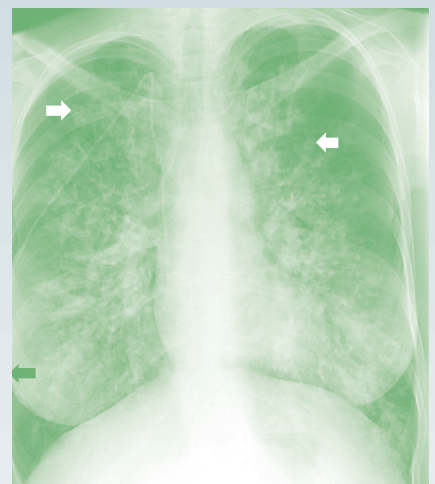
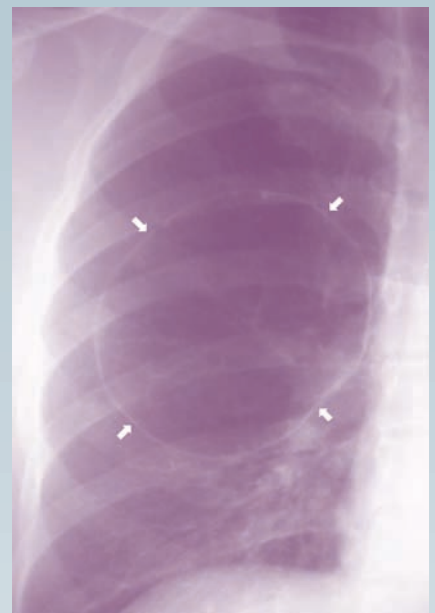
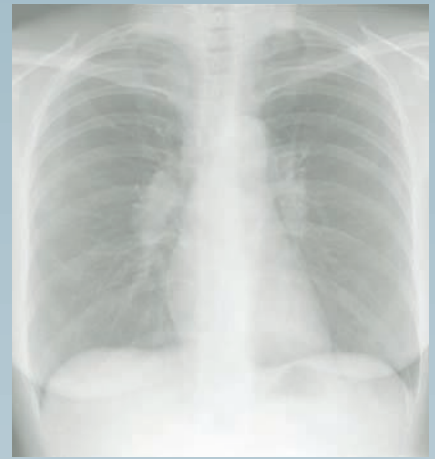


# The WHO manual of diagnostic imaging

RADIOGRAPHIC  
ANATOMY  
AND INTERPRETATION  
OF THE CHEST AND  
THE PULMONARY  
SYSTEM



# **The WHO manual of diagnostic imaging**

Radiographic Anatomy and Interpretation  
of the Chest and the Pulmonary System

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# Foreword

Modern diagnostic imaging offers a vast spectrum of modalities and techniques, which enables us to study the function and morphology of the human body in details that approaches science fiction.

However, it should be noticed that even in the most advanced imaging department in the economically privileged parts of the world, 70–80 % of all clinically relevant questions may be solved by using the two main *cornerstones* of diagnostic imaging, which are radiography (X-ray) and ultrasonography.

It should also be remembered that thousands of hospitals and institutions worldwide do not have the possibilities to perform even these fundamental imaging procedures, for lack of equipment and/or diagnostic imaging skills.

Therefore, WHO in collaboration with the International Commission for Radiologic Education (ICRE) of the International Society of Radiology (ISR) is creating a series of “WHO Manuals of Diagnostic Imaging”, developed under the umbrella of the Global Steering Group for Education and Training in Diagnostic Imaging. Among the members of this group are the major regional and global societies involved in diagnostic imaging, including the International Society of Radiology (ISR), the International Society of Radiographers and Radiological Technologists (ISRRT), and the World Federation for Ultrasound in Medicine and Biology (WFUMB).

The full series of manuals will primarily cover the examination techniques and interpretation of radiography, in a later stage also ultrasonography. It is meant for health care personnel who, in their daily work, are responsible for producing and interpreting radiographs, be it radiologists or other medical specialists, general practitioners, or radiological technologists working in rural areas.

The manuals are authored by experts in each field, covering the experience, knowledge and needs, which are specific for different regions of the world.

It is our sincere hope that the manuals will prove helpful in the daily routine, facilitating the diagnostic work up and hence the treatment, to the best benefit for the patient.

Geneva, Switzerland and Lund, Sweden, December 2005

**Harald Ostensen**

**Holger Pettersson**

# Introduction

The following text aims to provide an aid to the interpretation of the chest radiograph (CXR). This is not a comprehensive account of all possible chest diseases but a descriptive text to help identify the way in which chest pathology is manifested and diagnosed on CXR. The initial chapters deal with interpretive skills and pattern recognition and the later chapters demonstrate specific pathologies.

