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Improving treatment outcomes of tuberculosis

Pradipta, Ivan

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Improving treatment outcomes of tuberculosis

Towards an antimicrobial stewardship program

Ivan Surya Pradipta

Improving treatment outcomes of tuberculosis
Towards an antimicrobial stewardship program

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university of
 groningen

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Towards an antimicrobial stewardship program

PhD thesis

to obtain the degree of PhD at the
 University of Groningen
 on the authority of the
 Rector Magnificus Prof. C. Wijmenga
 and in accordance with
 the decision by the College of Deans.

This thesis will be defended in public on

Monday 24 February 2020 at 11.00 hours

by

Ivan Surya Pradipta

born on 20 June 1983
 in Yogyakarta, Indonesia

Supervisors

Prof. E. Hak
Prof. J.W.C. Alffenaar

Assessment Committee

Prof. F.G.J. Cobelens
Prof. K. Taxis
Prof. T.S. van der Werf

*To my respected teachers,
my beloved parents, brothers, wife and children.*

Paranymphs: Sylvi Irawati
Sofa Dewi Alfian

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