclear-weapons-apocalypse-steve-bannon-donald-trump-white-house-a7561821.html

US and China have been engaged in a back-and-forth dispute over military build-up and territorial claims in the region for some years. In December the US said it would base its deadliest fighter jets in Australia, and days later China seized an unmanned US Navy drone. It followed a diplomatic spat around then-President-elect Trump's congratulatory phone call with Taiwan's Prime Minister Tsai Ing-wen, which broke with decades of US policy. Mr Trump has been forthright about China's influence, blaming it for the loss of American jobs. The war of words recently heated up when a Chinese military official was quoted as saying talk of war with the US under Mr Trump "are not just slogans, they are becoming a practical reality". Trevor McCrisken, associate professor of politics and international studies at the University of Warwick, said that if war broke out "we would be looking, I would imagine, at World War Three". He said: "I really do think that would be the end of life as we know it on Earth. "From a global strategic risk level I would say the last thing you want is war between the United States and any of the major powers because of the risks of escalation, obviously the potential for nuclear weapons to be used. The likelihood of nuclear exchange between the two principals involved is high." But, he added, the "overwhelming view of most policy-makers in Washington since at least the late 1970s" favours a form of "cooperative, if competitive" relationship with China. Dr Peter Roberts, director of military sciences at the Royal United Services Institute, said: "America would take military losses. They would lose thousands and thousands [of personnel]. But China would be utterly defeated. If America goes to war, it wages war in its totality. They would go to this with unparalleled violence and energy." The US has an "overall competitive edge" partly due to technological superiority, Dr Roberts said, but also because the four branches of its military—Army, Navy, Marine Corps and Air Force—are trained to work closely together. "It's demonstrated how it can use all those arms to deliver military victory," he said. In contrast, China's services operate "individually" and also have less, and less recent, combat experience compared to their American counterparts. "There's a huge difference between someone who's been in combat before, and someone who hasn't," Dr Roberts said, comparing the potential confrontation to one between Greek hero Achilles and farmers recruited from the fields. Kerry Brown, professor of Chinese studies and director of King's College London's Lau China Institute, said: "US naval superiority is massive. And if we are talking just military, then for sure, a conflict right beside China would hurt China more than the US. "It would, of course, totally upend supply routes, however, and probably cause a global recession. So it would, no matter who won in terms of military outcomes, be lose-lose and cut against the logic of self interest of both the US and China." Professor Brown added: "We have to expect this war of words to simply get worse. The best outcome is that the two sides ultimately compromise—China acts more responsibly, and stops its adventurism, and the US concedes it more space. The worst outcome would be a misunderstanding that would lead to real conflict."