

Supplemental online content for:

External Validation of Risk Factors for Unplanned Hospitalization in Older Adults With Advanced Cancer Receiving Chemotherapy

Mostafa R. Mohamed, MBBCh, MSc; Kah Poh Loh, MBBCh BAO, MS; Supriya G. Mohile, MD; Michael Sohn, PhD; Tracy Webb, DMSc, MS, PA-C; Megan Wells, MPH; Sule Yilmaz, PhD; Rachael Tylock, MS; Eva Culakova, PhD; Allison Magnuson, DO; Can-Lan Sun, PhD; James Bearden, MD; Judith O. Hopkins, MD; Bryan A. Faller, MD; and Heidi D. Klepin, MD, MS

J Natl Compr Canc Netw 2023;21(3):273–280.e3

eTable 1: Bivariate Analyses of Baseline Variables and Unplanned Hospitalization Within 3 Months

eTable 2: Multivariable Analysis for Risk Factors Associated With Hospitalization Including History of Falls in the Past 6 Months and Impaired Depression

eTable 1. Bivariate Analyses of Baseline Variables and Unplanned Hospitalization Within 3 Months

Variable	All Patients n (%)	No Hospitalization n (%)	Hospitalization n (%)	P Value
Total, N	369 (100)	262 (71.00)	107 (28.99)	
Sociodemographic variables				
Mean age, y	77.2	77.55	77.05	.39
Gender ^a				.27
Male	202 (54.7)	139 (53.05)	63 (59.43)	
Female	166 (45.3)	123 (46.95)	43 (40.57)	
Race ^a				.86
White	350 (95.1)	246 (93.89)	101 (95.28)	
Black	12 (3.3)	9 (3.44)	3 (2.83)	
Others ^b	6 (1.6)	7 (2.67)	2 (1.89)	
Education ^a				.26
Less than high school	53 (14.4)	33 (12.60)	20 (18.87)	
High school	125 (33.9)	93 (35.50)	32 (30.19)	
College or above	190 (51.5)	136 (51.91)	54 (50.94)	
Income ^a				.99
≤\$50,000	182 (49.3)	130 (49.62)	52 (49.06)	
>\$50,000	96 (26.0)	68 (25.95)	28 (26.42)	
Declined to answer	90 (24.4)	64 (24.43)	26 (24.53)	
Baseline clinical and laboratory variables				
Cancer type ^c				.03
Gastrointestinal	114 (30.9)	85 (32.44)	29 (27.10)	
Lung	116 (31.4)	72 (27.48)	44 (41.12)	
Genitourinary	53 (14.4)	44 (16.79)	9 (8.41)	
Others	86 (23.3)	61 (23.28)	25 (23.36)	
Number of comorbidities (mean) ^c	3.24	3.14	3.48	.10
Cancer stage				.28
III	35 (9.5)	21 (8.02)	14 (13.08)	
IV	324 (87.8)	233 (88.93)	91 (85.05)	
Other	10 (2.7)	8 (3.05)	2 (1.87)	
Creatinine clearance ^c , mL/min				.14
≥60	215 (58.2)	159 (60.69)	56 (52.34)	
<60	154 (41.8)	103 (39.31)	51 (47.66)	
Creatinine clearance ^c (mean), mL/min	68.38	68.95	66.92	.49
Albumin level ^c (mean), g/dL	3.57	3.62	3.46	.03

(continued on next page)

eTable 1. Bivariate Analyses of Baseline Variables and Unplanned Hospitalization Within 3 Months (cont.)				
Variable	All Patients n (%)	No Hospitalization n (%)	Hospitalization n (%)	P Value
Geriatric variables				
Difficulty with ADLs ^{a,c}				.01
No	278 (75.5)	207 (79.01)	71 (66.98)	
Yes	90 (24.5)	55 (20.99)	35 (33.02)	
Impairment on GDS-15				<.01
No	285 (77.2)	215 (82.1)	70 (65.4)	
Yes	84 (22.8)	47 (17.9)	37 (34.6)	
Impairment on Mini-Cog				.11
No	250 (67.8)	184 (70.2)	66 (61.7)	
Yes	119 (32.2)	78 (29.8)	41 (38.3)	
Falls in past 6 months ^a				<.01
No	291 (79.1)	217 (82.82)	74 (69.81)	
Yes	77 (20.9)	45 (17.18)	32 (30.19)	
Social support ^{a,c,d}				.73
Yes	352 (95.6)	250 (95.42)	102 (96.23)	
No	16 (4.4)	12 (4.58)	4 (3.77)	

Abbreviations: ADLs, activities of daily living; GDS-15, 15-item Geriatric Depression Scale.

^aData were missing for 1 patient.

^bAmerican Indian or Alaskan Native; Asian; Native Hawaiian or Other Pacific Islander.

^cIdentified risk factors from Klepin HD, Sun CL, Smith DD, et al. Predictors of unplanned hospitalizations among older adults receiving cancer chemotherapy. *JCO Oncol Pract* 2021;17:e740–752.

^dHaving someone available to take them to the doctor most or all of the time.

eTable 2. Multivariable Analysis for Risk Factors Associated With Hospitalization Including History of Falls in the Past 6 Months and Impaired Depression

Risk Factor	Odds Ratio (95% CI)
Gastrointestinal cancer	1.34 (0.78–2.30)
Difficulty with ADLs	1.36 (0.77–2.40)
Impaired polypharmacy	0.92 (0.55–1.53)
Creatinine clearance (<60 mL/min)	1.21 (0.74–1.98)
≥3 comorbid conditions	1.04 (0.61–1.76)
Albumin level (<3.5 g/dL)	2.17* (1.33–3.57)
Social support ^a	0.99 (0.29–3.36)
Falls in past 6 months	1.76 (0.97–3.15)
Impairment on GDS-15	1.85* (1.04–3.28)

Abbreviations: ADLs, activities of daily living; GDS-15, 15-item Geriatric Depression Scale.

^aHaving someone available to take them to the doctor most or all of the time.

* $P < .05$.