

Hypoxemia and Blood Pressure Changes During Burn **Dressing Changes Under Monitored Anesthesia Care**

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SIGNIFICANCE

 Achieving adequate analgesia in burn patients can be challenging, as burn wound pain



 Included 112 burn inpatients undergoing 210 burn dressing changes under MAC.

remains unpredictable and difficult to treat.

- Data on the use of monitored anesthesia care (MAC) for burn dressing changes is limited.
- We aimed to identify prevalence and factors associated with hypoxia and blood pressure changes during MAC for inpatient burn dressing change.

DATA SOURCE

• Retrospective chart review on 112 adult inpatients undergoing 1 or more burn dressing

- Median age was 43 years (range 18-93).
- 78% were male and 95% were Caucasian.
- Average BMI was 29.7 (range 18-66).
- Average % total body surface area (TBSA) burned was 24% (range 1-70%).
- Number of MAC dressing changes per patient was 1 to 16, with most (71.4%) undergoing 1 MAC dressing change.
- Among 210 MAC cases, 5 involved a

changes under MAC from March 2014 to December 2017 at a single burn center.

KEY POINTS

- MAC anesthesia dressing changes are performed on individuals during all stages of the burn recovery.
- Identification of statistically significant associations is difficult given low frequency of these events during dressing changes.
- MAC anesthesia is an incredibly safe option for

hypoxemic event defined as %O2 saturation < 90%.

- 14 cases involving 7 patients involved a blood pressure change, defined as a mean arterial pressure (MAP) < 60 mmHg.
- 3 (1.4%) of the hypoxemic events were also associated with hypotension.
- None of these events were associated with poor outcomes.



in burn inpatients while caring for significantly ill

