

Smoking on Home Oxygen and Burn Related Injuries. A Single Center Experience

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BACKGROUND

- Home oxygen → destination therapy in some chronic diseases
- Increase smoking on home O2 → burn injuries → intubations for concerns of inhalation injuries
- **Aim**
 - To characterize the injury patterns, morbidities, and mortalities associated with burns sustained while on home oxygen therapy
- **Hypothesis**
 - Prevalence of these injuries are underrecognized



METHODS

Design

- Retrospective study of all burn patients admitted at a level one regional burn center

Period

- 4 months
- 10/2018-4/2019

Inclusion Criteria

- Smoking on home oxygen burn related injuries

Patient and Injury Characteristics

Patient and injury characteristics	N=143
Patients smoking on home O2	20(15%)
Age, range	47-79
Male gender(%)	13(69%)
Patients intubated(%)	5(25%)
Inhalation injury	0
Length of stay, days(range)	3.35(1.33-5.7)

RESULTS

- 25% of patients were intubated
- No patient had inhalation injury on bronchoscopy
- 4 patients extubated on day 1
- 1 patient extubated on day 1
- No hospital mortality



CONCLUSIONS

- Smoking on home oxygen is underrated
- Better education is necessary to both prescribers and patients
- Inhalation injuries are rare despite prophylactic intubations



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