

## **ONLINE SUPPLEMENT**

### **Registry on the treatment of central and complex sleep-disordered breathing with adaptive servo-ventilation (READ-ASV): study protocol and cohort profile**

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## **Study Centers and Investigators**

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**Figure S1.** Proportion of patients (overall and by indication subgroup) who had a Pittsburgh Sleep Quality Index (PSQI) score >5 (based on 374 patients with available data). CSA, central sleep apnoea; CSA-CVD, central sleep apnoea in cardiovascular disease; OSA, obstructive sleep apnoea; TE-CSA, treatment-emergent or persistent central sleep apnoea. The circles at the bottom of the columns indicate the size of the respective subgroup (n=number).

**Figure S2.** EuroQol-5-Dimension Scale (EQ-5D) index (**A**) and visual analogue scale (VAS) scores (**B**), overall and by indication subgroup. Higher VAS scores indicate better quality of life.

**Table S1.** Polygraphy/polysomnography findings for the study population by patient sex

Parameter	Females	Males	p-value
AHI, /h	48±24 (99)	49±22 (595)	0.271
CAI, /h	11±16 (78)	14±14 (498)	<0.001
OAI, /h	16±16 (88)	15±16 (503)	0.482
MAI, /h	7±10 (51)	9±11 (383)	0.098
HI, /h	21±15 (98)	19±14 (565)	0.075

Values are mean ± standard deviation (number of patients with data).

AHI, apnoea-hypopnoea index; CAI, central apnoea index; HI, hypopnoea index; MAI, mixed apnoea index; OAI, obstructive apnoea index.

**Table S2.** Quality of life and symptom burden for the study population by patient sex

Parameter	Females	Males	p-value
FOSQ score	15.3±3.8 (102)	16.9±2.8 (654)	<0.001
ESS score	9.8±6.1 (98)	8.7±4.8 (622)	0.138
PSQI score	10.9±4.0 (40)	8.1±4.0 (293)	<0.001
EQ-5D index	0.60±0.33 (66)	0.81±0.22 (472)	<0.001
EQ-5D health today, VAS score	53.8±19.2 (102)	63.8±19.0 (638)	<0.001
FOSQ score <17.9 or ESS score >10, n (%)	103 (74%)	633 (60%)	0.008
Sleep onset latency	36±35 (48)	25±33 (315)	0.006

Values are mean ± standard deviation (number of patients with data), or number of patients (%).

EQ-5D, EuroQol-5-Dimension Scale; ESS, Epworth Sleepiness Scale; FOSQ, Functional Outcomes of Sleep Questionnaire; PSQI, Pittsburg Sleep Quality Index; VAS, visual analogue scale.