275 YEARS SINCE THE EPIDEMIC OF PLAGUE IN CLUJ:
DR. ALEXANDRU LENGHEL’S CONTRIBUTION TO ITS
INVESTIGATION

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Abstract

Plague is one of the most impressive diseases in the cultural history of mankind. Its lethality has influenced the evolution of society and it is frequently represented in fine arts and literature.

The principality of Transylvania was also affected by this infection, the plague having strongly impacted both economic and social development.

Between 1738 and 1739 an important plague epidemic spread in Transylvania. The authors introduce and discuss a less known work on this epidemic, with focus on its impact on the city of Cluj - a book written in 1930 by Dr. Alexandru Lenghel, who later became a target of political persecution during the Stalinist period, while his work entered a cone of shadow.

Keywords: Cluj, history of medicine, plague

Introduction

Plague Epidemics

Plague is a zoonosis caused by the Yersinia pestis bacillus spread over the entire globe with the exception of Australia and the Antarctic, being also infrequent in the north of America.

It is responsible for at least three major epidemics, the best known being the Justinian plague (5th–7th century) and the Black Death (13th–15th century), and represented a true calamity with a major impact on the level of mortality of the time [1,2].

Whether it occurred in antiquity or during the later centuries, each plague epidemic represented a major public health issue [2,3,4,5].

The fight against plague became more efficient once measures like quarantines and sanitary cordons were put into place in the 15th century, or with the emergence of the lazarettos (plague hospital/infirmary) [6,7].

The Plague in Transylvania

In his novel “The Plague” Albert Camus wrote: “as the order of the world is shaped by death, perhaps it is better for God that we don’t believe in Him and struggle with all our strength against death, without raising our eyes to heaven and to His silence”. And such struggle can only be sustained by the means of civilization.

The Romanian principalities, regardless on which side of the Carpathians, were not spared the calamity inflicted by the plague.

According to Huttman and Barbu, the town of
Brașov was hit by plague epidemics in 1338, 1553-1554, 1709-1710, 1718-1719, 1755-1756, 1770-1771, 1813, the first descriptions in Transylvania being provided by Dr. Sebastian Pauschner, a Brașov physician, in his treaty of the plague published in 1530.

Other 17th and 18th century descriptions of the disease are those by Dr. Johann Albrich (3 studies on the plague) and priest Josef Szeli of Brașov [8].

**THE HISTORY OF THE PLAGUE OF CLUJ IN 1738-39 [9]**

The book we bring to light and further discuss is entitled “Istoricul ciumei in Cluj la 1738/39.” (“The History of the Plague at Cluj in 1738/39”).

This study was published under the auspices of the University of Cluj, the Institute for History of Medicine, Pharmacy and Medical Folklore, interim director Valeriu Bologa, MD, PhD (Figure 1).

The book written by Alexandru Lenghel was multiplied in print on 160 pages of 230x150 mm format and included 19 figures, 18 tables and a number of annexes consisting of official deeds, private correspondence, official protocols and diaries. The book was structured into 7 chapters preceded by a preface and a foreword and included among the cited references the great names of Transylvanian medical history like Adam Chenout, Martin Lange or Lucian Bologa.

In the introduction Dr. Lenghel pays tribute to his mentors, Guiart and Bologa. He is also dedicating the work to Adam Chenot, a physician from Luxemburg, who had established modern measures to fight the plague, had a major contribution to the eradication of the plague in Transylvania and was in his own right the author of an important treaty on the history of plague, the “Historia pestis Transylvaniae ann. 1770, 1771”.

The chapters of the book are: The Plague in Transylvania; The Plague in 1738/39 (Figure 2): Statistics of the Casualties; Measures Taken by the Authorities to Contain the Epidemic (Figure 3); Evolution of the Epidemic According to the Protocol of the City Sanitary Council; The Morale During the Plague Epidemic in Cluj; The Place of the Cluj Epidemic within the Framework of the Plague Epidemic in Transylvania; References. As mentioned, the chapters are completed by four annexes: Official Deeds, Private Correspondence, Official Protocols; Diaries.

**Figure 1.** Cover of the book: History of the plague in Cluj by Alexander Lenghel.

**Figure 2.** Map of the plague around Cluj in 1738; source: Alexander Lenghel, History of the plague in Cluj.
The book closes with a summary in French, the scientific language of the time and a token of the French influence on Romanian culture in general and on the Romanian history of medicine in particular.

The original work also includes some ancient engravings and photographs.

The main contribution of Dr. Lenghel that needs to be highlighted is the presentation of the Protocol of the Sanitary Council, previously ignored. The protocol reveals that plague prevention and fighting were organized similarly to the measures taken in the Western countries at that time.

An entire chapter is dedicated to the measures put in place by the authorities of the time aimed at containing the epidemic, based on the rules set for the entire empire and coordinated by a specialist board called *Aulica Sanitatis Commissio*.

The main measures concerned the closing of borders, quarantine rules and even the role of a medical structure: the Sanitary Board of Sibiu. For the whole of Transylvania the measures should have been implemented even before the outbreak of the epidemic, but unfortunately the imperial clerks treated the issue superficially, which caused the first cases to go unidentified in due time.

The dispositions of the authorities of Cluj can be found in documents like the Protocol of the Sanitary Council of Cluj of 1738, or the diary of a Unitarian theologian (Figure 4).

As to the human resources involved in fighting the plague, mention should be made of surgeon Borbély Dániel, replaced upon falling ill by Fogarasi Ştefan, pharmacist Clemens Mihau specialized in plague patients, plague inspector Borbereki Ioan, patient commissar Szentgyörgyi Boldizsár, the undertakers and their commander, the recorder of the dead and deaths and the reporter of news concerning the dead (Figure 5).

The epidemic broke out, even though the authorities had tried to create a framework for prevention and containing, including the establishing of a lazaretto in the tanners’ garden in Cluj.

According to the statistics completed by Dr. Lenghel and following the analysis of the documents made available by him, we agree with the author of this impressive monograph that, just like at present, at first the authorities had tried to conceal the outbreak and then proved not only incapable of containing it, but also keep accurate records of its evolution.

Considered the last severe plague epidemic in Transylvania, the description of the epidemic of Cluj in Lenghel’s book is based on documents made available in the annexes: official local government documents of 1738 (12), fragments from private letters (24), official protocols (6), excerpts from diaries of the time (2).
Conclusions

Although for a long period of time medicine proved incapable of treating this disease, hygienic and sanitary measure were taken from early on such as to reduce the impact of plague in the communities where it broke out.

The presence of plague in Transylvania made the local authorities implement measures such as disinfection and quarantine.

An eloquent example of the negative effects of plague and its impact on the social and economic life of a city is Alexandru Lenghel’s work on the plague of Cluj in 1738/1739, an epidemic of particular intensity and duration.

Nowadays plague has been replaced by other diseases, just as feared as the one caused by Yersinia pestis.

Acknowledgment

This paper emerged from a lecture given in the Spring Session of the Romanian Committee for the History and Philosophy of Science and Technique of the Romanian Academy, Cluj Branch, 2013.

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