

# **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



Disclosure: The contents of this abstract were developed under a grant from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR grant numbers 90DPBU0001, 90DPBU0002, 90DPBU0004, 90DPGE0004). NIDILRR is a Center within the Administration for Community Living (ACL), Department of Health and Human Services (HHS). The contents of this abstract do not necessarily represent the policy of NIDILRR, ACL, HHS, and you should not assume endorsement by the Federal Government.

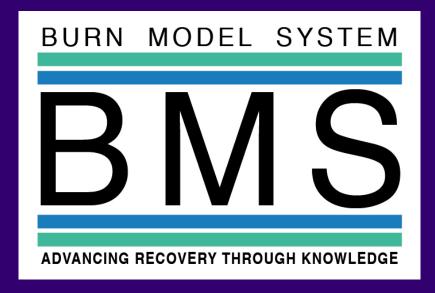
A burn model systems database study Mason SA, Carrougher GJ, Kowalske K, Amtmann D, Schneider JC, Gibran NS **UW Medicine Regional Burn Center** 

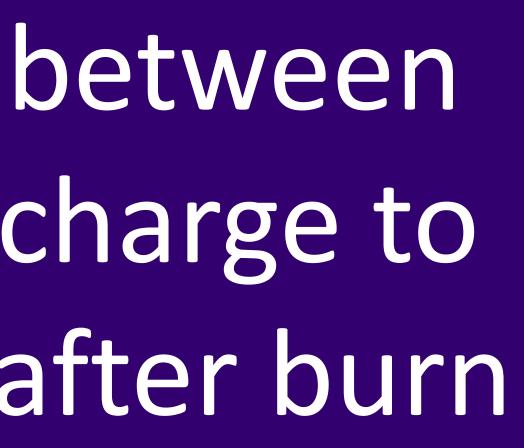
# There is no association between participant race and discharge to inpatient rehabilitation after burn injury

# 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)