

Decreased immobilization following autografting did not increase graft loss but did decrease length of stay

**Effect of Immobilization on LOS** 

reveal any studies examining the optimal timing for immobility following the placement of split thickness skin graft (STSG) to the upper extremity and the implications for functional independence.

Parameter Estimates									
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > İtl			
Intercept	Intercept	1	7.00807	2.14643	3.26	0.0012			
Day_immob	Day_immob	1	2.78777	0.73269	3.8	0.0002			



# Population and Results

A retrospective review was conducted for all adult burn-injured inpatients ages  $\geq$  18 who underwent STSG to the upper extremity from January 1, 2014 - January 1, 2019.

- Practice changes led to a decrease in days immobilized from 4 days to 2 days
- STSG complications did not increase as a result of decreasing the duration of immobilization
- Each day mobilization was delayed increased requirement for: • Moderate assistance with upper body dressing by 44% • Minimum assistance with toileting by 45%

## **Effects of complications on LOS**

### **Odds Ratio Estimates**

**95% Wald Confidence Limits Point Estimate** 

Each increase day in LOS increased a patient's odds of having STSG complications by 7.9%



Decreasing post surgical immobilization of the upper extremity from 4 days to 2 days decreased

Effect	Point E	stimate	<b>Confidence Limits</b>		
LOS		1.079	1.053	1.105	

LOS and increased functional ADL abilities without



