

Effects of Solriamfetol on Cognition in Patients With Excessive Daytime Sleepiness Associated with Narcolepsy in the Real-World SURWEY Study

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Key Question

- Does solriamfetol improve impaired cognition in patients with excessive daytime sleepiness associated with narcolepsy in a real-world setting?

Conclusions

- In this retrospective, real-world study, cognitive performance was assessed in patients with EDS associated with narcolepsy
- At baseline, patients reported overall cognitive impairment, which was substantially improved following 3 months of solriamfetol treatment
- At baseline, objective assessments revealed selective impairment in alertness and processing speed; substantial improvements in these domains were observed following treatment with solriamfetol
- Improvement in cognitive performance was not associated with reduction in EDS
- These results indicate that solriamfetol has the potential to improve cognitive function in patients with EDS associated with narcolepsy

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Disclosures

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Introduction

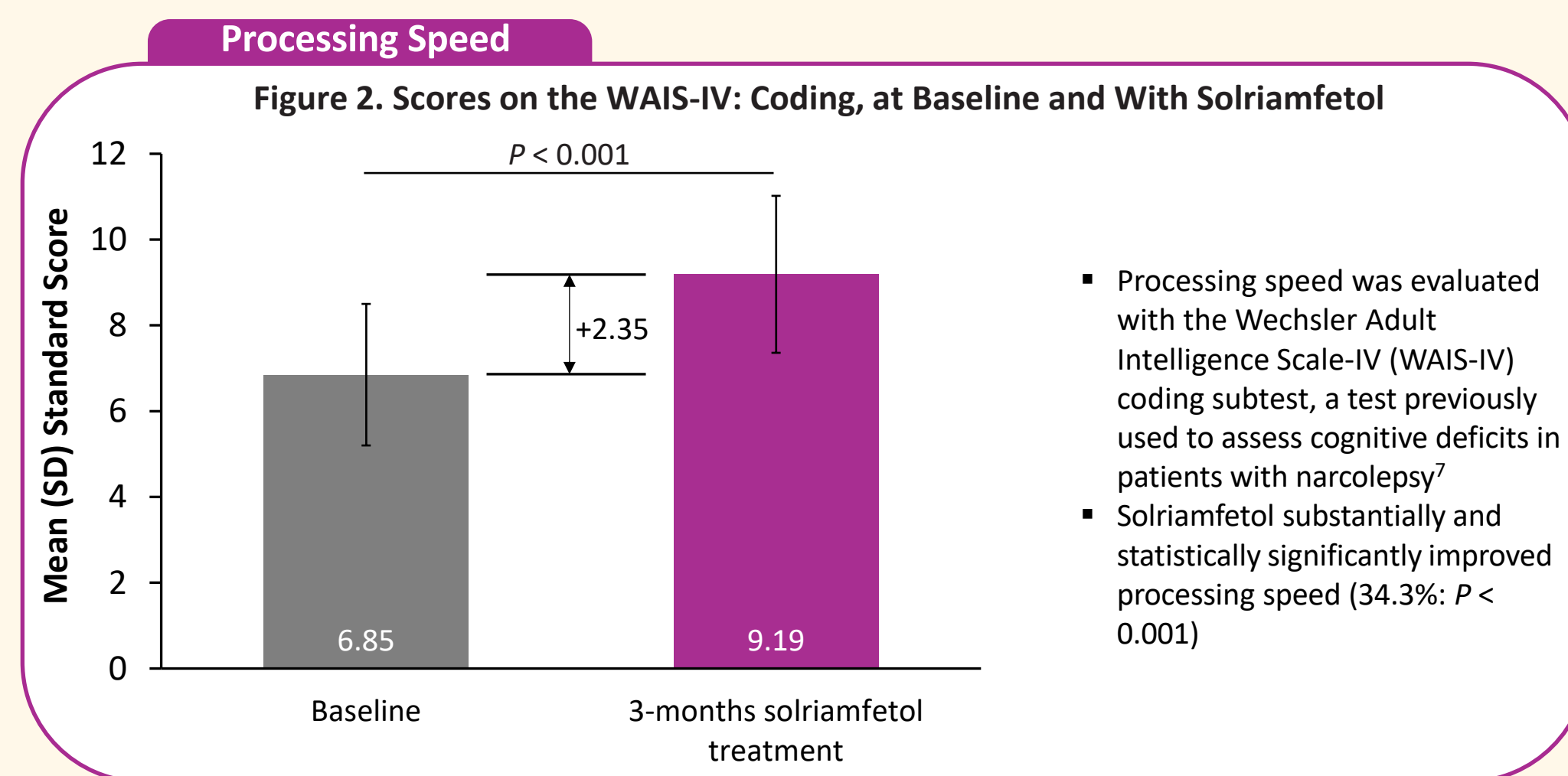
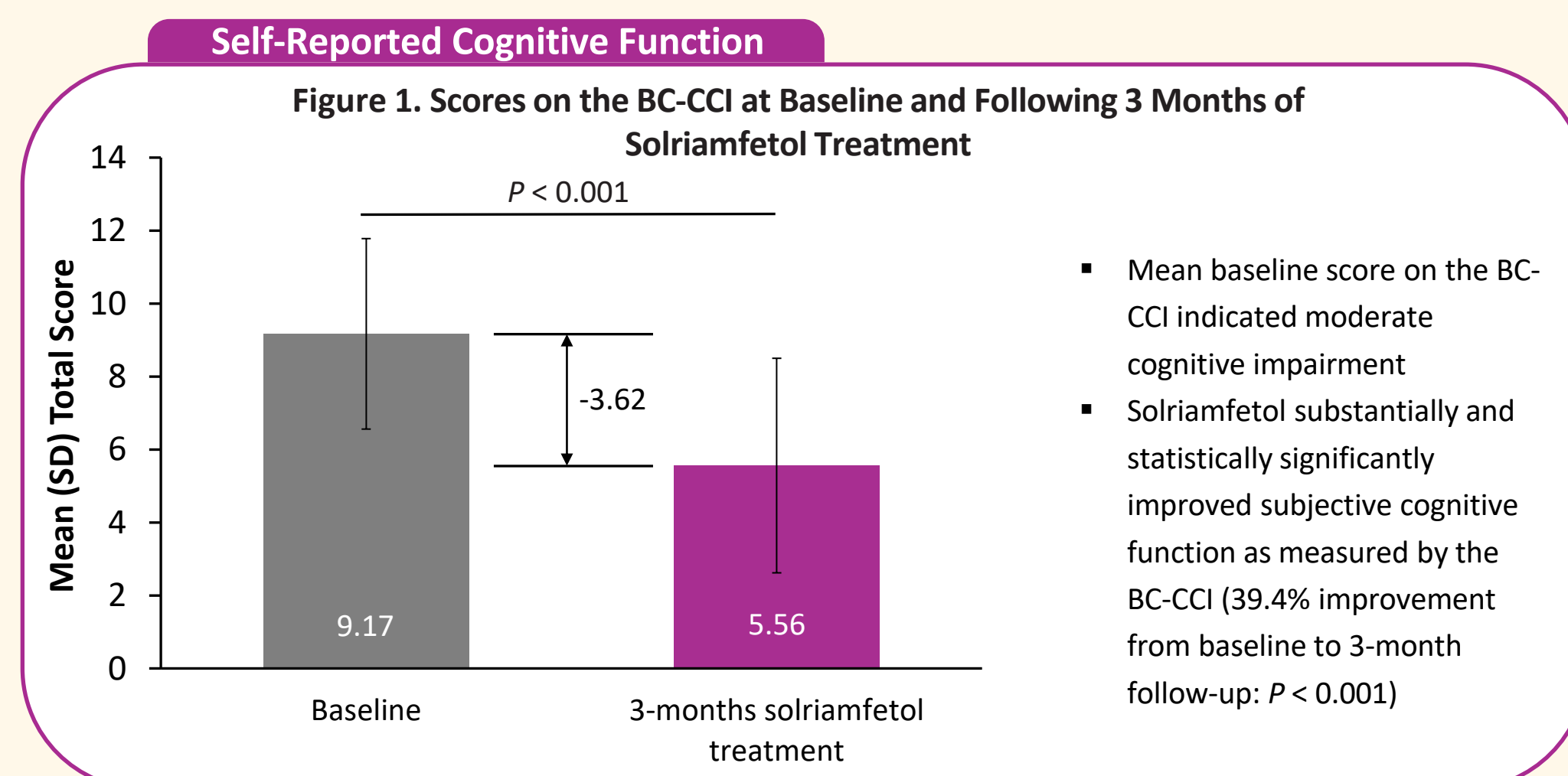
- Narcolepsy is a chronic sleep disorder characterized by excessive daytime sleepiness (EDS)¹
- Brain fog and difficulty concentrating are common complaints among patients and significantly impact their quality of life²
- Patients often exhibit deficits in processing speed and attention, core cognitive functions³
- Solriamfetol (Sunosi®) is a dopamine-norepinephrine reuptake inhibitor with agonistic properties at the trace amine-associated receptor 1 (TAAR1) and serotonin 1A (5HT1_A) receptor¹ approved for treatment of EDS associated with narcolepsy or obstructive sleep apnea (OSA)^{4,5}
- Solriamfetol improved cognitive performance in a clinical study of patients with OSA and EDS with cognitive impairment⁶
- Here we present cognitive outcomes of patients with narcolepsy and EDS treated with solriamfetol in a real-world setting

Key Findings

Patient Population

Patients	52
Age, mean ± SD	36.4±12.9
Sex	
Male, n (%)	29 (55.8)
Female, n (%)	23 (44.2)
ESS score, mean ± SD	17.4±2.9

Efficacy



Methods & Study Design

- SUNosi Real World Experience Study (SURWEY) was a real-world, retrospective chart review among physicians in Germany of patients prescribed solriamfetol for EDS associated with narcolepsy type 1 and 2
- The present analysis is of a subgroup of 52 patients with narcolepsy who underwent cognitive assessments (Table 1) prior to initiating solriamfetol and 3 months following
- Results are pooled across dosages, and most patients received less than 150 mg/day, the maximum recommended dose

Assessment	Task	Domain
British Columbia Cognitive Complaints Inventory (BC-CCI)	Rate level of impairment on 6 items including memory, concentration, and expressing thoughts	Cognitive impairment
Test of Attentional Performance (TAP): Alertness, without warning	Push button in response to displayed signal	Sustained alertness
Test of Attentional Performance: Alertness, with warning	Push button in response to displayed signal preceded by warning tone	Acute alertness
Wechsler Adult Intelligence Scale-IV (WAIS-IV): Coding subtest	Variation of the Digit Symbol Substitution Test; match symbols to numbers based on key	Processing speed
Regensburger Word Fluency Test (RWT): "S-words"	Write down as many words starting with 's' as possible in 1 minute	Verbal fluency
Regensburger Word Fluency Test (RWT): "Animals"	Write down as many animal names as possible within 1 minute	Verbal fluency
Wechsler Memory Scale (WMS): Visual Reproduction I	Reproduce displayed images from memory	Visual memory
Wechsler Memory Scale (WMS): Visual Reproduction II	Reproduce displayed images from memory, following a delay	Visual memory

