Concomitant Sparsentan (SPAR) and Sodium-Glucose Cotransporter-2 Inhibitors (SGLT2is) in Patients With IgA Nephropathy (IgAN) in the PROTECT Open-Label Extension (OLE)

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Patient Population

- At data cutoff, 61 patients had initiated concomitant SGLT2i on top of SPAR in the
- 10 patients discontinued sparsentan and the OLE, including 4 who first discontinued SGLT2i treatment and then discontinued the OLE

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- SPAR discontinuations were due to adverse events (n=7), kidney transplant or dialysis (n=1), physician decision (n=1), and patient
- 7 patients discontinued SGLT2i treatment but are continuing to receive SPAR treatment in the OLE (reasons for discontinuing concomitant medications were not captured)
- Baseline patient demographics and clinical characteristics are reported in **Table 1** and **Table 2**, respectively

Table 1. Patient Demographics at SGLT2i Baseline

Demographic parameters	Patients (N=61)
Sex, n (%)	
Male	43 (70)
Female	18 (30)
Race, n (%)	
White	43 (70)
Asian	13 (21)
Black/African American	2 (3)
Other	3 (5)
Ethnicity, n (%)	
Not Hispanic/Latino	59 (97)
Hispanic/Latino	2 (3)
Age at baseline visit, mean (SD), years	46.2 (11.7)
Age at baseline visit, mean (SD), years 46.2 (11.7)	

Table 2. Clinical Characteristics and Medication Use at SGLT2i **Baseline**

Parameters	Patients (N=61)
Clinical measurements	
BMI, mean (SD), kg/m ²	28.3 (4.8)*
Body weight, mean (SD), kg	87.4 (29.9)*
SBP, mean (SD), mm Hg	126.5 (11.9)*
DBP, mean (SD), mm Hg	80.9 (9.6)*
UPE, median (IQR), g/day	1.8 (1.0-3.2)
UPCR, median (IQR), g/g	1.3 (0.8-2.3)
eGFR, mean (SD), mL/min/1.73 m ²	41.8 (20.9) [†]
History of hypertension, n (%)	49 (80)
Antihypertensive medications at baseline visit, n (%)	40 (66)
Diuretics	21 (34)
β-Blockers	15 (25)
a-Blockers	7 (11)
Calcium channel blockers	26 (43)
Other	2 (3)
Time from start of OLE treatment to start of SGLT2i treatment, median (IQR), days	261.0 (148.0-411.0)

*n=59. †n=60.

BACKGROUND

- SPAR is a novel, non-immunosuppressive, single-molecule DEARA with high selectivity for the ET_AR and AT₁R¹
- In the PROTECT trial, SPAR demonstrated superior efficacy for proteinuria reduction and better preservation of kidney function vs maximum labeled dose irbesartan in patients with IgAN^{2,3}
- SPAR is approved in the US and EU for adults with IgAN^{4,5}
- Subgroup analyses from DAPA-CKD and EMPA-KIDNEY suggest that SGLT2is may reduce IgAN
- In the PROTECT OLE, early clinical data showed that adding SGLT2i to ongoing SPAR was generally well tolerated and demonstrated a benefit on proteinuria reduction8

OBJECTIVE

 Here we report updated safety and efficacy data in patients within the PROTECT OLE who added concomitant SGLT2i treatment to their ongoing SPAR treatment

Safety and Efficacy

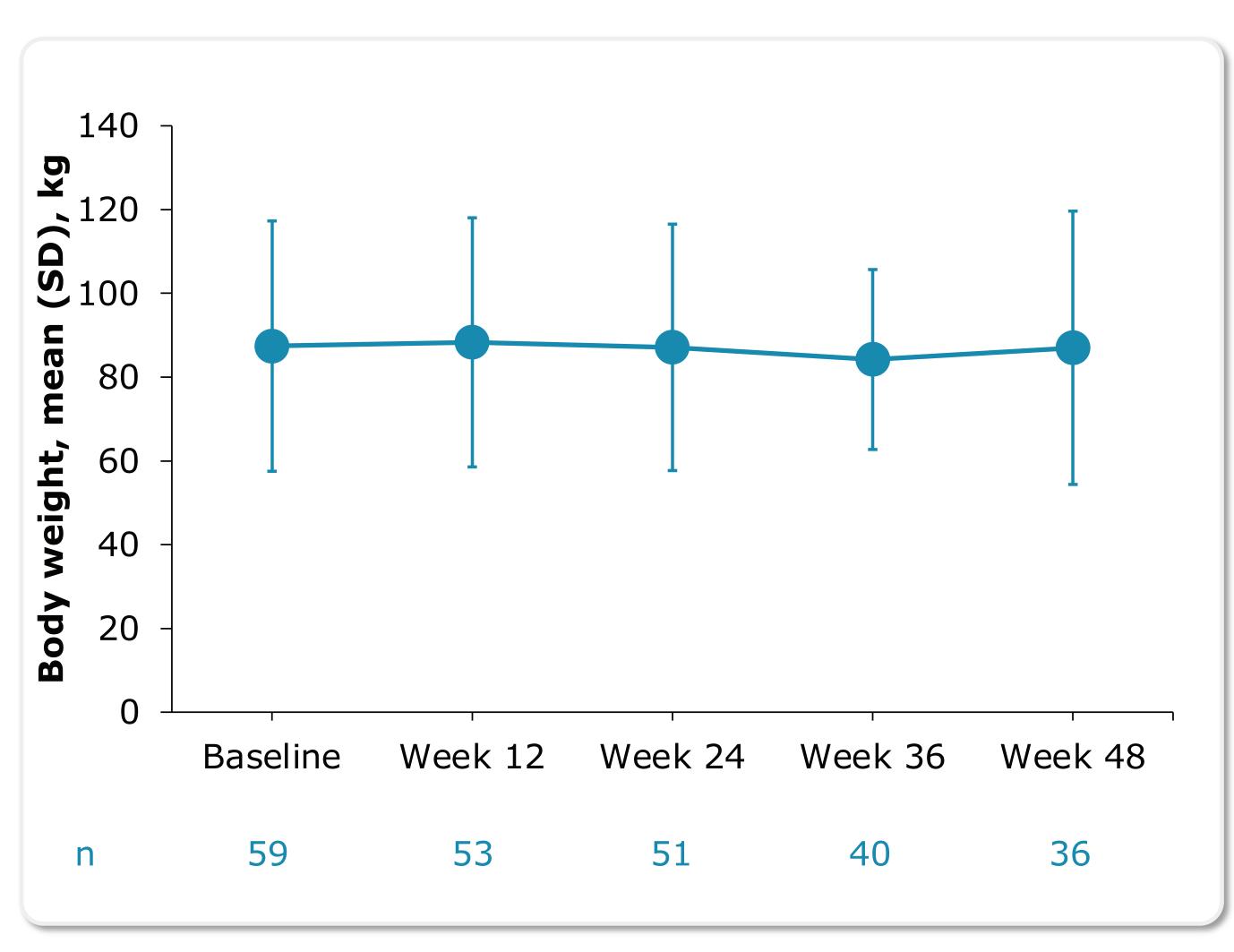
- 46 patients (75%) had a TEAE and 7 patients (11%) had a serious TEAE (Table 3)
- There were no cases of Hy's Law reported (ALT or AST >3x ULN, with total bilirubin >2x ULN)
- Body weight (Figure 1) and blood pressure (systolic and diastolic; Figure 2) remained relatively stable over time following the addition of an SGLT2i to SPAR treatment
- Combination therapy of SPAR plus an SGLT2i led to a further reduction in proteinuria (Figure 3)
- eGFR levels over time are shown in Figure 4

Table 3. Summary of TEAEs

TEAEs*		Serious TEAEs*	
Patients	N=61	Patients	N=61
Patients with any TEAE, n (%)	46 (75)	Patients with any serious TEAE, n (%)	7 (11)
TEAEs in ≥5% of patients, n (%)		All serious TEAEs, n (%)	
Hyperkalemia	7 (11)	Hyperkalemia	2 (3)
COVID-19 [†]	6 (10)	Abortion spontaneous	1 (2)
Hypertension	4 (7)	Acute kidney injury	1 (2)
Hypotension	4 (7)	Chronic kidney disease	1 (2)
Chronic kidney disease	3 (5)	COVID-19 [†]	1 (2)
Cough	3 (5)	Headache	1 (2)
Glomerular filtration rate decreased	3 (5)	Small intestinal obstruction	1 (2)
Peripheral edema	3 (5)	Umbilical hernia	1 (2)
Upper respiratory tract infection	3 (5)		

*TEAEs were based on MedDRA preferred terms. †This study overlapped with the COVID-19 pandemic.

Figure 1. Body Weight Over Time



Study Design

Randomized (1:1)

and received study

drug (N=404)

Day 1

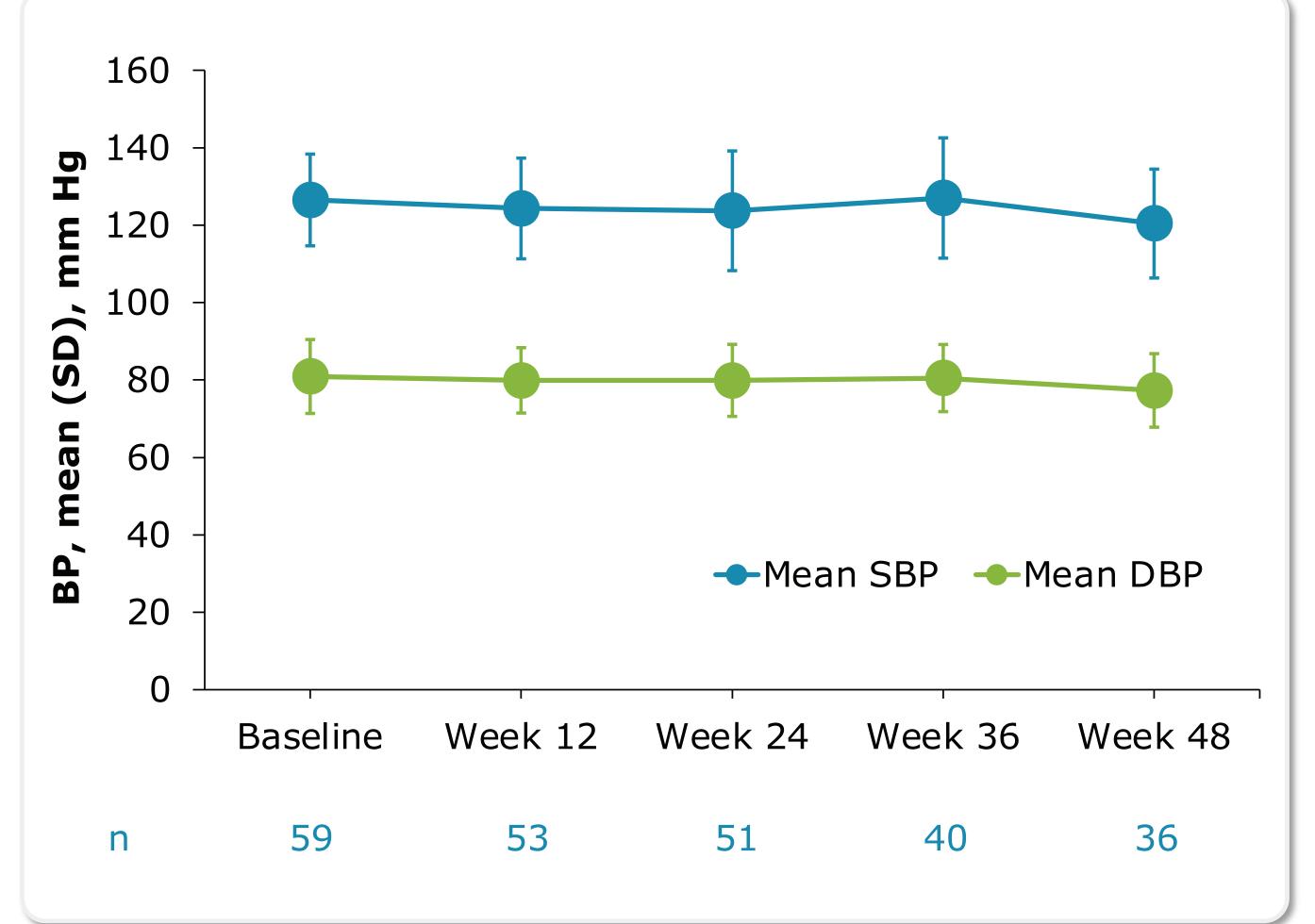
DB treatment period

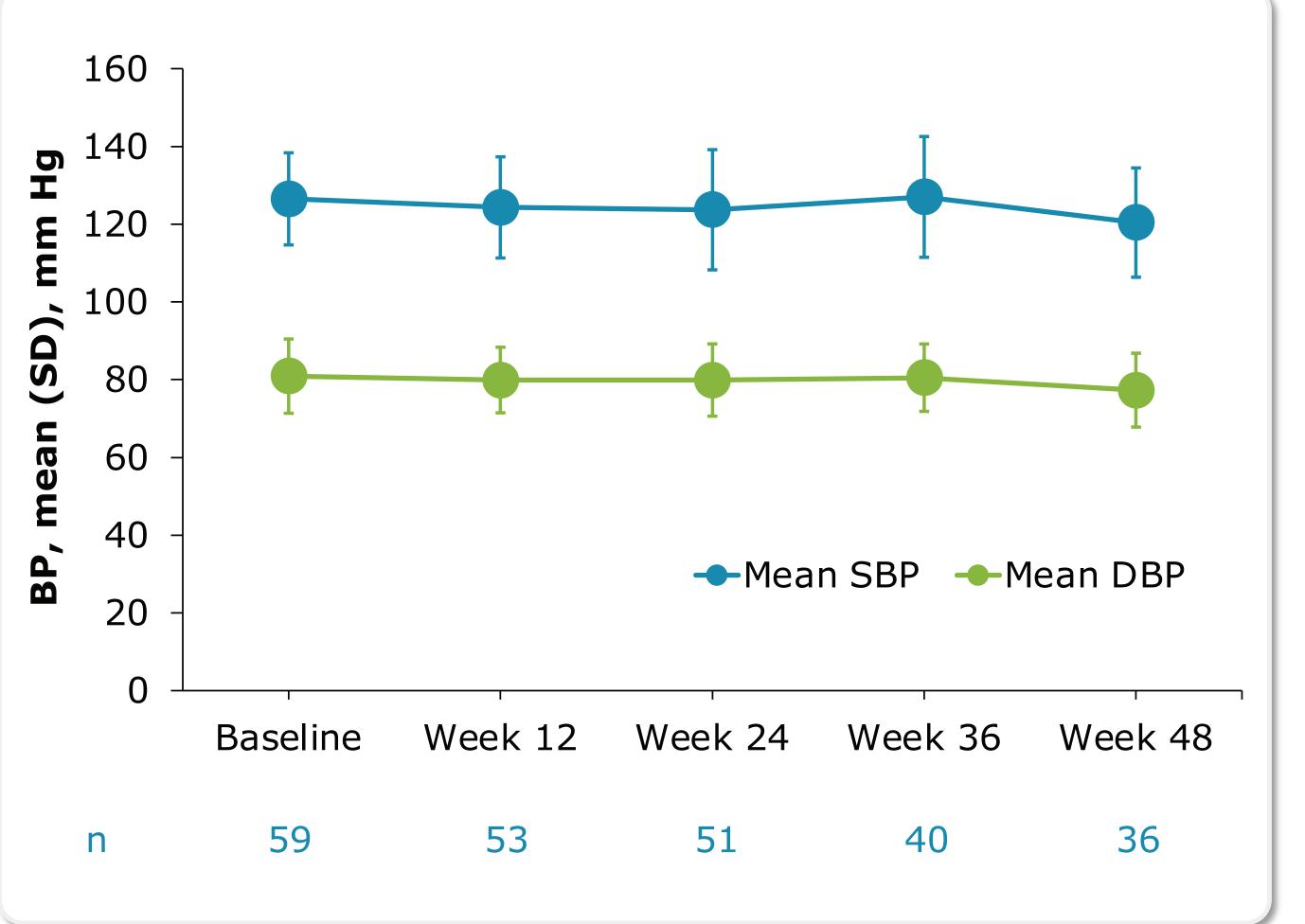
110 weeks

Target dose: 400 mg/day

Target dose: 300 mg/day

Figure 2. Systolic and Diastolic Blood Pressure Over Time





OLE period

156 weeks

Patients could initiate concomitant SGLT2i

treatment at any time during the OLE

period at the discretion of the investigator*

Figure 3. UPCR Over Time With SGLT2i Added to Stable SPAR Treatment

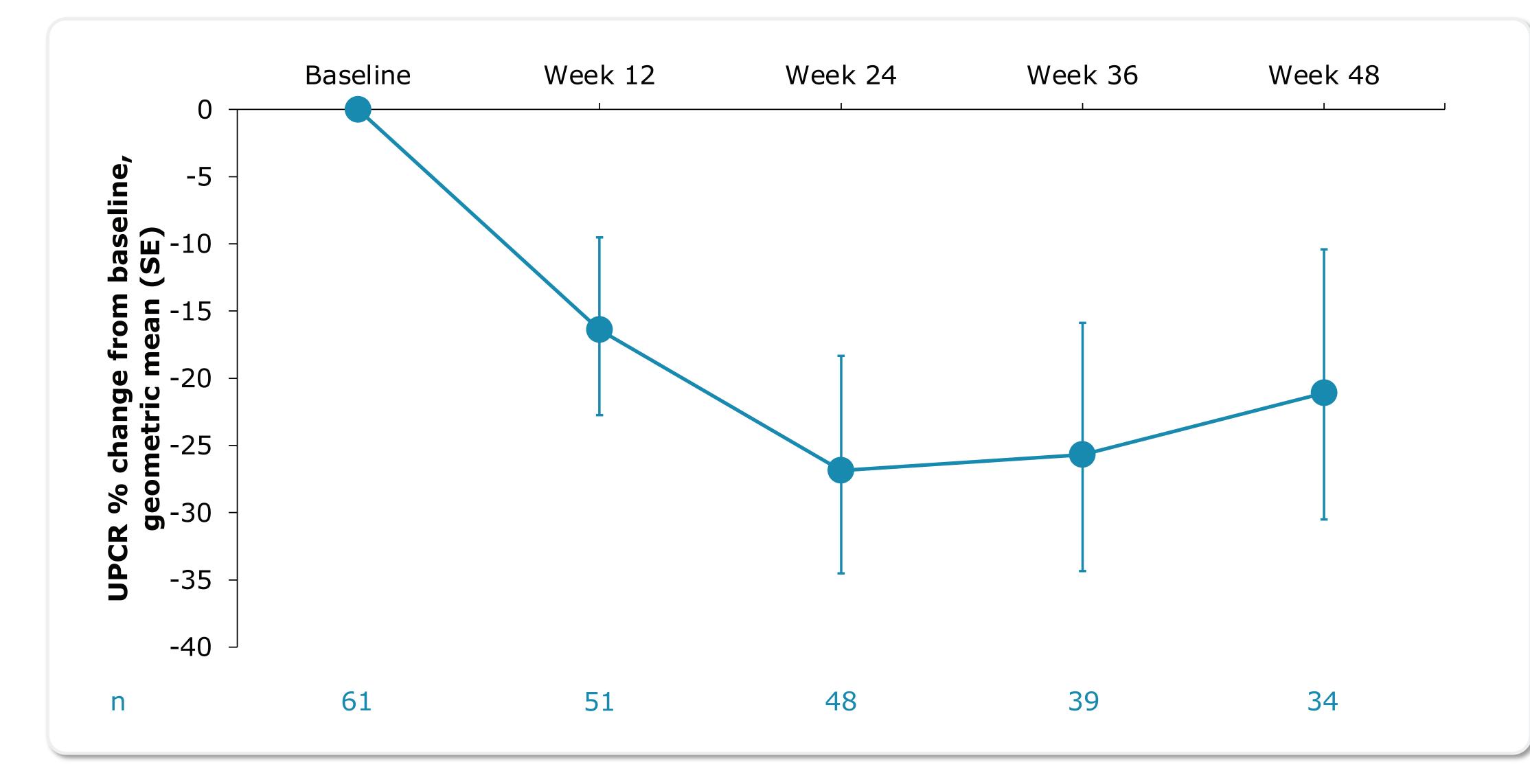
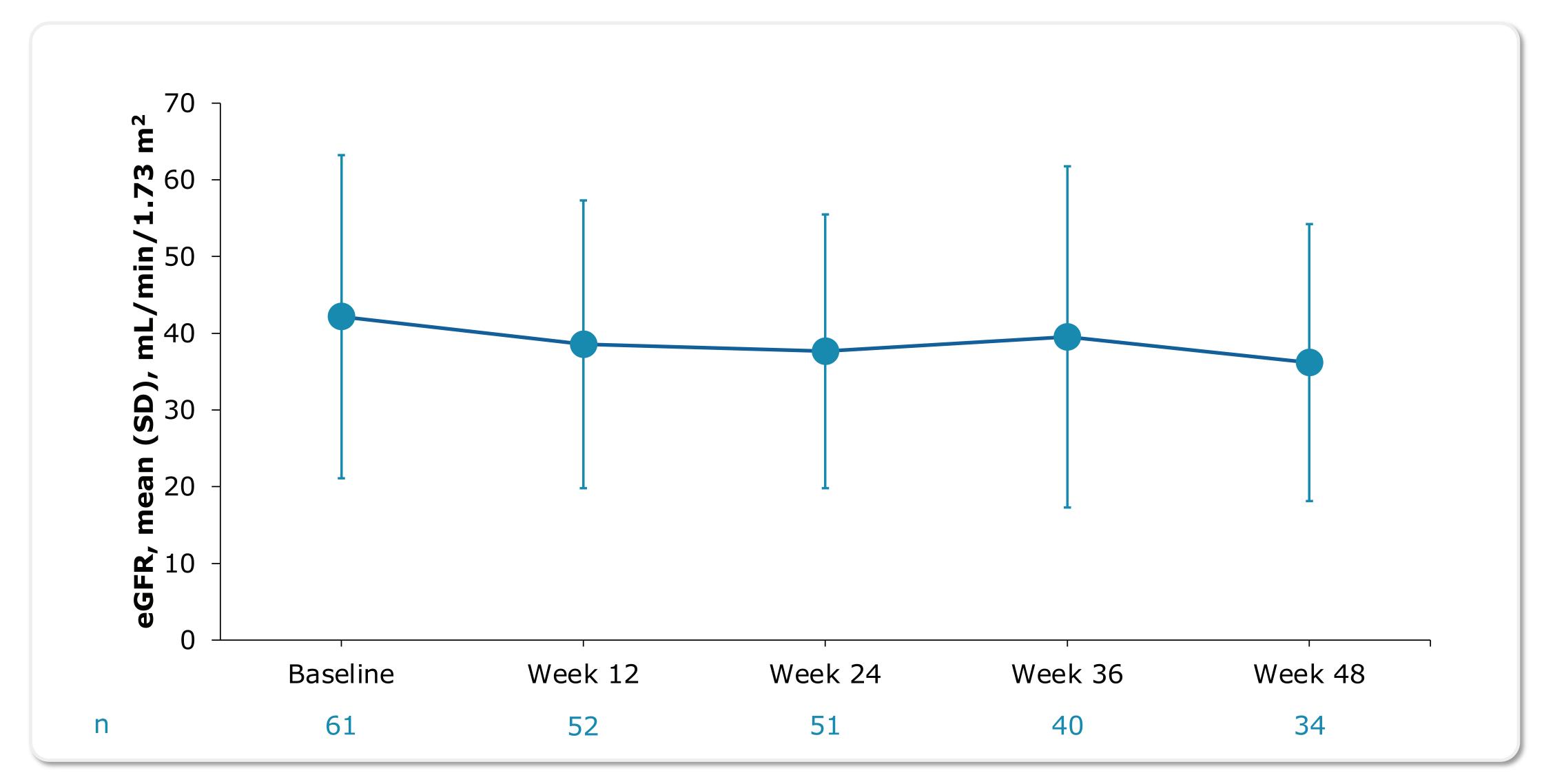


Figure 4. eGFR Over Time With SGLT2i Added to Stable SPAR Treatment



Analysis of Patients in the OLE Who Added SGLT2i to Their Ongoing SPAR Treatment: Key Eligibility Criteria

- Enrollment and active participation in the PROTECT OLE period while continuing SPAR treatment
- Initiation of an SGLT2i as concomitant medication during the OLE period
- Patients were excluded if enrolled in the randomized PROTECT OLE SGLT2i substudy

Body weight, SBP and DBP, and UPCR (based on a 24-hour urine sample) were evaluated at

- Baseline was defined as the OLE visit closest to the SGLT2i start (ie, before or <14 days after)
- End of OLE period
 - received ≥1 dose of SPAR plus an SGLT2i

Outcomes and Statistical Analysis Methods

- baseline and at Weeks 12, 24, 36, and 48 after baseline
- TEAEs were determined
 - Safety and efficacy endpoints were summarized using descriptive statistics for patients who



Poster FR-P0851

Addition of an SGLT2i to

stable SPAR treatment in

generally well tolerated. Stable

weight and blood pressure were

Data are consistent with

an additive benefit on

proteinuria reduction with the

addition of SGLT2i to stable SPAR

Considering that the draft

updated KDIGO guidelines

recommend lower proteinuria

targets and early combination

with SGLT2is represents an

ABBREVIATIONS

protein excretion.

Therapeutics, Inc.

DISCLOSURES

treatment⁹, SPAR in combination

effective treatment with a good

safety profile for patients with

ACEi, angiotensin-converting-enzyme inhibitor; ALT, alanine

aminotransferase; ARB, angiotensin II receptor blocker; AST,

aspartate aminotransferase; AT_1R , angiotensin type 1 receptor;

adverse outcomes in chronic kidney disease; **DB**, double-blind;

receptor antagonist; eGFR, estimated glomerular filtration rate;

EMPA-KIDNEY, empagliflozin in patients with chronic kidney

disease; ETAR, endothelin A receptor; IgA, immunoglobulin A

Dictionary for Regulatory Activities; OLE, open-label extension;

sparsentan; TEAE, treatment-emergent adverse event; ULN, upper

limit normal; UPCR, urine protein-to-creatinine ratio; UPE, urine

LK is the principal investigator for sponsor studies from Akebia

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the direction of the authors by Nicole Lopez, PhD, and Chris

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A visual summary of this poster is also

accessible via the QR code.

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Heerspink HJL, et al. *Lancet*. 2023;401(10388):1584-1594. **3.** Rovin

Chemie Menarini, and Lilly. **PP** is a former employee and stockholder

IgAN, IgA nephropathy; IRB, irbesartan; MedDRA, Medical

SBP, systolic blood pressure; SGLT2i, sodium-glucose

cotransporter-2 inhibitor; **SOC**, standard of care; **SPAR**,

Therapeutics, AstraZeneca, Boehringer Ingelheim, CARA

Omeros, Otsuka, Reata Pharmaceuticals, Sanifit, Travere

BMI, body mass index; DAPA-CKD, dapagliflozin and prevention of

DBP, diastolic blood pressure; DEARA, dual endothelin angiotensing

CONCLUSIONS

patients with IgAN in the

PROTECT OLE period was

maintained

same time as each other. Patients may have received SPAR or IRB during the DB treatment period.

Week 11

End of randomized treatment

Study drug

Patients who completed the DB period

and met eligibility criteria were

enrolled in the OLE (NCT03762850)

Discontinued ACEi/ARB

withdrawal SPAR

resume SOC 400 mg/day

Week 114

End of DB period

*Individual patients who initiated concomitant SGLT2i did not necessarily do so at the start of the OLE period or at the