

Improvement in Atopic Dermatitis Signs and Symptoms With Once-Daily and Proactive Twice-Weekly Roflumilast Cream 0.15% or 0.05%: Results From the 52-Week Phase 3 INTEGRUMENT-OLE Trial in Patients Aged ≥2 Years

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ABBREVIATIONS

AD, atopic dermatitis; AE, adverse event; BIW, twice weekly; BSA, body surface area affected; EASI, Eczema Area and Severity Index; FAS, full analysis set; K-M, Kaplan-Meier; NE, not evaluable; OLE, open-label extension; PDE4, phosphodiesterase 4; PED, pediatric; ROF, roflumilast; QD, once daily; SAE, serious AE; TCS, topical corticosteroids; TEAE, treatment-emergent AE; US, United States; vIGA-AD, Validated Investigator Global Assessment for AD; WI-NRS, Worst Itch-Numeric Rating Scale; y, years.

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DISCLOSURES

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INTRODUCTION

- AD is a chronic inflammatory skin disease that is often first diagnosed during childhood and has a prevalence of ~10% among those aged 6 months to <6 years in the US^{1,2}
 - Signs and symptoms of AD can result in comorbidities and negatively impact quality of life of the whole family³
- Despite advances in the development of topical treatments that are not steroids, TCS are commonly used to treat AD; however, there are several limitations to their use, even more so in younger patients^{4,5}
 - Because of increased risk of cutaneous and systemic AEs, TCS are not approved for long-term use and higher potency TCS are not recommended for thin-skinned areas (eg, face, younger skin) where there is greater systemic absorption^{3–5}
 - Children with less developed skin barriers and greater BSA to weight ratios are at even greater risk for AEs
- Roflumilast, a potent PDE4 inhibitor, has been formulated as a topical cream or foam that does not include propylene glycol, formaldehyde, fragrances, or potential cutaneous irritants⁶
 - Roflumilast cream 0.15% is approved for treatment of mild-to-moderate AD in patients aged ≥6 years⁷
 - Efficacy and safety of once-daily roflumilast cream 0.15% and 0.05% in patients with AD aged ≥6 years and 2–5 years, respectively, were demonstrated in the 4-week, phase 3 INTEGRUMENT-1/2 (NCT04662487/NCT04773600)⁸ and INTEGRUMENT-PED (NCT04845620)⁹ trials
- Use of roflumilast cream 0.15% for up to 56 weeks in patients aged ≥2 years with AD was investigated in the INTEGRUMENT-OLE (NCT04804605) study
 - Primary safety and efficacy outcomes in patients aged ≥6 years from the OLE study are reported by Eichenfield, et al¹⁰
- Long-term outcomes, including changes in BSA from patients aged ≥6 years and 2–5 years from INTEGRUMENT-OLE, are reported here

METHODS

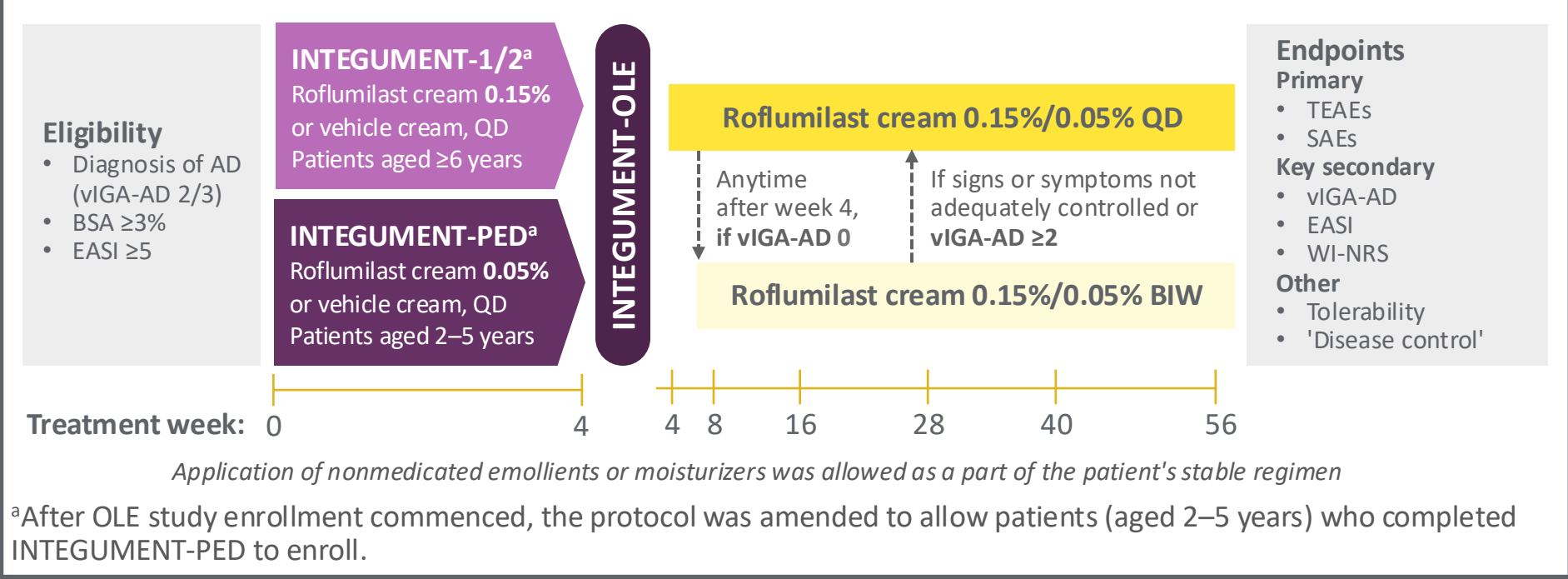
Study design

- INTEGRUMENT-OLE was a 52-week, phase 3, multicenter, OLE trial in patients aged ≥2 years with AD
 - Patients who completed 4 weeks in one of the parent studies (INTEGRUMENT-1/2, ≥6 years or INTEGRUMENT-PED, 2–5 years) with no safety concerns were allowed to enroll in the INTEGRUMENT-OLE trial and apply once-daily roflumilast cream 0.15% or 0.05%, respectively
 - Patients who ‘aged up’ from 5 to 6 years during the study were switched to roflumilast cream 0.15% at their first scheduled visit after their birthday
- Patients could switch to BIW application any time after week 4, if they achieved vIGA-AD 0
 - BIW treatment was maintained if signs and symptoms were adequately controlled and vIGA-AD remained clear or almost clear (0/1)

Assessments in this analysis

- vIGA-AD 0/1
- vIGA-AD success, defined as vIGA-AD 0/1 plus a ≥2-point improvement from parent study baseline
- WI-NRS success, defined as ≥4-point improvement in patients with parent study baseline WI-NRS ≥4
- BSA over time
- ‘Disease control’, defined as duration of vIGA-AD 0/1 and adequate control of signs and symptoms with BIW application

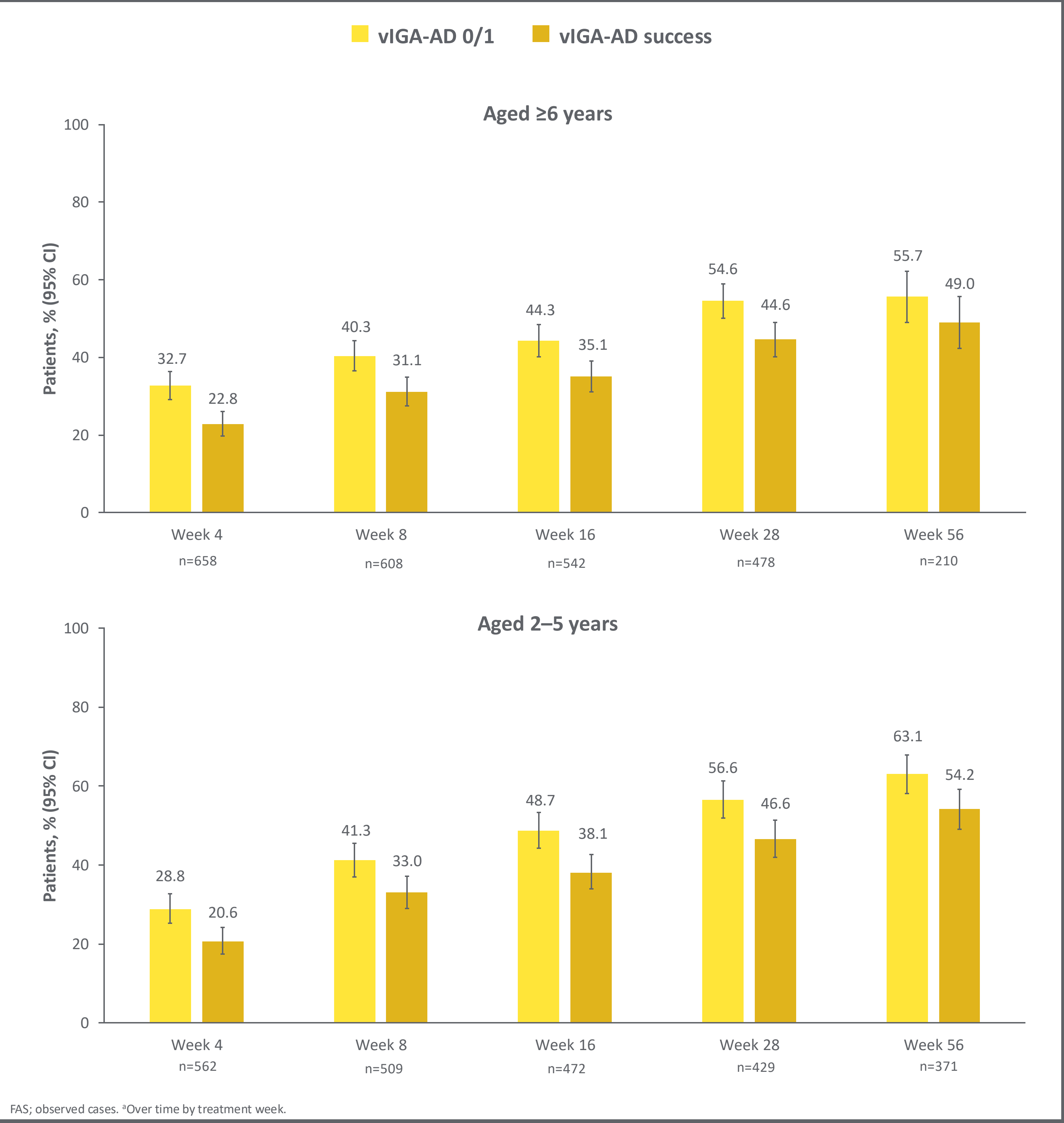
Study Design



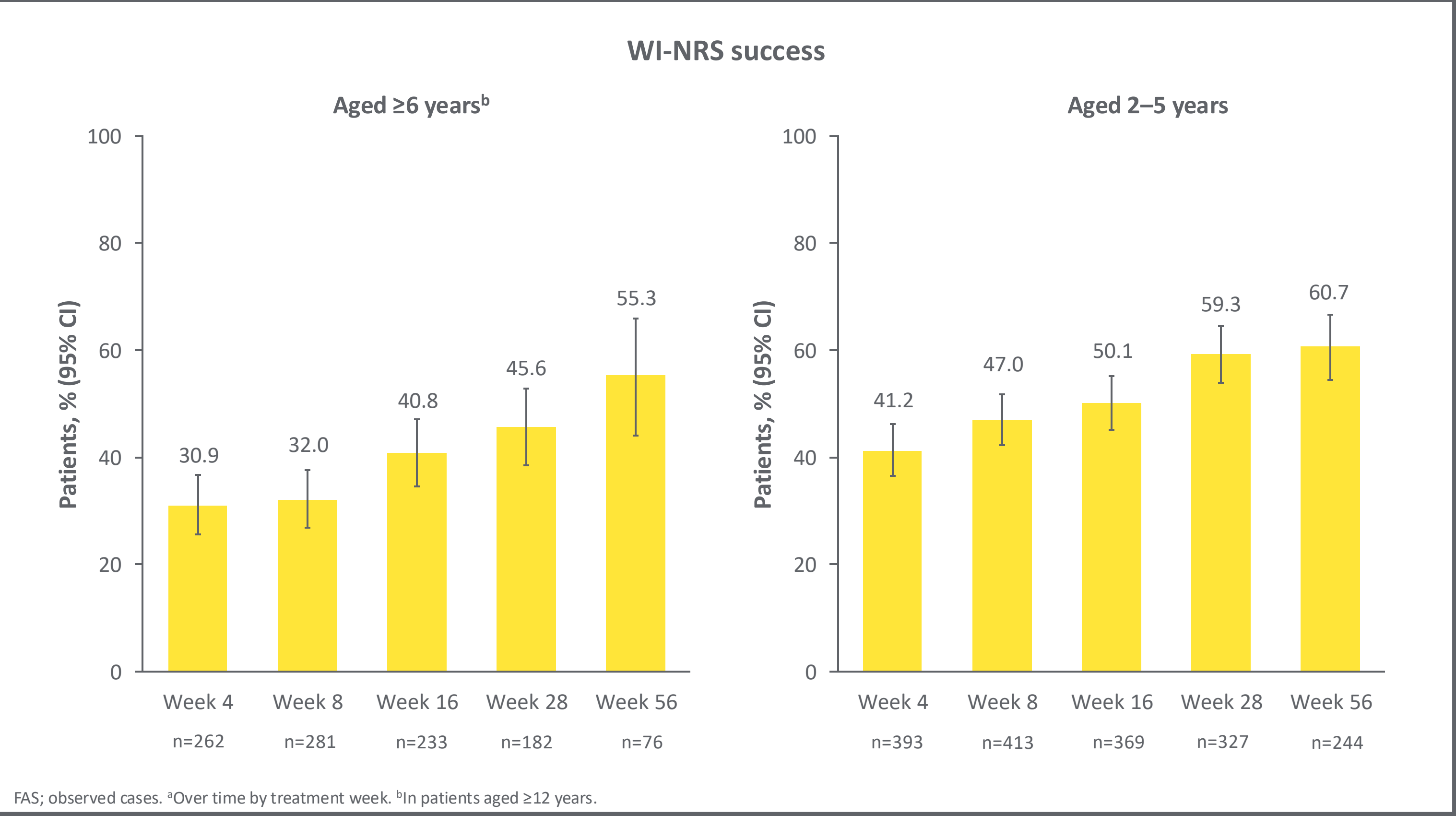
RESULTS

- There were 658 patients from INTEGRUMENT-1/2 and 562 patients from INTEGRUMENT-PED who entered the INTEGRUMENT-OLE study
 - Patient demographics and baseline clinical characteristics were balanced among those who continued treatment with roflumilast cream and those who received vehicle in the parent study and switched to roflumilast cream in the OLE study^{9,10}
- Roflumilast cream 0.15%/0.05% was well tolerated, as previously reported^{8–11}
 - Treatment-related AEs were reported for 4.7%⁹ and 2.5% of patients who entered from the INTEGRUMENT-1/2 and INTEGRUMENT-PED trials, respectively
 - Application-site pain was reported as an AE for 0.5% of patients from INTEGRUMENT-1/2⁹ and 0.7% of patients from INTEGRUMENT-PED
- Improvements in AD observed in the parent trials were maintained or continued to improve throughout the end of the OLE study
 - vIGA-AD 0/1 was achieved by 55.7% and 63.1% of patients from INTEGRUMENT-1/2 and INTEGRUMENT-PED, respectively
 - WI-NRS 0/1 was achieved by 47.1% and 40.7% of patients, respectively
- Mean BSA decreased from baseline of each parent study through the end of the OLE
 - Patients from INTEGRUMENT-1/2: 14.8% at baseline to 3.7%
 - Patients from INTEGRUMENT-PED: 22.3% at baseline to 4.9%
- Patients who achieved vIGA-AD 0 and switched to BIW application maintained a median duration of ‘disease control’ (K-M estimates) of ≥238 days (34 weeks)

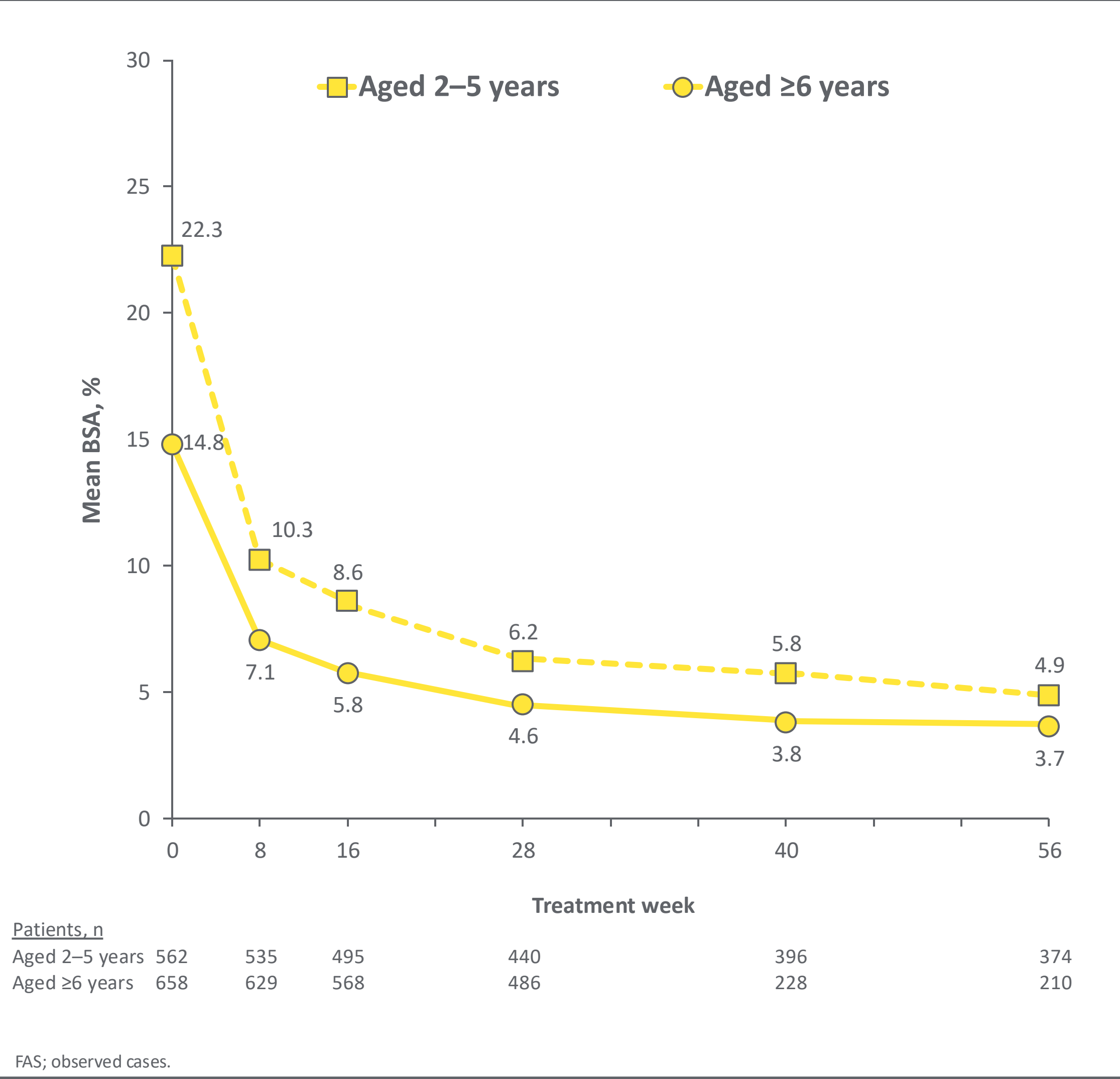
Durable Improvements in AD Outcomes^a



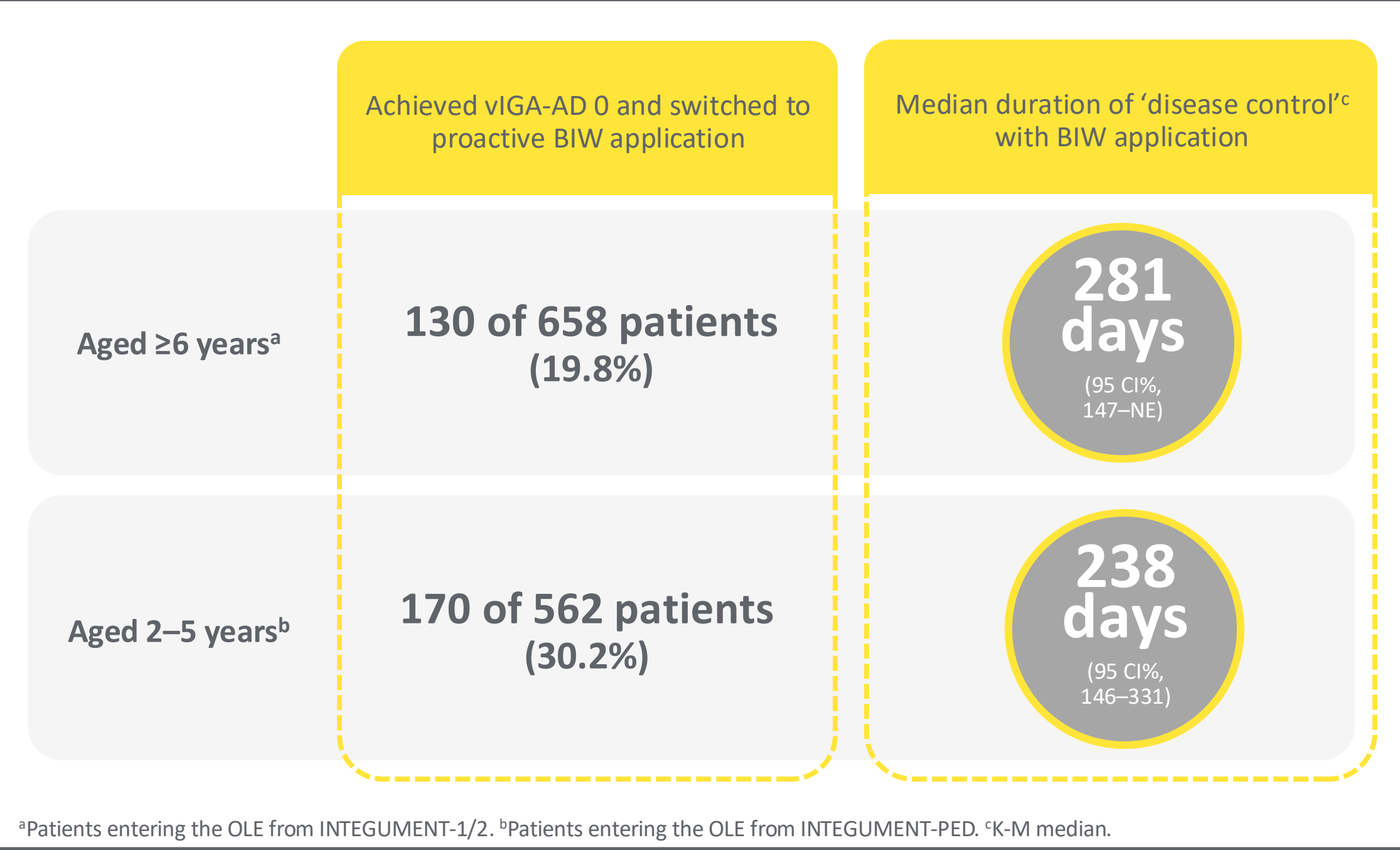
Durable Improvement in Itch Symptoms^a



BSA Over Time



‘Disease Control’ With Proactive BIW Application



CONCLUSIONS

- Roflumilast cream 0.15% and 0.05% decreased signs and symptoms of AD and maintained improvements through up to 56 weeks of treatment in patients aged ≥2 years
 - In addition to durable improvements in vIGA-AD and itch symptoms (WI-NRS), BSA decreased after 4 weeks of treatment in parent trials, and was maintained or improved further over 52 weeks of treatment in the OLE
- Patients who achieved clear skin (vIGA-AD 0) with QD application and transitioned to proactive BIW application were able to maintain ‘disease control’ (ie, vIGA-AD 0/1 and adequate control of signs and symptoms)
- Overall, these results indicate that roflumilast cream is well tolerated and an appropriate alternative to topical therapies that do not offer long-term disease control (eg, TCS or calcineurin inhibitors) for patients with AD