

# Covid-19 Pandemic: “Capitalism is a disease hotspot”

Tuesday 17 March 2020, by [WALLACE Rob](#) (Date first published: 12 March 2020).

## Yaak Pabst interviews Monthly Review Press author Rob Wallace about the coronavirus pandemic

### Contents

- [Interview with Marx21](#)
- [Additional Interview Questions](#)

Editors note: The present version contains a handful of minor edits and corrections to the original Marx21 interview. Two additional questions from Luca de Crescenzo for an Italian translation have also been appended to the end of the original interview. In addition to *Big Farms Make Big Flu* (Monthly Review Press, 2016), we highly recommend Rob Wallace’s article, “Notes on a novel coronavirus,” published in the early stages of the outbreak (January 29, 2020) [[1](#)].

As Wallace pointed out then:

*“While authorities stumble about figuring out what to do, the scale of impact can suddenly engage in escape velocity. As 2019-nCoV itself demonstrated moving from a single food market to the world stage in a month, the numbers can ramp up so far and fast that an epidemiologist’s best effort, their raison d’être, is dealt a lethal blow by facts on the ground.”*



*Big Farms Make Big Flu: Dispatches on Infectious Disease, Agribusiness, and the Nature of Science*

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## Interview with Marx21

**The coronavirus is keeping the world in a state of shock. But instead of fighting the structural causes of the pandemic, the government is simply focusing on emergency measures. Evolutionary biologist and public health phylogeographer Rob Wallace talks with Yaak Pabst about the dangers of Covid-19, the responsibility of agribusiness and sustainable solutions to combat infectious diseases. — Marx21 Eds.**

### **Yaak Pabst — How dangerous is the new coronavirus?**

Rob Wallace - It depends on where you are in the timing of your local outbreak of Covid-19: early, peak level, late? How good is your region's public health response? What are your demographics? How old are you? Are you immunologically compromised? What is your underlying health? To ask an undiagnosable possibility, do your immunogenetics, the genetics underlying your immune response, line up with the virus or not?

### **So all this fuss about the virus is just scare tactics?**

No, certainly not. At the population level, Covid-19 was clocking in at between 2 and 4% case fatality ratio or CFR at the start of the outbreak in Wuhan. Outside Wuhan, the CFR appears to drop off to more like 1% and even less, but also appears to spike in spots here and there, including in places in Italy and the United States. Its range doesn't seem much in comparison to, say, SARS at 10%, the influenza of 1918 5-20%, avian influenza H5N1 60%, or at some points Ebola 90%. But it certainly exceeds seasonal influenza's 0.1% CFR. The danger isn't just a matter of the death rate, however. We have to grapple with what's called "penetrance" or community attack rate: how much of the global population is penetrated by the outbreak.

### **Can you be more specific?**

The global travel network is at record connectivity. With no vaccines or specific antivirals for coronaviruses, nor at this point any herd immunity to the virus, even a strain at only 1% mortality can present a considerable danger. With an incubation period of up to two weeks and increasing evidence of some transmission before sickness—before we know people are infected—few places would likely be free of infection. If, say, Covid-19 registers 1% fatality in the course of infecting four billion people, that's 40 million dead. A small proportion of a large number can still be a large number.

### **Those are frightening numbers for an ostensibly less than virulent pathogen!**

Definitely and we are only at the beginning of the outbreak. It's important to understand that many new infections change over the course of epidemics. In some cases, infectivity, virulence, or both may attenuate. In others, outbreaks may ramp up in virulence. The first wave of the influenza pandemic in the spring of 1918 was a relatively mild infection. It was the second and third waves that winter and into 1919 that killed millions.

But pandemic skeptics argue that far fewer patients have been infected and killed by the coronavirus than by the typical seasonal flu. What do you think about that?

I would be the first to celebrate if this outbreak proves a dud. But these efforts to dismiss Covid-19 as a possible danger by citing other deadly diseases, especially influenza, is a rhetorical device to spin concern about the coronavirus as badly placed.

## **So the comparison with seasonal flu is limping?**

It makes little sense to compare two pathogens on different parts of their epicurves. Yes, seasonal influenza infects many millions worldwide each other, killing, by WHO estimates, up to 650,000 people a year. Covid-19, however, is only starting its epidemiological journey. And unlike influenza, we have neither vaccine, nor herd immunity to slow infection and protect the most vulnerable populations.

Even if the comparison is misleading, both diseases belong to viruses, even to a specific group, the RNA viruses. Both Covid-19 and the seasonal flu can cause disease, affect the mouth and throat area (and sometimes also the lungs), and are quite contagious—correct?

Those are superficial similarities that miss a critical part in comparing two pathogens. We know a lot about influenza's dynamics. We know very little about Covid-19's. They're steeped in unknowns. Indeed, there is much about Covid-19 that is even unknowable until the outbreak plays out fully. At the same time, it is important to understand that it isn't a matter of Covid-19 versus influenza. It's Covid-19 and influenza. The emergence of multiple infections capable of going pandemic, attacking populations in combos, should be the front and center worry.

You have been researching epidemics and their causes for several years. In your book *Big Farms Make Big Flu* you attempt to draw these connections between industrial farming practices, organic farming and viral epidemiology. What are your insights?

The real danger of each new outbreak is the failure or—better put—the expedient refusal to grasp that each new Covid-19 is no isolated incident. The increased occurrence of viruses is closely linked to food production and the profitability of multinational corporations. Anyone who aims to understand why viruses are becoming more dangerous must investigate the industrial model of agriculture and, more specifically, livestock production. At present, few governments, and few scientists, are prepared to do so. Quite the contrary.

When the new outbreaks spring up, governments, the media, and even most of the medical establishment are so focused on each separate emergency that they dismiss the structural causes that are driving multiple marginalized pathogens into sudden global celebrity, one after the other.

## **Who is to blame?**

I said industrial agriculture, but there's a larger scope to it. Capital is spearheading land grabs into the last of primary forest and smallholder-held farmland worldwide. These investments drive the deforestation and development leading to disease emergence. The functional diversity and complexity these huge tracts of land represent are being streamlined in such a way that previously boxed-in pathogens are spilling over into local livestock and human communities. In short, capital centers, places such as London, New York, and Hong Kong, should be considered our primary disease hotspots.



*An illustration of the ecology of vector-borne diseases like the 2018 ebolavirus and 2019 coronavirus*

*(Covid-19) by the artist Olaf Hajek.  
For which diseases is this the case?*

There are no capital-free pathogens at this point. Even the most remote are affected, if distally. Ebola, Zika, the coronaviruses, yellow fever again, a variety of avian influenzas, and African swine fever in hog are among the many pathogens making their way out of the most remote hinterlands into peri-urban loops, regional capitals, and ultimately into the global travel network. From fruit bats in the Congo to killing Miami sunbathers in a few weeks' time.

### **What is the role of multinational companies in this process?**

Planet Earth is largely Planet Farm at this point, in both biomass and land used. Agribusiness is aiming to corner the food market. The near-entirety of the neoliberal project is organized around supporting efforts by companies based in the more advanced industrialised countries to steal the land and resources of weaker countries. As a result, many of those new pathogens previously held in check by long-evolved forest ecologies are being sprung free, threatening the whole world.

### **What effects do the production methods of agribusinesses have on this?**

The capital-led agriculture that replaces more natural ecologies offers the exact means by which pathogens can evolve the most virulent and infectious phenotypes. You couldn't design a better system to breed deadly diseases.

### **How so?**

Growing genetic monocultures of domestic animals removes whatever immune firebreaks may be available to slow down transmission. Larger population sizes and densities facilitate greater rates of transmission. Such crowded conditions depress immune response. High throughput, a part of any industrial production, provides a continually renewed supply of susceptibles, the fuel for the evolution of virulence. In other words, agribusiness is so focused on profits that selecting for a virus that might kill a billion people is treated as a worthy risk.

### **What?!**

These companies can just externalize the costs of their epidemiologically dangerous operations on everyone else. From the animals themselves to consumers, farmworkers, local environments, and governments across jurisdictions. The damages are so extensive that if we were to return those costs onto company balance sheets, agribusiness as we know it would be ended forever. No company could support the costs of the damage it imposes.

### **In many media it is claimed that the starting point of the coronavirus was an exotic food market in Wuhan. Is this description true?**

Yes and no. There are spatial clues in favor of the notion. Contact tracing linked infections back to the Hunan Wholesale Sea Food Market in Wuhan, where wild animals were sold. Environmental sampling does appear to pinpoint the west end of the market where wild animals were held.

But how far back and how widely should we investigate? When exactly did the emergency really begin? The focus on the market misses the origins of wild agriculture out in the hinterlands and its increasing capitalization. Globally, and in China, wild food is becoming more formalized as an economic sector. But its relationship with industrial agriculture extends beyond merely sharing the same moneybags. As industrial production—hog, poultry, and the like—expand into primary forest, it places pressure on wild food operators to dredge further into the forest for source populations,

increasing the interface with, and spillover of, new pathogens, including Covid-19.

**Covid-19 is not the first virus to develop in China that the government tried to cover it up.**

Yes, but this is no Chinese exceptionalism. The U.S. and Europe have served as ground zeros for new influenzas as well, recently H5N2 and H5Nx, and their multinationals and neocolonial proxies drove the emergence of Ebola in West Africa and Zika in Brazil. U.S. public health officials covered for agribusiness during the H1N1 (2009) and H5N2 outbreaks.

**The World Health Organization (WHO) has now declared a health emergency of international concern. Is this step correct?**

Yes. The danger of such a pathogen is that health authorities do not have a handle on the statistical risk distribution. We have no idea how the pathogen may respond. We went from an outbreak in a market to infections splattered across the world in a matter of weeks. The pathogen could just burn out. That would be great. But we don't know. Better preparation would better the odds of undercutting the pathogen's escape velocity.

The WHO's declaration is also part of what I call pandemic theater. International organizations have died in the face of inaction. The League of Nations comes to mind. The UN group of organizations is always worried about its relevance, power, and funding. But such actionism can also converge on the actual preparation and prevention the world needs to disrupt Covid-19's chains of transmission.

**The neoliberal restructuring of the health care system has worsened both the research and the general care of patients, for example in hospitals. What difference could a better funded healthcare system make to fight the virus?**

There's the terrible but telling story of the Miami medical device company employee [2] who upon returning from China with flu-like symptoms did the righteous thing by his family and community and demanded a local hospital test him for Covid-19. He worried that his minimal Obamacare option wouldn't cover the tests. He was right. He was suddenly on the hook for US\$3270. An American demand might be an emergency order be passed that stipulates that during a pandemic outbreak, all outstanding medical bills related to testing for infection and for treatment following a positive test would be paid for by the federal government. We want to encourage people to seek help, after all, rather than hide away—and infect others—because they can't afford treatment. The obvious solution is a national health service—fully staffed and equipped to handle such community-wide emergencies—so that such a ridiculous problem as discouraging community cooperation would never arise.

**As soon as the virus is discovered in one country, governments everywhere react with authoritarian and punitive measures, such as a compulsory quarantine of entire areas of land and cities. Are such drastic measures justified?**

Using an outbreak to beta-test the latest in autocratic control post-outbreak is disaster capitalism gone off the rails. In terms of public health, I would err on the side of trust and compassion, which are important epidemiological variables. Without either, jurisdictions lose their populations' support. A sense of solidarity and common respect is a critical part of eliciting the cooperation we need to survive such threats together. Self-quarantines with the proper support—check-ins by trained neighborhood brigades, food supply trucks going door-to-door, work release and unemployment insurance—can elicit that kind of cooperation, that we are all in this together.

As you may know, in Germany with the AfD we have a de facto Nazi party with 94 seats in

parliament. The hard Nazi Right and other groups in association with AfD politicians use the Coronavirus Crisis for their agitation. They spread (false) reports about the virus and demand more authoritarian measures from the government—restriction flights and entry stops for migrants, border closures and forced quarantine.

Travel bans and border closures are demands with which the radical right wants to racialize what are now global diseases. This is, of course, nonsense. At this point, given the virus is already on its way to spreading everywhere, the sensible thing to do is to work on developing the kind of public health resilience in which it doesn't matter who shows up with an infection, we have the means to treat and cure them. Of course, stop stealing people's land abroad and driving the exoduses in the first place, and we can keep the pathogens from continually emerging.

### **What would be sustainable changes?**

In order to reduce the emergence of new virus outbreaks, food production has to change radically. Farmer autonomy and a strong public sector can curb environmental ratchets and runaway infections. Introduce varieties of stock and crops—and strategic rewilding—at both the farm and regional levels. Permit food animals to reproduce on-site to pass on tested immunities. Connect just production with just circulation. Subsidize price supports and consumer purchasing programs supporting agroecological production. Defend these experiments from both the compulsions that neoliberal economics impose upon individuals and communities alike and the threat of capital-led State repression.

### **What should socialists call for in the face of the increasing dynamics of disease outbreaks?**

Agribusiness as a mode of social reproduction must be ended for good if only as a matter of public health. Highly capitalized production of food depends on practices that endanger the entirety of humanity, in this case helping unleash a new deadly pandemic. We should demand food systems be socialized in such a way that pathogens this dangerous are kept from emerging in the first place. That will require reintegrating food production into the needs of rural communities first. That will require agroecological practices that protect the environment and farmers as they grow our food. Big picture, we must heal the metabolic rifts separating our ecologies from our economies. In short, we have a planet to win.

Thank you very much for the interview.

• Originally published: Marx21 (March 11, 2020)

<https://www.marx21.de/coronavirus-agribusiness-would-risk-millions-of-deaths/>

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## **Additional Interview Questions for Jacobin (Italia)**

**Note: The two questions below from Luca de Crescenzo were added to an Italian translation of the interview for Jacobin (Italia) [3]. —Eds.**

**Luca de Crescenzo - I would like you to add a comment about the recent proposal of the UK authorities not to take drastic measures to contain the virus and to bet on the development of the herd immunity instead. You wrote: this is a failure that pretends to be a solution.**

## Can you explain that?

Rob Wallace - The Tories are asserting joining the U.S. in effectively denying health care is the best active cure. The government is looking at parlaying its late response into letting Covid-19 work through the population to produce the herd immunity it says will protect the most vulnerable.

This is the utter opposite of “do no harm,” as the doctor’s oath goes. This is let’s do maximum damage.

Herd immunity is treated in epidemiological circles as at best a dirty collateral benefit of an outbreak. Enough people carry antibodies from the last outbreak to keep the susceptible population low enough that no new infection could support itself, protecting even those who haven’t been previously exposed. It’s often no more than a passing effect, however, if the pathogen in question evolves out from underneath the population blanket.

We do better in inducing such immunity by campaigns in vaccination. Typically such an effect requires a wide majority of people vaccinated to work. Which, outside market failures in producing vaccines, is routinely no problem as nearly no one dies from them.

Given the trail of dead of a deadly pandemic, no public health system would actively seek out such a post-hoc epiphenomenon as an instrumental objective. No government charged with protecting a population’s very lives would allow such a pathogen to run unimpeded—whatever handwaving is made about “delaying” spread as if a government already a step behind in responding can exercise such magical control. A campaign of active neglect would kill hundreds of thousands of the very vulnerable the Tories claim they wish to protect.

But destroying the village to save it is the core premise of a State of the most virulent class character. It’s the sign of an exhausted empire that, unable to follow China and other countries in putting up a fight, pretends, as I wrote, that its failures are exactly the solution.

**In Italy despite the quarantine and apart from the few who are working from home, a lot of workers still go to work everyday. Many shops are closed but most of the factories are open, even those which don’t produce necessary goods. Recently, the trade unions and the federation of the Italian employers have reached an agreement about safety and security measures at the workplace, which gives to the companies only “recommendations” about distance, cleanness, use of masks, without much specification. There are strong reasons to believe they will not be respected. What’s your take on that? Is the relative power of workers an epidemiological variable?**

Working people are treated as cannon fodder. Not only on the battlefield, but back home. Here you have a virus ripping through the Italian population at a rate that exceeds that of the pace it went through China, and capital is pretending it is business—their business—as usual. Negotiating a detente that permits this work to continue without biolab-level precautions is destructive both to workers’ standing—you’re signaling you’ll eat any bowl of shit they serve up—and to the very health of the nation.

If not for your unions’ very legitimacy, then for your very lives, and those of your most vulnerable co-workers and community members: *shut those factories down!* Italy’s spike in cases is so dizzying that self-quarantine and negotiated working conditions won’t be enough to quash the outbreak. Covid-19 is too infectious and under a medical gridlock too deadly for half-measures. Italy is being invaded by a virus that is kicking the country’s ass, with street fighting door-to-door and home-to-home.



## What I'm getting at is that Italy needs to snap the fuck out of it already!

Yes, workers routinely hold up the sky during dark and dangerous days, including during a deadly outbreak. But if the work isn't a matter of the day-to-day operations required during communal quarantine, shut it down. As in countries around the world, the government must then be held responsible for covering the salaries of the workers who have walked off the job in service of the nation's public health.

It's not my call, and my own country is totally botching its response to the pandemic, but should capital resist such efforts to protect the lives of millions, working Italians—as working people elsewhere—should consider tapping into their proud history of labor militancy and find a means by which to wrestle operative command from the greedy and incompetent. If factories producing non-essential goods are still running, that means management and the moneybags behind them don't give a fuck about you. Even now the chief financial officer upstairs is proving himself more than happy to fold in dead workers into the costs of production if he can get away with it.

It wouldn't be the first time the people of the region pushed back during an outbreak. Historian Sheldon Watts (in [Epidemics & History](#)) noted one unexpected reversal in early disaster capitalism:

*"In their rush to save themselves [from plague] by flight, Florentine magistrates worried that the common people left behind would seize control of the city; the fear was perhaps justified. In the summer of 1378 when factional disputes temporarily immobilized the Florentine elite, rebellious woolworkers won control of the government and remained in power for several months."*

*"Several months today might save many thousands of lives. With many countries ten days out from finding themselves in Italy's predicament, working Italians can offer an example for the rest of the world that the lives of everyday people matter more than somebody else's profit."*

**Rob Wallace**

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## P.S.

- Monthly Review. Posted Mar 12, 2020 : <https://mronline.org/2020/03/12/capitalism-is-a-disease-hotspot/>
  - Rob Wallace is an evolutionary biologist and public health phylogeographer presently visiting the Institute for Global Studies at the University of Minnesota. He is author of *Big Farms Make Big Flu* and the soon to be published *Revolution Space*, both with Monthly Review Press. He is co-author of *Neoliberal Ebola: Modeling Disease Emergence from Finance to Forest and Farm*, and *Clear-Cutting Disease Control: Capital-Led Deforestation, Public Health Austerity, and Vector-Borne Infection*. He has consulted for the Food and Agriculture Organization of the United Nations and the Centers for Disease Control and Prevention.
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## Footnotes

[1] Available on ESSF (article 51962), [Notes on a novel coronavirus - Capitalism, Agribusiness, Pandemics, Ecosocialism](#).



[2] <https://www.miamiherald.com/news/health-care/article240476806.html>

[3] <https://jacobinitalia.it>