# Pegcetacoplan for 52 weeks maintained proteinuria reduction regardless of immunosuppressant use or nephrotic range proteinuria at baseline: VALIANT subgroup analysis



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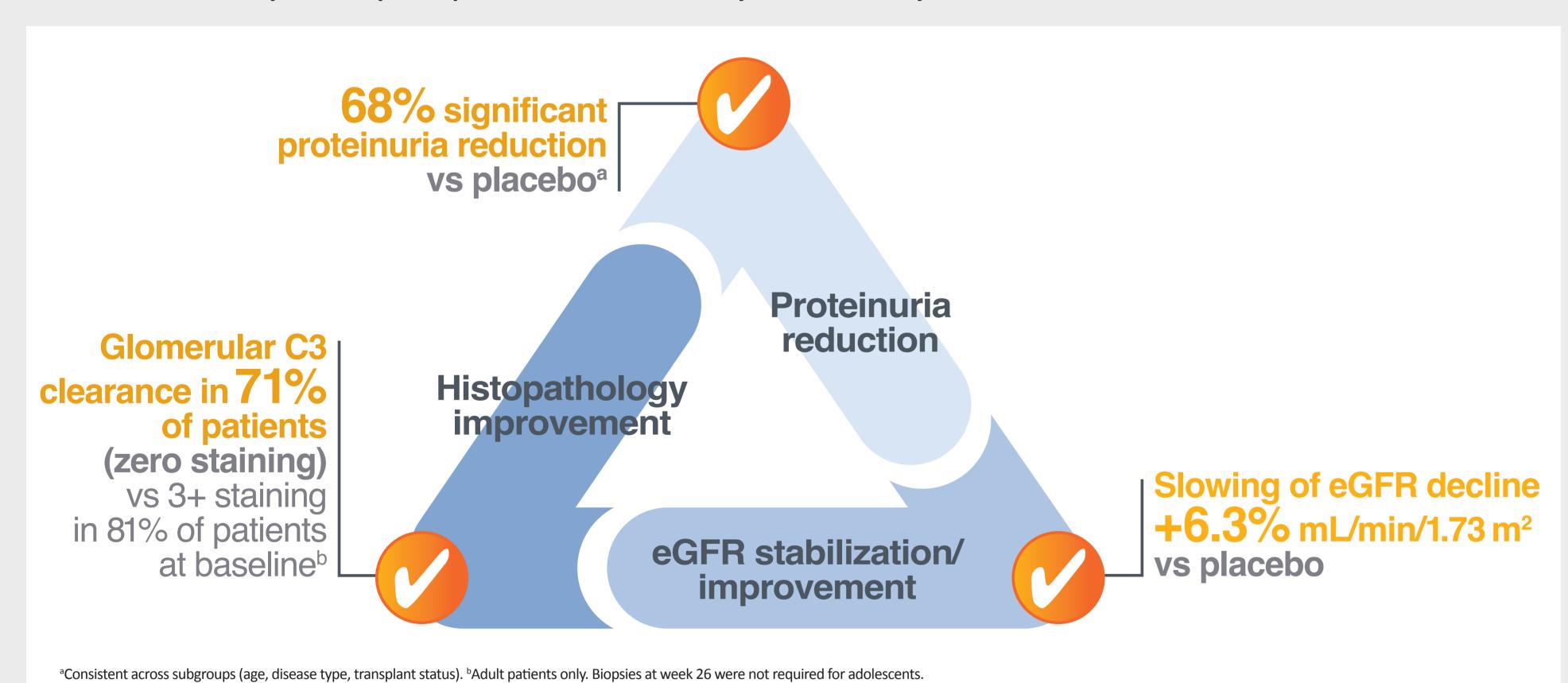
### CONCLUSIONS

- This post hoc analysis of VALIANT shows that patients with C3G or primary (idiopathic) IC-MPGN who received pegcetacoplan for up to 52 weeks had strong, prompt UPCR reductions and slowed eGFR decline, comparable to the overall population, regardless of nephrotic range proteinuria at baseline or concomitant IS treatment
- Patients with nephrotic range proteinuria whose treatment was delayed by only 26 weeks had marked UPCR reductions and slowed eGFR decline after switching to pegcetacoplan; the magnitude of proteinuria reduction may have been impacted by this delayed treatment, indicating the need for urgent intervention, especially in patients with nephrotic range proteinuria who are known to have worse outcomes
- No new safety signals were identified in these key patient groups

### INTRODUCTION

eGFR, estimated glomerular filtration ra

- C3G and primary IC-MPGN are driven by complement dysregulation, resulting in the accumulation of C3 deposits in the glomeruli (in addition to immunoglobulins in IC-MPGN), leading to inflammation and ultimately kidney failure<sup>1,2</sup>
- In the phase 3 VALIANT trial (NCT05067127) RCP, patients with C3G or primary IC-MPGN who
  received pegcetacoplan for 26 weeks improved in all components of the C3G outcome triad
  established by an expert panel convened by the Kidney Health Initiative, as shown below<sup>3,4</sup>



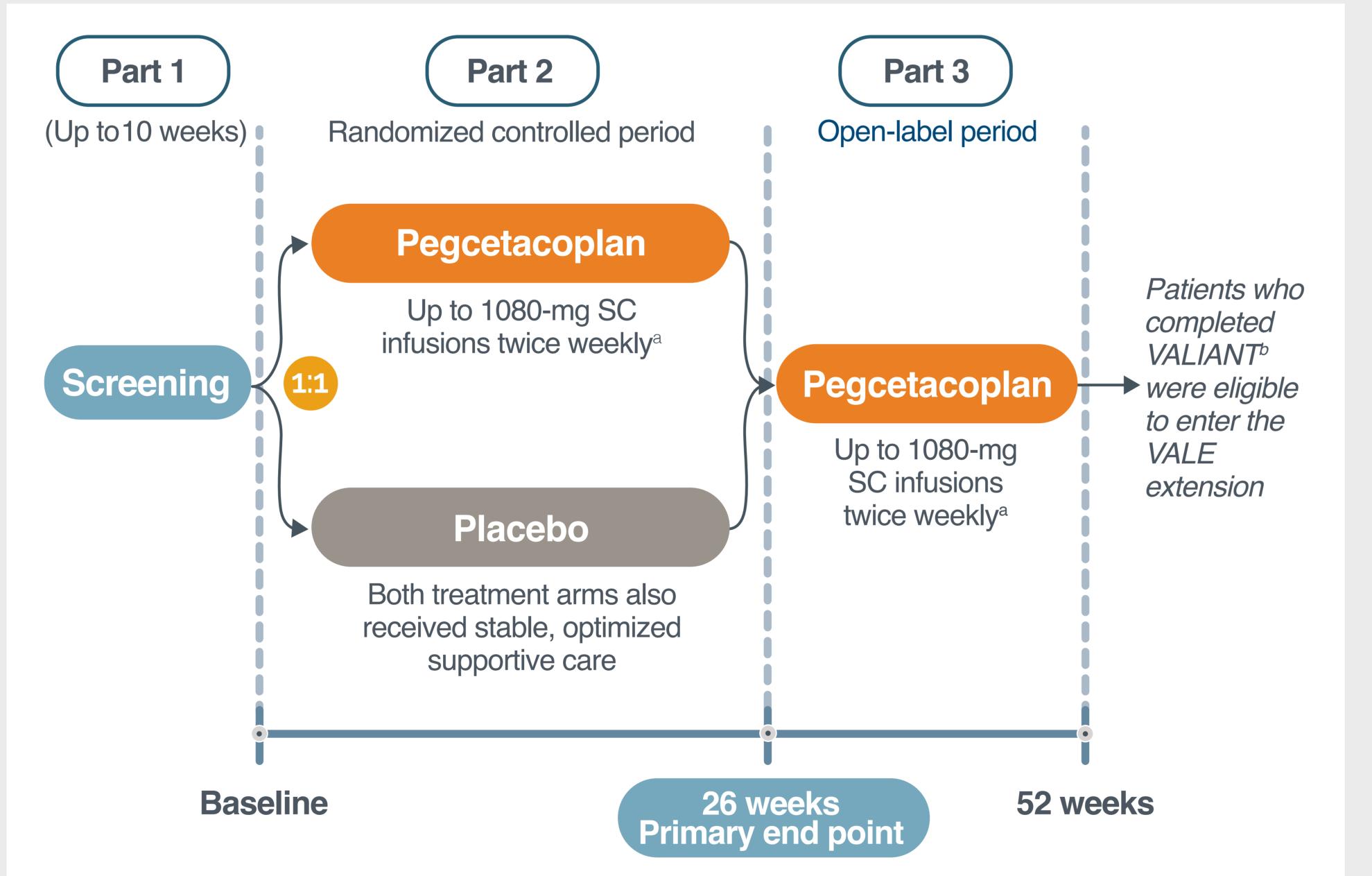
- As IS treatment is often recommended for patients with C3G and primary IC-MPGN who have a higher risk for progression, such as those with persistent nephrotic-range proteinuria or declining kidney function<sup>5</sup>, it is of great interest to investigate pegcetacoplan's efficacy in patients with concomitant IS use
- Patients with nephrotic-range proteinuria are known to have particularly poor outcomes<sup>6</sup>;
   treatment options for this difficult-to-treat group are urgently needed
- In these post hoc analyses, we assessed efficacy in these key patient subgroups (concomitant IS treatment, including patients with recurrence after transplantation [yes/no] or nephrotic range proteinuria at baseline [UPCR <3 g/g vs ≥3 g/g]) after up to 52 weeks of pegcetacoplan</p>

## OBJECTIVE

Determine if the proteinuria reduction and the slowing of eGFR decline observed with 52 weeks of pegcetacoplan in VALIANT was consistent in patients with or without concomitant IS use and patients with or without nephrotic range proteinuria at baseline

## **METHODS**

- VALIANT tested pegcetacoplan in patients ≥12 years of age with biopsy-confirmed C3G or primary IC-MPGN³ (Figure 1)
- Figure 1. VALIANT study design



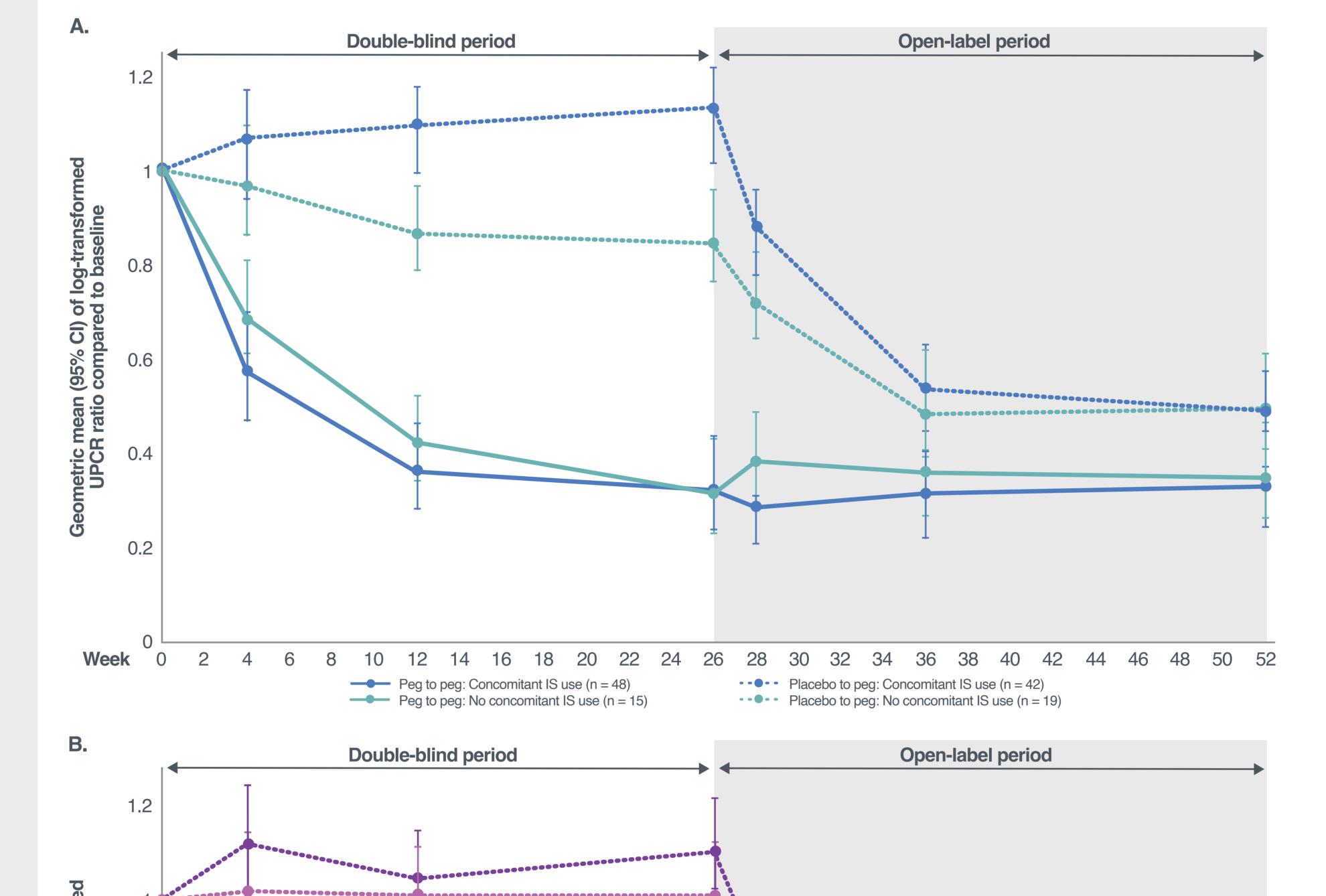
<sup>a</sup>All adults and adolescents weighing ≥50 kg self administered 1080 mg/20 mL twice weekly. Adolescent patients weighing 30 to <35 kg received 540 mg/10 mL for the first 2 doses, then 648 mg/12 mL twice weekly. Adolescent patients weighing 35 to <50 kg received 648 mg/12 mL for the first dose, 810 mg/15 mL for the second dose, then 810 mg/15 mL twice weekly. Biopsies were not required at week 52. <sup>b</sup>61 of 63 patients randomized to pegcetacoplan entered the OLP and 59 completed the study. 57 of 61 patients randomized to placebo entered the OLP and 55 completed the study. Patients who completed the OLP could continue to the VALE extension. OLP, open-label period; SC,

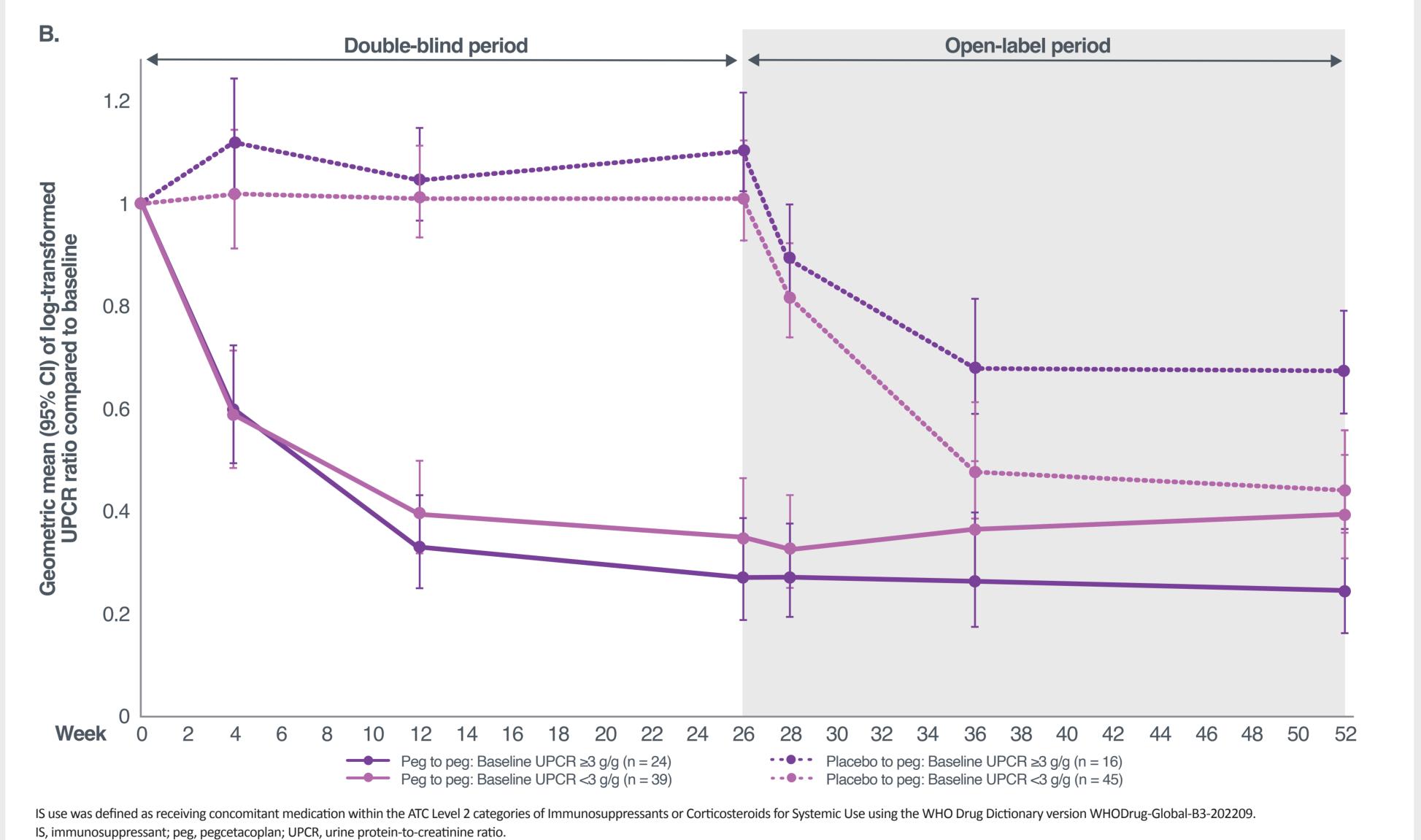
## RESULTS

- Patients receiving pegcetacoplan for 52 weeks had sustained proteinuria decreases (mean [95% CI] change from baseline: week 26, −67.2% [−74.9 to −57.2]; week 52, −67.2% [−75.8 to −55.4])
- Patients in the placebo-to-pegcetacoplan group had a similar result after switching to pegcetacoplan: week 26, 2.9% (–8.6 to 15.9); week 52, –51.3% (–62.1 to –37.5)
- Proteinuria reductions among pegcetacoplan-treated patients by concomitant IS use and nephrotic range proteinuria at baseline were consistent with the overall population to week 52 (Figure 2). Placebo-to-pegcetacoplan patients in these subgroups also achieved UPCR reduction and eGFR stabilization after 26 weeks of pegcetacoplan treatment. The magnitude of proteinuria reduction in the nephrotic range subgroup, after a 26-week delay in treatment, indicates the importance of early treatment

# RESULTS (cont.)

Figure 2. Change in proteinuria during VALIANT by concomitant IS use (A) and nephrotic range proteinuria (B)

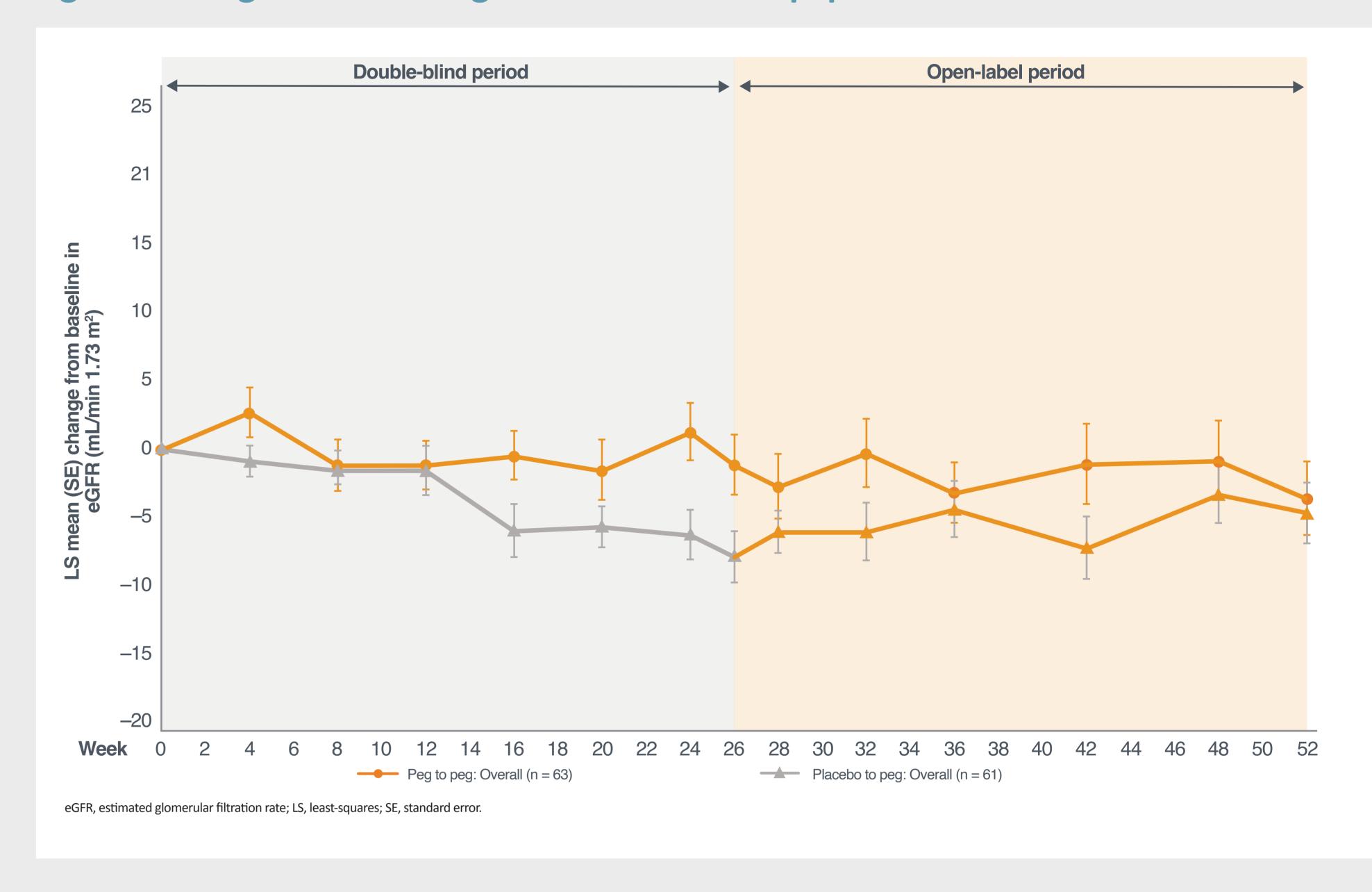




- eGFR was stable for the pegcetacoplan-to-pegcetacoplan group (LS mean [SE] change from baseline, mL/min/1.73 m<sup>2</sup>: week 26, –1.5 [2.2]; week 52, –3.7 [2.7]); placebo-to-pegcetacoplan patients had a slowing of eGFR decline after switching to pegcetacoplan (week 26, –7.8 [1.9]; week 52, –4.7 [2.2]) (**Figure 3**)
- LS mean (SE) eGFR changes from baseline for patients in the pegcetacoplan-to-pegcetacoplan treatment group with concomitant IS treatment or nephrotic range proteinuria were consistent with the total population

# RESULTS (cont.)

Figure 3. Change in eGFR during VALIANT in the total population



- Overall, patients had 99% adherence to pegcetacoplan dosing
- No new safety signals were identified through 52 weeks
- No graft losses occurred during the trial
- No encapsulated meningococcal infections were reported

### LIMITATIONS

- Small numbers in the post hoc analyses limit interpretation
- The heterogeneity of IS regimens and treatment durations were not accounted for in this analysis

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**ABBREVIATIONS:** ACEis, angiotensin-converting enzyme inhibitors; ARBs, angiotensin receptor blockers; C3G, C3 glomerulopathy; eGFR, estimated glomerular filtration rate; IC-MPGN, immune-complex membranoproliferative glomerulonephritis; IS, immunosuppressant; LS, least-squares; MMF, mycophenolate mofetil; OLP, open-label period; RCP, randomized controlled period; SGLT2is, sodium-glucose cotransporter-2 inhibitors; SC, subcutaneous; UPCR, urine protein-to-creatinine ratio.

RCP, randomized controlled period; SGLT2is, sodium-glucose cotransporter-2 inhibitors; SC, subcutaneous; UPCR, urine protein-to-creatinine ratio.

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