

**Literature Search**  
**ACR Appropriateness Criteria®**  
**Major Blunt Trauma**

Literature Search Performed on: 11/01/2017

Beginning Date: January 2006

End Date: October 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

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**Search Strategy**

- 1 "wounds and injuries"/ or abdominal injuries/ or back injuries/ or multiple trauma/ or soft tissue injuries/ or thoracic injuries/ or wounds, nonpenetrating/ (126705)
- 2 accidental falls/ or accidents, traffic/ (60928)
- 3 Spleen/in [Injuries] (2857)
- 4 Pancreas/in [Injuries] (1950)
- 5 Kidney/in [Injuries] (4277)
- 6 Mesenteric Arteries/in [Injuries] (151)
- 7 Urinary Bladder/in [Injuries] (2402)
- 8 Urethra/in [Injuries] (2167)
- 9 Pelvis/in [Injuries] (1136)
- 10 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 (181480)
- 11 focused assessment with sonography in trauma.mp. (89)
- 12 diagnostic imaging/ or exp \*image interpretation, computer-assisted/ or exp \*imaging, three-dimensional/ or exp \*multimodal imaging/ or exp \*radiography/ or exp \*radionuclide imaging/ or exp \*subtraction technique/ or exp \*tomography/ or exp \*ultrasonography/ or \*whole body imaging/ (726895)
- 13 \*Fetal Monitoring/ (4139)
- 14 11 or 12 or 13 (730704)
- 15 10 and 14 (6959)
- 16 limit 15 to (abstracts and english language and humans and yr="2006 - 2015") (1902)
- 17 limit 16 to ("preschool child (2 to 5 years)" or "child (6 to 12 years)") (381)
- 18 16 not 17 (1521)
- 19 limit 18 to case reports (282)
- 20 18 not 19 (1239)
- 21 remove duplicates from 20 (1171)
- 22 exp Wounds, Penetrating/ (35761)
- 23 21 not 22 (1091)
- 24 limit 23 to yr="2011 - 2015" (644)

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Literature Search Performed on: 07/26/2017

Beginning Date: January 1860

End Date: June 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

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**Search Strategy**

- 1 genitourinary trauma.mp. (112)
- 2 Wounds, Nonpenetrating/ (20093)
- 3 Urinary Bladder/ (47718)
- 4 Urethral Diseases/ (4703)
- 5 Hematuria/ (11401)
- 6 bladder injury.mp. (829)
- 7 bladder contusion.mp. (7)
- 8 extraperitoneal bladder rupture.mp. (58)

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- 9 intraperitoneal bladder rupture.mp. (98)
- 10 urethral injury.mp. (513)
- 11 Urethra/ (22543)
- 12 (3 or 5 or 11) and 2 (448)
- 13 lower urinary tract.mp. (13522)
- 14 1 or 4 or 6 or 7 or 8 or 9 or 10 or 12 or 13 (19807)
- 15 urethrography.mp. (1015)
- 16 cystography.mp. (1750)
- 17 Urography/ (20048)
- 18 exp Diagnostic Imaging/ (2427992)
- 19 15 or 16 or 17 or 18 (2429086)
- 20 12 or 14 (19807)
- 21 19 and 20 (2770)
- 22 limit 21 to (abstracts and english language and humans and yr="1860 -Current") (1663)
- 23 limit 22 to "all child (0 to 18 years)" (561)
- 24 limit 22 to case reports (439)
- 25 22 not (23 or 24) (797)
- 26 remove duplicates from 25 (782)

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Literature Search Performed on: 07/26/2017

Beginning Date: January 1860

End Date: June 2017

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**Search Strategy**

- 1 exp Spinal Fractures/ (13088)
- 2 Cervical Vertebrae/ (32011)
- 3 Spinal Cord Injuries/ (33590)
- 4 Wounds, Nonpenetrating/ (20093)
- 5 4 and (1 or 2 or 3) (604)
- 6 spine trauma.mp. (815)
- 7 5 or 6 (1380)
- 8 exp Diagnostic Imaging/ (2427992)
- 9 7 and 8 (732)
- 10 limit 9 to (abstracts and english language and humans) (600)
- 11 limit 10 to "all child (0 to 18 years)" (255)
- 12 limit 10 to case reports (111)
- 13 10 not (11 or 12) (273)
- 14 remove duplicates from 13 (266)
- 15 limit 14 to yr="1860 -Current" (266)

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Beginning Date: January 1860

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**Search Strategy**

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- 1 Wounds, Nonpenetrating/ (20093)
- 2 blunt trauma.mp. (8198)
- 3 exp Diagnostic Imaging/ (2427992)
- 4 Pregnancy/ (824789)
- 5 4 and (1 or 2) (205)
- 6 3 and 5 (60)
- 7 limit 6 to (abstracts and english language and humans) (43)
- 8 limit 7 to case reports (17)
- 9 7 not 8 (26)
- 10 limit 9 to yr="1860 -Current" (26)

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Literature Search Performed on: 07/26/2017

Beginning Date: January 1860

End Date: June 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

**Search Strategy**

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- 1 exp Craniocerebral Trauma/ (144321)
- 2 exp Diagnostic Imaging/ (2427992)
- 3 1 and 2 (30513)
- 4 Wounds, Penetrating/ (11170)
- 5 3 not 4 (30187)
- 6 limit 5 to (abstracts and english language and humans) (16565)
- 7 limit 6 to "all child (0 to 18 years)" (6908)
- 8 limit 6 to case reports (6405)
- 9 6 not (7 or 8) (5393)
- 10 remove duplicates from 9 (5202)
- 11 blunt.mp. (28585)
- 12 10 and 11 (180)
- 13 limit 12 to yr="1860 -Current" (180)

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Literature Search Performed on: 07/26/2017

Beginning Date: January 1860

End Date: June 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

**Search Strategy**

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- 1 lower extremities.mp. or exp Lower Extremity/ (168382)
- 2 upper extremities.mp. or exp Upper Extremity/ (156711)
- 3 Wounds, Nonpenetrating/ (20093)
- 4 blunt trauma.mp. (8198)
- 5 (1 or 2) and (3 or 4) (539)
- 6 exp Diagnostic Imaging/ (2427992)
- 7 5 and 6 (193)
- 8 limit 7 to (abstracts and english language and humans) (130)

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- 9 limit 8 to case reports (70)
- 10 limit 8 to "all child (0 to 18 years)" (46)
- 11 8 not (9 or 10) (32)
- 12 remove duplicates from 11 (32)
- 13 limit 12 to yr="1860 -Current" (32)

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Literature Search Performed on: 07/26/2017

Beginning Date: January 1860

End Date: June 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

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**Search Strategy**

- 1 exp Thoracic Injuries/ (24969)
- 2 Aorta, Thoracic/ (32418)
- 3 Wounds, Nonpenetrating/ (20093)
- 4 (1 or 2) and 3 (4457)
- 5 exp Diagnostic Imaging/ (2427992)
- 6 4 and 5 (1921)
- 7 limit 6 to (abstracts and english language and humans) (1202)
- 8 limit 7 to "all child (0 to 18 years)" (382)
- 9 limit 7 to case reports (580)
- 10 7 not (8 or 9) (385)
- 11 remove duplicates from 10 (377)
- 12 limit 11 to yr="1860 -Current" (377)

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Literature Search Performed on: 07/21/2017

Beginning Date: January 2007

End Date: June 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

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**Search Strategy**

- 1 Abdominal Injuries/ (13913)
- 2 abdominal trauma.mp. (5618)
- 3 Pelvis/ (20888)
- 4 Wounds, Nonpenetrating/ or blunt.mp. (36584)
- 5 4 and (1 or 2 or 3) (6192)
- 6 blunt abdominal trauma.mp. (3011)
- 7 5 or 6 (6192)
- 8 exp Diagnostic Imaging/ (2427074)
- 9 ct cystogram.mp. (16)
- 10 8 or 9 (2427078)
- 11 7 and 10 (2682)
- 12 Wounds, Penetrating/ (11169)
- 13 11 not 12 (2533)
- 14 limit 13 to "all child (0 to 18 years)" (1189)
- 15 13 not 14 (1344)

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16 limit 15 to case reports (621)  
17 15 not 16 (723)  
18 limit 17 to (abstracts and english language and humans) (468)  
19 Wounds, Nonpenetrating/ or blunt trauma.mp. (23536)  
20 8 and 19 (8904)  
21 limit 20 to (abstracts and english language and humans and yr="2007 -Current") (2383)  
22 limit 21 to case reports (918)  
23 limit 21 to "all child (0 to 18 years)" (902)  
24 21 not (22 or 23) (820)  
25 18 or 24 (1090)  
26 remove duplicates from 25 (1055)  
27 26 not 12 (999)

**Summary**

| Source                | #Unique Refs | #Retained Refs |
|-----------------------|--------------|----------------|
| Old bibliography      | 0            | 0              |
| Literature Search(es) | 2539         | 28             |
| Author Added          | 38           | 26             |
| Supporting Docs       | 12           | 7              |
| Total                 |              | 61             |

References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.