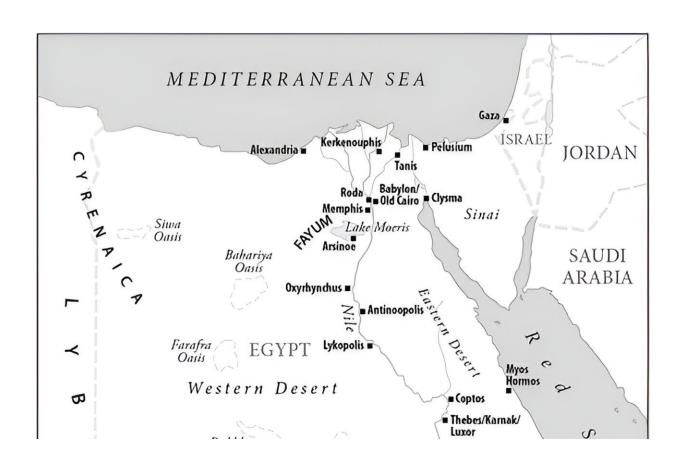


The plague came from Egypt: Myth or reality?

December 12 2023, by Noemi Kern



Egypt and Northeast Africa in Antiquity, with Modern Geographical Boundaries. Credit: *The Journal of Interdisciplinary History* (2023). DOI: 10.1162/jinh_a_01977

Many reports from antiquity about outbreaks of plague mention Egypt as the source of pestilences that reached the Mediterranean. But was this



really the case? Researchers from the University of Basel are conducting a critical analysis of the ancient written and documentary evidence combined with archaeogenetic findings to add some context to the traditional view.

Red and inflamed eyes, bad breath, fever, violent convulsions, boils and blisters over the entire body: these and other symptoms are mentioned by historian Thucydides in connection with the "Plague of Athens," which lasted from 430 to 426 BCE. He suspected that the <u>epidemic</u> originated in Aithiopia.

"This area isn't to be confused with the country we now know as Ethiopia, but was a more general term used at the time to refer to the region south of Egypt," explains Professor Sabine Huebner, Professor of Ancient History at the University of Basel.

Contemporary accounts suggest that later epidemics in the Mediterranean also started in Egypt and Aithiopia, such as the Antonine Plague, the Plague of Cyprian and the Justinianic Plague, which ravaged the ancient world between the second and sixth centuries.

Papyri providing new information

Was Egypt actually a gateway for pathogens spreading into the Mediterranean? Sabine Huebner and postdoc Dr. Brandon McDonald wanted to know more. As part of a project supported by the Swiss National Science Foundation, they searched all available sources from antiquity—in particular papyri—for information about epidemics associated with Egypt. They recently published their findings in the *Journal of Interdisciplinary History*.

In the case of the Justinianic Plague (541 to 544 CE), they found various references to the epidemic having first reached the Mediterranean world



in Egypt before spreading into the Sea. But things looked rather different with the Antonine Plague (165 to at least 180 CE) and the Cyprian Plague (251 to 270 CE). "There's no clear proof that these two epidemics spread from Africa," says Sabine Huebner.

Transport hub as a catalyst

Although it's not possible to prove that Egypt was responsible in all cases, the evidence suggests that Egypt did indeed facilitate the spread of some infectious diseases into the Mediterranean.

As Sabine Huebner explains, "There are credible reports by medical writers from Roman times who describe disease outbreaks that were very likely to have been bubonic <u>plague</u> in early Roman Libya, Egypt and Syria." Several factors were at play that were beneficial to both the emergence and spread of pathogens.

One key driver of the rapid and large-scale spread of diseases was trade. For centuries Egypt was the "breadbasket of Rome," growing and exported grain in abundance. Goods from Central Africa and South Asia reached the Mediterranean Sea via the Nile and the Red Sea. They were then loaded onto ships at the Egyptian ports of Alexandria and Pelusium. This brought together people from a variety of different regions.

Pathogens also tended to develop along the Nile rather than in the hot, dry desert climate where there were fewer hosts for viruses and bacteria.

"Climatic changes were also beneficial to the emergence and spread of epidemics," explains co-author Brandon McDonald. The study shows that milder flooding of the Nile, or indeed no flooding at all, may have led to poor harvests and food shortage, which probably resulted in malnourished populations. This may have provided favorable conditions for the outbreak of diseases.



"Climatic changes themselves have an important effect on disease carriers such as fleas and mosquitoes," says McDonald. There may therefore be a connection between climate change and the outbreak of ancient epidemics, but the specific interactions need to be studied in more detail.

Additional archaeogenetic studies are currently being carried out as part of the aforementioned project. They are providing new information about pathogens from the ancient world and the societies affected by them. The studies may also contribute to our understanding of the evolution of pathogens and epidemiology over time and space.

The Thucydides model

So why do Greek and Roman accounts mention Egypt and Aithiopia as the origin of plagues if that wasn't the case?

Sabine Huebner says, "On the one hand, the idea of Egypt as the birthplace of epidemics is one that's steeped in tradition; neighboring societies such as the Hittites, the Israelites and the Greeks considered Egypt to be permeated by illness. Descriptions of these epidemics in Hittite or Egyptian sources or in the Old Testament are reminiscent of smallpox or bubonic plague."

And for his part, Thucydides helped lay the foundations for the continuation of this perception. "His accounts developed into a literary topos to a certain extent," says Huebner.

"As a historian of the Peloponnesian War, Thucydides set new standards in terms of style and the way in which historiography was conducted. This made him a <u>role model</u> for many later historians."

Later authors aligned with Thucydides' famous description of the Plague



of Athens in their depictions of disease events, that they themselves experienced, carrying over the origin of the epidemic that he so vividly recounted.

More information: Sabine R. Huebner et al, Egypt as a Gateway for the Passage of Pathogens into the Ancient Mediterranean, *The Journal of Interdisciplinary History* (2023). DOI: 10.1162/jinh a 01977

Provided by University of Basel

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