# Sparsentan as First-Line Treatment of Incident Patients With IgA Nephropathy: Preliminary Findings From the SPARTAN Trial

## **Background**



- Sparsentan is a dual endothelin and angiotensin receptor antagonist<sup>1-3</sup>
- SPARTAN is a 114-week phase 2 trial of sparsentan as a first-line therapy in patients newly diagnosed with IgAN<sup>4</sup>

Week 3 to 110

**Sparsentan** 

400 ma

**Kev endpoints** 

Change in proteinuria from BL

CR of proteinuria (<0.3 g/day)

Change in GFR and BP from BL

36 weeks

Safety

NCT04663204 • Clinical findings over **36 weeks** are reported

# **Study Design**



N≈12



**Key inclusion criteria** 

- Age ≥18 years
- Biopsy-proven IgAN in ≤6 mo
- Proteinuria ≥0.5 g/day
- eGFR ≥30 mL/min/1.73 m<sup>2</sup>
- No ACEIs/ARBs in ≤12 mo

#### Results



- Reduction in proteinuria was ≈60% from baseline at week 4 and sustained over 36 weeks
- 67% (8/12) of patients achieved CR (<0.3 g/day) at any time during the first 36 weeks





eGFR measurements were relatively stable over 36 weeks



 Mean total body water showed modest reduction from BL to week 24



 Mean body weight showed minor fluctuations over 36 weeks of treatment



- After initial decrease,
   BP remained stable during follow-up
- Office and ambulatory
   BP were similar at
   BL and week 6



- Sparsentan was generally well tolerated over 36 weeks of treatment
- One patient discontinued treatment due to hypotension after 6 weeks
- No SAEs were treatment related

### Conclusion

Sparsentan was effective at rapidly reducing proteinuria and controlling BP in patients with newly diagnosed IgAN. Total body water was modestly reduced with no evidence of fluid retention. Sparsentan treatment was generally well tolerated, and no new safety signals were observed. Ongoing studies, including analyses of repeat renal biopsies and biomarkers, will investigate the mechanistic actions of sparsentan and its potential renoprotective effects.

ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; BL, baseline; BP, blood pressure; CR, complete remission; eGFR, estimated glomerular filtration rate; GFR, glomerular filtration rate; IgAN, immunoglobulin A nephropathy; RASB, renin-angiotensin-system blocker; SAE, serious adverse event; SOC, standard of care; UPCR, urine protein-to-creatinine ratio
References: 1. Trachtman H, et al. Expert Opin Emerg Drugs. 2020;25(3):367-375. 2. Kowala MC, et al. J Pharmacol Exp Ther. 2004;309(1):275-284. 3. Nagasawa H, et al. Nephrol Dial Transplant. 2022;37(suppl 3):gfac067.060. 4. ClinicalTrials. Accessed September 11, 2023. https://clinicaltrials.gov/study/NCT04663204.

Week 110 to 114

Follow-up

Cheung CK et al. ASN Kidney Week 2023 Abstract SA-PO901