A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study of Atrasentan in Patients with IgA Nephropathy - The ALIGN Study



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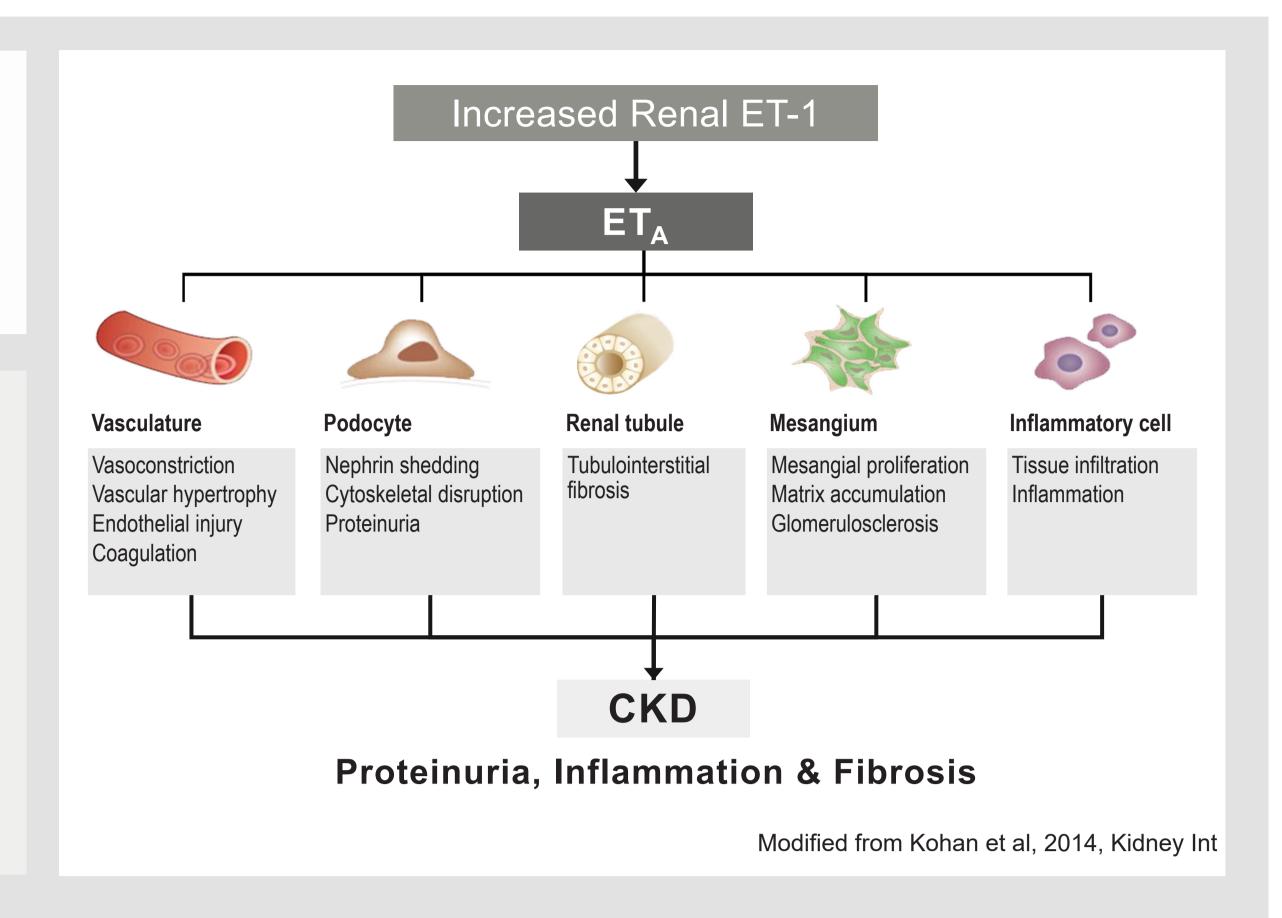
IgAN and the Endothelin Pathway

- IgA nephropathy (IgAN) is the leading cause of primary glomerulonephritis, with a global incidence of 2.5 per 100,000 individuals per year¹
- Approximately 30-45% of IgAN patients progress to end-stage kidney disease (ESKD) over a period of 20-25 years²⁻⁵
- Proteinuria is strongly associated with kidney disease progression in IgAN2,6-7 and treatments that reduce proteinuria result in improved clinical outcomes in IgAN8-9

Elevated kidney endothelin-1 (ET-1) expression strongly & prospectively predicts progression of IgAN 12 months following kidney biopsy¹⁰

Endothelin A (ET_A) receptor activation drives mesangial cell activation, kidney inflammation & fibrosis, and proteinuria, all hallmarks of IgAN¹¹⁻¹²

Kidney ET-1 & ET_A receptor levels are elevated in proteinuric patients with IgAN¹³⁻¹⁴



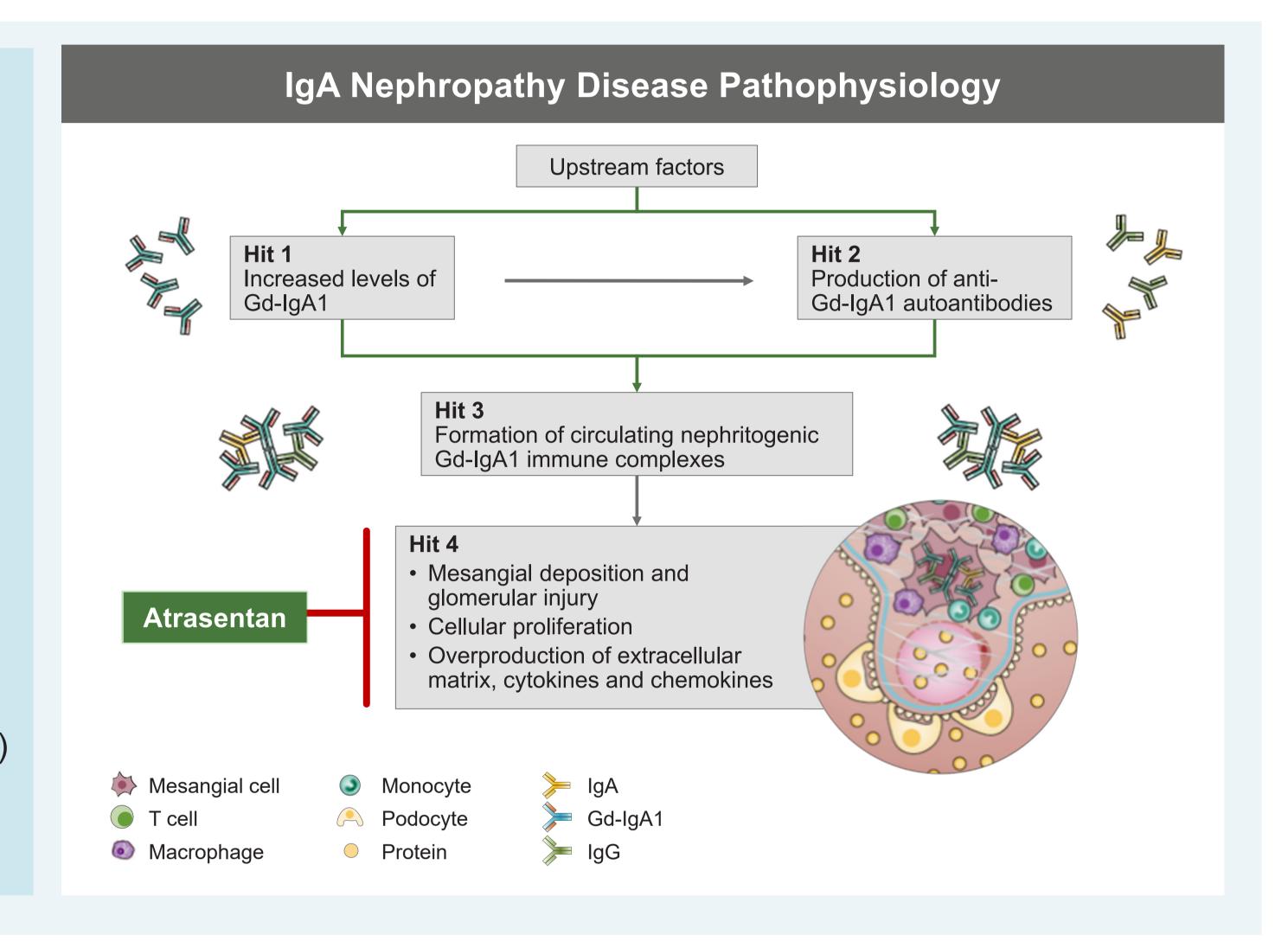
Atrasentan*

Blockade of the ET_A
receptor with atrasentan,
a potent and selective
ET_A antagonist,
represents a potential
approach to reduce
proteinuria and preserve
kidney function in IgAN¹⁵

In preclinical studies, atrasentan attenuates mesangial cell activation, glomerular and tubulointerstitial injury, and reduces proteinuria associated with IgAN¹⁶⁻¹⁸

Atrasentan has demonstrated clinically significant and sustained proteinuria reduction with an acceptable safety profile in over 5,100 patients with DKD ¹⁹⁻²⁰

Interim results from the IgAN cohort of the ongoing AFFINITY study (NCT04573920) demonstrate that atrasentan is generally well-tolerated and results in a mean 54.7% reduction in proteinuria at Week 24 (N=19; ASN 2022, TH-PO497)

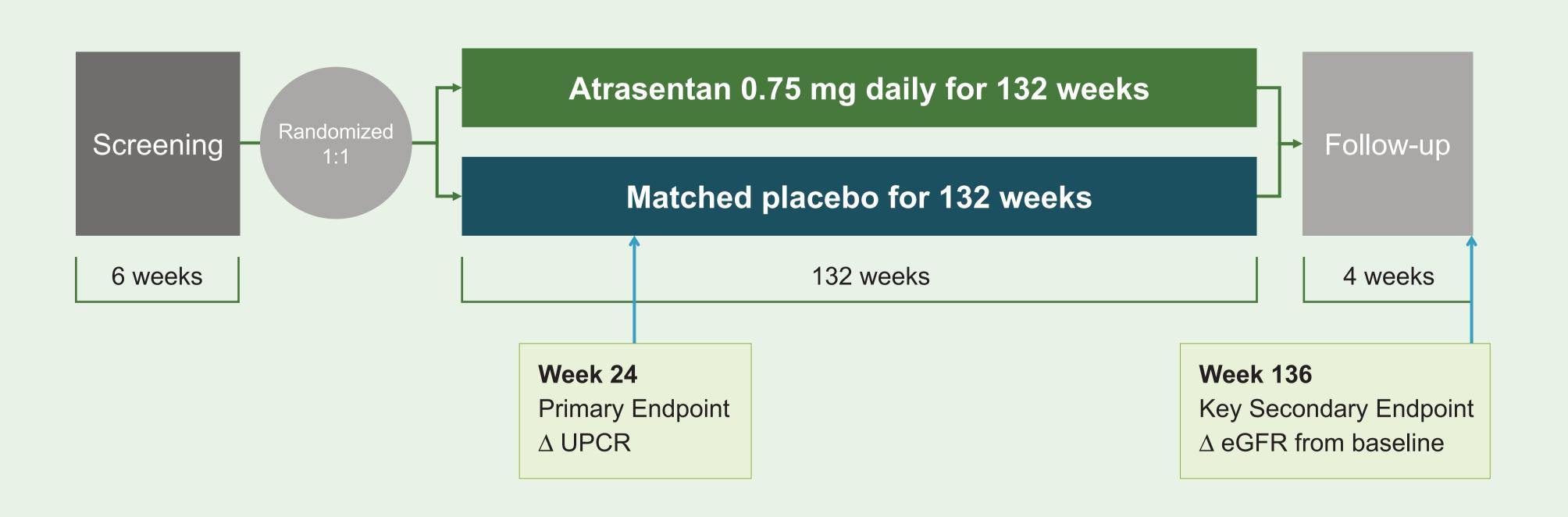


The ongoing ALIGN study (NCT04573478) is a global phase 3, randomized, double-blind, placebo-controlled study of atrasentan in patients with IgAN who are at high risk of kidney function loss



Approximately 320 patients will be enrolled across North America, South America, Europe, and Asia-Pacific

The
ALIGN
Study







Major inclusion criteria:

- Biopsy-proven IgAN with total protein excretion ≥1 g per 24 hrs and eGFR ≥30 mL/min/1.73 m²
- Receiving max-tolerated and optimized dose of RASi for ≥12 weeks prior to screening; a limited number of patients (up to 5%) that are unable to tolerate RASi therapy may be enrolled
- An additional stratum of up to 64 patients receiving a stable dose of SGLT2i for at least 12 weeks will be enrolled



The primary endpoint is change in proteinuria from baseline at Week 24.

Key Secondary endpoint is change in eGFR from baseline at week 136.

Additional endpoints include safety and tolerability, and quality of life.





Reference

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