

**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**

| <b>Source</b>         | <b>#Unique Refs</b> | <b>#Retained Refs</b> |
|-----------------------|---------------------|-----------------------|
| 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.