



# Introduction

# 1

This book is important for the basic clinicians, all subspecialties that are involved in the imaging of the infection and inflammation. This book has described in detail various chapters in relation to infection and inflammation. Each chapter of this book includes detailed descriptions of how Positron Emission Tomography and Computed Tomography PET-CT is being used in the evaluation of the specific infective inflammatory diseases. The description and discussion are also meticulously done with relevant images so that the basic concept of using the PET-CT in infection and inflammatory conditions is explained meticulously. Each chapter is described in detail about the various clinical presentations, including key images and their interpretation, techniques, and diagnosis. After reading this book, it allows readers to understand the value of PET/CT for the diagnosis of fever of unknown origin, tuberculosis, cardiac pathologies, chest pathologies, vasculitis, Polymyalgia Rheumatica, pediatric applications, prosthesis joint infections, organ transplantations, viral infections, and molecular imaging in infection and inflammation. Given the scope of this modality, PET-CT gives a comprehensive review of the various applications for various specialties.