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# Malizumab Efficacy and Safety in Adult Patients with Wheat-Dependent Exercise-Induced Anaphylaxis: Reduction in Basophil Activation in Vitro and Allergic Reaction to Wheat

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## Abstract

**Background:** Anaphylactic shock occurs frequently in patients with wheat-dependent exercise-induced

and safety of long-term omalizumab treatment in adult patients with WDEIA [1, 2].

**Methods:** Twenty adult patients with WDEIA were enrolled in this phase 2 multicenter single-arm trial (UMIN 000019250). All patients received 150-600 mg of omalizumab subcutaneously, and assessments (basophil activation and blood examination) were performed at regular intervals during the administration (0-48 weeks) and observation periods (48–68 weeks). The primary endpoint was the proportion of patients who achieved a basophil activation rate of less than 10% with fractionated wheat preparations, and the secondary endpoint was the proportion of patients who had no allergic reactions after consuming wheat products [3].

**Results:** During treatment with omalizumab, more than 80% of patients had a basophil activation rate of less than 10% against all fractionated wheat preparations, and 68.8% of patients who met the primary endpoint had no allergic reaction. During the observation period, the proportion of patients with basophil activation rates less than 10% gradually decreased, while the proportion of patients with positive allergic reactions increased gradually and reached a maximum of 46.7%. During the study, no severe adverse events were observed [4].

**Conclusions:**

by basophil activation rate with wheat allergens and allergic reactions after removing wheat restrictions. This, however,

[illegible]

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