

TOGETHER, WE CAN CHANGE THE TUNE

FOR IgA NEPHROPATHY PATIENTS

Act on the two fundamental
drivers of nephron loss in
IgA nephropathy¹

Fictional character and image co-created using AI.

IgA, immunoglobulin A.

This material has been created by Novartis Pharma AG for the general audience of healthcare professionals based on the EU regulations. For any products, please refer to product information of your local country, as it may vary depending on local health authority approval.

This content is intended for non-promotional scientific purposes only.

FA-11768991 | August 2026
© Novartis 2026. All rights reserved.



IgA nephropathy is heterogeneous and progressive with a significant burden of disease¹⁻³

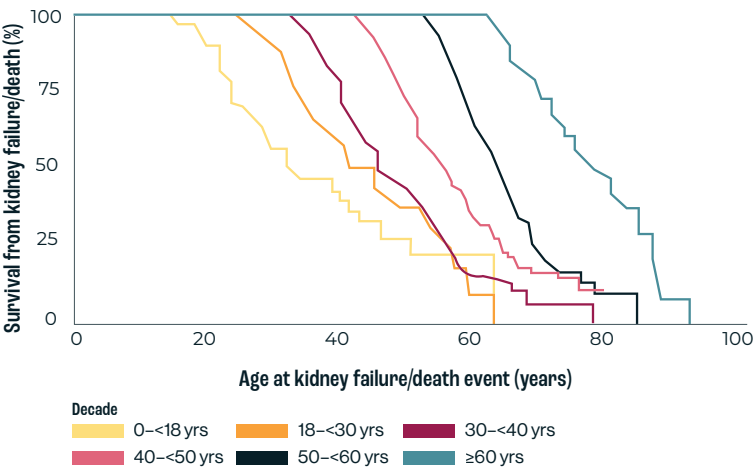
IgA nephropathy is the most common primary glomerulonephritis worldwide,⁴ with an annual incidence of 7.9–26 per million in Europe,⁵⁻¹⁰ 7–21 per million in the USA^{11,12} and 5.5–45 per million in East Asia.¹³⁻¹⁶

Clinical presentation is heterogeneous, and patients face a range of challenging symptoms compounded by an unpredictable disease course and the fear of progression to kidney failure.^{1-3,17}

Treatment has historically focused on supportive care, including RASi and immunosuppression.¹⁸ Despite this, most patients are expected to progress to kidney failure within 10–15 years of diagnosis.^{*19}

Early identification and intervention with a targeted treatment approach are crucial to preserve kidney function for as long as possible^{19,20}

Kaplan-Meier survival curves of time to kidney failure/death by age at diagnosis^{*19}

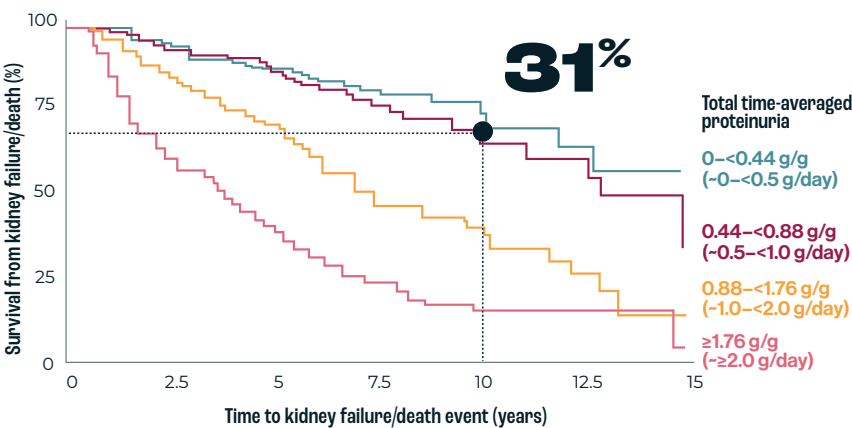


Adapted from Pitcher D, et al. Clin J Am Soc Nephrol. 2023;¹⁹

Patients with proteinuria ≥0.5 g/day and eGFR decline >1 mL/min/1.73m²/year are at risk of progressive loss of kidney function^{19,20}

eGFR and proteinuria are the only validated prognostic serum or urine biomarkers in IgA nephropathy.²⁰ Even among patients with lower levels of proteinuria (~0.5–<1.0 g/day,* n=175) , 31% progress to kidney failure within 10 years of diagnosis.^{†19}

Kaplan-Meier survival curves of time to kidney failure/death by proteinuria level^{*†19}



Adapted from Pitcher D, et al. Clin J Am Soc Nephrol. 2023;¹⁹

The KDIGO 2025 Guideline sets a proteinuria threshold of ≥0.5 g/day to consider:²⁰

- **Kidney biopsy** in all adults in whom IgA nephropathy is a possible diagnosis[‡]
- **Treatment or additional treatment** in adults diagnosed with IgA nephropathy

The Guideline also recommends treatment goals of:²⁰

- **Proteinuria** of at least <0.5 g/day and ideally <0.3 g/day
- **eGFR** decline of <1 mL/min/1.73m²/year

Considering the underlying pathogenesis of IgA nephropathy may help reduce progression to kidney failure^{1,20}

* UPCR cannot be directly compared with 24-hour proteinuria.²¹ UACR values converted to UPCR using UPCR=UACR/0.7. A UPCR of 0.88 g/g may be considered comparable with protein excretion of 1 g/day.¹⁹

† Data from a retrospective cohort of the UK National Registry of Rare Kidney Diseases (RaDaR) (N=2439).¹⁹ Kidney failure was defined as the first occurrence of either long-term kidney replacement therapy, a confirmed eGFR <15 mL/min/1.73m², or chronic kidney disease stage 5 recorded in RaDaR.¹⁹

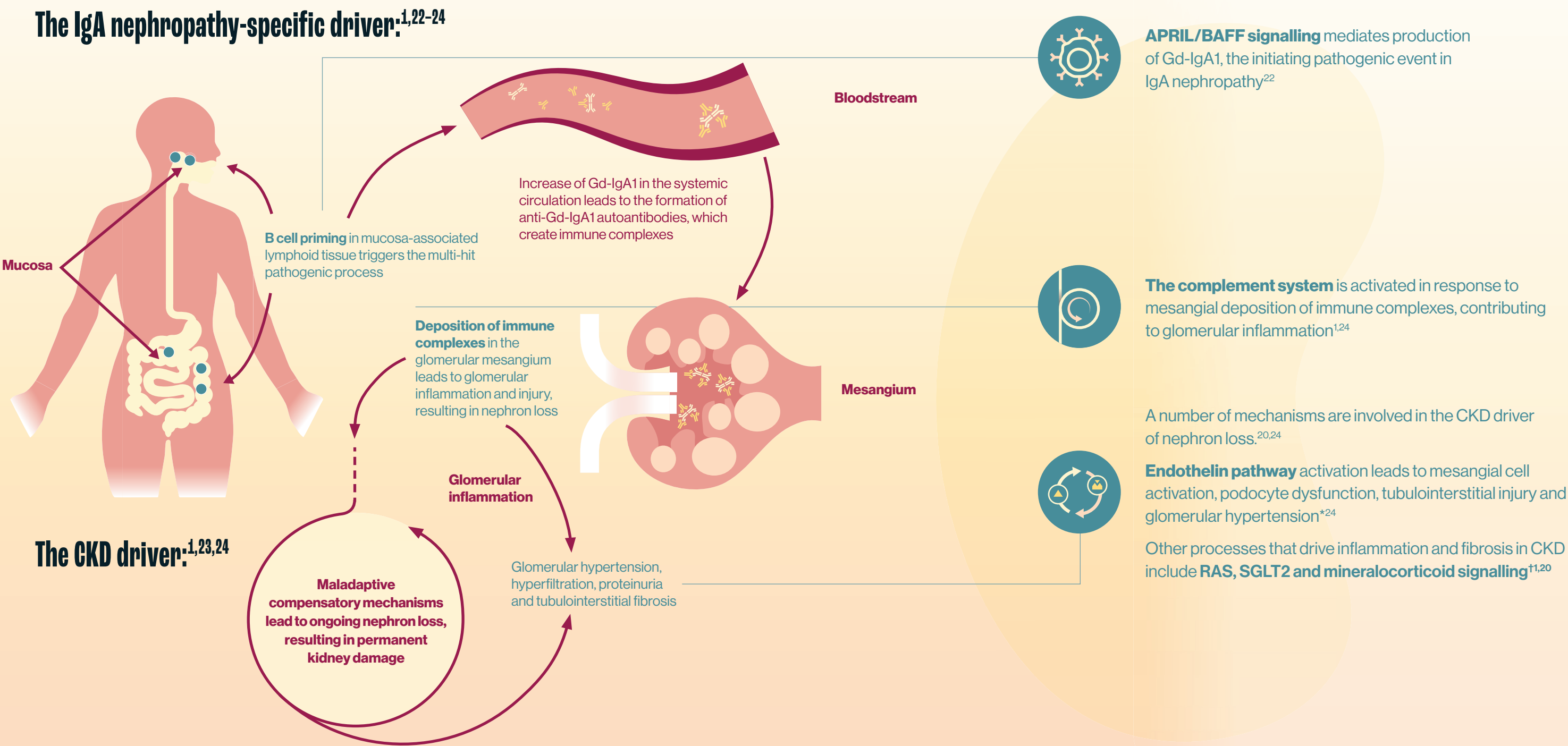
‡ In whom kidney biopsy is not contraindicated.²⁰

eGFR, estimated glomerular filtration rate; IgA, immunoglobulin A; KDIGO, Kidney Disease: Improving Global Outcomes; UACR, urine albumin-to-creatinine ratio; UK, United Kingdom; UPCR, urine protein-to-creatinine ratio.

* Data from a retrospective cohort of the UK National Registry of Rare Kidney Diseases (RaDaR) (N=2439). Patients enrolled had a biopsy-proven diagnosis of IgA nephropathy plus proteinuria >0.5 g/day or eGFR <60 mL/min/1.73m². Kidney failure was defined as the first occurrence of either long-term kidney replacement therapy, a confirmed eGFR <15 mL/min/1.73m² or chronic kidney disease stage 5 recorded in RaDaR.¹⁹

eGFR, estimated glomerular filtration rate; IgA, immunoglobulin A; RASi, renin-angiotensin system inhibitor; UK, United Kingdom; yrs, years.

IgA nephropathy pathogenesis is underpinned by two fundamental, ongoing drivers of nephron loss, which are associated with multiple dysregulated pathways^{1,22-24}



^{*} Based on preclinical data from animal and cellular models.²⁴
[†] Not an exhaustive list.
APRIL, a proliferation-inducing ligand; BAFF, B cell activating factor; CKD, chronic kidney disease; Gd-IgA1, galactose-deficient immunoglobulin A1; IgA, immunoglobulin A; RAS, renin-angiotensin system; SGLT2, sodium-glucose co-transporter 2.

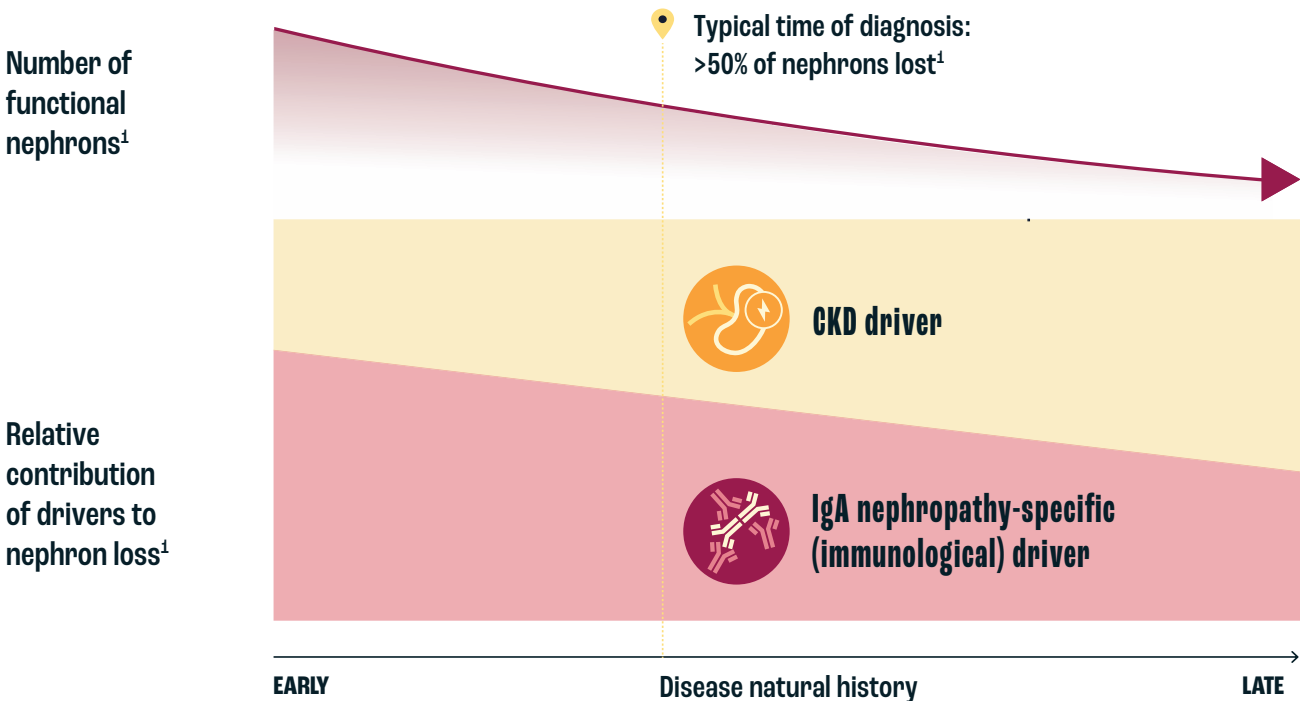
The two fundamental drivers of nephron loss act via distinct mechanisms and should be considered simultaneously at diagnosis^{1,20,22,24}

Both fundamental drivers mediate ongoing nephron loss from the time of diagnosis¹

During the initial stages of disease, often prior to diagnosis, the IgA nephropathy-specific driver is the greater contributor to nephron loss.¹

However, as continual nephron loss occurs, the CKD driver becomes a greater contributor to disease progression.¹

Given patients may have lost >50% of nephrons at the typical time of diagnosis and no nephron lost can be regained, it is essential to consider both fundamental drivers of nephron loss from diagnosis.^{1,23}



Adapted from Barratt J, et al. Front Med. 2024¹ Stylised representation for illustrative purposes.

The KDIGO 2025 Guideline recommends a multifaceted approach that considers the two fundamental drivers of nephron loss simultaneously from diagnosis²⁰

Management of IgA nephropathy should consider the underlying pathogenic mechanisms of the disease, with an aim of reducing further nephron loss and slowing kidney function decline^{1,20}

IgA nephropathy-specific driver considerations²⁰



Synthesis of pathogenic IgA



IgA immune complex formation

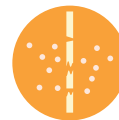


IgA and IgA immune complex-mediated kidney injury

CKD driver considerations²⁰



Glomerular hyperfiltration



Proteinuria and the impact of proteinuria on the tubulointerstitium



Elevated blood pressure



Pathogenic mechanisms behind the two fundamental drivers of nephron loss should be considered when treating IgA nephropathy^{1,20}

The KDIGO 2025 Guideline calls for a tailored treatment paradigm targeting the underlying pathogenesis of IgA nephropathy to help preserve kidney function for as long as possible²⁰

Tune into change: With an improved understanding of IgA nephropathy pathogenesis comes the opportunity to embrace a new treatment paradigm^{1,18,20,23}



Patients with IgA nephropathy and proteinuria of ≥ 0.5 g/day are at risk of progression to kidney failure^{19,20}



The KDIGO 2025 Guideline recommends a multifaceted approach that considers the two fundamental drivers of nephron loss simultaneously from diagnosis²⁰



IgA nephropathy pathogenesis is underpinned by two fundamental drivers of nephron loss involving multiple pathways^{1,20,22,24}

Fictional character and image co-created using AI.

IgA, immunoglobulin A; KDIGO, Kidney Disease: Improving Global Outcomes.



References

1. Barratt J, et al. *Front Med*. 2024;11:1461879.
2. El Karoui K, et al. *J Am Soc Nephrol*. 2024;35:103–116.
3. National Kidney Foundation. Voice of the Patient 2020. Available at: <https://nkf.egnyte.com/dl/aHGCS6tPNM>. Last accessed May 2026.
4. Lai KN, et al. *Nat Rev Dis Primers*. 2016;2:16001.
5. Hanko JB, et al. *Nephrol Dial Transplant*. 2009;24:3050–3054.
6. McQuarrie EP, et al. *Kidney Int*. 2014;85:198–203.
7. Rivera F, et al. *Nephrol Dial Transplant*. 2002;17:1594–1602.
8. Simon P, et al. *Kidney Int*. 2004;66: 905–908.
9. Zaza G, et al. *Nephrol Dial Transplant*. 2013;28:36–72.
10. Zink CM, et al. *Clin Kidney J*. 2019;12: 795–800.
11. Sim JJ, et al. *Am J Kidney Dis*. 2016;68:533–544.
12. Swaminathan S, et al. *Clin J Am Soc Nephrol*. 2006;1:483–487.
13. Lee M, et al. *Clin Kidney J*. 2023;16 (Suppl 2):ii1–ii8.
14. Wang M, et al. *Ren Fail*. 2025;47:1.
15. Ghaddar M, et al. *Semin Nephrol*. 2024;44:151564.
16. Chiu HF, et al. *BMC Nephrol*. 2018;19:6.
17. Zhang C, et al. *Transl Res*. 2015;166: 134–144.
18. Floege J, et al. *Kidney Int*. 2025;107:640–651.
19. Pitcher D, et al. *Clin J Am Soc Nephrol*. 2023;18:727–738.
20. Rovin BH, et al. *Kidney Int*. 2025;108: S1–S71.
21. Yang F, et al. *BMC Nephrol*. 2022;23:49.
22. Yeo SC, Barratt J. *Clin Kidney J*. 2023;16(Suppl 2):ii9–ii18.
23. Barratt J, et al. *Kidney Int Rep*. 2025;10:4174–4187.
24. Kohan DE, et al. *Kidney Int Rep*. 2023;8:2198–2210.