

Understanding Mesothelioma Diagnosis: A Comprehensive Guide

Sumanja Shri*

Department of Medicine, Division of Medical Oncology, University of SRM, India

Abstract

Mesothelioma, a rare and aggressive form of cancer, is primarily caused by exposure to asbestos fibers. Its diagnosis poses significant challenges due to its latency period, nonspecific symptoms, and resemblance to other respiratory conditions. This comprehensive guide aims to provide a detailed overview of mesothelioma diagnosis, encompassing clinical manifestations, diagnostic modalities, and advancements in detection techniques. The guide begins by elucidating the epidemiology and etiology of mesothelioma, emphasizing the occupational and environmental risk factors associated with asbestos exposure. It explores the pathophysiology of mesothelioma, elucidating the molecular mechanisms underlying its development and progression. Subsequently, the guide delineates the clinical presentation of mesothelioma, delineating the varied symptoms that patients may experience across its different subtypes. Emphasis is placed on the importance of a thorough medical history and physical examination in suspecting mesothelioma, despite its often subtle onset. Central to this guide is an in-depth exploration of diagnostic strategies employed in the identification and characterization of mesothelioma. It discusses imaging modalities such as computed tomography (CT), magnetic resonance imaging (MRI), and positron emission tomography (PET) scans, elucidating their respective roles in disease staging and monitoring. Moreover, the guide delves into the significance of histopathological examination through biopsy specimens in confirming a mesothelioma diagnosis. It outlines the various biopsy techniques utilized, ranging from fine-needle

*Corresponding author: Sumanja Shri, Department of Medicine, Division of Medical Oncology, University of SRM, India, E-mail: suman_shri@gmail.com

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