Proteinuria: Basic Mechanisms, Pathophysiology and Clinical Relevance

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Introduction

Both albuminuria and proteinuria are sensitive markers of kidney disease and are strongly associated with kidney disease progression and increased risk of cardiovascular events. This volume will describe how albuminuria and proteinuria are measured in the clinical setting, the prognostic implications of increased urinary albumin or protein excretion, and the pathophysiology underlying the development of proteinuria. In addition, diseases or patterns of disease that commonly result in albuminuria or proteinuria will be described as well as the most recent developments in understanding the basic mechanisms underlying these diseases and how these findings have been translated into therapies.

While new bench techniques have significantly increased our understanding of how the kidney handles serum proteins, therapeutic options to treat proteinuria are limited, and there is still much progress to be made in developing targeted and effective agents to treat proteinuric renal diseases.

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