



## Nephropathology Unleashed: Insights from the Lens of a Medical Undergraduate Student

Dear Editor,

As a second-year medical student, I vividly recall attending the “Clinico-pathological conference” – a much anticipated event at our institute. It was an opportunity to delve deeper into various aspects of pathology, particularly renal pathology. Little did I know that this event would mark the beginning of an enlightening journey into nephropathology. After my interest in kidney during my anatomy days, it was dream come true to witness kidney-related cases.

Nephropathology, the study of kidney diseases, holds a significant place in the field of pathology due to its growing prevalence and the impact on global health. At our institution, the study of nephropathology gained momentum during our fifth semester when we were introduced to lectures and practical sessions pertaining to renal disease pathology. With the reins of our renal pathology lectures, we were imparted with valuable insights into the intricacies of renal diseases. During that period, we explored the diverse spectrum of renal pathology and gained a deeper understanding of the diagnostic approaches and treatment strategies employed in this field.<sup>1</sup> Through a meticulously designed curriculum that seamlessly blended theoretical knowledge with practical application, we were immersed in a multidimensional learning experience.

I delved deeper into this fascinating realm, exploring the complexities of renal anatomy, physiology, and pathology. The curriculum provided a comprehensive understanding of the mechanisms underlying various renal disorders, ranging from glomerular diseases to tubulointerstitial nephritis and beyond. One significant aspect of

our nephropathology education was the emphasis on clinical correlation.<sup>2,3</sup> We were encouraged to grasp the connection between histopathologic findings and the clinical presentation of renal diseases. This integration of clinical and pathological aspects enabled us to appreciate the significance of accurate diagnoses and tailored treatment plans for patients with diverse renal pathologies. It transformed didactic, one-way teaching into interactive sessions, making nephrology education alive and thrilling for us as undergraduates.

Those beautiful green immunofluorescence images captivated my mind, and then I came to know about electron microscopy; it filled me with more curiosity to know how amyloid as small as in nanometers can be visualized so clearly. With advanced technology and cutting-edge tools, we could unravel the intricate patterns and abnormalities hidden within renal tissues in the intricate world of glomeruli, tubules, and interstitium. These practical encounters bridged the gap between theory and practice, enabling us to unlock the secrets held within the microscopic landscapes of the kidneys.

Reflecting on my journey through the study of nephropathology, I am immensely grateful for the value it has added to my medical education. It has equipped me with a comprehensive understanding of renal diseases, honed my diagnostic skills, and fostered empathy toward patients grappling with these conditions. I am confident that this transformative experience has prepared me to make a meaningful impact on the lives of patients, both now and in my future career as a nephrologist.

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### Conflicts of interest

There are no conflicts of interest.

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