

Sparsentan (SPAR) as First-Line Treatment of Incident Patients With IgA Nephropathy (IgAN): Findings From the SPARTAN Trial

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Patient Population

- As of the data cutoff (September 26, 2023), 12 patients received SPAR and participated in the study for ≥ 6 weeks (Figures 2 and 3)

Figure 2. Patient Demographics and Baseline Characteristics

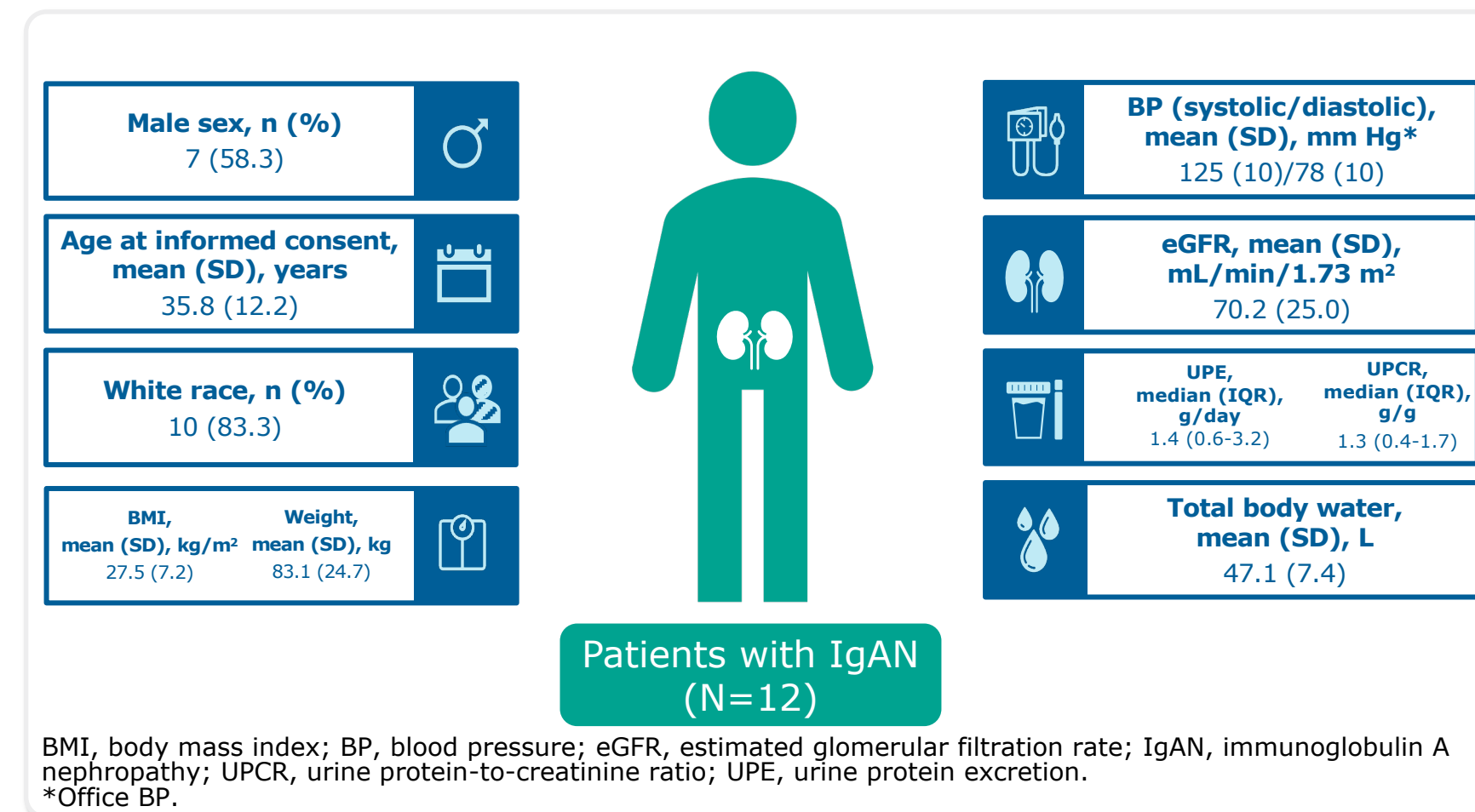
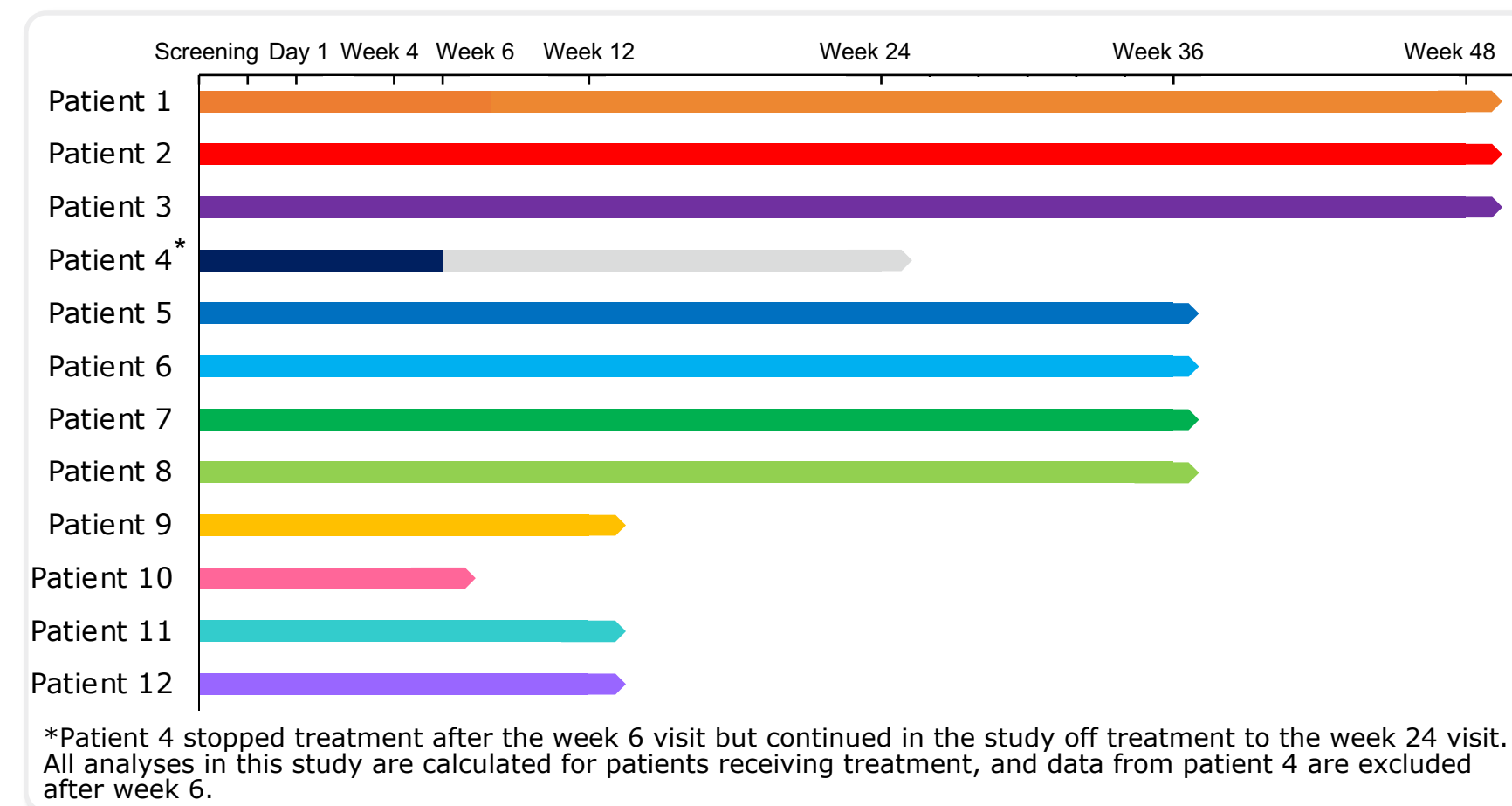


Figure 3. Patient Progress in the Study Up to Week 48



Proteinuria

- Proteinuria reductions were rapid ($\approx 60\%$ from baseline at week 4) and sustained over 48 weeks of SPAR treatment (Figure 4)
- Among the 4 patients with protein excretion of >2 g/day at baseline, 3 had proteinuria reductions of $\geq 75\%$ at any time during the first 48 weeks of treatment (Figure 5)
- 67% of patients (8/12) achieved complete remission (<0.3 g/day) at any time during the 48-week treatment period

Figure 4. Proteinuria Change (UPCR) From Baseline

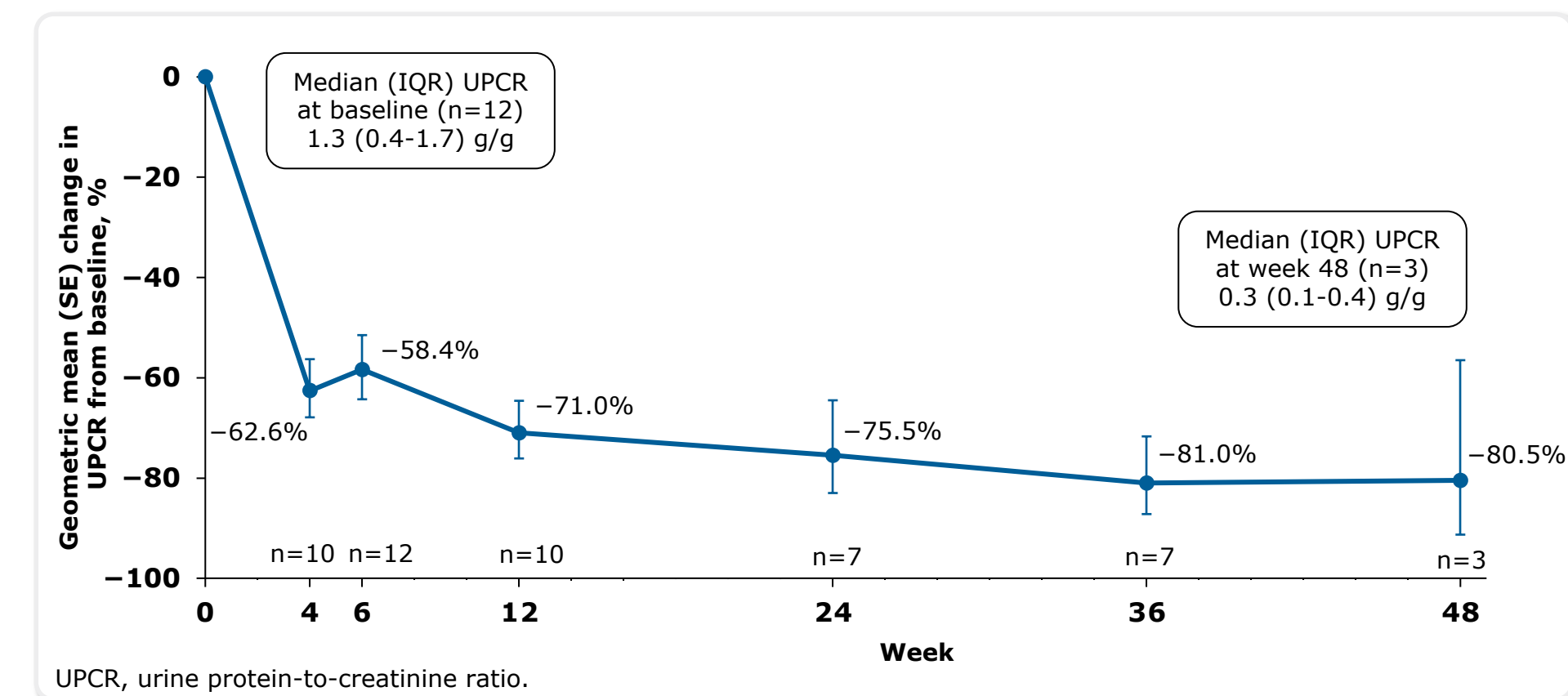
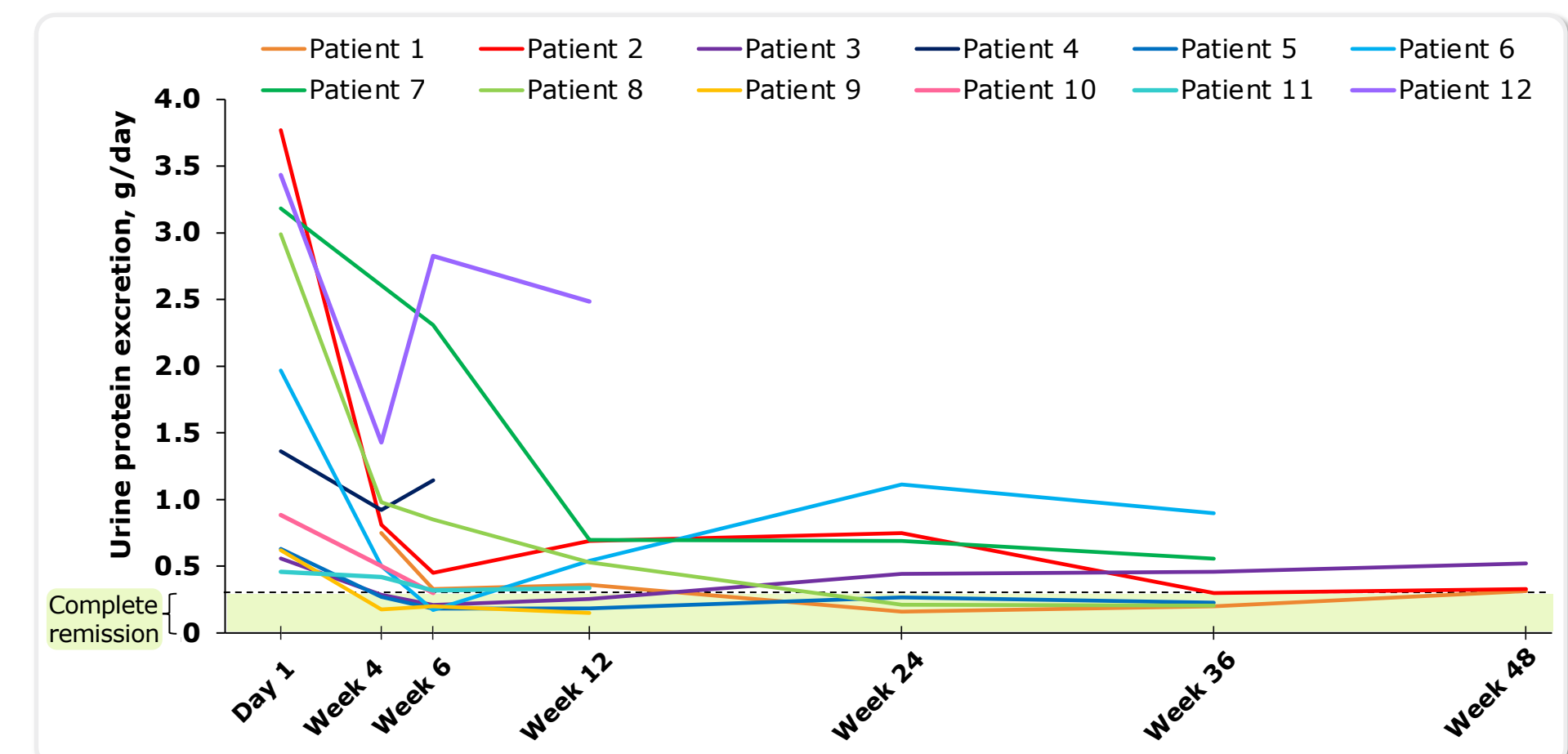


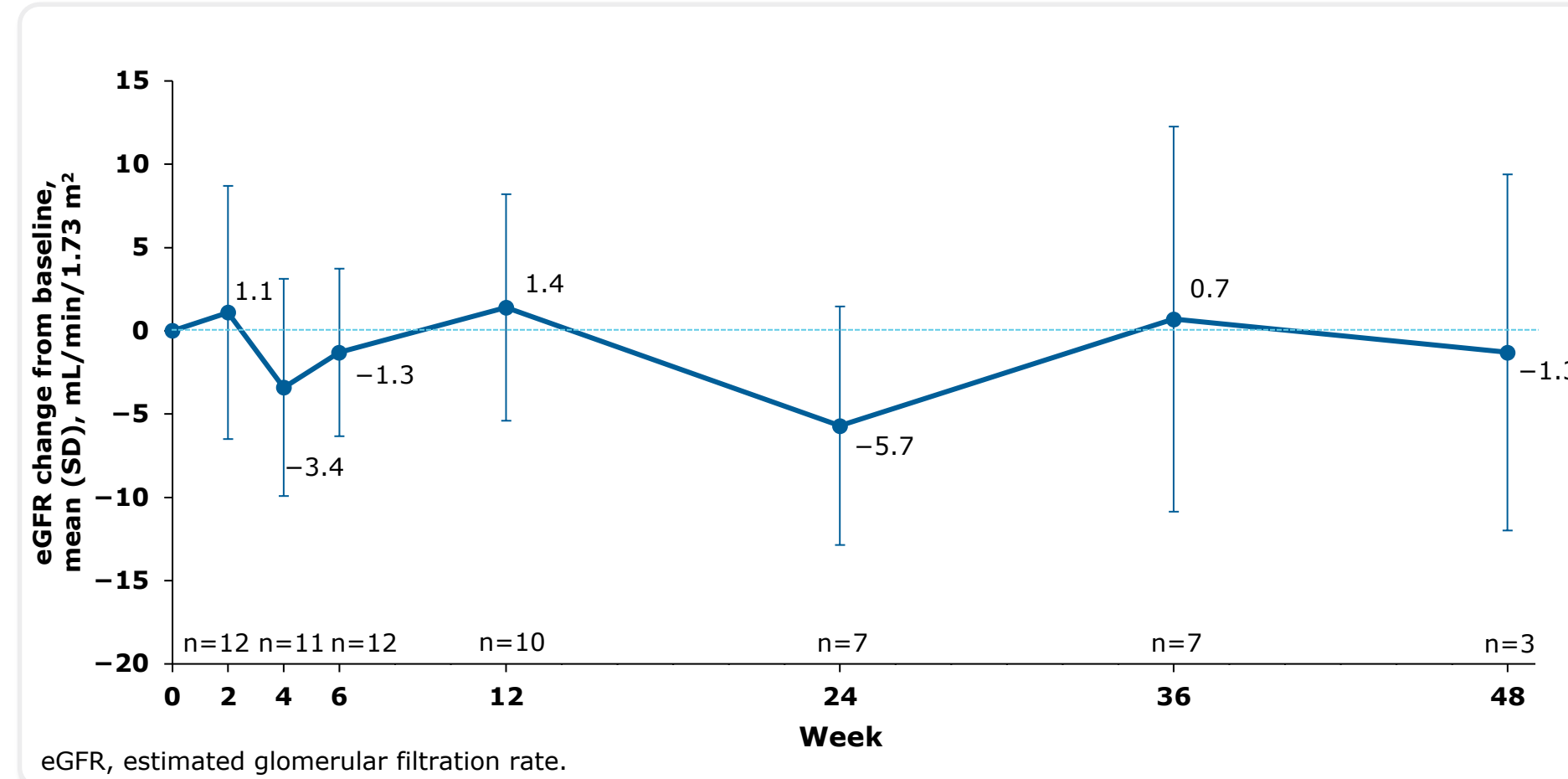
Figure 5. Proteinuria per Individual Patient



Estimated Glomerular Filtration Rate

- Estimated glomerular filtration rate changes were relatively stable over 48 weeks of treatment with SPAR (Figure 6)

Figure 6. Mean eGFR Change From Baseline



Blood Pressure

- After an initial decrease, blood pressure (BP) remained stable during the rest of the treatment period (Figure 7)
- Office and ambulatory BP showed similar measurements of systolic BP and diastolic BP at baseline and week 6, and ambulatory BP showed a slightly greater change from baseline than office BP (Figure 8)

Figure 7. Mean Office BP

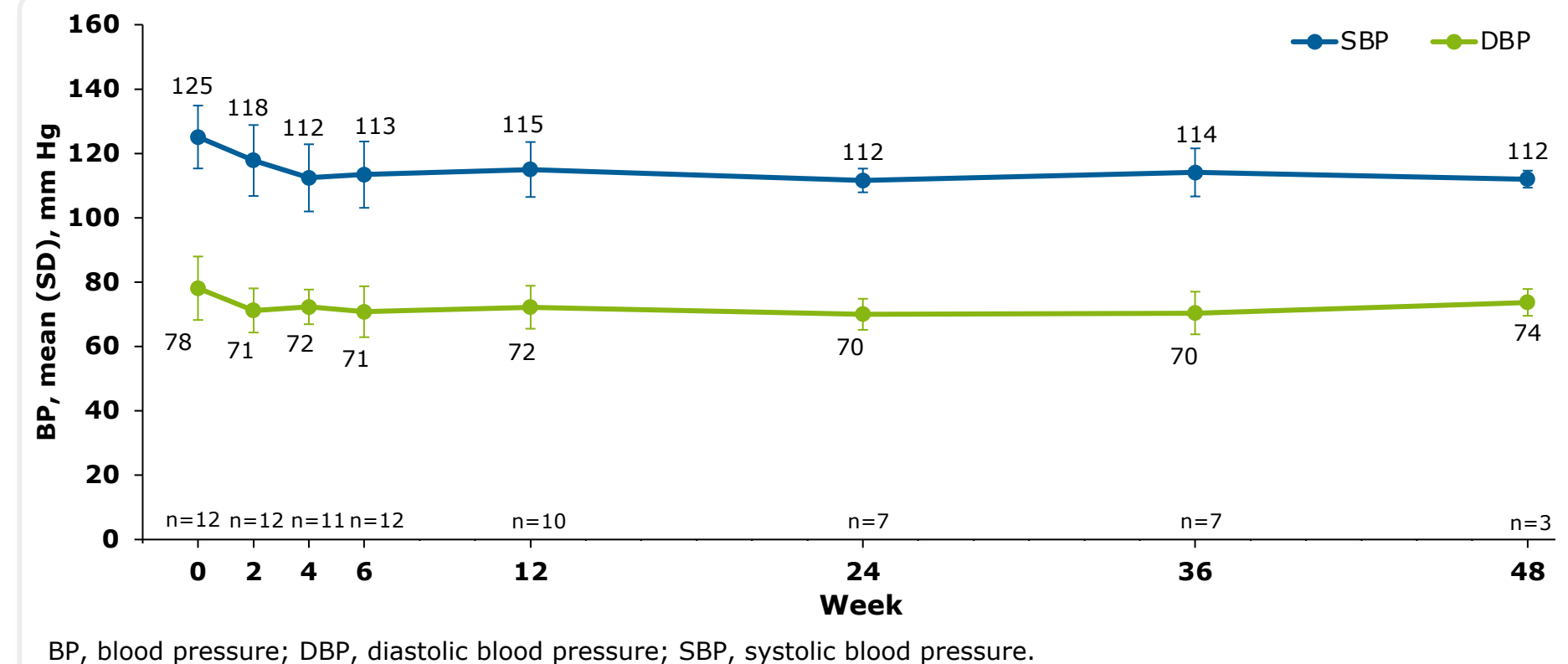
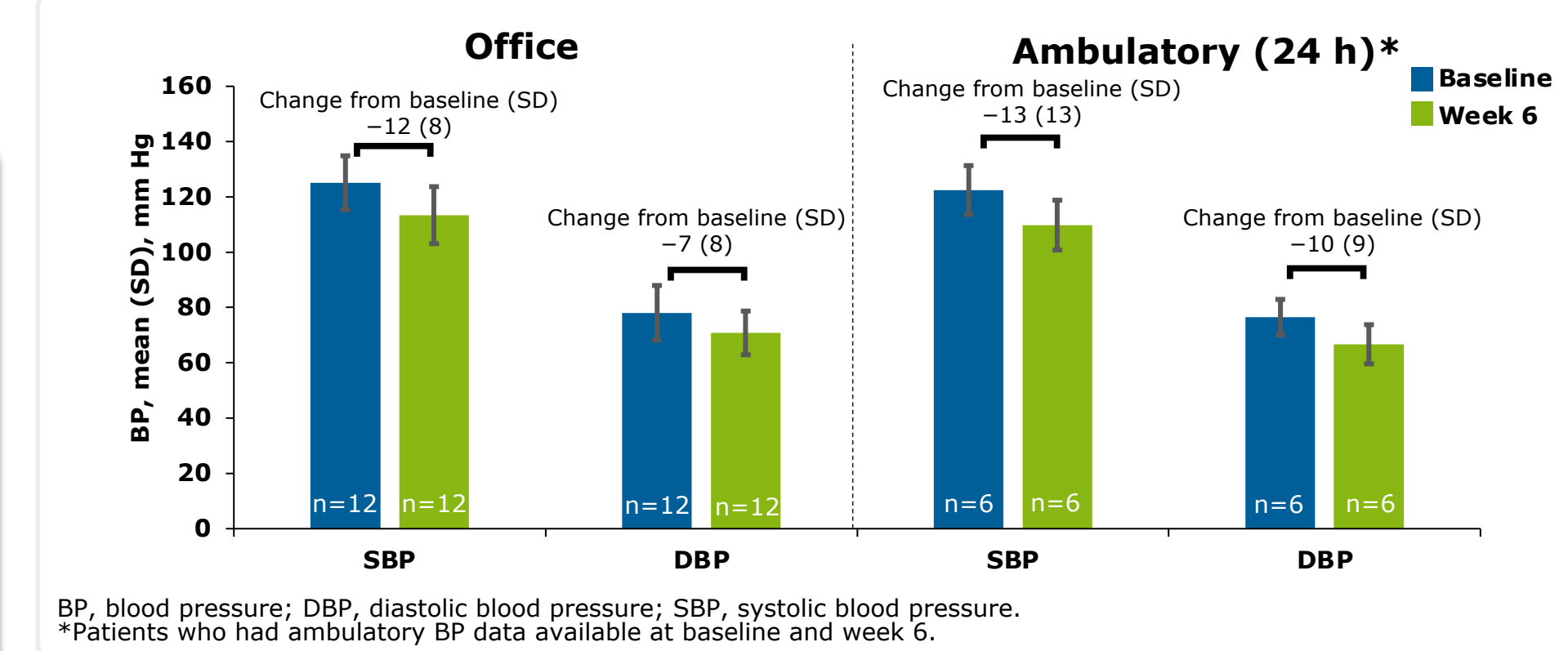


Figure 8. Mean Office and Ambulatory BP at Baseline and Week 6



Body Weight and Total Body Water

- Mean body weight changes showed minor fluctuations over 48 weeks (Table 1)
- Mean total body water change from baseline showed modest reductions during the treatment period

Table 1. Mean Weight and Total Body Water Change From Baseline

Mean (SD) change from baseline	Week						
	2	4	6	12	24	36	48
n	12	11	12	10	7	7	3
Weight, kg	-0.3 (0.7)	-0.2 (1.4)	0.3 (1.4)	0.1 (2.8)	-1.2 (3.2)	0.8 (3.0)	1.7 (4.9)
Total body water, L	-	-	-2.0 (7.2)	-1.9 (7.9)	-3.6 (9.1)	-	-

Safety

- SPAR was generally well tolerated over 48 weeks of treatment
- One patient discontinued treatment due to hypotension after 6 weeks
- There have been 3 serious adverse events, none related to treatment

RESULTS

- Sparsentan (SPAR) is a nonimmunosuppressive, novel dual endothelin and angiotensin receptor antagonist (DEARA) that was granted accelerated approval in the US for the treatment of adults with IgAN at risk of disease progression, based on improvements in proteinuria at 36 weeks (interim analysis) in the ongoing phase 3 PROTECT study^{1,2}
- Over 110 weeks in PROTECT, SPAR showed a sustained reduction in proteinuria and a clinically meaningful benefit on long-term kidney preservation vs maximally titrated irbesartan³
- Although SPAR has been studied in patients with previous maximized renin-angiotensin system inhibitors,^{2,3} the effect in newly diagnosed, treatment-naïve patients remains unknown
- SPARTAN (NCT04663204) is a phase 2, open-label, single-arm trial investigating the safety, efficacy, and mechanistic actions of SPAR as first-line therapy in patients newly diagnosed with IgAN⁴

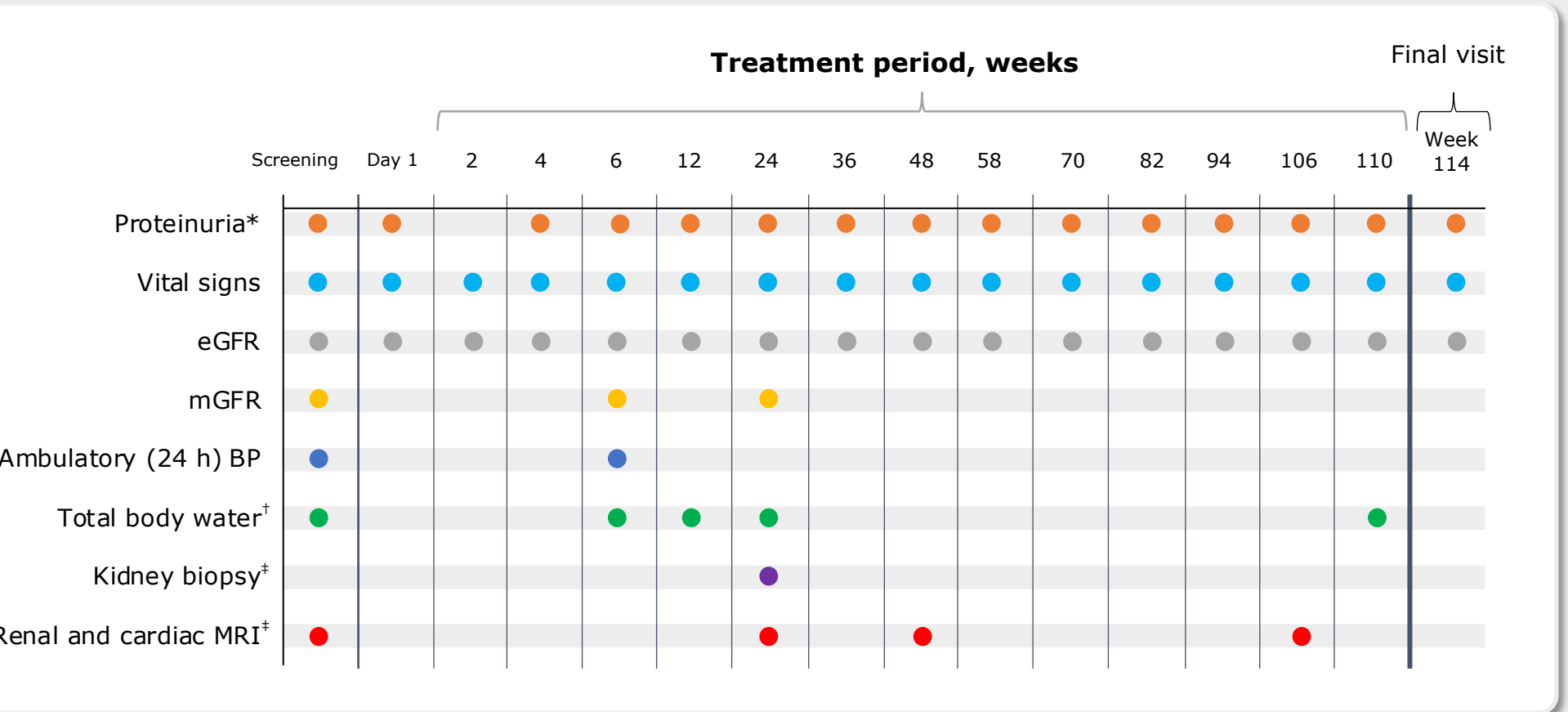
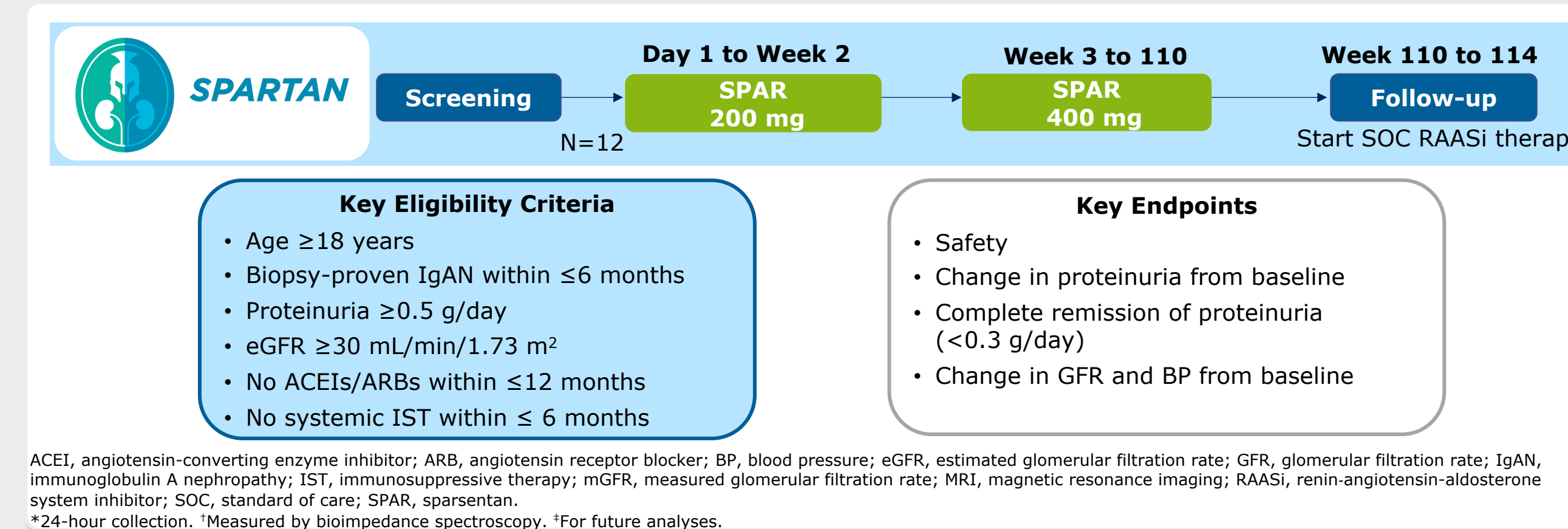
Objective

- Here we report preliminary clinical findings over the first 48 weeks of treatment with SPAR from SPARTAN

METHODS

- The SPARTAN study is being conducted at 5 participating sites in the UK (Figure 1)

Figure 1. SPARTAN Study Design and Patient Assessment Schedule



INTRODUCTION

CONCLUSIONS

- These preliminary findings show that SPAR as a first-line treatment in patients newly diagnosed with IgAN was effective in reducing proteinuria and controlling BP
- The rapid and sustained reductions in proteinuria ($>80\%$ over 48 weeks), the achievement of complete remission, and the safety profile of SPAR in this study are comparable with those from the phase 3 PROTECT study^{2,3}
- eGFR remained stable over 48 weeks of sparsentan treatment
- There was no substantial effect on body weight, which was generally maintained over 48 weeks
- Total body water showed modest reduction over the treatment period with SPAR, with no evidence of fluid retention observed in the study participants
- During the reported study period SPAR treatment was generally well tolerated
- Planned analyses of cardiac and renal MRIs, repeat kidney biopsies, and other serum, plasma, and urinary biomarkers will investigate the mechanistic actions of SPAR in this patient population and its potential renoprotective effects

DISCLOSURES

CKC: consulting fees from George Clinical and Vera Therapeutics; honoraria from Stada; research funding from GSK and Traverse Therapeutics, Inc.; advisory boards for Calliditas, CSL Vifor, and Novartis; steering committee/DSMC for CSL Vifor, Alpine Immune Sciences, and Roche; and travel support from Otsuka and Chinook Therapeutics. SM, RK, BP: employees of Traverse Therapeutics, Inc. and may have equity or other financial interest in Traverse Therapeutics, Inc. MD, JB, consulting fees and research funding from Traverse Therapeutics, Inc. SG: consulting fees from CSL Vifor and Alexion; honoraria from Bayer and Traverse Therapeutics, Inc.; advisory board for Emmes and ICON plc; and travel support from Alexion. AM: consulting fees from Traverse Therapeutics, Inc., Vera Therapeutics, and HLBio. SS: research funding from Johnson and Johnson (JNJ), AstraZeneca, CSL Vifor, and Sanofi Genzyme; consulting fees from Novartis, Bayer, Sanofi-Genzyme, Vifor Pharma, Boehringer-Ingelheim, AstraZeneca, GSK, Sanofi, and Inozyme Pharma Inc.; honoraria from AstraZeneca, Menarini, Napp, CSL Vifor, GSK, Novartis, Bayer, Sanofi Genzyme, and Medscape; National Clinical Director of Renal Medicine for NHS England; travel support from AstraZeneca, Novartis, and CSL Vifor. LW: consulting fees from Traverse Therapeutics, Inc., Novartis, Chinook, and Goldfinch Bio; honoraria from Traverse Therapeutics, Inc., Novartis, and Otsuka; and advisory boards for Eledon. AH, MS: have no conflicts of interest.

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