**Thoracolumbar Burst Fractures: A Systematic Review and Meta-Analysis Comparing Posterior-Only Instrumentation versus Combined Anterior-Posterior Instrumentation.**

**Appendix 2 - Data extraction sheet for included studies**

*Developed using the Cochrane ‘Data Collection Form For Intervention Review – RCTs Only.*

**General information**

* Study ID (created by review author):
* Review author ID (created by review author):
* Reference:
* Authors:
* Journal:
* Country:
* Year of study:
* Study period:
* Conflicts of interest

**Methods**

* Study design:
* Randomisation method:
* Bias: See bias tables for study bias review
* Follow up duration:

**Participants**

* Age:
* Sex:

**Interventions**

* Intervention:
* Control:
* Total number:
  + Number in control group (posterior-only):
  + Number in intervention group (combined anterior-posterior):
  + Number in excluded group (study arm):
  + Type of intervention in third excluded arm: Anterior-only approach
* Fracture levels:

**Outcomes measured**

Radiological:

Post-operative kyphosis correction

Unit of measurement: Degrees

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number (n) | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |  |
| Intervention group (combined anterior-posterior) |  |  |  |

Loss of kyphosis correction

Unit of measurement: Degrees

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number (n) | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |  |
| Intervention group (combined anterior-posterior) |  |  |  |

Functional:

Visual analogue scale (VAS) score

Unit of measurement: Centimetres

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number (n) | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |  |
| Intervention group (combined anterior-posterior) |  |  |  |

Oswestry Disability Index (ODI) score

Unit of measurement: Percentage

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number (n) | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |  |
| Intervention group (combined anterior-posterior) |  |  |  |

Clinical:

Blood loss

Unit of measurement: Millilitres

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |
| Intervention group (combined anterior-posterior) |  |  |

Operative time

Unit of measurement: Minutes (min)

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |
| Intervention group (combined anterior-posterior) |  |  |

Length of stay

Unit of measurement: Days

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard deviation (SD) |
| Control group (posterior-only) |  |  |
| Intervention group (combined anterior-posterior) |  |  |

Post-operative complications

|  |  |  |
| --- | --- | --- |
|  | Number (n) | Type |
| Control group (posterior-only) |  |  |
| Intervention group (combined anterior-posterior) |  |  |

**Results**

* Number of participants allocated to each intervention group
* Thoracolumbar burst fractures
  + Did the study look at the levels at which the fractures occurred?
* Surgical approach and instrumentation method
  + Posterior:
  + Combined:
* Kyphosis
  + Did they look at the degree of postoperative kyphosis?
  + Did they look at the degree of kyphosis at the final post-operative follow up?
  + What was the measurement method?
* VAS
  + What was the measurement method?
  + Is it validated as measurement tool / PROM?
* ODI
  + What was the measurement method?
  + Is it validated as measurement tool / PROM?
* Blood loss
  + Did the authors report the method of calculation of est. blood loss?
* Length of stay (LOS)
  + Did they look at length of stay?

**Other study information**

* Key conclusion of authors
* Comments on limits of study by authors
* Screen references for other relevant studies