



Knowledge Forum

Spinal Cord Injury



Publication summary of AO Spine Knowledge Forum

Spinal Cord Injury (SCI) – SCI-DCM Guidelines project

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Peer-reviewed Journal Articles:

1. Tetreault L, Nater A, Garwood P, Badhiwala JH, Wilson JR, Fehlings MG. *Development and Implementation of Clinical Practice Guidelines: An Update and Synthesis of the Literature With a Focus in Application to Spinal Conditions*. Global Spine J 9(1 Suppl): 53S-64S, 2019.



2. Arnold PM, Harrop JS, Merli G, Tetreault LG, Kwon BK, Casha S, Palmieri K, Wilson JR, Fehlings MG, Holmer HK, Norvell DC. *Efficacy, Safety, and Timing of Anticoagulant Thromboprophylaxis for the Prevention of Venous Thromboembolism in Patients With Acute Spinal Cord Injury: A Systematic Review*. Global Spine Journal 7(3_suppl): 138S-150S, 2017.



3. Burns AS, Marino RJ, Kalsi-Ryan S, Middleton JW, Tetreault LA, Dettori JR, Mihalovich KE, Fehlings MG. *Type and Timing of Rehabilitation Following Acute and Subacute Spinal Cord Injury: A Systematic Review*. Global Spine Journal 7(3_suppl): 175S-194S, 2017.



4. Fehlings MG, Kwon BK, Tetreault LA. *Guidelines for the Management of Degenerative Cervical Myelopathy and Spinal Cord Injury: An Introduction to a Focus Issue*. Global Spine Journal 7(3_suppl): 6S-7S, 2017.



5. Fehlings MG, Martin AR, Tetreault LA, Aarabi B, Anderson P, Arnold PM, Brodke D, Burns AS, Chiba K, Dettori JR, Furlan JC, Hawryluk G, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon BK, Marino RJ, Massicotte E, Merli G, Middleton JW, Nakashima H, Nagoshi N, Palmieri K, Singh A, Skelly AC, Tsai EC, Vaccaro A, Wilson JR, Yee A, Harrop JS. *A Clinical Practice Guideline for the Management of Patients With Acute Spinal Cord Injury: Recommendations on the Role of Baseline Magnetic Resonance Imaging in Clinical Decision Making and Outcome Prediction*. Global Spine Journal 7(3_suppl): 221S-230S, 2017.



6. Fehlings MG, Tetreault LA, Aarabi B, Anderson P, Arnold PM, Brodke DS, Burns AS, Chiba K, Dettori JR, Furlan JC, Hawryluk G, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon BK, Marino RJ, Martin AR, Massicotte E, Merli G, Middleton JW, Nakashima H, Nagoshi N, Palmieri K, Singh A, Skelly AC, Tsai EC, Vaccaro A, Wilson JR, Yee A, Harrop JS. *A Clinical Practice Guideline for the Management of Patients With Acute Spinal Cord Injury: Recommendations on the Type and Timing of Anticoagulant Thromboprophylaxis*. Global Spine Journal 7(3_suppl): 212S-220S, 2017.



7. Fehlings MG, Tetreault LA, Aarabi B, Anderson P, Arnold PM, Brodke DS, Chiba K, Dettori JR, Furlan JC, Harrop JS, Hawryluk G, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon BK, Marino RJ, Martin AR, Massicotte E, Merli G, Middleton JW, Nakashima H, Nagoshi N, Palmieri K, Singh A, Skelly AC, Tsai EC, Vaccaro A, Wilson JR, Yee A, Burns AS. *A Clinical Practice Guideline for the Management of Patients With Acute Spinal Cord Injury: Recommendations on the Type and Timing of Rehabilitation*. Global Spine Journal 7(3_suppl): 231S-238S, 2017.



8. Fehlings MG, Tetreault LA, Kurpad S, Brodke DS, Wilson JR, Smith JS, Arnold PM, Brodt ED, Dettori JR. *Change in Functional Impairment, Disability, and Quality of Life Following Operative Treatment for Degenerative Cervical Myelopathy: A Systematic Review and Meta-Analysis*. Global Spine Journal 7(3_suppl): 53S-69S, 2017.



9. Fehlings MG, Tetreault LA, Riew KD, Middleton JW, Aarabi B, Arnold PM, Brodke DS, Burns AS, Carette S, Chen R, Chiba K, Dettori JR, Furlan JC, Harrop JS, Holly LT, Kalsi-Ryan S, Kotter M, Kwon BK, Martin AR, Milligan J, Nakashima H, Nagoshi N, Rhee J, Singh A, Skelly AC, Sodhi S, Wilson JR, Yee A, Wang JC. *A Clinical Practice Guideline for the Management of Patients With Degenerative Cervical Myelopathy: Recommendations for Patients With Mild, Moderate, and Severe Disease and Nonmyelopathic Patients With Evidence of Cord Compression*. Global Spine Journal 7(3_suppl): 70S-83S, 2017.



10. Fehlings MG, Tetreault LA, Riew KD, Middleton JW, Wang JC. *A Clinical Practice Guideline for the Management of Degenerative Cervical Myelopathy: Introduction, Rationale, and Scope*. Global Spine Journal 7(3_suppl): 21S-27S, 2017.



11. Fehlings MG, Tetreault LA, Wilson JR, Aarabi B, Anderson P, Arnold PM, Brodke DS, Burns AS, Chiba K, Dettori JR, Furlan JC, Hawryluk G, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Marino RJ, Martin AR, Massicotte E, Merli G, Middleton JW, Nakashima H, Nagoshi N, Palmieri K, Singh A, Skelly AC, Tsai EC, Vaccaro A, Yee A, Harrop JS. *A Clinical Practice Guideline for the Management of Patients With Acute Spinal Cord Injury and Central Cord Syndrome: Recommendations on the Timing (≤ 24 Hours Versus > 24 Hours) of Decompressive Surgery*. Global Spine Journal 7(3_suppl): 195S-202S, 2017.



12. Fehlings MG, Tetreault LA, Wilson JR, Kwon BK, Burns AS, Martin AR, Hawryluk G, Harrop JS. *A Clinical Practice Guideline for the Management of Acute Spinal Cord Injury: Introduction, Rationale, and Scope*. Global Spine Journal 7(3_suppl): 84S-94S, 2017.



13. Fehlings MG, Wilson JR, Harrop JS, Kwon BK, Tetreault LA, Arnold PM, Singh JM, Hawryluk G, Dettori JR. *Efficacy and Safety of Methylprednisolone Sodium Succinate in Acute Spinal Cord Injury: A Systematic Review*. Global Spine Journal 7(3_suppl): 116S-137S, 2017.

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14. Fehlings MG, Wilson JR, Tetreault LA, Aarabi B, Anderson P, Arnold PM, Brodke DS, Burns AS, Chiba K, Dettori JR, Furlan JC, Hawryluk G, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon BK, Marino RJ, Martin AR, Massicotte E, Merli G, Middleton JW, Nakashima H, Nagoshi N, Palmieri K, Skelly AC, Singh A, Tsai EC, Vaccaro A, Yee A, Harrop JS. *A Clinical Practice Guideline for the Management of Patients With Acute Spinal Cord Injury: Recommendations on the Use of Methylprednisolone Sodium Succinate*. Global Spine Journal 7(3_suppl): 203S-211S, 2017.

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15. Kurpad S, Martin AR, Tetreault LA, Fischer DJ, Skelly AC, Mikulis D, Flanders A, Aarabi B, Mroz TE, Tsai EC, Fehlings MG. *Impact of Baseline Magnetic Resonance Imaging on Neurologic, Functional, and Safety Outcomes in Patients With Acute Traumatic Spinal Cord Injury*. Global Spine Journal 7(3_suppl): 151S-174S, 2017.

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16. Rhee J, Tetreault LA, Chapman JR, Wilson JR, Smith JS, Martin AR, Dettori JR, Fehlings MG. *Nonoperative Versus Operative Management for the Treatment Degenerative Cervical Myelopathy: An Updated Systematic Review*. Global Spine Journal 7(3_suppl): 35S-41S, 2017.

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17. Tetreault LA, Karadimas S, Wilson JR, Arnold PM, Kurpad S, Dettori JR, Fehlings MG. *The Natural History of Degenerative Cervical Myelopathy and the Rate of Hospitalization Following Spinal Cord Injury: An Updated Systematic Review*. Global Spine Journal 7(3_suppl): 28S-34S, 2017.

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18. Tetreault LA, Rhee J, Prather H, Kwon BK, Wilson JR, Martin AR, Andersson IB, Dembek AH, Pagarigan KT, Dettori JR, Fehlings MG. *Change in Function, Pain, and Quality of Life Following Structured Nonoperative Treatment in Patients With Degenerative Cervical Myelopathy: A Systematic Review*. Global Spine Journal 7(3_suppl): 42S-52S, 2017.

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19. Tetreault LA, Skelly AC, Dettori JR, Wilson JR, Martin AR, Fehlings MG. *Guidelines for the Management of Degenerative Cervical Myelopathy and Acute Spinal Cord Injury: Development Process and Methodology*. Global Spine Journal 7(3_suppl): 8S-20S, 2017.

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20. Wilson JR, Tetreault LA, Kwon BK, Arnold PM, Mroz TE, Shaffrey C, Harrop JS, Chapman JR, Casha S, Skelly AC, Holmer HK, Brodt ED, Fehlings MG. *Timing of Decompression in Patients With Acute Spinal Cord Injury: A Systematic Review*. Global Spine Journal 7(3_suppl): 95S-115S, 2017.

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Conference Proceedings:

Poster Presentations

1. Burns A, Aarabi B, Anderson P, Arnold P, Brodke DS, Chiba K, Dettori JR, Furlan JC, Harrop JS, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon B, Marino R, Martin A, Massicotte EM, Merli G, Middleton J, Nakashima H, Nagoshi H, Palmieri K, Shamji M, Singh A, Skelly AC, Tetreault L, Wilson JR, Yee A, **Fehlings M.** *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Type and Timing of Rehabilitation.* Global Spine Congress 2017, Milan, Italy, May 2-5, 2017.
2. Fehlings M, Aarabi B, Anderson PA, Arnold P, Brodke DS, Burns A, Chiba K, Dettori JR, Furlan JC, Harrop JS, Holly LT, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon B, Marino R, Martin A, Massicotte EM, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly AC, Tetreault L, Wilson JR, Yee A. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Use of Methylprednisolone Sodium Succinate.* Global Spine Congress 2017, Milan, Italy, May 2-5, 2017.
3. Harrop JS, Bizhan A, Anderson P, Arnold PM, Brodke DS, Burns A, Chiba K, Dettori JR, Furlan JC, L T H, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kwon B, Marino R, Martin A, Massicotte EM, Geno EMM, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly AC, Tetreault L, Wilson JR, Yee A, Fehlings MG. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Type and Timing of Anticoagulation Prophylaxis.* Global Spine Congress 2017, Milan, Italy, May 3-6, 2017.
4. Tetreault LA, Aarabi B, Arnold LM, Brodke DS, Burns A, Carette S, Chen R, Chiba K, Dettori JR, Furlan JC, Harrop JS, Holly LT, Kalsi-Ryan S, Kotter M, Kwon B, Martin A, Middleton J, Milligan J, Nakashima H, Nagoshi N, Rhee JM, Riew DK, Shamji M, Singh A, Skelly AC, Sodhi S, Wang JC, Wilson JC, Yee A, Fehlings MG. *A Clinical Practice Guideline for the Management of Patients with Degenerative Cervical Myelopathy: Recommendations for Patients with Mild, Moderate and Severe Disease and Nonmyelopathic Patients with Evidence of Cord Compression.* Global Spine Congress 2017, Milan, Italy, May 2-5, 2017.
5. Wilson J, Aarabi B, Anderson P, Arnold A, Brodke D, Burns A, Chiba K, Dettori J, Furlan J, Harrop J, Holly L, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon B, Marino R, Martin A, Massicotte E, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly A, Tetreault L, Yee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury and Central Cord Syndrome: Recommendations on the Timing (≤ 24 hours versus >24 hours) of Decompressive Surgery.* Global Spine Congress 2017, Milan, Italy, May 2-5, 2017.
6. Burns A, Aarabi B, Anderson P, Arnold A, Brodke D, Chiba K, Dettori J, Furlan J, Harrop J, Holly L, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon K, Marino R, Martin A, Massicotte E, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly A, Tetreault L, Wilson J, Yee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Type and Timing of Rehabilitation.* AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.
7. Fehlings M, Aarabi B, Anderson P, Arnold PA, Brodke D, Burns A, Chiba K, Dettori J, Furlan J, Harrop J, Holly L, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon K, Marino R, Martin A, Massicotte E, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly A, Tetreault L, Wilson J, Yee A. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Use of Methylprednisolone Sodium Succinate.* AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.

8. Harrop J, Aarabi B, Anderson P, Arnold A, Brodke D, Burns A, Chiba K, Dettori J, Furlan J, Holly L, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon K, Marino R, Martin A, Massicotte E, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly A, Tetreault L, Wilson J, Yee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Type and Timing of Anticoagulation Prophylaxis*. AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26, 2017.
9. Martin A, Aarabi B, Anderson P, Arnold A, Brodke D, Burns A, Chiba K, Dettori J, Furlan J, Harrop J, Holly L, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon K, Marino R, Massicotte E, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly A, Tetreault L, Wilson J, Yee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury: Recommendations on the Role of Baseline Magnetic Resonance Imaging in Clinical Decision Making and Outcome Prediction*. AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.
10. Nater A, Murray J, Tetreault L, Nouri A, Martin A, Fehlings M. *Clinical Guideline in Managing Peri-Operative Spinal Cord Injury: Results from a Survey of the AOSpine International Community*. AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.
11. Tetreault L, Aarabi B, Arnold A, Brodke D, Burns A, Carette S, Chen R, Chiba K, Dettori J, Furlan J, Harrop J, Holly L, Kalsi-Ryan K, Kotter M, Kwon K, Martin A, Middleton J, Milligan J, Nakashima H, Nagoshi N, Rhee J, Riew D, Shamji M, Singh A, Skelly A, Sodhi S, Wang J, Wilson J, Jee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Degenerative Cervical Myelopathy: Recommendations for Patients with Mild, Moderate and Severe Disease and Non myelopathic Patients with Evidence of Cord Compression*. AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.
12. Wilson JR, Aarabi B, Anderson PA, Arnold P, Brodke DS, Burns A, Chiba K, Dettori JR, Furlan JC, Harrop JS, Howley S, Jeji T, Kalsi-Ryan S, Kotter M, Kurpad S, Kwon B, Marino R, Martin A, Massicotte EM, Merli G, Middleton J, Nakashima H, Nagoshi N, Palmieri K, Shamji M, Singh A, Skelly AC, Tetreault L, Yee A, Fehlings M. *A Clinical Practice Guideline for the Management of Patients with Acute Spinal Cord Injury and Central Cord Syndrome: Recommendations on the Timing (≤ 24 hours versus >24 hours) of Decompressive Surgery*. AANS 85th Annual Scientific Meeting 2017, Los Angeles, CA, USA, April 22-26 2017.