

Outcomes of Children Transferred to a Pediatric Trauma Center After Blunt Abdominal Trauma: A 10-year Experience

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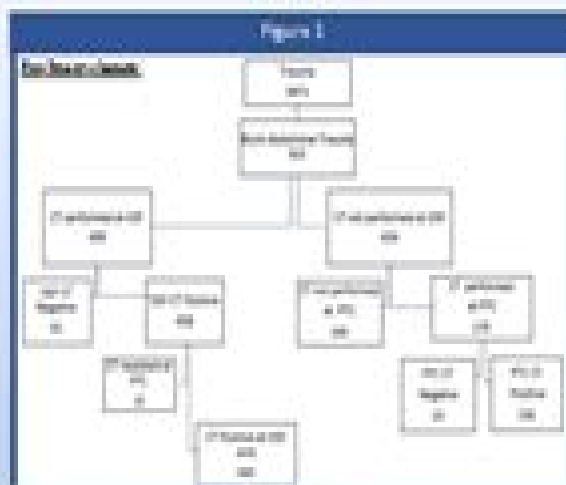
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Introduction

- Most injured children are initially seen at non-pediatric trauma hospitals before transfer to pediatric trauma centers (PTC) for definitive care
- Children with blunt abdominal trauma (BAT) are particularly susceptible to solid organ injury (SOI)
- Recent guidelines support a non-operative approach for most stable patients with SOI diagnosed on CT abdomen/pelvis (CT)
- Published outcomes of children transferred with BAT are sparse
- Aim: Describe a population of pediatric patients with BAT transferred from an outside facility (OSF) to a level-1 PTC

Methods

- 10-year retrospective study
- Inclusion:
 - 0-18yrs with BAT transferred to our level-1 PTC with injuries between the nipple and femur
- Exclusion:
 - Penetrating injury, non-EMS transport
- Comparisons:
 - Those who did and did not have CT at OSF
 - Those who did and did not have CT at PTC
 - Those with +CT at each facility
- Disposition of those with -CT were also described
- Enrollment and study design is shown in fig 1



Results

Table 1. Comparison of CT performed and not performed at Outside Facility

Variable	OSF CT performed (n=400)	OSF CT not performed (n=600)	P-value
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
SOI Diagnosis (%)			0.000
Spleen	10.0%	10.0%	
Liver	10.0%	10.0%	
Pancreas	10.0%	10.0%	
Intestine	10.0%	10.0%	
Kidney	10.0%	10.0%	
Admission to PTC	10.0%	10.0%	
Discharge	10.0%	10.0%	
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Length of Stay (LOS) in days (range) ± SD	1.0 (0.1-17.9)	1.0 (0.1-17.9)	0.500

Table 2. Comparison of CT performed and not performed at Pediatric Trauma Center

Variable	PTC CT performed (n=400)	PTC CT not performed (n=600)	P-value
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
SOI Diagnosis (%)			0.000
Spleen	10.0%	10.0%	
Liver	10.0%	10.0%	
Pancreas	10.0%	10.0%	
Intestine	10.0%	10.0%	
Kidney	10.0%	10.0%	
Admission to PTC	10.0%	10.0%	
Discharge	10.0%	10.0%	
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Length of Stay (LOS) in days (range) ± SD	1.0 (0.1-17.9)	1.0 (0.1-17.9)	0.500

Table 3. Comparison of Patients with Positive CT

Variable	Positive CT at OSF (n=300)	Positive CT at PTC (n=200)	P-value
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
SOI Diagnosis (%)			0.000
Spleen	10.0%	10.0%	
Liver	10.0%	10.0%	
Pancreas	10.0%	10.0%	
Intestine	10.0%	10.0%	
Kidney	10.0%	10.0%	
Admission to PTC	10.0%	10.0%	
Discharge	10.0%	10.0%	
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Age (y) mean (range) ± SD	3.9 (0.1-17.9)	4.2 (0.1-17.9)	0.500
Length of Stay (LOS) in days (range) ± SD	1.0 (0.1-17.9)	1.0 (0.1-17.9)	0.500

Conclusions

- Patients transferred to PTC without CT performed at OSF were younger
- Patients found to have +CT only after transfer to PTC, were younger and were more severely injured
- Patients with -CT, and no other significant injury, could potentially be spared transfer to PTC

Pediatric Trauma Pediatric Trauma

William L. Buntain



Pediatric Trauma Pediatric Trauma:

Pediatric Trauma Care II AHC Media, LLC, 2014-03-17 Pediatric trauma continues to have a significant impact on the health and well being of children in the United States Trauma continues to be the leading cause of death in children 1 to 18 years of age and accounted for more than 14 000 deaths among all children 0 to 18 years of age In 2008 there were more than 8 6 million nonfatal injuries among newborn to 18 year olds with an injury rate of greater than 1 in 10 There is little debate that a coordinated effort and pediatric specific advances in pediatric trauma systems prehospital care and hospital care and injury prevention can have a positive impact on pediatric trauma outcomes in the United States However there are still gaps in access to centers that deliver pediatric focused trauma care especially in rural areas Furthermore there are differing views between different centers regarding the optimal approach to the initial evaluation and management of the pediatric trauma patient This book is targeted to review critical aspects of the care of the pediatric trauma patient highlighting the most common and critical injuries encountered in the acute care setting **Pediatric Trauma** David E. Wesson, Bindi Naik-Mathuria, 2017-05-18 Injuries cause more than half of all childhood deaths and a large proportion of pediatric trauma care is provided by non pediatric specialists This book provides an update of current practice backed by evidence based recommendations in four sections 1 Trauma systems for children including epidemiology organization of pediatric trauma care disaster planning and systems for mass pediatric casualties and community injury prevention programs 2 General principles of resuscitation and supportive care 3 Specific injuries commonly seen in children including from child abuse 4 Rehabilitation communication long term outcomes and performance improvement methods to monitor outcomes

Pediatric Trauma David Wesson, Arthur Cooper, L.R. Tres Scherer, Steven Stylianos, David W. Tuggle, 2005-09-29 The definitive text on the state of the art in pediatric trauma care this reference offers detailed descriptions of procedures in system design pediatric resuscitation supportive care diagnostic imaging pain management and transfusion therapy by experts with hands on experience in the field Providing evidence based recommendations as well as **Diagnostic Imaging in Pediatric Trauma** J.L. Gwinn, P. Stanley, 2012-12-06 Trauma to various organ systems is a common medical problem in the pediatric age group With the increase in vehicular traffic and active participation in contact sports as well as a change in the social atmosphere the incidence of injury to children is increasing There is considerable morbidity associated with these injuries and accidents are the most common cause of death in this population group The radiologist using the various diagnostic radiological modalities available becomes involved in practically all cases of trauma of any degree of seriousness The radiological methods lend themselves not only to determining the specific diagnosis but also to assessing the extent of the injury This is important in determining of the patient as in recent years a more conservative type of therapy is advocated in several types of injury As has been said Children are not like adults hence injuries are of different types from those seen in adults The ligaments and tendons of children are stronger than the bone structure thus sprains and

strains are not as common as fractures Certain organs are in a less protected position in a child and may readily be injured from relatively minor trauma Injury due to violent action of others such as gunshot and stab wounds are not as common as in the adult population but they are increasing in the teenage group Blunt trauma or that due to rapid deceleration is the usual type of trauma seen in childhood

Management of Pediatric Trauma William L. Buntain, 1995 *The Hospital for Sick Children Manual of Pediatric Trauma* Angelo Mikrogianakis, Rahim Valani, Adam Cheng, 2007-09-01 Written by physicians from Toronto's internationally renowned Hospital for Sick Children this manual presents practical evidence based guidelines on the evaluation and management of a wide range of traumatic injuries in children The authors recommendations are based on their extensive clinical experience and reviews of the most recent literature and presented in a concise accessible format Chapters are written in bulleted outline format and include boxed and highlighted Trauma Pearls as well as detailed and up to date algorithms and flow charts Numerous illustrations and tables help the reader understand key points Extensive reading lists appear at the end of each chapter

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Pediatric Trauma Care Alfred P. Kennedy Jr, Romeo C. Ignacio, Robert Ricca, 2023-01-01 This book meets the need for a detailed resource that focuses on the unique challenges encountered in pediatric trauma and its clinical management Short practically oriented chapters describe how to successfully treat a range of injuries across a variety of anatomical areas Emphasis is placed on accounting for the injury mechanism providing recommendations on rapid assessment initial stabilization and management strategies Pediatric Trauma Care A Practical Guide comprehensively covers how to approach treating pediatric trauma patients suffering with a variety of injuries Therefore it is an ideal resource for all medical professionals who encounter these patients in their day to day practice

Pediatric Emergency Medicine Jill M. Baren, 2008-01-01 This authoritative reference equips you with the essential knowledge to provide comprehensive and effective care to children in an emergency setting From age specific diagnoses and chief complaints through developmental considerations and psychosocial issues this text guides you through the full range of medical and surgical conditions commonly encountered when treating pediatric emergencies The use of full color throughout diagnostic algorithms text boxes charts clinical pearls and pitfalls and other visual features ensure the book will make crucial clinical information easy to find and apply Tap into expert guidance on all aspects of pediatric emergency medicine from the physical exam and usual and unusual presentations through to disposition criteria and transfer issues Access step by step guidance on administering critical life support interventions and providing effective diagnostic and therapeutic ambulatory care Quickly review specific treatment protocols for various emergency settings including general emergency departments community hospitals tertiary

care centers EMS and transport and triage Find information fast with or without a known diagnosis with content organized both by chief complaints and by specific diagnoses Better understand how problems present differently in infants children and adolescents with age specific diagnoses Identify and manage the psychosocial issues surrounding pediatric patients including major depression and suicidality sexual and physical abuse child neglect and violence Easily absorb key information with the aid of text boxes algorithms clinical pearls and pitfalls Retrieve information easily with a consistent templated format

Pediatric Traumatic Emergencies Ann Dietrich,2020 Trauma is the leading cause of death in children accounting for more than 50% of all childhood deaths After presenting the case of an 8 year old female struck by a moving vehicle this chapter will discuss the management of the pediatric trauma patient It will focus on the primary and secondary survey with anatomic and physiologic concerns specific to the pediatric patient

Pediatric Trauma Robert J. Touloukian,1978 Pediatric Trauma David E Wesson,Bindi Naik-Mathuria,2020-07-02 Injuries cause more than half of all childhood deaths and a large proportion of pediatric trauma care is provided by non pediatric specialists This book provides an update of current practice backed by evidence based recommendations in four sections 1 Trauma systems for children including epidemiology organization of pediatric trauma care disaster planning and systems for mass pediatric casualties and community injury prevention programs 2 General principles of resuscitation and supportive care 3 Specific injuries commonly seen in children including from child abuse 4 Rehabilitation communication long term outcomes and performance improvement methods to monitor outcomes

Nursing Care of the Pediatric Trauma Patient Sandra J. Czerwinski,2003 Nursing Care of the Pediatric Trauma Patient provides the most comprehensive coverage available on nursing care of the pediatric trauma patient Ideal for both emergency and trauma nurses this reference discusses pediatric trauma across the continuum of care This provides a broad perspective that enables the reader to use a systems approach that is consistent with the current health care environment The book is organized into three sections The first section The Scope of Pediatric Trauma covers issues such as epidemiology prevention and outcomes management The second section Clinical Concepts covers issues such as mechanism of injury pre hospital care initial resuscitation rehabilitation pain management nutrition family centered care and violence Section Three System Injuries addresses specific body system issues and sequellae of trauma Comprehensive content focuses specifically on nursing care of the pediatric trauma patient The nurse s role in the continuum of care is consistent with the emphasis of the current healthcare environment The organizational framework focuses on the systems approach and is divided into four sections The section on The Scope of Pediatric Trauma covers issues such as epidemiology prevention outcomes management and ethical issues The Clinical Concepts section addresses mechanism of injury pre hospital care initial resuscitation rehabilitation pain management nutrition family centered care and violence The section on System Injuries covers specific body system issues The section on Multisystem Issues covers thermal and submersion injuries as well as the unborn infant as trauma victim and sequellae of trauma Independent and collaborative

nursing interventions are emphasized in the System Injuries section Timely issues such as outcomes management are discussed Chapters written by nurses practicing in pediatric trauma ensure clinically relevant up to date content

Pediatric Trauma Care Martin Eichelberger,Geraldine L. Pratsch,1988 Pediatric Trauma Edward G. Ford,Richard Andrassy,1994 Emanating from the University of Texas Health Science Center at Houston the country s largest pediatric trauma center this informative treatise examines all aspects of trauma affecting the pediatric patient Coverage includes initial assessment metabolic response nutritional support neurotrauma thoracic trauma more A special chapter is devoted to the life flight service Pediatric Trauma Care Martin Eichelberger,1988-01-01 *Pediatric Trauma* Robert J.

Touloukian,1990 **Skeletal Injury in the Child** John A. Ogden,2006-04-28 The new edition of this comprehensive classic continues the tradition of offering the latest developments in the mechanisms of injury the biomechanics of fracture reduction and an understanding of the potential for healing It correlates anatomy pathology and radiography of childrens skeletal injuries with a plethora of photographs and line drawings establishing diagnosis management and treatment in a comprehensive and practical manner Important additions to this edition are an expansive chapter on the management of multiple injuries the management of complications extensive discussion of soft tissue injuries following skeletal trauma new diagnostic techniques and the use of flaps in childrens injuries Written by one of the most highly respected names in the orthopaedic community world wide this third edition will remain an invaluable resource to paediatric orthopaedic surgeons general orthopaedic surgeons emergency room physicians orthopaedic trauma surgeons and residents and fellows in these specialities **Pediatric Trauma Resuscitation Manual** Neha Thakur,Samir Misra,2023-11-03 Pediatric Anesthesia Handbook Terrance A. Yemen,Terrance Yemen,2002-05-20 A quick access pocket guide that provides anesthesiologists and nurse anesthetists with a wide range of important procedures for treating pediatric patients in and out of the OR

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