

A 10-year Retrospective Review of Pediatric Burn Care in a High-volume, Verified Burn Center

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Abstract

Introduction: Historically, our pediatric admission population has comprised approximately one-third of all admissions. Periodically, it is beneficial to review demographics and outcomes. This type of review aids in planning, determining needed areas of improvement, efficiency in delivery of care, and it helps develop protocols which could be applicable to our other centers within the burn network. Moreover, it also establishes safety and adequacy of care for this specialized patient population in the face of potential life-threatening injuries. The purpose of this study is to create a demographic and clinical outcome profile of pediatric patients admitted to this burn center over the past ten years.

Methods: This retrospective chart review study was granted exemption from IntegReview IRB. Basic demographics and clinical outcomes were reviewed from data received from the Trauma Registry of the American College of Surgeons (TRACS) data base. The data reports for the 10-yr period were obtained in two 5-yr intervals. (01 Jan 2009 – June 2015 and July 2015 – December 31, 2019). As a result, the initial 5-yr period was not as detailed compared to the second 5-yr period. The authors summarized and accounted for as many differences in this documentation as possible, as the results will demonstrate.

Results: The study data was collected from data related to all pediatric burn admissions from January 1, 2009 – December 31, 2019. There was a total of 6354 admissions during this time.

Conclusions: This review of data has demonstrated a safe and effective model of care in a large, growing burn center. As growth and change continue, it is imperative that we maintain regular self-assessments of this type to ensure continuity of this quality of care and to identify and address any gaps that exist to safeguard the health and outcomes of future patients.

Learning Objectives

To discuss the demographics of admissions during a ten-year period in a large burn center.

References:

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