

Medication non-adherence in patients with PAH is associated with more ED visits, hospitalizations, and worse HRQoL

Rationale

- •PAH is associated with significant morbidity and mortality
- •We sought to determine: relationship between non-adherence and clinical outcomes
 - •predictors of medication non-adherence

Methods

- •Data: Pulmonary Hypertension Association Registry (a national registry of patients with PAH and CTEPH)
- •Enrollment questionnaires included selfreported non-adherence, demographic factors, functional status
- Predictors modeled using generalized estimating equations (GEEs) assuming binary distribution
- •Outcomes modeled using GEEs with Poisson distribution

Medication Non-Adherence and Health-Related Outcomes in Patients with Pulmonary Arterial Hypertension: The Pulmonary Hypertension Association Registry E. W. Robbins, K. V. Bradley, G. L. Baird, D. B. Badesch, C. D. Burger, A. M. Chybowski, T. De Marco, A. Hemnes, M. R. Lammi, S. C. Mathai, J. W. Mcconnell, L. Melendres-Groves, F. Raza, J. R. Runo, J. S. Sager, O. A. Shlobin, T. Thenappan, R. T. Zamanian, C. E. Ventetuolo



Results: Outcomes			
	Non- Adherence	Adherence	p Values
Overall Rate (%)	6.1%		<0.001
ED Visits (#)	0.9	0.6	<0.001
Hospital Visits (#)	1.7	1.5	0.03
Hospital Stays (#)	3.4	2.2	0.006
SF-12 Score	46.7	49.3	0.002
EmPHasis-10 Score	22.9	20.8	0.02

Results: Pre

- Insurance
- Education
- Poverty
- Unpartnered
- Male sex

Conclusions

- stays
- lives

ed	ictors

	OR (95% CI)	p Values
	2.1 (1.5—2.9)	<0.001
	1.7 (1.1—2.9)	0.004
	1.7 (1.2—2.3)	0.005
d	1.5 (1.1—1.9)	0.009
	1.4 (1.0-1.9)	0.02

 Participants who were non-adherent had 64.0% more ED visits, 18.7% more hospital visits, and 60.0% more hospital

•Non-adherence was associated with worse self-reported physical functioning and more limitations in patients' daily