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| **Baseline Characteristics and Oral Corticosteroid Reduction in Severe Asthma** |
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| **Introduction/Aim:** We assessed the association between baseline disease characteristics and OCS elimination in patients with OCS-dependent severe asthma (VENTURE; NCT02528214).**Methods:** Patients received dupilumab 300mg q2w or placebo for 24 weeks (w); those who eliminated OCS at W24 were stratified by baseline pre-bronchodilator (BD) percent predicted (pp) FEV1 </≥60% or post-BD FEV1 ≤/>median (1.78L) and odds ratios (OR) were calculated for achieving OCS elimination (W24).**Results:** In patients with baseline pre-BD ppFEV1 <60%/≥60%, OR for dupilumab vs placebo were 6.8/1.3 (*Pint*=0.03). In patients with baseline post-BD FEV1 ≤median/>median, OR were 6.1/1.8 (*Pint*=0.08). In those with pre-BD ppFEV1 ≥60% or post-BD FEV1 >median, more placebo patients achieved OCS elimination.**Conclusion:** Dupilumab versus placebo showed strong statistically significant association with achieving OCS elimination at W24 in patients with OCS-dependent severe asthma and pre-BD ppFEV1 <60% or post-BD FEV1 ≤median at baseline. Moderate associations (non-significant) were observed in patients with baseline pre-BD ppFEV1 ≥60% or post-BD FEV1 above median at baseline.**Grant Support:** \*Presenting on behalf of authors. Data first presented at the American College of Allergy, Asthma & Immunology (ACAAI) annual scientific meeting; Anaheim, CA, USA; November 9-13, 2023. Research sponsored by Sanofi and Pharmaceuticals, Inc. ClinicalTrials.gov Identifier: NCT02528214. Medical writing/editorial assistance was provided by Orthis Saha, PhD of Excerpta Medica, and was funded by Sanofi and Regeneron Pharmaceuticals, Inc., according to the [Good](https://www.acpjournals.org/doi/10.7326/M15-0288) [Publication Practice guideline.](https://www.acpjournals.org/doi/10.7326/M15-0288)**Key words:** Asthma, oral corticosteroids, baseline characteristics, dupilumab |

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