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GUANFACINE XR (GXR) FOR CHILDREN AND ADOLESCENTS WITH ATTENTION-DEFICIT/HYPERACTIVITY DISORDER (ADHD): PHASE 3, BLIND, MULTICENTER, PLACEBO- AND ACTIVE-REFERENCE STUDY

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Introduction: GXR, a selective a2A-adrenergic agonist, is a non-stimulant treatment for ADHD (approved in the USA for children and adolescents a

Objectives: To assess the efficacy (symptoms and function) and safety of dose-optimized GXR compared with placebo in children and adolescents

Aims: To evaluate the efficacy (symptom and function) and safety of GXR for the treatment of ADHD. An atomoxetine (ATX) arm was included to pr placebo (NCT01244490).

**Methods:** Patients (6–17 years) were randomly assigned at baseline to dose-optimized GXR (6–12 years, 1–4 mg/day; 13–17 years, 1–7 mg/day), *I* for 4 or 7 weeks. The primary efficacy measure is change from baseline in ADHD-Rating Scale-version IV (ADHD-RS-IV). Key secondary measures Impressions-Improvement (CGI-I) and the Weiss Functional Impairment Rating Scale-Parent (WFIRS-P). Safety assessments included treatment-en (TEAEs), electrocardiograms, and vital signs.

**Results:** Of 338 patients randomized, 272 (80.5%) completed the study. Placebo-adjusted differences in least squares (LS) mean in ADHD-RS-IV tr versus placebo for CGI-I, placebo-adjusted differences in LS mean change from baseline in WFIRS-P score (family and learning and school domain: most common TEAEs for GXR were somnolence, headache, and fatigue; 8 (7%) TEAEs were severe.

Conclusions: GXR was effective and well tolerated in children and adolescents with ADHD.

|  | GXR                  | ΑΤΧ                  |
|--|----------------------|----------------------|
| Placebo-adjusted difference in LS mean     | -8.9 (-11.9, -5.8,   | -3.8 (-6.8, -0.7,    |
| change from baseline in ADHD-RS-IV total   | p<0.001; 0.76)       | p<0.05; 0.32)        |
| score (95% Cl, p-value; effect size)       |                      |                      |
| Difference in improvement from placebo     | 23.7% (11.1, 36.4;   | 12.1% (−0.9, 25.1;   |
| for CGI-I (95% CI, p-value)                | p<0.001)             | p<0.05)              |
| Placebo-adjusted difference in LS mean     | -0.22 (-0.36, -0.08, | -0.16 (-0.31, -0.02, |
| change from baseline in WFIRS-P;           | p<0.01; 0.42)        | p<0.05; 0.32)        |
| learning and school domain score (95%Cl,   |                      |                      |
| p-value; effect size)                      |                      |                      |
| Placebo-adjusted difference in LS mean     | -0.21 (-0.36, -0.06, | -0.09 (-0.24, 0.06,  |
| change from baseline in WFIRS-P; family    | p<0.01; 0.38)        | p=0.242; 0.16)       |
| domain score (95%Cl, p-value; effect size) |                      |                      |