

REVIEW

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# Pediatric burn resuscitation: past, present, and future

Kathleen S. Romanowski<sup>1\*</sup> and Tina L. Palmieri<sup>2,3</sup>

## Abstract

Burn injury is a leading cause of unintentional death and injury in children, with the majority being minor (less than 10%). However, a significant number of children sustain burns greater than 15% total body surface area (TBSA), leading to the initiation of the systemic inflammatory response syndrome. These patients require IV fluid resuscitation to prevent burn shock and death. Prompt resuscitation is critical in pediatric patients due to their small circulating blood volumes. Delays in resuscitation can result in increased complications and increased mortality. The basic principles of resuscitation are the same in adults and children, with several key differences. The unique physiologic needs of children must be adequately addressed during resuscitation to optimize outcomes. In this review, we will discuss the history of fluid resuscitation, current resuscitation practices, and future directions of resuscitation for the pediatric burn population.

**Keywords:** Burns, Resuscitation, Pediatric

## Background

Burn injury is a leading cause of unintentional death and injury in children until 14 years of age (as high as the third most common cause in children ages 5 to 9) [1, 2]. While many of these injuries are minor and can be treated as outpatients, approximately 5% are considered moderate to severe injuries and require hospitalization [3]. It is generally believed that burns larger than 15% total body surface area (TBSA) lead to the initiation of the systemic inflammatory response syndrome requiring IV fluid resuscitation to prevent burn shock and death, while smaller burns are able to be treated with oral rehydration alone [4]. Prompt resuscitation is critical in pediatric patients due to their small circulating blood volumes. Delays in resuscitation, even as short as 30 min, due to difficulty with IV access or failure to recognize size or severity of the burn can result in increased rates of complications such as acute renal failure, increased hospital length of stay, and increased mortality [5, 6]. The basic principles of resuscitation are the same in adults and children; however, children are not simply “little adults”. They have unique physiologic needs that must be adequately addressed to successfully care for burn-injured

children. In this review, we will discuss the history of fluid resuscitation, current resuscitation practices, and future directions of resuscitation for the pediatric burn population.

## Review

### History of fluid resuscitation

Fluid resuscitation as a treatment for burn injury is thought to date back to the eighteenth century when Gerard van Swieten administered fluid via enema to rehydrate burn victims [7]. The idea of fluid resuscitation in burn patients gained further traction when Ludwig von Buhl made the correlation between the fluid losses in burn patients and in those with cholera and advocated for the administration of saline solution to replace losses [8]. Unfortunately, further work investigating the fluid losses and resuscitation of burn patients was not undertaken until the 1930s when Frank Underhill analyzed the composition of the fluid in blisters of burn-injured patients and found that it was similar in character to plasma [9]. The formulas that were designed for fluid resuscitation of burn-injured patients in the decade following Uphill's work utilized plasma and based their estimates of fluid required on patient weight, and either total serum protein level or hematocrit [10–12]. The size of the burn was not a consideration in any of these formulas.

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# Pediatric Burn Resuscitation Past Present And Future

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