

AD 676595

(1) DC
TRANSLATION NO. 6.115

DATE: July, 1968

DDC AVAILABILITY NOTICE

Qualified requestors may obtain copies of this document from DDC.

This publication has been translated from the open literature and is available to the general public. Non-DOD agencies may purchase this publication from the Clearinghouse for Federal Scientific and Technical Information, U. S. Department of Commerce, Springfield, Va.

OCT 30 1968

Reproduced by the
CLEARINGHOUSE
for Federal Scientific & Technical
Information Springfield Va 22151

DEPARTMENT OF THE ARMY
Fort Detrick
Frederick, Maryland

5

62555

/

B. Khotinskaya

Minervin, S. M. and Kotlyarevskaya, E. M., "The phenomenon of repeated sensitization of small doses of botulin toxin," *Annals Mechnikovskogo Institute*, 1936. IV. 1. pp. 109 - 117.

The authors set up a series of experiments with the aim of clarifying whether the introduction of small doses of botulin toxin into the organism will heighten its sensitivity to the subsequent introduction of the toxin. One "mouse" dose of toxin was administered to each of 33 guinea pigs daily at a different time. Antitoxin serum was administered to part of the pigs after 4 injections. All the animals died with symptoms of botulism. Those which had received anti-toxin died in the same period. Control pigs received 20 Dlm at one time and survived. Besides this, the same experiment was conducted on rabbits. The rabbits received 5 doses each, daily. The controls, 2 rabbits, received 75 doses each at one time and one rabbit 100 doses. All the animals died except the controls. Ten guinea pigs were injected daily with 100,000 microbe bodies of heated culture of botulism Type A. After 9 injections 5 pigs died. The daily injection of botulinus microbes, as well as of the toxin, sharply heightens the animal's resistance sensitivity to subsequent injections. The authors consider that there exists some heretofore unknown action of botulinus toxin and that the nature and essence of this phenomenon requires further study.

B. Khotinskaya