

## Journal of Health Economics and Outcomes Research

## Online Supplementary Material

Assessing Upfront Treatment Patterns for Newly Initiated Patients with Pulmonary Arterial Hypertension in the United States. *JHEOR*. 2025;12(1):213-221. doi:10.36469/jheor.2025.138006

## Table S1: Quan-Charlson Comorbidity Index

## Table S2: Reasons for Study Discontinuation

This supplementary material has been provided by the authors to give readers additional information about their work.



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Table S1. Quan-Charlson Comorbidity Index					
Comorbidities	ICD-9-CM Codes	ICD-10-CM Codes	Quan 2011 Weight		

	Quan 2011 Weight	
I21.%, I22.%, I25.2%	0	
re 398.91, 402.01, 402.11, 402.91, 404.01, I09.9%, I11.0%, I13.0%, I13.2%, I25.5%, 404.03, 404.11, 404.13, 404.91, 404.93, I42.0%, I42.5%-I42.9%, I43.%, I50.%, 425.4%-425.9%, 428.% P29.0%		
, I70.%, I71.%, I73.1%, I73.8%, I73.9%, I77.1%, I79.0%, I79.2%, K55.1%, K55.8%, K55.9%, V43.4%, Z95.8%, Z95.9%		
G45.%, G46.%, H34.0%, I60.%-I69.%	0	
F00.%-F03.%, F05.1, G30.%, G31.1%	2	
I27.8%, I27.9%, J40.%-J47.%, J60.%-J67.%, J68.4%, J70.1%, J70.3%	1	
M05.%, M06.%, M31.5%, M32.%-M34.%, M35.1%, M35.3%, M36.0%	1	
K25.%-K28.%	0	
, B18.%, K70.0%-K70.3%, K70.9%, K71.3%-K71.5%, K71.7%, K73.%, K74.%, K76.0%, K76.2%-K76.4%, K76.8%, K76.9%, V42.7%, Z94.4%	2	
9% E10.0%, E10.1%, E10.6%, E10.8%, E10.9%, E11.0%, E11.1%, E11.6%, E11.8%, E11.9%, E12.0%, E12.1%, E12.6%, E12.8%, E12.9%, E13.0%, E13.1%, E13.6%, E13.8%, E13.9%, E14.0%, E14.1%, E14.6%, E14.8%, E14.9%		
G04.1%, G11.4%, G80.1%, G80.2%, G81.%, G82.%, G83.0%-G83.4%, G83.9%	2	
. I12.0%, I13.1%, N03.2%-N03.7%, N05.2%-N05.7%, N18.%, N19.%, N25.0%, V42.0%, V45.1%, V56.%, Z49.0%-Z49.2%, Z94.0%, Z99.2%	1	
E10.2%-E10.5%, E10.7%, E11.2%-E11.5%, E11.7%, E12.2%-E12.5%, E12.7%, E13.2%-E13.5%, E13.7%, E14.2%-E14.5%, E14.7%	1	
C00.%-C26.%, C30.%-C34.%, C37.%-C41.%, C43.%, C45.%-C58.%, C60.%-C76.%, C81.%-C85.%, C88.%, C90.%-C97.%	2	
rate or severe liver disease 456.0%-456.2%, 572.2%-572.8% I85.0%, I85.9%, I86.4%, I98.2%, K70.4%, K71.1%, K72.1%, K72.9%, K76.5%, K76.6%, K76.7%		
C77.%-C80.%	6	
B20.%-B22.%, B24.%	4	
,	, 109.9%, 111.0%, 113.0%, 113.2%, 125.5%, 142.0%, 142.5%-142.9%, 143.%, 150.%, P29.0%  170.%, 171.%, 173.1%, 173.8%, 173.9%, 177.1%, 179.0%, 179.2%, K55.1%, K55.8%, K55.9%, V43.4%, Z95.8%, Z95.9%  G45.%, G46.%, H34.0%, I60.%-I69.%  F00.%-F03.%, F05.1, G30.%, G31.1%  127.8%, 127.9%, J40.%-J47.%, J60.%-J67.%, J68.4%, J70.1%, J70.3%  M05.%, M06.%, M31.5%, M32.%-M34.%, M35.1%, M35.3%, M36.0%  K25.%-K28.%  B18.%, K70.0%-K70.3%, K70.9%, K71.3%-K71.5%, K71.7%, K73.%, K74.%, K76.0%, K76.2%-K76.4%, K76.8%, K76.9%, V42.7%, Z94.4%  E10.0%, E10.1%, E10.6%, E10.8%, E10.9%, E11.0%, E11.1%, E11.6%, E12.6%, E12.8%, E12.9%, E13.0%, E13.1%, E13.6%, E13.8%, E13.9%, E14.0%, E14.1%, E14.6%, E14.8%, E14.9%  G04.1%, G11.4%, G80.1%, G80.2%, G81.%, G82.%, G83.0%-G83.4%, G83.9%  , 112.0%, 113.1%, N03.2%-N03.7%, N05.2%-N05.7%, N18.%, N19.%, N25.0%, V42.0%, V45.1%, V56.%, Z49.0%-Z49.2%, Z94.0%, Z99.2%  E10.2%-E10.5%, E10.7%, E11.2%-E11.5%, E11.7%, E12.2%-E12.5%, E12.7%, E13.2%-E13.5%, E13.7%, E14.2%-E14.5%, E14.7%  C00.%-C26.%, C30.%-C34.%, C37.%-C41.%, C43.%, C45.%-C58.%, C80.%-C76.%, C81.%-C85.%, C88.%, C90.%-C97.%  185.0%, 185.9%, 186.4%, 198.2%, K70.4%, K71.1%, K72.1%, K72.9%, K76.5%, K76.6%, K76.6%, K76.7%  C77.%-C80.%	

The table above outlines the updated QCI index (Quan H, et al., Am J Epidemiol. 2011;173(6):676-682.). To quantify comorbidity, the QCI score is computed by adding the weights that are assigned to the specific diagnoses. Each diagnosis is only counted once. The minimum possible score is 0 and the maximum possible score is 24. The algorithms for defining comorbidities in ICD-9-CM and ICD-10-CM administrative data were coded using the approach described in Quan H, et al. Med Care. 2005;43(11):1130-1139.

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Table S2. Re	easons for	Study	7 Discon	tinuation
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	Initial Monotherapy (N = 2044)	Initial Dual Therapy (N = 824)
Data cutoff or plan disenrollment	643 (31.5)	261 (31.7)
Discontinuation of ERA	25 (1.2)	158 (19.2)
Discontinuation of PDE5i	956 (46.8)	227 (27.6)
Initiation of other PAH medication	420 (20.6)	178 (21.6)

Abbreviations: ERA, endothelin receptor antagonist; PAH, pulmonary arterial hypertension; PDE5i, phosphodiesterase type 5 inhibitor All values are presented as n (%).