We need some discussion to get consciousness about seriousness of mosquito-caused diseases and to think about necessity of mosquitoes extinction once. I will argue that it is necessary to extinct mosquitoes.

Why we should extinct mosquitoes? At first, we should extinct them because we must save a plenty of people dying. Which animal do you think that kills humans the most? Surprisingly, It is mosquitoes.[[1]](#footnote-1) According to research of WHO, 725,000 people died every year because of mosquitoes.[[2]](#footnote-2) Also 90% of victims are under age 5.[[3]](#footnote-3) We are just seeing these kids are dying although knowing solution which can extinct mosquitoes. We should save them naturally rather than just seeing. If you ask why we should save them, let me explain a law. In France, there is a law named “Good Samaritan Law”. This law punishes a person who did not try to rescue an endangered person on purpose, even though he or she is not in danger at that time. A person who violates this law can get imprisonment for 3 months to 5 years.[[4]](#footnote-4) In fact, a little exaggerated, we all violate this law. Because many experts worldwide have made solutions to extinct mosquitoes and one of solutions using genital deformation dropped 95% of mosquito population in Fresno, California.[[5]](#footnote-5) So we can save them all with this solution! If we would not execute this, there is a certain ethical problem to us at least.

Next, It is much better to completely extinct mosquitoes rather than dedicating to progress our medical power. Because although many people in medical are dedicating in treatment, the diseases which are related to mosquitoes are getting worse in fact. For instance, resistance of mosquitoes to our drug, which is named SP, evolved rapidly. And now occurs at high frequency in major malarious regions.[[6]](#footnote-6) By having more resistance to drugs, mosquito diseases will become stronger and more problematic. JG Breman, author of an article, predicted the number of victims go double over the next 20 year.[[7]](#footnote-7)

At last, cost can be another reason why we should extinct mosquitoes. Because it is not just big money. Its amount is astronomical. In 2017, 3.1 billion dollar was invested in malaria control and elimination efforts. There were an estimated 219 million patients of malaria in 2017.[[8]](#footnote-8) If we give these costs to every patient of malaria, it would cost less than $15 per person. But it would become water where there has insufficient water. And it would become food where there has few food. It's clear that the accumulated cost of going out every year can lead to a better life for more people.

Unfortunately, there are people who strongly argue that we should keep mosquitoes. Why do they oppose extinction? Because extinction of mosquitoes is not only related to scientific issue, but also moral issue. "It would be morally wrong to remove an entire species," says Jonathan Pugh, from Oxford University's Uehiro Centre for Practical Ethics. And the reason he says, it is completely unacceptable to deliberately extinct a species which is a danger to humans when it is humans that are a danger to so many species.[[9]](#footnote-9)

Next, some people strongly oppose extinction because mosquitoes affect to the balance of a number of other species and following moral issue becomes bigger. In the absence of mosquito’s larva, hundreds of species of fish would have to change their meal to survive. "This may sound simple, but traits such as feeding behaviour are deeply imprinted, genetically, in those fish," says Harrison. Many species of spider, salamander, lizard and frog would also lose a primary food source.[[10]](#footnote-10) So if mosquitoes were disappeared, the number of predators that feed on them will decrease. Also the number of upper level predators will also naturally decrease. In extreme cases, some species of them might be extincted. Moreover, plants are also not exception. Kakao tree is only pollinated by mosquitoes. Evolutionary ecologist Dina Fonseca at Rutgers University in New Brunswick, warned that mosquitoes are pollinators of tropical crops such as kakao, "that would result in a world without chocolate".[[11]](#footnote-11)

It is true that we face moral issue for extinction because it is contradictory to extinct some species as mosquitoes though we are a danger to them. However, we should still extinct mosquitoes. Because we have not been considered this kind of moral issue as problematic until now. Humans have unconsciously extincted many innocent species. International Union for Conservation of Nature(IUCN) reported that 467 species were extincted in the 2010s.[[12]](#footnote-12) Also, In 2019 may, a report released that about 1 million species of animals and plants would be extincted if humans do not take the necessary actions to preserve them.[[13]](#footnote-13) In the ecosystem, we humans are already top level predators. It is even less wrong action to extinct mosquitoes because in this case, we have proper cause that they also kill many of us.

Next, it is also true that mosquitoes are primary prey to many predators or pollinators to some plants. So if we extinct mosquitoes, balance of ecosystem will be shaked. Also it may become big danger to us if more species extinct together. But I do not change my opinion because it will not make severe problem eventually. Like I said right above, many species have been disappeared so far. But the number of species in ecosystem automatically have been rebalanced until now by changing main meal, moving residences. For instance, after ice in North pole started melting, polar bears changed their meal. They adapted by eating other locally available prey such as harp seals and belugas instead of their main meal named ringed seals.[[14]](#footnote-14) Moreover, there are grounded guesses of experts who said that there are some alternative feeding to predators which feed on mosquitoes. Medical entomologist Janet McAllister of the Centers for Disease Control and Prevention in Fort Collins, Colorado, says that "are you going to eat the 22-ounce filet-mignon moth or the 6-ounce hamburger mosquito?"[[15]](#footnote-15) It means that after mosquitoes extinct, some other food will be emerged.

Until now, I’ve talked about necessity of mosquitoes extinction and some sharp opposing arguments. I think we should extinct mosquitoes accepting some bad changes of ecosystem. But nobody knows what future will be. So I think we should try to make mutually safe environment first before considering extinction. Then if it is impossible, we should focus on our comfort life rather than mosquito’s comfort life, remembering people dying every year. I hope that next author whom is interested, talks about actual possibility of whether we can extinct mosquitoes in detail.

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