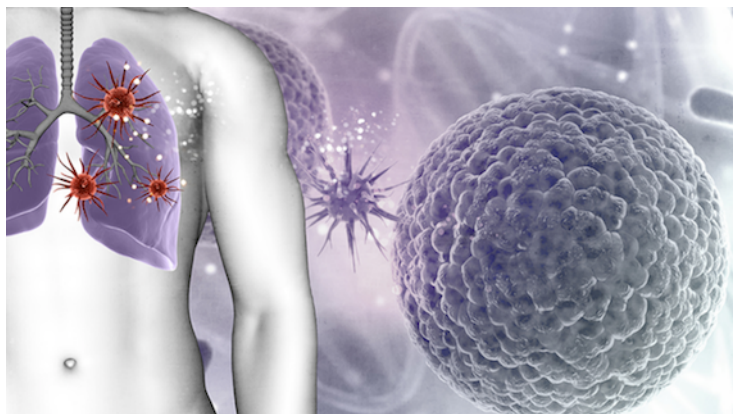


Singapore suggests doxycycline can help prevent complications of 'Long TB'

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The study team is seeking funds for a fully-powered larger scale Phase 3 trial to verify these findings



In pulmonary tuberculosis (TB), the most common form of active TB disease, the *Mycobacterium tuberculosis* bacteria causes the formation of sites of high bacterial load, known as cavities. These cavities are poorly penetrated by TB drugs.

After TB treatment is complete, there is likely to be tissue damage within the lungs that can lead to further lung problems such as permanent respiratory dysfunction leading to difficulty in breathing, stiffness in the lungs and bronchiectasis, which can make people cough up blood.

In the Phase 2 double-blind trial conducted at the National University Hospital and TB Control Unit in Singapore, the treatment was found to be safe, with side effects similar to patients on placebo pills. The study shows promise in delivering a new standard-of-care which can potentially prevent long term complications and the study team is seeking funds for a fully-powered larger scale Phase 3 trial to verify these findings.

"Pulmonary TB patients tend to suffer from lung damage after TB, which is associated with mortality, and poorer quality of life. Doxycycline is a cheap and widely available antibiotic that can decrease lung damage, and potentially improve quality of life for these patients," said Assistant Professor Catherine Ong, Principal Investigator of the study and member of the Infectious Diseases Translational Research Programme (TRP) at National University of Singapore (NUS) Medicine. The study findings were published in the *Journal of Clinical Investigation*.

Professor Paul Tambyah, who was also involved in the study and is Deputy Director of the Infectious Diseases TRP commented, "While we have been able to successfully treat most cases of TB for the last few decades, we have seen many people suffer the complications of the lung damage from the original TB infection. If this common drug, doxycycline, can help prevent the complications of "Long TB" (to use a term currently in vogue), this will really help a lot of patients in Singapore and worldwide."