

**NON-SURGICAL REDUCTION OF INTUSSUSCEPTION:
MODALITY, PROGNOSTIC INDICATORS AND
DEVELOPMENT OF CLINICAL PREDICTION RULE FOR
FAILED REDUCTION**



DOCTOR OF PHILOSOPHY

IN CLINICAL EPIDEMIOLOGY

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY**

JUNE 2017

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The seal of Chiang Mai University is a circular emblem. It features a central figure of an elephant standing and facing left. Above the elephant is a five-pointed star with a flame at its center. The entire emblem is encircled by a border containing the university's name in Thai script at the top and 'CHIANG MAI UNIVERSITY 1964' in English at the bottom.

JIRAPORN KHORANA

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIALFULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE OF**

**DOCTOR OF PHILOSOPHY
IN CLINICAL EPIDEMIOLOGY**

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JIRAPORN KHORANA

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
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19 June 2017

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To
My Family, Teachers, Colleagues, Students
and Patients



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Jiraporn Khorana