

Characteristics and outcomes of patients with pulmonary arterial hypertension and self-reported mental health comorbidities in SPHERE (SelexiPag: tHe usErs dRug rEgistry)

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Objective

 To describe the treatment and outcomes of patients with pulmonary arterial hypertension receiving selexipag with self-reported mental health comorbidities of anxiety, depression, and bipolar disorder from the SPHERE registry

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SelexiPag: tHe usErs dRug rEgistry (SPHERE)



N=759 Adults with PAH

- US, multicenter, prospective, real-world, observational selexipag drug registry
- Followed for up to 18 months
- NCT03278002

Data collected at routine clinical visits and analysis:

- Patient demographics
- Medical history
- Disease characteristics
- WHO functional class
- REVEAL 2.0
- Prior PAH therapy (past 12 months)

- Selexipag dose regimens and titration
- Selexipag discontinuation and reason
- Time to first hospitalization
- Overall survival
- Safety

Patients with PAH in the SPHERE registry who reported mental health comorbidities:

Comorbidities^a included depression, anxiety, and bipolar disorder



A lower percentage of patients were receiving double therapy prior to selexipag initiation



Started selexipag later in their disease course and reached similar maintenance doses

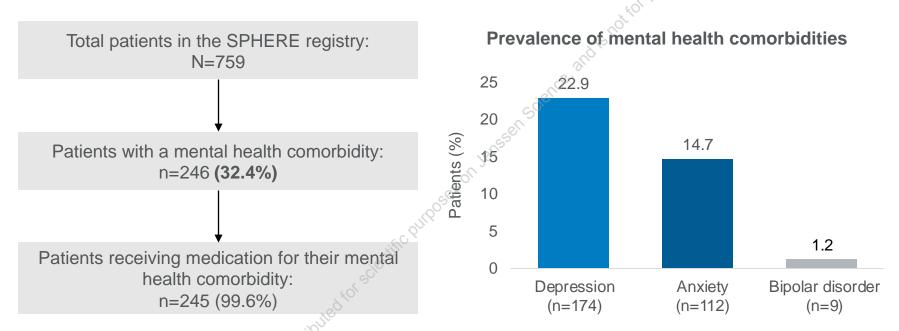
Showed medication persistence and favorable outcomes with selexipag:

- Time to first all-cause hospitalization
- Overall survival

Discontinuation due to AE

^aTotal reported psychiatric disorders from patients with PAH was n=291; the specific mental health diagnoses listed were chosen for having >1%. AE, adverse event; ERA, endothelin receptor antagonist; PAH, pulmonary arterial hypertension; PDE5i, phosphodiesterase-5 inhibitor; SPHERE, SelexiPag: the usErs dRug rEgistry.

A third of patients with PAH in SPHERE selfreported having a mental health comorbidity



SPHERE was an observational study, subject to the inherent limitation of missing data. History of mental health disorders was self-reported.

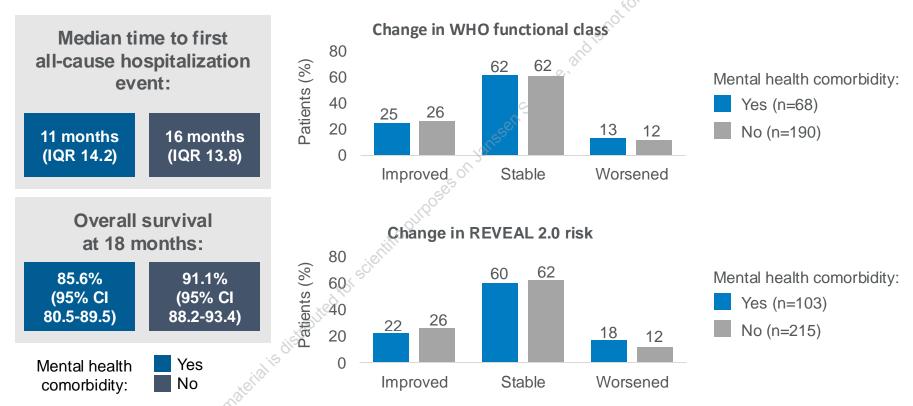
Patients with a mental health comorbidity were less likely to receive an ERA-PDE5i combination and had a delay in receiving selexipag

SPHERE registry (N=759)	Mental health comorbidity (n=246)	No mental health comorbidity (n=513)
PAH therapy received at enrollment prior to selexipag initiation, n (%)	cience,	
Monotherapy	82 (33)	142 (28)
Dual therapy	123 (50)	298 (58)
Triple therapy	29 (12)	44 (9)
Prior ERA-PDE5i combination received, n (%)	83 (34)	231 (45)
Median time from PAH diagnosis to selexipag initiation, years	3.3	2.6
Median duration of selexipag titration, weeks	8.1	8.1
Median duration of selexipag prior to enrollment, months	2.0	1.9
Median individualized selexipag dose (BID), µg	1200	1200
Selexipag discontinuation rate due to AE unrelated to PAH, %	9.3	10.5

Median duration of selexipag titration, median individualized dose of selexipag, and medication discontinuation rates due to adverse events (unrelated to PAH) were similar in both groups

AE, adverse event; BID, twice daily; ERA, endothelin receptor antagonist; PAH, pulmonary arterial hypertension; PDE5i, phosphodiesterase-5 inhibitor; SPHERE, SelexiPaq: tHe usErs dRug rEgistry.

Clinical outcomes among those with and without a self-reported mental health comorbidity



IQR, interquartile range; PAH, pulmonary arterial hypertension; REVEAL, Registry to Evaluate Early and Long-Term PAH Disease Management; WHO, World Health Organization.

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 Time to first all-cause hospitalization Overall survival

Discontinuation due to AE

This analysis should reassure healthcare providers that patients with mental health comorbidities can achieve favorable outcomes with selexipag

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