Overview of IgA Nephropathy

Immunoglobulin A nephropathy (IgAN), also known as Berger's disease, is a leading cause of chronic kidney disease and the most common primary glomerulonephritis worldwide.^{1,2} The majority of patients with IgAN develop **end-stage kidney disease (ESKD)** within their lifetime.^{3,4}



What Is IgAN?

- IgAN is a progressive, autoimmune, chronic kidney disease that is primarily characterized by mesangial immunoglobulin A (IgA) deposition^{1,2}
- The etiologic pathogenesis of IgAN is multifactorial and can be explained by the four-hit cascade, the outcome of which is kidney injury that can lead to ESKD^{5,6}



Symptoms

- IgAN typically manifests in adults aged
 20 to 40 years and is often diagnosed incidentally^{7,8}
- IgAN is a heterogenous disease with variable presentation, and patients frequently experience disease progression despite being asymptomatic^{1,8,9}

Symptoms may include:

- Hematuria (both macroscopic and microscopic)1
 - In some patients, macroscopic hematuria is preceded by an upper respiratory infection¹⁰
- Proteinuria¹
- Fatique¹¹
- Edema¹¹



Who Is Affected?

- The annual global incidence of IgAN is 2.5 cases per 100,000 persons; however, this varies by region and ethnicity^{12,13}
- There is considerable heterogeneity in outcomes across different races and ethnicities; Asian populations may face higher risk of severe disease than White populations^{6,12}



Diagnosis and Prognosis

- IgAN is diagnosed with a renal biopsy showing predominant IgA1 staining^{1,14}
- In observational studies, most patients with IgAN develop ESKD within 10 to 15 years of diagnosis³
 - Even in patients previously considered "low risk" (proteinuria <1 g/d), there is a substantial risk of kidney failure within 15 years of diagnosis³

Optimized Supportive Care

According to current guidelines, the main focus of disease management is to reduce the risk of progression, beginning with optimization of supportive care. The objective of optimized supportive care is to slow down progressive chronic kidney disease and reduce cardiovascular risk.



Assess cardiovascular risk14



Control blood pressure¹⁴



Decrease proteinuria¹⁴



Dietary sodium restriction¹⁴



Smoking cessation¹⁴



Weight control and exercise14

Patients at Risk of Disease Progression Despite Maximal Supportive Care

- A significant portion of patients remain at risk of progression despite optimized supportive care^{14,15}
- According to guidelines, patients who have proteinuria >1 g/d despite optimized supportive care for ≥90 days may consider enrolling in a clinical trial¹⁴
- Immunosuppressive therapy may be considered with caution¹⁴







1. Rajasekaran A, et al. Am J Med Sci. 2021;361(2):176-194. 2. Cattran DC, et al. Kidney Int Rep. 2023;8(12): 2515-2528. 3. Pitcher D, et al. Clin J Am Soc Nephrol. 2023;18(6):727-738. 4. Wong K, et al. Lancet. 2024; 403(10433):1279-1289. 5. Habas E, et al. Medicine (Baltimore). 2022;101(48):e31219. 6. Suzuki H, et al. J Am Soc Nephrol. 2011;22(10):1795-1803. 7. Lai KN, et al. Nat Rev Dis Primers. 2016;2:16001. 8. Caster DJ, et al. Kidney Int Rep. 2023;8(9):1792-1800. 9. Cheung CK, et al. Clin Med. 2012;12:s27-s31. 10. Gesualdo L, et al. Semin Immunopathol. 2021;43(5):657-668. 11. Roccatello D, et al. Nephrol Dial Transplant. 2022;37(suppl 3):159. 12. Yeo SC, et al. Nephrology (Carlton). 2019;24(9):885-895. 13. McGrogan A, et al. Nephrol Dial Transplant. 2011;26(2):414-430. 14. KDIGO. Kidney Int. 2021;100(45):S1-S276. 15. Bagchi S, et al. Kidney Int Rep. 2021;6(6):1661-1668.

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Learn More About IgAN

