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### Donor Site Scarring Following Split Thickness Skin Graft Procedure

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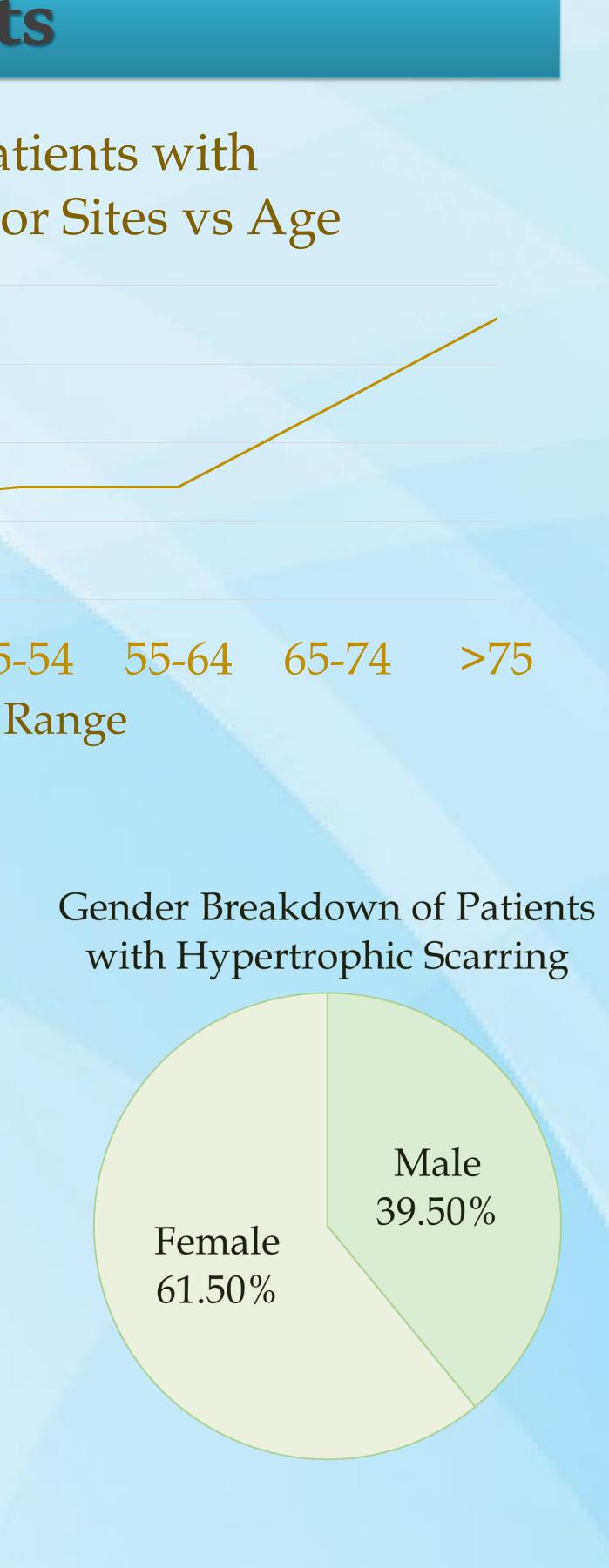
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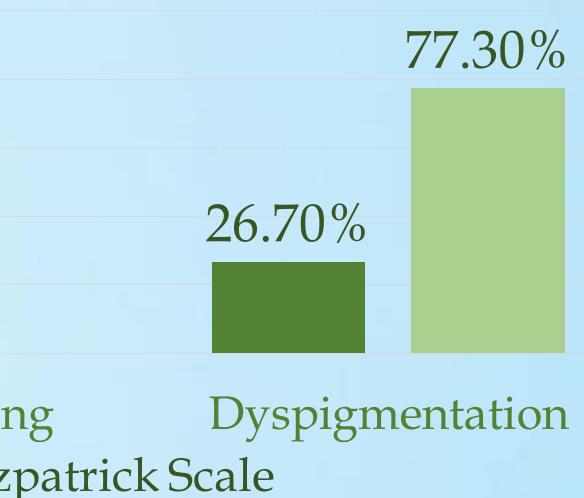
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# **Donor Site Scarring Following Split Thickness Skin Graft Procedure** Sakura Helm and Sigrid Blome-Eberwein, MD Lehigh Valley Health Network, Allentown, Pennsylvania

Intro	duction and Objective	Result
Split thickness skin grafting (STSG) is the standard treatment for burn wounds without healing potential - deep 2nd and 3rd degree burns, and other large full thickness skin wounds.		Percentage of Pate Dyspigmented Donos 80% 60%
To harvest a s must be creat tissue off the While much t recovery proc	split thickness skin graft, a new lesion ed by shaving a sheet of healthy patient. ime has recently been spent on the ess of burn wounds, little attention	
sites.	to the long-term outcomes of donor	Donor Site Healing Time vs Patient Percentage with
can lead to h site scarring association h tailor patien	To identify factors that higher chances of donor by evaluating any between patient conditions to help t care and clinical decision ted to the donor site in the future.	Dyspigmentation         60%       53.10%         50%       50%         40%       35.30%         30%       9         20%       9
	Methods	10% 0%
Data Collection	This is a retrospective chart review study. All data were collected through EPIC and entered into REDCap	<ul> <li>Over 14 days</li> <li>14 days or less</li> <li>Donor Site Complication (Fitzpatric)</li> <li>100%</li> <li>80%</li> <li>50.00%</li> <li>40%</li> <li>20%</li> </ul>
Patient Population	100 patients who required a STSG, treated at LVHN Burn Center between January 2015 and December 2022	
Factors	Demographics, comorbidities, donor site thickness and location, follow-up notes and photographs	<ul> <li>20%</li> <li>3%</li> <li>0%</li> <li>Hypertrophic Scarring</li> <li>Fitzp</li> <li>1-3 on Fitzpatrick Scale</li> </ul>



cation vs Skin Type ck Scale)



4-6 on Fitzpatrick Scale

A significant number of patients treated with a STSG are left with donor sites that cause longterm scars and dyspigmentation.

This study found that factors influencing dyspigmentation and/or hypertrophic scarring include:

- darker skin-types
- unhealthy BMI
- gender

Factors with little to no effect on donor site complications include:

- graft thickness
- donor site location
- site



**Donor site that is flat and** normally pigmented



## Conclusion

## Ionger donor site healing time

### hypertension and diabetes

post-operative dressings of the donor

**Donor Site with hypertrophic** scarring and dyspigmentation

