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Contributions to an understanding of community-acquired pneumonia

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CONTRIBUTIONS TO AN UNDERSTANDING OF COMMUNITY-ACQUIRED PNEUMONIA

Charles Feldman

Published work submitted to the Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa, in fulfillment of the requirements for the Degree

of

Doctor of Science in Medicine

Johannesburg, 2008

DECLARATION

This is to state that:

a. The published works submitted by me for the degree of Doctor of Science in Medicine represent work carried out by me or in which I actively participated. My contribution has been as follows:

1. Field work carried out largely by me, in which I also contributed substantially to the evaluation of results and the preparation of these for publication, together with collaborators.

   Papers 4, 6, 29, 31, 33, 37, 55-60.

2. Work which I carried out alone or shared the task equally with collaborators.

   Papers 5, 9-11, 12-20, 25, 27, 30, 32, 34, 42, 43, 50, 51, 61, 62, 64-69.

3. Laboratory studies in which the actual bench work was carried out by me, while the planning of the studies, evaluation of the results and preparation of these for publication were carried out in association with collaborators.

   Papers 35, 36, 38-41, 44, 46, 49.

4. Work carried out by higher degree candidates, my contribution was to help plan the projects or to share the planning as joint supervisor, or to share the evaluation of results and preparation of these for publication.

   Papers 7, 8, 21, 47.

5. Two of the published works formed part of my PhD and are not part of the evaluation of the DSc but are included to give background to the subsequent studies.

   Papers 1, 2.

b. The work has not been submitted to any University for any degree other than papers 7, 8, 21, and 47, which were included in an MMED (Internal Medicine) research report (University of the Witwatersrand), supervised by me, a PhD (University of the Witwatersrand), an MPH dissertation (Emory University) and an MSc dissertation (University of Pretoria).

c. The work represented in this thesis was carried out in various institutions, including the Department of Medicine of the University of the Witwatersrand, the Host Defence Unit, Department of Thoracic Medicine, Imperial College of Science and Technology, University of London and the Royal Brompton Hospital, London United Kingdom, and with Professor Ronald Anderson and the various members of his research unit, in the MRC Unit for Inflammation and Immunity, Department of Immunology, Faculty of Health Sciences, University of Pretoria and the Tshwane Academic Division of the National Health Laboratory Services, University of Pretoria, Pretoria, South Africa. In addition, some work was performed in the home institutions of collaborators (as specified in the individual papers).

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Charles Feldman

DEDICATION

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