

(3) Thymol, however, kills the bacteria in five minutes, even when used in the proportion of 1 to 1,000; (4) therefore, to disinfect the intestinal tract in a cholera case it would be sufficient to inject into the patient's bowels not more than 4 grammes of thymol dissolved in 4,000 grammes of water—a quantity which may be regarded as perfectly safe. Only five minutes' contact of the fluid with the intestinal contents and walls is necessary for all purposes.—V. A. Manasseïn says (*Vratch*, No. 32, 1892, p. 811) that he has received a telegram from I. I. Lvebomüdroff, of Tionet, stating that salol as well as hydrochloric acid seem to act excellently well in cholera.—*British Medical Journal*.

PROTECTIVE INOCULATION AGAINST CHOLERA INTOXICATION.—G. Klemperer (*Berl. klin. Woch.*, August 8th, 1892) says that there is no longer any doubt that cholera is caused by the comma bacillus. This bacillus cannot develop in animals, and is thus non-infective for them. The question of the pathogenic action of micro-organisms is not

limited to the indefinite power of growth in the body, but includes their toxic properties. Thus micro-organisms may be toxi-pathogenic but non-infective. Thus enteric fever bacilli do not develop in animals, but if injected into the peritoneal cavity these animals quickly die from the toxic effects. So it is with the comma bacillus. The first object then is to protect these animals against this fatal intoxication. A sure inoculation against such intoxication is a protection against the most infective bacteria, as may be seen in the case of pneumococcus immunity. It would appear that one-half the community is immune against cholera and protection is conferred by one attack for four or five years. Hitherto immunity has only been brought about in animals by the addition of the extract of the thymus gland to the injected culture of cholera bacilli. The cholera virus proves itself much more resistant to attenuating influences than the pneumococcus poison. The author then records his experiments. (1) Inoculation against intraperitoneal intoxication by means of heated cultures. It was found that seventeen hours after the injec-

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