

Preface

This book is the result of a joint effort acknowledging the challenge of writing and publishing a book on the diagnosis of tuberculosis (TB). It is particularly appealing due to its advantage over other books, since it specifically focuses on the diagnosis of TB, encompassing the elemental diagnostic methods up to cutting-edge technology-based tests, including the diagnosis of TB infection (latent TB infection, LTBI).

This treaty is exclusively centered on the diagnosis of TB, including the spectrum of clinical diagnosis through the microbiological and molecular gold standard, the most practical, due to its celerity and high sensitivity. The diagnosis of LTBI, key to TB control, is also addressed.

Since TB diagnostic methods are still evolving, training must also be continuous. Great advances in this dynamic and ever-changing field have developed in the past few years, particularly resulting from the introduction of Molecular Biology. But unfortunately, this has led to increased costs and hence great disadvantages, leaving many patients without a timely diagnosis and appropriate treatment, particularly in highly endemic countries.

With comprehensive mastery, a change in the paradigm on TB diagnosis could well revitalize the required technology, making it more efficient, faster, predictable, and at a more accessible cost.

A century after Robert Koch discovered the bacillus causing TB, a great number of countries still depend on bacilloscopy as the only means of disease detection. We build on the past and we are all a product of our parents, professors, and colleagues as well as of our God-given talents and challenges.

I have had the privilege of working on the routine microbiological diagnosis of TB at the *Laboratorio de Microbiología de la Unidad Médica de Alta Especialidad* “Dr. Gaudencio González Garza,” all the way to the Molecular Biology techniques in the Immunology and Infectious Disease Research Unit of the Infectious Disease Hospital at the *Centro Médico Nacional* “La Raza,” affiliated with the *Instituto Mexicano del Seguro Social*.

We believe that particularly in countries with high TB endemicity, a quick and handy reference book on the diagnosis of TB is useful for Clinicians, Microbiologists, teachers and students of Medicine and Microbiology.

I wish to express my gratitude to many colleagues and physicians for their support and close collaboration, particularly during those fruitful meetings of the Center for National Epidemiological Surveillance and Disease Control (*Centro Nacional de Vigilancia Epidemiológica y Control de Enfermedades*). Also, to the *Dirección General de Epidemiología. SS*, primarily for the “Modification of the Mexican Official Policy NOM-006-SSA2-1993,” for the prevention and control of tuberculosis at the primary health care level, published in the *Diario Oficial* on September 27, 2005; and secondly, for the elaboration of the “Practical guide to the care of tuberculosis in children and adolescents,” in association with the National Tuberculosis Program, ISBN 970-721-334-5. December 2006.

I must also especially acknowledge all those silent heroes that have been of great assistance in the preparation of this manuscript: Gabriel Natan Pires, the Clinical Medicine Associate Editor that wholly believed in the Project; the always patient and kind Associate Editor at Life Sciences and Biomedicine at Springer Brazil, Roberta Gazzarolle Del Rossi, and our attentive project coordinator, Susan Westendorf.

My coauthor, Dr. Guillermo del Rey-Pineda, an expert Immunologist, and I hope that our initiative will motivate the interest of our readers not only in the solution of TB clinical diagnostic dilemmas but to prompt them to present new questions on routine and basic diagnosis, fostering a continuous bidirectional exchange between the realms of health care and those of clinical and basic research.

Mexico DF, Distrito Federal, Mexico

Guadalupe García-Elorriaga

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Garcia - Elorriaga, G.; del Rey Pineda, G.

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