











# Abdominal pediatric bicycle handle trauma: Experience at a Colombian pediatric reference center.

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## Introduction



Up to 5% of trauma related to bicycles. More than 40% involve abdominal Management injuries. depends clinical presentation and nature of injuries.



Little information available in our region related to this topic



To describe the clinical characteristics and experience in treatment in pediatric patients with abdominal trauma due to bicycle handle

#### Methods



Retrospective case series



Pediatric patients at HOMI 2010 - 2024



Measures of central tendency and percentages.

### Results

#### **Demographics**



21 children



Mean age: 10 years old



15% F 85% M



Follow up: 59 days



Consultation time: 75 hrs

## Diagnostic approach



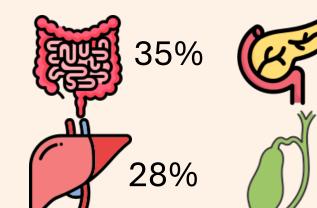
57%



80%

Sing/Symptom	N (%)
Tachycardia	12 (57%)
Tattoo	12 (57%)
Peritoneal irritation	4 (19%)
Altered Hb	7 (33%)
Altered liver workup	5 (23%)

## Positive findings (n=14)





Intervention	N (%)
Laparotomy Intestinal resection/Anastomosis Intestinal suture	<b>5 (42.8%)</b> 3 (60%) 2 (40%)
Laparoscopy Intestinal suture Intestinal resection/Anastomosis Negative	3 (28.5%) 1 (33%) 1 (33%) 1 (33%)
Percutaneous (Pancreatic pseudocyst drainage)	1 (7.1%)

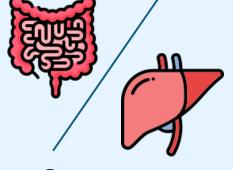


Complications n=3 (21%): Surgical site infection n=2 (14%); bleeding n=1 (7%) Deaths: 0%

## Conclusions:



Our patients consult later (75 hrs vs 35 hrs



Grater incidence of bowel injury



Minimally invasive surgery and observation are safe in selected patients



Low incidence of complications





