

# Burn Center Referral of Patients with Suspected Stevens-Johnson Syndrome And Toxic Epidermal Necrolysis



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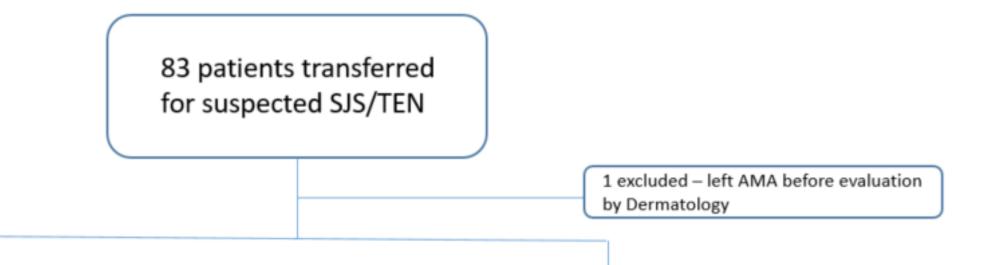
Results

#### Introduction

- Stevens-Johnson Syndrome (SJS) and Toxic Epidermal Necrolysis (TEN) are rare but lifethreatening desquamating skin diseases
- Often triggered by medications
- Characterized by cutaneous and mucous membrane sloughing which requires meticulous wound care often found in burn centers
- Other drug reactions and skin conditions

<ul> <li>83 patients referred from outside facilities for</li> </ul>
suspicion of SJS/TEN

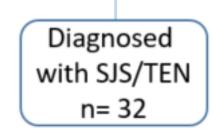
• 32 (38%) of patients with biopsy-confirmed SJS/TEN.



	SJS/TEN (n = 32)	Non-SJS/TEN (n = 51)	p-value
Age (mean <u>+</u> SD)	46 <u>+</u> 22	50 <u>+</u> 19	0.45
Gender (# male, %)	16 (50%)	6 (31%)	0.11
TBSA (median, IQR)	16.5 (6.9-43.8)	NM	NM
Scorten (mean <u>+</u> SD)	2 <u>+</u> 1.4	NM	NM

Demographics, NM = not measured

share similar features to SJS/TEN but do not require specialized burn care

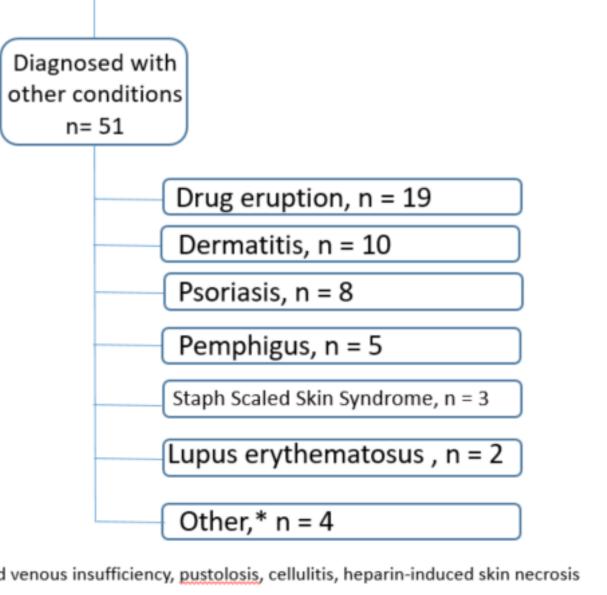


## **Objectives**

- Identify the incidence of patients referred for suspicion of SJS/TEN that were confirmed to have the disease
- Compare demographic characteristics and outcomes between the populations

#### **Methods**

1. Adult patients from a single center from 2016-2018 were examined in an approved Process Improvement Project



- In the SJS/TEN cohort, allopurinol and lamictal were the most common medications implicated
- In the non-SJS/TEN group, amoxicillin and Bactrim were the most common associated medications



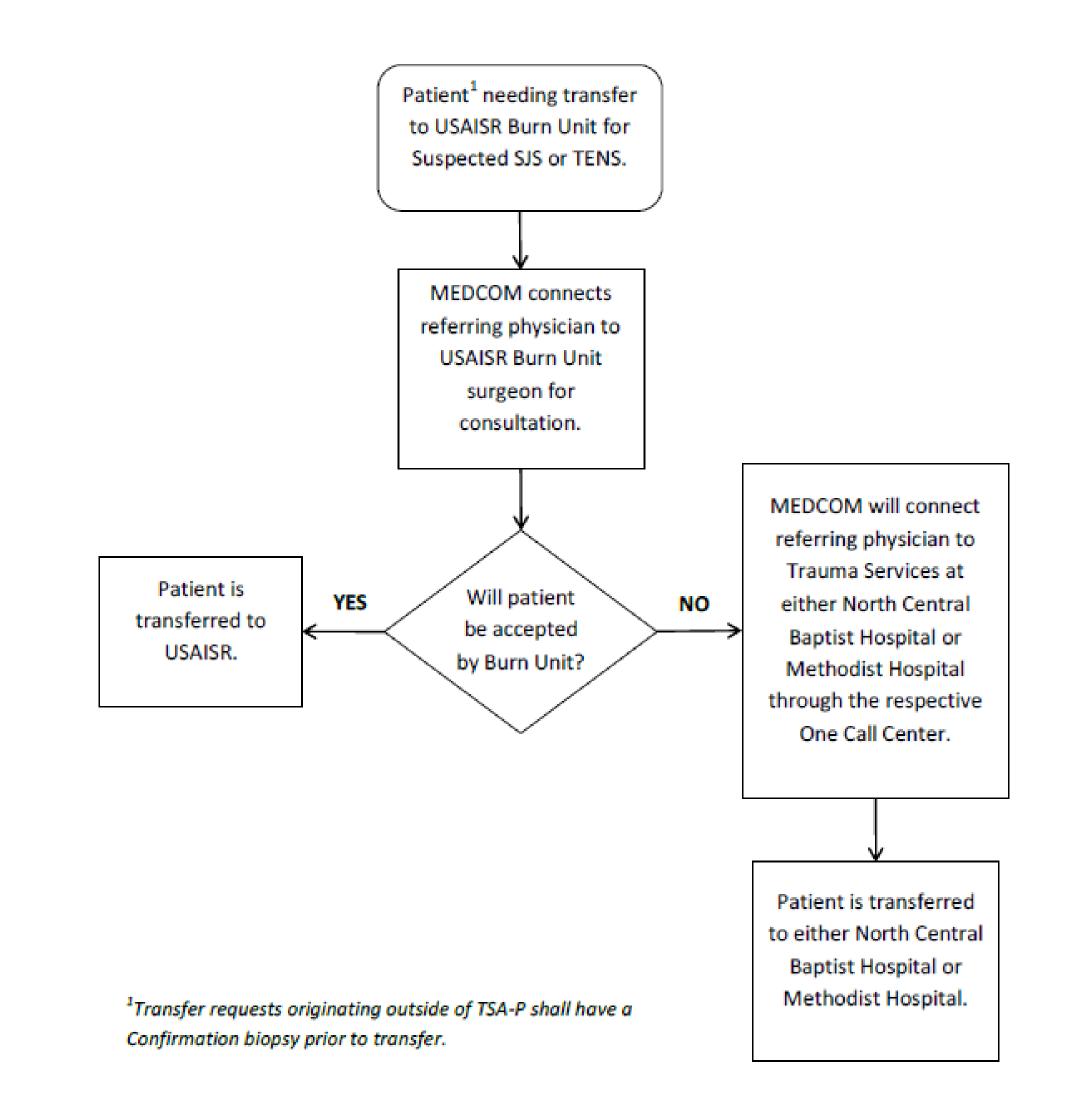
	SJS/TEN (n = 32)	Non-SJS/TEN (n = 51)	p-value
Hospital LOS (mean <u>+</u> SD)	14.9 + 10.2	5.6 + 11	<0.001*
BICU LOS (mean <u>+</u> SD)	8.7 + 8.6	1.9 + 7	<0.001*
Ventilator days (median, IQR)	0 (0-4)	0 (0-0)	0.02*
Mortality (#, %)	4 (12.5%)	3 (5.9%)	<0.001*

Outcomes, LOS = length of stay, \* statistically significant

#### Conclusions

- SJS/TEN best served at Burn Center
- Education and outreach can improve referral process
- Dermatology support to Burn Centers is

#### 2. Transferred from referring facility for suspicion of SJS/TEN



### Drug eruptions with associated blisters



#### Pustulosis or pustular drug eruption

paramount for success in managing serious skin diseases

#### Acknowledgements

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#### References

- 1. Abood GJ, Nickoloff BJ, Bamelli RL. Treatment strategies in toxic epidermal necrolysis syndrome: where are we at? J Burn Care Res 2008; 29(1): 269-76.
- 2. Game Le H, Saeed H, Mantagos IS, et al. Burn unit care of Stevens Johnson syndrome/toxic epidermal necrolysis: A survey Burns 2016; 42(4): 830-5.
- 3. Cartotto R. Burn Center Care of Patients with Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis. Clin Plast Surg 2017;







