

DISPARITIES IN DISCHARGE DISPOSITION

INTRODUCTION

- 3-30% of patients are discharged to inpatient rehabilitation
- Rehabilitation improves functional outcomes after burn injury
- Previous work suggests racial disparities in discharge to rehabilitation

METHODS

- Retrospective cohort study
- Burn Model Systems database, 1994-2019
- Patients: Survived to discharge Known disposition
- Multinomial GEE used to estimate riskadjusted association between race/ethnicity and discharge disposition

RESULTS

- N=4395 at 5 burn centers
- 79% discharged **home**
- 12% discharged to **inpatient**
- rehabilitation • 6% discharged to **SNF**

Factors associated with increased discharge to rehabilitation:

- Increasing age
- Increasing burn size
- Flame burns
- Burn center

CONCLUSION

- No racial/ethnic disparities identified in discharge to inpatient rehabilitation
- Inpatient rehabilitation utilization varies widely by burn center

FUTURE DIRECTIONS

- Understand patients most likely to benefit from inpatient rehabilitation
- Characterize need for inpatient rehabilitation beds
- Identify system-level barriers that may preclude discharge to rehabilitation when indicated



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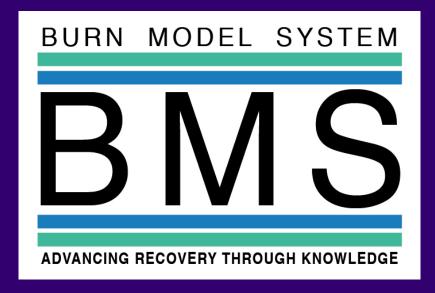
A burn model systems database study Mason SA, Carrougher GJ, Kowalske K, Amtmann D, Schneider JC, Gibran NS **UW Medicine Regional Burn Center**

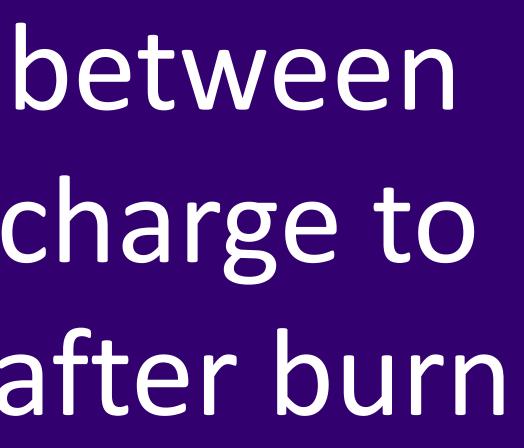
There is no association between participant race and discharge to inpatient rehabilitation after burn injury

Discharge to inpatient rehabilitation varies by burn center









PARTICIPANT & INJURY CHARACTERISTICS

Age group <18 18-64 >64 Gender, N (%) Male Female Median TBSA (IQR) Inhalation injury, N (%) Insurance status, N (%) Medicare Medicaid Private insurance Workers Self pay or indigent Burn mechanism Flame Scald Other

FACTORS ASSOCIATED WITH **DISCHARGE TO REHABILITATION**

Race	
White	
Black	
Asian	
Hispanic	
Other	
Age	
(per year increase)	
TBSA	
(per % increase)	
Burn year	
(per year increase)	
Burn mechanism	
Flame	
Scald	
Other	
Site	
Α	
B	
С	
D	
E	
Insurance	



	•	
	Ref	
2.56	(2.14-	3.06)
1.69	(1.18-	2.42)
0.04	(0.02-	0.08)
2.18	(1.22-	3.89)
1.36	(0.95-	1.96)

Ref 0.64 (0.46-0.89) 0.53 (0.34-0.81)

Ref
1.14 (0.81-1.60)
1.29 (0.73-2.29)
0.83 (0.58-1.20)
0.49 (0.13-1.78)
1.03 (1.01-1.04)
1.04 (1.02-1.06)
1.08 (1.01-1.15)

Odds ratio (95% CI)

2723 (61) 640 (14) 1134 (25)

493 (11) 716 (16) 1305 (29) 504 (11) 433 (10)

3251 (71) 1303 (29) 15 (22) 564 (12)

1095 (24) 3100 (68) 359 (8)