

The Impact of Chronic Comorbidities on Outcomes in Acute Exacerbations of Idiopathic Pulmonary Fibrosis

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Table S1. Diagnostic codes used to identify chronic medical conditions.

Hypertension	H35031, H35032, H35033, H35039, I110, I119, I120, I129, I130, I1310, I1311, I132, I150, I151, I152, I158, I159, I161, I674, O10111, O10112, O10113, O10119, O1012, O1013, O10211, O10212, O10213, O10219, O1022, O1023, O10311, O10312, O10313, O10319, O1032, O1033, O10411, O10412, O10413, O10419, O1042, O1043, O10911, O10912, O10913, O10919, O1092, O1093, O111, O112, O113, O114, O115, O119, O161, O162, O163, O164, O165, O169, I10, I160, I169, O10011, O10012, O10013, O10019, O1002, O1003
Diabetes	E08XXX – E13XXX O24011, O24012, O24013, O24019, O2402, O2403, O24111, O24112, O24113, O24119, O2412, O2413, O24311, O24312, O24313, O24319, O2432, O2433, O24410, O24414, O24415, O24419, O24420, O24424, O24425, O24429, O24430, O24434, O24435, O24439, O24811, O24812, O24813, O24819, O2482, O2483, O24911, O24912, O24913, O24919, O2492, O2493
Obesity	E6601, E6609, E661, E662, E668, E669, O99210, O99211, O99212, O99213, O99214, O99215, R939, Z6830, Z6831, Z6832, Z6833, Z6834, Z6835, Z6836, Z6837, Z6838, Z6839, Z6841, Z6842, Z6843, Z6844, Z6845, Z6854
Hypothyroidism	E000, E001, E002, E009, E010, E011, E012, E018, E02, E030, E031, E032, E033, E034, E035, E038, E039, E890
Alcohol and drug abuse	F10XXX – F19XXX G621, I426, K2920, K2921, K7010, K7011, O99310, O99311, O99312, O99313, O99314, O99315, O99320, O99321, O99322, O99323, O99324, O99325, O99320, O99321, O99322, O99323, O99324, O99325
Chronic kidney disease	I120, I1311, I132, N184, N185, N186, Z4901, Z4902, Z4931, Z4932, Z9115, Z940, Z992, N183, N1830, N1831, N1832, N189, N19
Cardiovascular disease	I20XX – I25XX I60XX – I69XX I70XX – I75XX P91821, P91822, P91823, P91829, G450, G451, G452, G453, G454, G458, G459, G460, G461, G462, G463, G464, G465, G466, G467, G468, H3400, H3401, H3402, H3403, H3410, H3411, H3412, H3413, H34211, H34212, H34213, H34219, H34231, H34232, H34233, H34239
Malignancy	C00XXX – C80XXX C7AXX D469, E3121, E3122, E3123

Table S2. Adjusted odds ratio (aOR) and Incidence rate ratios (IRR) of the factors used to adjust for analyzing impact of chronic comorbidities on in-hospital mortality and hospital LOS.

Variable (Details on comparison group)	In-hospital mortality			Hospital LOS		
	aOR	95% CI	p-value	IRR	95% CI	p-value
Age (for 10-year increase)	1.24	1.09–1.40	0.00	0.91	0.87–0.95	< 0.001
Gender (Male)	0.67	0.55–0.82	< 0.001	1.02	0.96–1.10	0.48
Race (White)						
Black	0.91	0.63–1.31	0.61	1.02	0.90–1.16	0.76
Asian	0.59	0.42–0.84	0.00	1.05	0.94–1.16	0.35
Other	1.29	0.93–1.80	0.13	1.06	0.93–1.20	0.41
Income status (Very low-income group)						
Low-income group	0.72	0.54–0.96	0.02	0.98	0.89–1.08	0.74
Moderate-income group	0.60	0.45–0.80	< 0.001	1.08	0.98–1.18	0.11
High-income group	1.19	0.92–1.54	0.18	1.08	0.98–1.19	0.13
Insurance status (Medicare)						
Medicaid	2.54	1.56–4.15	< 0.001	0.99	0.83–1.99	0.94
Private	1.90	1.48–2.45	< 0.001	1.10	1.00–1.21	0.06
Other/self pay	1.98	1.22–3.20	0.00	0.90	0.74–1.10	0.30
Calendar year (2016)						
Year 2017	0.72	0.58–0.91	0.00	0.93	0.86–1.01	0.09
Year 2018	0.83	0.68–1.03	0.08	0.86	0.80–0.93	< 0.001
Number of procedures	0.98	0.96–1.01	0.19	1.10	1.09–1.11	< 0.001
Number of diagnosis codes	1.08	1.06–1.10	< 0.001	1.04	1.03–1.05	< 0.001
Academic hospital bed size (small)						
Medium bed size	0.90	0.69–1.18	0.44	1.04	0.94–1.14	0.46
Large bed size	0.88	0.69–1.12	0.30	1.15	1.05–1.25	0.00
Hospital region (Northwest)						
Midwest	0.80	0.61–1.06	0.12	0.71	0.65–0.78	< 0.001
South	0.96	0.76–1.21	0.73	0.84	0.77–0.91	< 0.001
West	0.86	0.66–1.13	0.28	0.71	0.65–0.78	< 0.001