# Case

## Off-Case

### T

#### A. Interpretation: medicine refers to treatments and cures only. Affirmatives must not reduce other medical IP protections.

**B. Violation: vaccines are medical interventions, not medicines**

Elbe 10 [Stefan Elbe, director of the Centre for Global Health Policy and a professor of international relations at the University of Sussex. "Security and Global Health," ISBN 0745643744, accessed 8-10-2021, https://www.wiley.com/en-ee/Security+and+Global+Health-p-9780745643731] HWIC

Yet here too we must be careful not to overlook other types of medical intervention simultaneously pursued by the 'social' arm of modern medicine at the population level. Vaccines in particular continue to be particularly important medical interventions that repeatedly surface in a variety of different health security delib- erations. Strictly speaking, vaccines are not medicines because they consist of small concentrations of disease-causing microbes (or their derivatives) used to enhance a person's immuno-response to a future infection. As a public health measure, vaccines have therefore also been largely sidelined in the existing medicalization literature. Yet, generally speaking, vaccines too can be considered as medical inter- ventions. That is certainly how the World Health Organization views them, pointing out that 'vaccines are among the most important medical interventions for reducing illness and deaths' available today (WHO 2009a). Whereas pills and other therapies mark the tools of clinical medicine, vaccines play a crucial part in the arsenal of 'social' medicine and public health. Developing and rolling out of new vaccines against a range of current (and future) diseases therefore represents further evidence of how the rise of health security is also encouraging security to be practised through the introduction of new medical interventions in society.

**Vaccines are different from medicines in the context of intellectual property**

Garrison 04 [Christopher Garrison, Consultant Legal Advisor to WHO. "Intellectual Property Rights and Vaccines in Developing countries," 04-13-2004, accessed 9-2-2021, https://www.who.int/intellectualproperty/events/en/Background\_paper.pdf?ua=1] HWIC

In the last few years, there has been a substantial debate about how intellectual property impacts medicines and in particular how the TRIPS Agreement impacts access to medicines in the developing world. Vaccines are different from medicines in a number of important respects however (at least from the small molecule ‘pill’ medicines if not the newer ‘biotech’ medicines). The issues raised in the access to medicines debate may therefore apply to a greater or lesser extent for vaccines, depending on these differences. This section examines a few of the different forms of intellectual property rights that are relevant in the context of vaccines and outlines the impact of some of the differences between vaccines and medicines.

#### C. Reasons to prefer

#### 1. Limits -- allowing any patented medical intervention includes testing and screening methods, surgery, contact tracing software etc. which takes away generics like innovation bc that applies to pharmaceutical development not distribution of preventative measures which explodes neg prep burden

#### 2. Precision -- we cite the WHO which proves common usage -- they add a whole new caselist based on social medicine which kills predictability -- that's k2 pre-tournament prep and deep clash around the core topic controversy. Reject counter-interps without a positive vision of the topic -- otherwise they can always shift the goalposts

#### D. Paradigm issues

#### 1. Drop the debater -- they skewed the debate from the 1AC and T indicts their advocacy

#### 2. Competing interps -- you can't be reasonably topical and reasonability invites judge intervention

#### 3. No RVIs -- forcing the 1NC to go all in kills substance education and discourages checking abuse

### Vacc Dip CP

#### Text: The People’s Republic of China should offer Chinese developed vaccines and medical technology related to COVID-19 to the world for free

#### The CP massively ramps up Chinese “vaccine diplomacy” which solves the case

Juecheng and Yuwei 8-13-21

(Zhao and Hu, https://www.globaltimes.cn/page/202108/1231387.shtml)

One of China’s most valued contributions to the global fair accessibility to COVID-19 vaccines is to enable more developing countries to hone their ability to produce vaccines by themselves, Zha Daojiong, professor of International Political Economy from Peking University, who closely studies the global vaccine equitable allocation framework, told the Global Times in a recent exclusive interview. Sharing his insights on widely discussed “vaccine nationalism,” “wavering vaccine intellectual property,” and “COVAX operation challenges,” Zha believes that China is advocating negotiations among countries on equitable global distribution of vaccines from a humanitarian, and global perspective. China has vowed to make efforts to provide the world with 2 billion doses of COVID-19 vaccines this year and donate $100 million to COVAX to promote global vaccine provision. This commitment comes amid the rampaging Delta variant, which is bringing more challenges for developing countries to access vaccines and combat the pandemic while the West continues to drag its heels in fulfilling its promises. The promise was made at the first meeting of a forum on international cooperation on COVID-19 vaccines held on August 5. Zha suggested that the forum, alongside the Initiative for Belt and Road Partnership on COVID-19 Vaccine Cooperation, reflect China’s efforts to support long-term cooperation in the vaccine industry globally. However, some Western media have labeled China and Russia as the pioneers of the global "vaccine diplomacy" campaign. The choice of vaccines by countries has become the epitome of global geopolitics.   Foreign comments on China using "vaccine diplomacy" in a narrow geopolitical sense reflect the real competition among COVID-19 vaccine providers, Zha told the Global Times. Due to China’s mature vaccine technologies, longer shelf life and lower requirement for storage and transportation, Chinese made vaccines are a more preferable choice for many developing countries with relatively weak vaccination infrastructure . This has been reflected in the approval of Chinese vaccines in more than 100 countries. But the phenomenon of “vaccine nationalism” was never absent in the decision by governments to choose vaccines, Zha suggested. “For example, some countries and regions would include geopolitical factors in choosing vaccines. These countries would reject certain vaccines. Moreover, some media outlets refuse to accept the fact that the professional assessment of vaccine efficacy is also a scientific process. Instead, they made comments on potential vaccines based on their geopolitical interests. This is also a kind of “vaccine nationalism”. Voices blaming “vaccine nationalism” have long been present in developed countries. For instance, Zha recalled how, during the H1N1 pandemic of 2009 which affected more than 200 countries and regions for more than a year, certain developed countries bought out entire stocks of vaccines against H1N1 once they were developed. Though some of those countries had promised to donate vaccines to others after they met their vaccination needs, the virus had long disappeared before their donations were made. Therefore, many in other nations lost the opportunity of a timely vaccination. Providing assistance from one country to another in the field of infectious or non-infectious diseases is often referred to as "health diplomacy." Some international public health research literature support "health diplomacy" because cooperation in this field is conducive to the improvement of political, economic and diplomatic relations, Zha said. China has taken important steps to close the global vaccine gap, including the acceleration of large-scale production, boosting fair distribution, and licensing local production in more countries.

#### Successful vaccine diplomacy is key to overall Chinese Soft Power

Huang, PhD, 3-11-21

(YANZHONG HUANG is Senior Fellow for Global Health at the Council on Foreign Relations, a Professor at Seton Hall University’s School of Diplomacy and International Relations, and Director of the school’s Center for Global Health Studies. https://www.foreignaffairs.com/articles/china/2021-03-11/vaccine-diplomacy-paying-china )

Vaccines have had a place in diplomacy since the Cold War era. The country that can manufacture and distribute lifesaving injections to others less fortunate sees a return on its investment in the form of soft power: prestige, goodwill, perhaps a degree of indebtedness, even awe. Today the country moving fastest toward consolidating these gains may be China, under President Xi Jinping, who proclaimed last May that Chinese-made vaccines against COVID-19 would become a “global public good.” Since that time, top officials have promised many developing countries priority access to Chinese vaccines, and the Chinese Foreign Ministry has announced that the country is providing free vaccines to 69 countries and commercially exporting them to 28 more. China’s competitors worry that where Beijing’s inoculations go, its influence will follow. But the field of COVID-19 vaccination is still a largely uncharted one and scattered with barriers, whether logistical, scientific, psychological, or geopolitical. China’s path through this labyrinth is neither obvious nor assured. The country faces stiffening competition from Russia and India. Now the United States, too, has entered the global stakes for equitable distribution of safe and effective vaccines. China has yet to prove that it can fulfill the role it has taken on or win the trust of those it has offered to aid. CHINA'S STAKE The Chinese government dislikes the term “vaccine diplomacy.” The implication that China would distribute vaccine doses in order to broaden its global political influence is a “sinister” one, according to the official Xinhua News Agency. Rather, the Chinese government contends that “in promoting cooperation in combating the pandemic, China does not seek any geopolitical goals or have any economic interest considerations, and it has never attached any political strings.” Xi has further stressed that by distributing necessary goods in a crisis, China is merely acting as a responsible great power should. In this regard, China may seek to succeed with vaccines where it failed with masks: last spring, quality-control issues and clumsy propaganda tarnished the country’s efforts to supply medical products to the developed world. Now China is looking to showcase its global health leadership to lower- and middle-income countries, where it is distributing vaccines. But Beijing surely has additional foreign policy objectives in mind. China began its vaccine development projects early last spring, and state media made quite clear that through them, China hoped to demonstrate its technological prowess and the superiority of its authoritarian model of governance. “We are not lagging behind the United States as far as the technology is concerned,” a Chinese virologist told the state-backed Global Times. Another scientist highlighted China’s “system advantages”: “The United States is no match for China in terms of concentrating power to accomplish big things.” Indeed, unlike in the United States, vaccine development in China was a highly state-driven process. The Chinese government simultaneously pushed several technological approaches, including inactivated vaccines, mRNA vaccines, and adenovirus vector vaccines. It mobilized at least 22 institutes and firms to work on 17 vaccine development projects. And until last summer, China was leading the global race in vaccine development. It developed a vaccine (Ad5-nCoV) as early as February 2020, started Phase 1 clinical trials on March 16, and published results of the trials in late May. General Chen Wei, the face of China’s vaccine development operation, celebrated such achievements as “an embodiment of our country’s S&T progress, an embodiment of China’s great-power image and responsibility, and, even more, a contribution to humankind.” Behind such lofty goals lie commercial objectives, too. Health-related development assistance has long offered Chinese pharmaceutical companies a low-cost means of expanding their market share in the developing world. In March 2020, President Xi explicitly linked the shipment of medical supplies overseas to the “Health Silk Road,” now an important component of the Belt and Road Initiative. Xiaofeng Liang, a former deputy director of the Chinese Center for Disease Control and Prevention, has publicly called for prioritizing BRI countries for access to Chinese vaccines. But the opportunity hardly ends there. Prior to the COVID-19 pandemic, few Chinese pharmaceutical companies had received World Health Organization prequalification to supply medical products to international organizations and donor funds. In 2019, China’s share in the value of UN-procured medical products was only 1.9 percent, compared with 21.9 percent for India. Chinese media lamented that of the 155 WHO-prequalified vaccines, only four were from China, compared with 44 from India. Indeed, Indian pharmaceutical firms produced more than 60 percent of the vaccines sold worldwide. The huge global demand for COVID-19 vaccines and “vaccine nationalism” in wealthy nations have created a great opportunity for China to break into a market that Indian and Western pharmaceutical firms have long dominated. If the vaccine were priced at $10 per dose with a 40 percent net profit margin, even a 15 percent share of the vaccine market in lower- and middle-income countries would generate total sales of $10.8 billion and a profit of $4.32 billion for the Chinese economy. In reality, Chinese vaccines are often priced higher than $10.

#### Chinese leadership stops global secessionist conflict

Griffiths 16 **-** Senior Lecturer in the Department of Government and International Relations at the University of Sydney (Ryan, States, Nations, and Territorial Stability: Why Chinese Hegemony Would Be Better for International Order, Security Studies, 25:3, 519-545, DOI: 10.1080/09636412.2016.1195628)

I began the article by claiming that the Pax Sinica would be better for international order. In making this claim I define “better” in narrow terms emphasizing territorial stability, which can be assessed in several ways. How often do either external aggressors or internal separatists shift sovereign borders through violence? What is the frequency of secessionist civil war? How much international discord is there on the topic of secession and recognition? This is the ledger I use when comparing the Pax Sinica with the post-1945 American-led order. There are many other factors, to be sure, and critics might point to a number of ways in which Chinese hegemony would be worse. For example, they may question the support for human rights under Chinese leadership. I do not argue that Chinese hegemony would be better in all ways—there are pros and cons to any order—but I contend that there are net benefits where territorial stability is concerned. Analyzed under these terms the key differences between the American order and the imagined Chinese order have to do with the politics of secession and sovereign recognition. International order matters because it determines diplomatic practices and shapes behavior. It sets the rules of the game. The American-led order over the last seventy years has attempted to balance the norms of territorial integrity and self-determination by establishing rules for what nations are eligible for independence. But, as Fabry notes, that is an enormously challenging project because developing clear rules that separate the lucky from the unlucky requires that states derive agreed-upon criteria in a constitutive process.73 Given the politics and conflicting principles of international life (and the evolving nature of normative arguments), inconsistency, ambiguity, and accusations of hypocrisy are unavoidable. The resulting political space creates uncertainty for states and nationalist movements over when self-determination applies and when it should be subordinated to territorial integrity. Incidents like the Ukrainian crisis cast a shadow over separatist crises elsewhere. The leadership in Azerbaijan detects double standards in American policy, wondering why it “punishes Russia for annexing Crimea, but not Armenia for similar behavior in Karabakh.”74 Such uncertainly can makes states feel vulnerable, as it has in Azerbaijan, change the incentives for key actors, and increase the chance of conflict. Secessionist civil war is a common feature of contemporary times. Scholars estimate that at least half of the civil wars since 1945 have involved secessionism, and Barbara F. Walter argues that secessionism is the chief source of violence in the world today.75 Erica Chenowith and Maria Stephan find that secessionism is one of the few (if only) forms of political protest where violent tactics are more effective than nonviolent.76 Meanwhile, Tanisha Fazal and I identify fifty-five secessionist movements as of 2011 and record that many of these movements feel they have a reasonable chance of gaining independence in light of the somewhat flexible practices surrounding recognition.77 Given the strategic environment in which secessionists operate, where violence can be effective and where sovereignty is thought to be obtainable, it should come as no surprise that conflict is common. In regard to territorial stability, the concern of contemporary times is not traditional territorial conquest, but the threat posed by state fragmentation.78 This is where Chinese hegemony ought to improve international order.

#### The impact is great power nuclear war and a collapse of institutions---the Chinese model is preferable because the US will call for partitions

Fearon 4- Department of Political Science Stanford University (James, “Separatist Wars, Partition, and World Order” <https://web.stanford.edu/group/fearon-research/cgi-bin/wordpress/wp-content/uploads/2013/10/Separatist-Wars-Partition-and-World-Order.pdf>)

Civil wars of separatist nationalism raged around the globe in the 1990s, in the Balkans, India, Russia, Azerbaijan, Sudan, Indonesia, Britain (Northern Ireland), Turkey, Georgia, the Philippines, and Burma, to name only some of the more prominent examples. These wars have caused considerable loss of life, massive refugee crises, economic devastation, significant strains on great power relations and important international institutions like NATO and the United Nations, and a significant risk of nuclear war in South Asia. What should be done? Thus far, the western powers’ approach has been ad hoc, with little public discussion of the broader implications of particular cases and the problems for the international system posed by separatist nationalism.1 At least five sorts of ad hoc responses can be identified: 1. The imposition of weak international protectorates by stronger states through international organizations, as at Dayton, over Kosovo, Northern Iraq, and, earlier, Cyprus. 2. Disapproval but little or no direct action, either due to lack of interest (Kurds in Turkey, Tamils in Sri Lanka, Southerners in Sudan, Tuaregs in Mali, and many other such cases) or due to the power of the states involved (Russia/Chechnya, China/Tibet, India/Kashmir). 3. Weak international attempts to facilitate partition when this is by mutual consent of some sort (East Timor, Eritrea, the Czech Republic and Slovakia, the West Bank in a halting way). 4. Stable cease-fires and de facto partitions, as in Nagorno-Karabagh and Somaliland. 5. Some efforts to help negotiate power-sharing agreements, as in Northern Ireland and Angola (the latter with a largely ethnic but not separatist war). That international responses to wars of separatist nationalism have been ad hoc is not surprising. International relations is the realm of the ad hoc, and even if it were possible it is hard to imagine a general, one-size-fits-all approach that would make sense. But the lack of discussion about the broader implications of different possible policies in particular cases is surprising. Here is a possible explanation. For the western powers, separatist nationalism is so perplexing and fundamental a problem that it has to be ignored as a general phenomenon. The problem is that the overwhelmingly accepted diagnosis of the cause of separatist nationalism implies a policy remedy no major power can stomach. In brief, the standard diagnosis is Wilsonianism, the theory that separatist nationalism stems from bad borders and incompatible cultures. Wilsonianism holds that violent separatism arises when state borders are not properly aligned with national groups, which are fixed, preexisting entities. Separatism is due to the injustice of depriving proper nations of proper states. If one accepts this, then the remedy for nationalist wars is obvious. Just redraw the borders. Impose partitions. And indeed with each nationalist war foreign policy analysts in the U.S. and elsewhere have called for partition as the obvious and proper solution.2 In the wake of the intense killing and brutality in Bosnia and Kosovo, partition has often seemed, reasonably, “inevitable.” Even if these people lived together once, analysts say, how can they live together now? If one accepts the general diagnosis, the argument for partition seems inescapably strong. So why not do it? Why aren’t the major powers leaping on partition as the obvious solution, rather than setting up costly and ineffectual protectorates? Are there any good reasons to oppose partition, or are the western powers just misguided, cowardly, or transfixed by a naive and dangerous commitment to multiculturalism (Mearsheimer and Van Evera 1995; Mearsheimer and Pape 1993)? I argue in this paper that there are indeed good reasons to be skeptical of partition as a general solution to nationalist wars. The most important of these, and the least explored, are two types of incentive effects. First, ad hoc partition applied to one trouble spot may help produce more violent separatist nationalist movements elsewhere, in addition to making existing nationalist wars more difficult to resolve. The Wilsonian diagnosis is wrong. The world is not composed of a fixed number of true nations, so that peace can be had by properly sorting them into states. Rather, there is literally no end of cultural difference in the world suitable for politicization in the form of nationalist insurgencies. As long as controlling a recognized state apparatus is a desirable thing and “nationhood” is understood to ground claims to a state, ambitious individuals will try to put together nationalist movements to claim statehood. A (de facto) policy of partition that says, in effect, “You may get a state if you can get a bloody enough nationalist insurgency going” provides the wrong incentives. The more general point is that whether partition is good idea depends in part on one’s theory of what causes separatist nationalism. I will argue that the dominant theory of Wilsonianism is misleading, and implies ad hoc “solutions” that states are right to shy away from.

### Innovation DA

**Pharma profits are up from COVID vaccines, patent waivers threaten this**

**Buchholz 5-17-21**

(Katharina, https://www.statista.com/chart/24829/net-income-profit-pharma-companies/)

The profitability of coronavirus vaccines has been in the spotlight since U.S. President Joe Biden come out in support of temporarily lifting vaccine patents to make the production of the life-saving inoculations more financially feasible for poorer countries. EU leaders meanwhile remain divided over such a move. Company financial reports show that COVID-19 vaccine makers and developers like Johnson & Johnson, Pfizer, Moderna, AstraZeneca and BioNTech have seen their profits increase since the vaccine rollout, at times majorly. In early May, stocks of several companies that benefit from COVID-19 vaccine sales **took a nosedive on the news of Biden’s reversal**. Moderna stocks, for example, were still down more than 6 percent at close on May 5, the day of the announcement. Stocks recovered somewhat as German chancellor Angela Merkel came out against patent waivers the following day. While fluctuations in the stock market price have hurt drug makers in the **short term**, patent waivers would diminish the bottom line of companies involved with the development and production of COVID-19 **vaccines in the long term**. Pharma giants like Johnson & Johnson and Pfizer bring in billions of dollars of income every quarter from diverse sources, so the COVID bump was smaller for them. In the case of Pfizer, which has been a bigger producer than J&J, the year-over-year profit increase was a handsome 44 percent, however. For smaller AstraZeneca, the COVID year meant that its profits doubled. In the case of Moderna, the past year has turned a Q1 loss into a profit. The case is similar for German company BioNTech, which collaborated with Pfizer on its COVID vaccine. While Q1 2021 brought in a profit of $1.1 billion, the company ran a deficit since its founding in 2008 up until Q4 2020, when it posted a profit for the first time. The $446 million earned stood in contrast to losses of almost $428 million accrued in the first nine months of the year.

**Strong IP protection spurs innovation by encouraging risk-taking and incentivizing knowledge sharing -- prefer statistical analysis of multiple studies**

**Ezell and Cory 19** [Stephen Ezell, vice president & global innovation policy @ ITIF, BS Georgetown School of Foreign Service. Nigel Cory, associate director covering trade policy @ ITIF, MA public policy @ Georgetown. "The Way Forward for Intellectual Property Internationally," Information Technology & Innovation Foundation, 4-25-2019, accessed 8-25-2021, https://itif.org/publications/2019/04/25/way-forward-intellectual-property-internationally] HWIC

IPRs Strengthen Innovation

Intellectual property rights power innovation. For instance, analyzing the level of intellectual property protections (via the World Economic Forum’s Global Competitiveness reports) and creative outputs (via the Global Innovation Index) shows that counties with stronger IP protection have more creative outputs (in terms of intangible assets and creative goods and services in a nation’s media, printing and publishing, and entertainment industries, including online), even at varying levels of development.46

IPR reforms also introduce strong incentives for domestic innovation. Sherwood, using case studies from 18 developing countries, concluded that poor provision of intellectual property rights deters local innovation and risk-taking.47 In contrast, IPR reform has been associated with increased innovative activity, as measured by domestic patent filings, albeit with some variation across countries and sectors.48 For example, Ryan, in a study of biomedical innovations and patent reform in Brazil, found that patents provided incentives for innovation investments and facilitated the functioning of technology markets.49 Park and Lippoldt also observed that the provision of adequate protection for IPRs can help to stimulate local innovation, in some cases building on the transfer of technologies that provide inputs and spillovers.50 In other words, local innovators are introduced to technologies first through the technology transfer that takes place in an environment wherein protection of IPRs is assured; then, they may build on those ideas to create an evolved product or develop alternate approaches (i.e., to innovate). Related research finds that trade in technology—through channels including imports, foreign direct investment, and technology licensing—improves the quality of developing-country innovation by increasing the pool of ideas and efficiency of innovation by encouraging the division of innovative labor and specialization.51 However, Maskus notes that without protection from potential abuse of their newly developed technologies, foreign enterprises may be less willing to reveal technical information associated with their innovations.52 The protection of patents and trade secrets provides necessary legal assurances for firms wishing to reveal proprietary characteristics of technologies to subsidiaries and licensees via contracts.

Counties with stronger IP protection have more creative outputs (in terms of intangible assets and creative goods and services in a nation’s media, printing and publishing, and entertainment industries, including online), even at varying levels of development.

The relationship between IPR rights and innovation can also be seen in studies of how the introduction of stronger IPR laws, with regard to patents, copyrights, and trademarks, affect R&D activity in an economy. Studies by Varsakelis and by Kanwar and Evenson found that R&D to GDP ratios are positively related to the strength of patent rights, and are conditional on other factors.53 Cavazos Cepeda et al. found a positive influence of IPRs on the level of R&D in an economy, with each 1 percent increase in the level of protection of IPRs in an economy (as measured by improvements to a country’s score in the Patent Rights Index) equating to, on average, a 0.7 percent increase in the domestic level of R&D.54 Likewise, a 1 percent increase in copyright protection was associated with a 3.3 percent increase in domestic R&D. Similarly, when trademark protection increased by 1 percent, there was an associated R&D increase of 1.4 percent. As the authors concluded, “Increases in the protection of the IPRs carried economic benefits in the form of higher inflows of FDI, and increases in the levels of both domestically conducted R&D and service imports as measured by licensing fees.”55 As Jackson summarized, regarding the relationship between IPR reform and both innovation and R&D, and FDI, “In addition to spurring domestic innovation, strong intellectual property rights can increase incentives for foreign direct investment which in turn also leads to economic growth.”56

**Biopharmaceutical innovation is key to prevent future pandemics and bioterror**

**Marjanovic and Feijao 20** [Sonja Marjanovic Ph.D., Judge Business School, University of Cambridge. Carolina Feijao, Ph.D. in biochemistry, University of Cambridge; M.Sc. in quantitative biology, Imperial College London; B.Sc. in biology, University of Lisbon. "How to Best Enable Pharma Innovation Beyond the COVID-19 Crisis," RAND Corporation, 05-2020, accessed 8-8-2021, https://www.rand.org/pubs/perspectives/PEA407-1.html] HWIC

As key actors in the healthcare innovation landscape, pharmaceutical and life sciences companies have been called on to develop medicines, vaccines and diagnostics for pressing public health challenges. The COVID-19 crisis is one such challenge, but there are many others. For example, MERS, SARS, Ebola, Zika and avian and swine flu are also infectious diseases that represent public health threats. Infectious agents such as anthrax, smallpox and tularemia could present threats in a bioterrorism context.1 The general threat to public health that is posed by antimicrobial resistance is also well-recognised as an area in need of pharmaceutical innovation. Innovating in response to these challenges does not always align well with pharmaceutical industry commercial models, shareholder expectations and competition within the industry. However, the expertise, networks and infrastructure that industry has within its reach, as well as public expectations and the moral imperative, make pharmaceutical companies and the wider life sciences sector an indispensable partner in the search for solutions that save lives. This perspective argues for the need to establish more sustainable and scalable ways of incentivising pharmaceutical innovation in response to infectious disease threats to public health. It considers both past and current examples of efforts to mobilise pharmaceutical innovation in high commercial risk areas, including in the context of current efforts to respond to the COVID-19 pandemic. In global pandemic crises like COVID-19, the urgency and scale of the crisis – as well as the spotlight placed on pharmaceutical companies – mean that contributing to the search for effective medicines, vaccines or diagnostics is essential for socially responsible companies in the sector. 2 It is therefore unsurprising that we are seeing industry-wide efforts unfold at unprecedented scale and pace. Whereas there is always scope for more activity, industry is currently contributing in a variety of ways. Examples include pharmaceutical companies donating existing compounds to assess their utility in the fight against COVID19; screening existing compound libraries in-house or with partners to see if they can be repurposed; accelerating trials for potentially effective medicine or vaccine candidates; and in some cases rapidly accelerating in-house research and development to discover new treatments or vaccine agents and develop diagnostics tests.3,4 Pharmaceutical companies are collaborating with each other in some of these efforts and participating in global R&D partnerships (such as the Innovative Medicines Initiative effort to accelerate the development of potential therapies for COVID-19) and supporting national efforts to expand diagnosis and testing capacity and ensure affordable and ready access to potential solutions.3,5,6 The primary purpose of such innovation is to benefit patients and wider population health. Although there are also reputational benefits from involvement that can be realised across the industry, there are likely to be relatively few companies that are ‘commercial’ winners. Those who might gain substantial revenues will be under pressure not to be seen as profiting from the pandemic. In the United Kingdom for example, GSK has stated that it does not expect to profit from its COVID-19 related activities and that any gains will be invested in supporting research and long-term pandemic preparedness, as well as in developing products that would be affordable in the world’s poorest countries.7 Similarly, in the United States AbbVie has waived intellectual property rights for an existing combination product that is being tested for therapeutic potential against COVID-19, which would support affordability and allow for a supply of generics.8,9 Johnson & Johnson has stated that its potential vaccine – which is expected to begin trials – will be available on a not-for-profit basis during the pandemic.10 Pharma is mobilising substantial efforts to rise to the COVID-19 challenge at hand. However, we need to consider how pharmaceutical innovation for responding to emerging infectious diseases can best be enabled beyond the current crisis. Many public health threats (including those associated with other infectious diseases, bioterrorism agents and antimicrobial resistance) are urgently in need of pharmaceutical innovation, even if their impacts are not as visible to society as COVID-19 is in the immediate term. The pharmaceutical industry has responded to previous public health emergencies associated with infectious disease in recent times – for example those associated with Ebola and Zika outbreaks.11 However, it has done so to a lesser scale than for COVID-19 and with contributions from fewer companies. Similarly, levels of activity in response to the threat of antimicrobial resistance are still low.12 There are important policy questions as to whether – and how – industry could engage with such public health threats to an even greater extent under improved innovation conditions.

**That causes extinction, which outweighs.**

**Millett & Snyder-Beattie ‘17**. Millett, Ph.D., Senior Research Fellow, Future of Humanity Institute, University of Oxford; and Snyder-Beattie, M.S., Director of Research, Future of Humanity Institute, University of Oxford. 08-01-2017. “Existential Risk and Cost-Effective Biosecurity,” Health Security, 15(4), PubMed

In the decades to come, advanced bioweapons could **threaten human existence**. Although the **probability** of human extinction from bioweapons **may** be low, the **expected value** of **reducing** the risk could **still** be **large**, since such risks jeopardize the existence of **all future generations**. We provide an overview of biotechnological extinction risk, make some rough initial estimates for how severe the risks might be, and compare the cost-effectiveness of reducing these extinction-level risks with existing biosecurity work. We find that reducing human extinction risk can be more cost-effective than reducing smaller-scale risks, even when using conservative estimates. This suggests that the risks are not low enough to ignore and that more ought to be done to prevent the worst-case scenarios. How worthwhile is it spending resources to study and mitigate the chance of human extinction from biological risks? The risks of such a catastrophe are presumably low, so a skeptic might argue that addressing such risks would be a waste of scarce resources. In this article, we investigate this position using a cost-effectiveness approach and ultimately conclude that the expected value of reducing these risks is large, especially since such risks jeopardize the existence of all future human lives. **Historically, disease events have been responsible for the greatest death tolls** on humanity. The 1918 flu was responsible for more than 50 million deaths,1 while smallpox killed perhaps 10 times that many in the 20th century alone.2 The Black Death was responsible for killing over 25% of the European population,3 while other pandemics, such as the plague of Justinian, are thought to have killed 25 million in the 6th century—constituting over 10% of the world's population at the time.4 It is an open question whether a future pandemic could result in outright human extinction or the irreversible collapse of civilization. A skeptic would have many good reasons to think that existential risk from disease is unlikely. Such a disease would need to spread worldwide to **remote populations**, overcome **rare genetic resistances**, and **evade detection**, cures, and **countermeasures**. Even evolution itself may work in humanity's favor: **Virulence and transmission is often a trade-off**, and so **evolutionary pressures** could push against maximally lethal wild-type pathogens.5,6 While these arguments point to a very small risk of human extinction, they **do not rule** the possibility **out** entirely. Although rare, there are recorded instances of **species going extinct due to disease**—primarily in amphibians, but also in 1 mammalian species of rat on Christmas Island.7,8 There are also **historical examples of large human populations being almost entirely wiped out** by disease, especially when multiple diseases were simultaneously introduced into a population without immunity. The most striking examples of total population collapse include **native American tribes** exposed to European diseases, such as the Massachusett (86% loss of population), Quiripi-Unquachog (95% loss of population), and the Western Abenaki (which suffered a staggering 98% loss of population).9 In the modern context, no single disease currently exists that combines the worst-case levels of transmissibility, lethality, resistance to countermeasures, and global reach. But **many diseases are proof** of principle that **each worst-case attribute can be realized independently**. For example, some diseases exhibit nearly a 100% case fatality ratio in the absence of treatment, such as rabies or septicemic plague. Other diseases have a track record of spreading to virtually every human community worldwide, such as the 1918 flu,10 and seroprevalence studies indicate that other pathogens, such as chickenpox and HSV-1, can successfully reach over 95% of a population.11,12 Under optimal virulence theory, **natural evolution** would be an **unlikely** source for pathogens with the **highest possible levels of transmissibility, virulence, and global reach**. But **advances in biotech**nology might allow the creation of diseases that **combine such traits**. Recent controversy has **already emerged** over a number of **scientific experiments** that resulted in viruses with enhanced **transmissibility**, **lethality**, and/or the ability to overcome **therapeutics**.13-17 Other experiments demonstrated that mousepox could be modified to have a 100% case fatality rate and render a vaccine ineffective.18 In addition to transmissibility and lethality, studies have shown that other disease traits, such as incubation time, environmental survival, and available vectors, could be modified as well.19-21 Although these experiments had scientific merit and were not conducted with malicious intent, their implications are still worrying. This is especially true given that there is also a **long historical track record** of **state-run bioweapon research** applying cutting-edge science and technology to design agents not previously seen in nature. The Soviet bioweapons program developed agents with traits such as enhanced virulence, resistance to therapies, greater environmental resilience, increased difficulty to diagnose or treat, and which caused unexpected disease presentations and outcomes.22 Delivery capabilities have also been subject to the cutting edge of technical development, with Canadian, US, and UK bioweapon efforts playing a critical role in developing the discipline of aerobiology.23,24 While there is no evidence of state-run bioweapons programs directly attempting to develop or deploy bioweapons that would pose an existential risk, the logic of deterrence and **m**utually **a**ssured **d**estruction could create such incentives in more unstable political environments or following a breakdown of the Biological Weapons Convention.25 The **possibility of a war** between great powers could also increase the pressure to use such weapons—during the World Wars, bioweapons were used across multiple continents, with Germany targeting animals in WWI,26 and Japan using plague to cause an epidemic in China during WWII.27

## On-Case

### AT: US Heg

#### No U.S.-China war.

Abraham Denmark et al 20 is director of the Asia Program at the Woodrow Wilson International Center for Scholars and a former deputy assistant secretary of defense for East Asia, April 16, “SAME AS IT EVER WAS: CHINA’S PANDEMIC OPPORTUNISM ON ITS PERIPHERY”, <https://warontherocks.com/2020/04/same-as-it-ever-was-chinas-pandemic-opportunism-on-its-periphery/>

While Washington and Beijing’s overheated rhetoric and mutual recriminations amid the ongoing coronavirus pandemic are grabbing headlines, equally important is what has been playing out across China’s eastern and southern peripheries over the past several weeks. At a moment when the Chinese Communist Party has been touting the generosity of its approach to COVID-19, there has been a marked increase in the number of incidents between China and its neighbors. Beijing has used its naval and paramilitary forces as well as its increasingly sophisticated information operations to ratchet up tensions, probe responses, and see how much it can get away with. This raises the question of what exactly China is up to. Has Beijing truly embraced a new approach of cooperation with its neighbors? Is it trying to take advantage of the COVID-19 mess to assert its interests more aggressively? Or is this simply an extension — albeit an opportunistic one — of its pre-pandemic strategy? BECOME A MEMBER The novel coronavirus pandemic has not curtailed geopolitics — in fact, it seems to be intensifying preexisting tensions. Understanding if and how China’s foreign policy has shifted is critical for assessing what is happening along China’s periphery and what Beijing might do next. Answering these questions is necessary for the United States and its allies to fashion a proper response. This, in turn, demands understanding what Beijing was doing before the crisis and thinking through what might actually signal a significant shift toward a more confrontational foreign policy. How Did I Get Here? China’s Latest Moves Chinese ships and aircraft have been involved in a spate of recent incidents across China’s maritime periphery. While there have been no fatalities, lives were certainly put at risk. Considering these incidents have involved two of China’s primary regional rivals — Japan and Vietnam — as well as Taiwan, the possibility that Beijing may see the COVID-19 pandemic as an opportunity to press an advantage during a time of geopolitical distraction and uncertainty should be considered. In mid-March, a group of People’s Liberation Army (PLA) aircraft crossed the median line in the Taiwan Strait — an unofficial demarcation line between Taiwan and China — in an exercise intended to intimidate Taiwan by demonstrating China’s ability to conduct operations at night while also testing Taiwan’s ability to react. While PLA ships and aircraft have been operating within the vicinity of Taiwan for several years, the pace and assertiveness of these activities have noticeably increased in recent years: The latest incident was the fourth time in two months that PLA aircraft forced Taiwan’s air force to scramble and intercept. Considering the impending second inauguration of Taiwan’s leader, President Tsai Ing-wen, as well as dwindling levels of support in Taiwan for Beijing’s “One Country, Two Systems” formulation, these exercises are likely to grow even more common and assertive. In late March in the East China Sea, a Chinese fishing vessel collided with a Japanese destroyer. The collision ripped a hole in the destroyer, but the ship was able to move on its own, and its crew suffered no casualties. Beijing announced that one Chinese fisherman had been hurt and blamed the Japanese vessel for the incident, calling for Japan’s cooperation to prevent future incidents. It is unclear if the Chinese vessel was a part of China’s “maritime militia,” described by the U.S. Department of Defense as “an armed reserve force of civilians available for mobilization” that plays a “major role in coercive activities to achieve China’s political goals without fighting.” The South China Sea has also seen several recent incidents involving Chinese vessels. In early March, a Vietnamese fishing vessel was moored near a small island in the Paracel archipelago — islands claimed by both Vietnam and China, among others — when a Chinese vessel chased it and fired a water cannon, causing the boat to sink after hitting some rocks. The crew was rescued by another Vietnamese fishing boat, with Hanoi claiming that the fishing boat was rammed by the Chinese vessel. The U.S. State Department issued a statement in early April expressing its serious concerns about the incident and calling on China “to remain focused on supporting international efforts to combat the global pandemic, and to stop exploiting the distraction or vulnerability of other states to expand its unlawful claims in the South China Sea.” The State Department also noted that since the outbreak of the pandemic, “Beijing has also announced new ‘research stations’ on military bases it built on Fiery Cross Reef and Subi Reef, and landed special military aircraft on Fiery Cross Reef.” Most recently, a Chinese coast guard (CCG) ship — one of several Chinese ships that harassed a Philippine commercial vessel in September 2019 — was seen patrolling near the Scarborough Shoal, representing one of many CCG ships that have been patrolling nearly all of the disputed areas between China and the Philippines in the South China Sea. Are these incidents merely a coincidence? Are they a sign that Beijing is distracted by COVID-19 and the resulting historic economic slowdown, and aggressive local commanders are pushing the envelope of their own accord? Or is this merely the result of China fielding more ships and more aircraft, leading to a predictable increase in incidents and exercises? While these explanations are all plausible, a more likely driver of China’s actions is, in fact, continuity. These incidents are not unprecedented and likely do not indicate a new, post-pandemic Chinese strategy. Rather, these incidents are consistent with a Chinese approach to foreign affairs under CCP General Secretary Xi Jinping’s leadership that even before the outbreak of COVID-19 demonstrated flexibility, assertiveness, and a singular desire to exploit opportunities of external weakness and distraction in order to advance China’s interests. For more than a decade, Chinese leaders have come to see their external security environment as generally favorable, representing a “strategic window of opportunity” in which China could achieve its primary objective of national revitalization through economic and social development, military modernization, and the expansion of its regional and global influence. Since the 2008 to 2009 global financial crisis, Beijing has perceived an opportunity to expand its geopolitical power relative to the United States yet does not seek an explicit conflict with the United States or its allies. As a result, Beijing has intensified its use of “gray zone” tactics that seek to gradually advance Chinese interests using ambiguity and tactics that are tailored to not provoke a military retaliation. These activities also serve as “probing behavior” that tests how far China can go before encountering determined resistance. In recent years, Beijing has used this approach to increase pressure on Japan in the East China Sea and advance Beijing’s territorial claims in the South China Sea against the Philippines, Vietnam, Malaysia, and Indonesia. Throughout, Beijing’s approach to regional geopolitics has been adaptive to specific conditions, flexible to broader strategic trends, and opportunistic to perceptions of weakness or distraction in its adversaries. Chinese actions are not the reckless gambles they may initially appear to be. Rather, they are premeditated probes seeking to identify weakness and opportunity. Chinese pressure is carefully calibrated to fit, but not necessarily to exceed, a given situation. This approach reflects a maxim of Vladimir Lenin, whom the Chinese Communist Party continues to revere to this day: “Probe with a bayonet: if you meet steel, stop. If you meet mush, then push.” In multiple instances, Beijing has continued to push when it perceives that its actions are unlikely to cause a significant response. But when Chinese assertiveness has been met with resolute counterpressure, Beijing’s response has not been predictably escalatory.Beijing has demonstrated flexibility when confronted with determined opposition. Examples include Japan’s response to China’s rollout of an air defense identification zone in the East China Sea in 2013 and President Obama’s reported drawing of a red line around Scarborough Shoal to Xi Jinping in March 2016. Moreover, India’s response to Chinese activities in Doklam did not lead to war.

#### No miscalc – theoretically bankrupt and empirically denied.

Steven Staschwick, 10+ year Naval Officer, Research of East Asian Maritime Security, 03-06-20, The Diplomat, https://thediplomat.com/2020/03/a-cold-war-movies-wrong-lessons-about-u-s-china-competition/

Since both the United States and China have nuclear weapons, and especially in light of China’s efforts to improve the survivability of its nuclear missile submarines, a major armed conflict between the two should be deterred by the threat of mutual nuclear attack. The possibility of a non-nuclear conflict between them rests on the logic of the stability-instability paradox. This theory posits that two nuclear-armed countries both desire to avoid total destruction and therefore will avoid conflicts that risk escalating to that level of force. But as a result of that strategic-level stability, each feels secure in engaging in lower-intensity conflict, confident that the other would not risk nuclear escalation over comparatively minor provocations.

This is likely part of the reason that Chinese planes and ships, like the Soviets before them, have felt secure to engage in “games of chicken” with U.S. planes and ships resulting in incidents from the 2001 EP-3 collision in which a Chinese pilot died to near-collisions between warships in 2013 and 2018. The Hunt for Red October also suggests, incorrectly (or at least exaggeratedly), that dangerous incidents like these might lead to cataclysm.

In a scene where the National Security Advisor admonishes the Soviet Ambassador, he warns that U.S. and Soviet warships and planes operating close together was highly dangerous, and that “wars have begun that way.” It’s a concern both the United States and China have invoked about interactions between their navies when operating in the South China Sea, on the theory that an unintended incident might spark an armed clash and escalate from there. But as straightforward as the logic seems, the worry that incidents like these might lead to miscalculation and escalation appears unfounded, and historically, wars haven’t ever begun that way.

#### Tech competition replaces a war.

Lu Zhenhua 20, Wang Zili and Xu Heqian citing an interview with Professor Yan Xuetong, dean of the Institute of International Relations at Tsinghua University, 3/14/20, “China and the U.S. Won’t Go to War, but Will Fight for Tech Supremacy, Tsinghua Professor Says”, https://www.caixinglobal.com/2020-05-14/china-and-the-us-wont-go-to-war-but-will-fight-for-tech-supremacy-tsinghua-professor-says-101554127.html

“The more fierce China-U.S. tech competition gets, the less likely it is that they will resort to proxy wars for dominance on natural and geographic terms,” Yan said. “It’s not because they don’t want to use the proxy war strategy, but because it’s not a feasible way to compete in a digital era.”

As a result of the shift, Yan, who is also the general secretary of Beijing-based annual international security conference the World Peace Forum, believes that the world’s two largest economies won’t go to war over East Asia’s hotspots, such as the South China Sea and the Taiwan Strait, despite high tensions.

“It’s less likely that there will be a military mishap in those areas,” he said. “Even if it happens, the relevant parties will be able to swiftly contain it and avoid letting it escalate into a war.”

China has long protested the U.S. military’s “freedom of navigation” operations and fly-overs in the South China Sea, and the U.S. Navy’s operations in the Taiwan Strait.

Military mishaps have previously occurred in the South China Sea. In 2001, southeast of China’s Hainan province, a U.S. Navy plane on a surveillance mission collided with a Chinese PLA Navy jet. The U.S. plane’s crew was detained by Chinese authorities after an emergency landing on Hainan, while the pilot of the Chinese jet went missing and was later declared dead.

In late September 2018, a Chinese warship reportedly came within 41 meters of a U.S. destroyer sailing near the Spratly Islands, known in China as the Nansha Islands.

Yan said now “the three parties including the U.S., Chinese mainland and Taiwan region have all had their military activities under strict control.” None of the parties would intentionally engage in a conflict in either the South China Sea or Taiwan Strait, he said.

Meanwhile, the Covid-19 pandemic, which has infected over 4.3 million people and killed nearly 300,000 globally, will drive the two countries to focus on technological dominance.

#### Economics come first---China doesn’t escalate.

Yan Xuetong 19. Distinguished Professor and Dean of the Institute of International Relations at Tsinghua University. “The Age of Uneasy Peace.” <https://www.foreignaffairs.com/articles/china/2018-12-11/age-uneasy-peace>

What kind of world order will this bring? Contrary to what more alarmist voices have suggested, **a bipolar U.S.-Chinese world will** not be a world on the brink of apocalyptic war. This is in large part because China’s ambitions for the coming years are much narrower than many in the Western foreign policy establishment tend to assume. Rather than unseating the United States as the world’s premier superpower, Chinese foreign policy in the coming decade will largely focus on maintaining the conditions necessary for the country’s continued economic growth—a focus that will likely push leaders in Beijing to **steer clear of open confrontation** with the United States or its primary allies. Instead, the coming bipolarity will be an era of uneasy peace between the two superpowers. Both sides will build up their militaries but remain careful to manage tensions before they boil over into outright conflict. And rather than vie for global supremacy through opposing alliances, **Beijing and Washington will largely carry out their competition in the** [**economic**](https://www.foreignaffairs.com/articles/china/2018-11-27/there-no-grand-bargain-china) **and** [**technological**](https://www.foreignaffairs.com/articles/united-states/2018-10-19/can-pentagon-win-ai-arms-race) **realms**. At the same time, U.S.-Chinese bipolarity will likely spell the end of sustained multilateralism outside strictly economic realms, as the combination of nationalist populism in the West and China’s commitment to national sovereignty will leave little space for the kind of political integration and norm setting that was once the hallmark of liberal internationalism. WHAT CHINA WANTS China’s growing influence on the world stage has as much to do with the United States’ abdication of its global leadership under President Donald Trump as with China’s own economic rise. In material terms, the gap between the two countries has [not narrowed by much](https://www.foreignaffairs.com/articles/china/2018-09-21/stop-obsessing-about-china) in recent years: since 2015, China’s GDP growth has slowed to less than seven percent a year, and recent estimates put U.S. growth above the three percent mark. In the same period, the value of the renminbi has decreased by about ten percent against the U.S. dollar, undercutting China’s import capacity and its currency’s global strength. What has changed a great deal, however, is the expectation that the United States will continue to promote—through diplomacy and, if necessary, military power—an international order built for the most part around liberal internationalist principles. Under Trump, the country has broken with this tradition, questioning the value of free trade and embracing a virulent, no-holds-barred nationalism. The Trump administration is modernizing the U.S. nuclear arsenal, attempting to strong-arm friends and foes alike, and withdrawing from several international accords and institutions. In 2018 alone, it ditched the Intermediate-Range Nuclear Forces Treaty, the [nuclear deal with Iran](https://www.foreignaffairs.com/articles/2018-08-13/how-we-got-iran-deal), and the UN Human Rights Council. It is still unclear if this retrenchment is just a momentary lapse—a short-lived aberration from the norm—or a new U.S. foreign policy paradigm that could out-live Trump’s tenure. But the global fallout of Trumpism has already pushed some countries toward China in ways that would have seemed inconceivable a few years ago. Take Japanese Prime Minister Shinzo Abe, who effectively reversed Japan’s relations with China, from barely hidden hostility to [cooperation](https://www.scmp.com/news/china/diplomacy/article/2170436/china-japan-moving-competition-cooperation-leaders-say), during a state visit to Beijing in October 2018, when China and Japan signed over 50 agreements on economic cooperation. Meanwhile, structural factors keep widening the gap between the two global front-runners, China and the United States, and the rest of the world. Already, the two countries’ military spending dwarfs everybody else’s. By 2023, the U.S. defense budget may reach $800 billion, and the Chinese one may exceed $300 billion, whereas no other global power will spend more than $80 billion on its forces. The question, then, is not whether a bipolar U.S.-Chinese order will come to be but what this order will look like. At the top of Beijing’s priorities **is a liberal economic order built on free trade**. China’s economic transformation over the past decades from an agricultural society to a major global powerhouse—and the world’s second-largest economy—was built on exports. The country has slowly worked its way up the value chain, its exports beginning to compete with those of highly advanced economies. Now as then, these **exports are the lifeblood of the Chinese economy:** they ensure a consistent trade surplus, and the jobs they create are a vital engine of domestic social stability. There is no indication that **this will change** in the coming decade. Even amid escalating trade tensions between Beijing and Washington, China’s overall export volume continued to grow in 2018. **U.S. tariffs may sting**, **but they will neither change Beijing’s fundamental incentives nor portend a general turn away from global free trade on its part**. Quite to the contrary: because China’s exports are vital to its economic and political success, one should expect Beijing to double down **on its attempts to gain and maintain access to foreign markets**. This strategic impetus is at the heart of the much-touted [Belt and Road Initiative](https://www.foreignaffairs.com/articles/china/2018-10-24/why-democracies-are-turning-against-belt-and-road), through which China hopes to develop a vast network of land and sea routes that will connect its export hubs to far-flung markets. As of August 2018, some 70 countries and organizations had signed contracts with China for projects related to the initiative, and this number is set to increase in the coming years. At its 2017 National Congress, the Chinese Communist Party went so far as to enshrine a commitment to the initiative in its constitution—a signal that the party views the infrastructure project as more than a regular foreign policy. China is also willing to further open its domestic markets to foreign goods in exchange for greater access abroad. Just in time for a major trade fair in Shanghai in November 2018—designed to showcase the country’s potential as a destination for foreign goods—China lowered its general tariff from 10.5 percent to 7.8 percent. Given this enthusiasm for the global economy, the image of a revisionist China that has gained traction in many Western capitals is misleading. **Beijing relies on a global network of trade ties**, so it is loath to court direct confrontation **with the United State**s. Chinese leaders fear—not without reason—that such a confrontation might cut off its access to U.S. markets and lead U.S. allies to band together against China rather than stay neutral, stripping it of important economic partnerships and valuable diplomatic connections. As a result, **caution**, not assertiveness or aggressiveness, will be the order of the day **in Beijing’s foreign policy in the coming years**. Even as it continues to modernize and expand its military, **China will** carefully avoid pressing issues **that might lead to war with the United States, such as those related to the South China Sea, cybersecurity, and the weaponization of space**. NEW RULES? Indeed, much as Chinese leaders hope to be on par with their counterparts in Washington, they worry about the strategic implications of a bipolar U.S.-Chinese order. American leaders balk at the idea of relinquishing their position at the top of the global food chain and will likely go to great lengths to avoid having to accommodate China. Officials in Beijing, in no hurry to become the sole object of Washington’s [apprehension](https://www.foreignaffairs.com/articles/united-states/2018-02-13/china-reckoning) and scorn, would much rather see a multipolar world in which other challenges—and challengers—force the United States to cooperate with China. Chinese leaders worry about the strategic implications of a bipolar U.S.-Chinese order. In fact, the United States’ own rise in the nineteenth and early twentieth centuries provides something of a model for how the coming power transition may take place. Because the United Kingdom, the world’s undisputed hegemon at the time, was preoccupied with fending off a challenger in its vicinity—Germany—it did not bother much to contain the rise of a much bigger rival across the pond. China is hoping for a similar dynamic now, and recent history suggests it could indeed play out. In the early months of George W. Bush’s presidency, for instance, relations between Beijing and Washington were souring over regional disputes in the South China Sea, reaching a boiling point when a Chinese air force pilot died in a midair collision with a U.S. surveillance plane in April 2001. Following the 9/11 attacks a few months later, however, Washington came to see China as a useful strategic partner in its global fight against terrorism, and relations improved significantly over the rest of Bush’s two terms. Today, unfortunately, the list of common threats that could force the two countries to cooperate is short. After 17 years of counterterrorism campaigns, the sense of urgency that once surrounded the issue has faded. Climate change is just as unlikely to make the list of top threats anytime soon. The most plausible scenario is that a new global economic crisis in the coming years will push U.S. and Chinese leaders to shelve their disagreements for a moment to avoid economic calamity—but this, too, remains a hypothetical. To make matters worse, some points of potential conflict are here to stay—chief among them [Taiwan](https://www.foreignaffairs.com/articles/asia/2018-07-27/storm-brewing-taiwan-strait). Relations between Beijing and Taipei, already tense, have taken a turn for the worse in recent years. Taiwan’s current government, elected in 2016, has questioned the notion that mainland China and Taiwan form a single country, also known as the “one China” principle. A future government in Taipei might well push for de jure independence. Yet a Taiwanese independence referendum likely constitutes a redline for Beijing and may prompt it to take military action. If the United States were to respond by coming to Taiwan’s aid, a military intervention by Beijing could easily spiral into a full-fledged U.S.-Chinese war. To avoid such a crisis, Beijing is determined to nip any Taiwanese independence aspirations in the bud by political and economic means. As a result, it is likely to continue lobbying third countries to cut off their diplomatic ties with Taipei, an approach it has already taken with several Latin American countries. Cautious or not, China set somewhat different emphases in its approach to norms that undergird the international order. In particular, a more powerful China will push for a stronger emphasis on national sovereignty in international law. In recent years, some have [interpreted](https://www.ft.com/content/67ec2ec0-dca2-11e6-9d7c-be108f1c1dce) public statements by Chinese leaders in support of globalization as a sign that Beijing seeks to fashion itself as the global liberal order’s new custodian, yet such sweeping interpretations are wishful thinking: China is merely signaling its support for a liberal economic order, not for ever-increasing political integration. Beijing remains fearful of outside interference, particularly relating to Hong Kong, Taiwan, Tibet, and [Xinjiang](https://www.foreignaffairs.com/articles/china/2018-06-20/reeducation-returns-china), as well as on matters of press freedom and online regulations. As a result, it views national sovereignty, rather than international responsibilities and norms, as the fundamental principle on which the international order should rest. Even as a new superpower in the coming decade, China will therefore pursue a less interventionist foreign policy than the United States did at the apex of its power. Consider the case of Afghanistan: even though it is an open secret that the United States expects the Chinese military to shoulder some of the burden of maintaining stability there after U.S. troops leave the country, the Chinese government has shown no interest in this idea. Increased Chinese clout may also bring attempts to promote a vision of world order that draws on ancient Chinese philosophical traditions and theories of statecraft. One term in particular has been making the rounds in Beijing: wangdao, or “humane authority.” The word represents a view of China as an enlightened, benevolent hegemon whose power and legitimacy derive from its ability to fulfill other countries’ security and economic needs—in exchange for their acquiescence to Chinese leadership. BIPOLARITY IN PRACTICE Given the long shadow of nuclear escalation, **the** [**risk of a direct war**](https://www.foreignaffairs.com/articles/china/2018-10-15/beijings-nuclear-option) **between China and the United States will** remain minimal, even as military, technological, and economic competition between them intensifies. Efforts on both sides to build ever more effective antimissile shields are unlikely to change this, since neither China nor the United States can improve its antimissile systems to the point of making the country completely impervious to a nuclear counterattack. If anything, the United States’ withdrawal from the Intermediate-Range Nuclear Forces Treaty will encourage both sides to build up their nuclear forces and improve their second-strike capabilities, ensuring that neither side will be confident it can launch a nuclear attack on the other without suffering a devastating retaliation. The threat of nuclear war will also keep Chinese tensions with other nuclear-armed powers, such as India, from escalating into outright war. Proxy wars, however, cannot be ruled out, nor can military skirmishes among lesser states. In fact, the latter are likely to become more frequent, as the two superpowers’ restraint may embolden some smaller states to resolve local conflicts by force. Russia, in particular, may not shy away from war as it tries to regain its superpower status and maintain its influence in eastern Europe and the Middle East. Faced with calls to reform the UN Security Council, fraying powers such as France and the United Kingdom may seek to buttress their claim to permanent membership in the council through military interventions abroad. In the Middle East, meanwhile, the struggle for regional dominance among Iran, Turkey, and Saudi Arabia shows no signs of abating. Across the globe, secessionist conflicts and terrorist attacks will continue to occur, the latter especially if competition between China and the United States reduces their cooperation on counterterrorism measures. China’s emphasis on national sovereignty, together with Western societies’ turn away from globalism, will deal an additional blow to multilateralism. In the economic realm, export-driven economies, such as China, Germany, and Japan, will ensure the survival of a global liberal trade regime built on free-trade agreements and membership in the World Trade Organization—no matter what path the United States takes. On other matters of global governance, however, cooperation is likely to stall. Even if a future U.S. administration led a renewed push toward multilateralism and international norm setting, China’s status as a junior superpower would make it difficult for the United States to sustain the strong leadership that has traditionally spurred such initiatives in the past. Differences in ideology and clashing security interests will prevent Beijing and Washington from leading jointly, but neither will have enough economic or military clout to lead on its own. To the extent that multilateral initiatives persist in such a world, they will be limited to either side’s respective sphere of influence. China’s emphasis on national sovereignty, together with Western societies’ turn away from globalism, will deal an additional blow to multilateralism. The European Union is already fraying, and a number of European countries have reintroduced border controls. In the coming decade, similar developments will come to pass in other domains. As technological innovation becomes the primary source of wealth, countries will become ever more protective of their intellectual property. Many countries are also tightening control of capital flows as they brace for a global economic slump in the near future. And as concerns over immigration and unemployment threaten to undermine Western governments’ legitimacy, more and more countries will increase visa restrictions for foreign workers. Unlike the order that prevailed during the Cold War, a bipolar U.S.-Chinese order will be shaped by fluid, issue-specific alliances **rather than rigid opposing blocs** divided along clear ideological lines. Since the immediate risk of a U.S.-Chinese war is vanishingly small, **neither side appears willing to build or maintain an extensive**—and expensive—**network of alliances**. China still avoids forming explicit alliances, and the United States regularly complains about free-riding allies. Moreover, neither side is currently able to offer a grand narrative or global vision appealing to large majorities at home, let alone to a large number of states. For some time to come, then, **U.S.-Chinese bipolarity will not be an ideologically driven, existential conflict over the fundamental nature of the global order**; rather, it will be a competition over consumer markets and technological advantages, playing out in disputes about the norms and rules governing trade, investment, employment, exchange rates, and intellectual property. And rather than form clearly defined military-economic blocs, most states will adopt a two-track foreign policy, siding with the United States on some issues and China on others. Western allies, for instance, are still closely aligned with the United States on traditional security matters inside NATO, and Australia, India, and Japan have supported the U.S. strategy in the Indo-Pacific. At the same time, these states still maintain close trade and investment relations with China, and several of them have sided with Beijing in trying to reform the World Trade Organization. This two-track strategy shows just how far down the road to bipolarity the world has already advanced. And the fundamental driver of this process—the raw economic and military clout on which American and, increasingly, Chinese dominance rests—will further cement Beijing’s and Washington’s status as the two global heavyweights in the coming decade. **Whether or not the United States recovers from its Trumpian fever and leads a renewed push for global liberalism is**, ultimately, of little consequence to the outcome: **opposed in their strategic interests but evenly matched in their power, China and the United States will be unable to challenge each other directly and settle the struggle for supremacy definitively**. As during the Cold War, each side’s nuclear warheads will prevent proxy conflicts from easily escalating into a direct confrontation between the two superpowers. More important still, **China’s leadership is** acutely aware of the benefits **its country derives from the status quo**, for now—**it is chief among the conditions for China’s continued economic and soft-power expansion**—**and will** avoid **putting these** benefits on the line anytime soon, unless China’s core interests are in the balance. Chinese leaders will therefore work hard to avoid setting off alarm bells in already jittery Western capitals, and their foreign policy in the coming years will reflect this objective. **Expect recurring tensions and fierce competition, yes, but** not a descent into global chaos.