



Publication summary of AOSpine Knowledge Forum Deformity— Evaluation of neurologic complications associated with surgical correction of adult spinal deformity (Scoli-RISK-1) project

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Peer-reviewed Journal Articles

1. Fehlings MG, Kato S, Lenke LG, Nakashima H, Nagoshi N, Shaffrey CI, Cheung KMC, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellise-Urquiza F, Lewis SJ, Berven SH. *Incidence and risk factors of postoperative neurologic decline after complex adult spinal deformity surgery: results of the Scoli-RISK-1 study.* Spine J, 2018. ***[Epub ahead of print]***

2. Kato S, Fehlings MG, Lewis SJ, Lenke LG, Shaffrey CI, Cheung KMC, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellise F, Berven SH. *An Analysis of the Incidence and Outcomes of Major Versus Minor Neurological Decline After Complex Adult Spinal Deformity Surgery: A Subanalysis of Scoli-RISK-1 Study.* Spine (Phila Pa 1976) 43(13): 905-912, 2018.



3. Kwan KYH, Bow C, Samartzis D, Lenke LG, Shaffrey CI, Carreon LY, Dahl BT, Fehlings MG, Ames CP, Boachie-Adjei O, Dekutoski MB, Kebaish KM, Lewis SJ, Matsuyama Y, Mehdian H, Pellise F, Qiu Y, Schwab FJ, Cheung KMC. *Non-neurologic adverse events after complex adult spinal deformity surgery: results from the prospective, multicenter Scoli-RISK-1 study.* Eur Spine J, 2018. ***[Epub ahead of print]***

4. Lenke LG, Shaffrey CI, Carreon LY, Cheung KMC, Dahl BT, Fehlings MG, Ames CP, Boachie-Adjei O, Dekutoski MB, Kebaish KM, Lewis SJ, Matsuyama Y, Mehdian H, Pellise F, Qiu Y, Schwab FJ, International A, Group SS-R-S. *Lower Extremity Motor Function Following Complex Adult Spinal Deformity Surgery: Two-Year Follow-up in the Scoli-RISK-1 Prospective, Multicenter, International Study.* J Bone Joint Surg Am 100(8): 656-665, 2018.



5. Miller EK, Lenke LG, Neuman BJ, Sciubba DM, Kebaish KM, Smith JS, Qiu Y, Dahl BT, Pellise F, Matsuyama Y, Carreon LY, Fehlings MG, Cheung KM, Lewis S, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Mehdian H, Bess S, Shaffrey CI, Ames CP, AOSpine Knowledge Forum Deformity, International Spine Study Group. *External Validation of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) in the Scoli-RISK-1 Patient Database.* Spine (Phila Pa 1976) 43(20): 1426-1431, 2018.



6. Tuchman A, Lenke LG, Cerpa M, Fehlings MG, Lewis SJ, Shaffrey CI, Cheung KMC, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellise F, Berven SH. *Unilateral vs. Bilateral Lower Extremity Motor Deficit Following Complex Adult Spinal Deformity Surgery: Is there a Difference in Recovery Up to 2 Year F/U?* Spine J, 2018. ***[Epub ahead of print]***

7. Carreon LY, Glassman SD, Shaffrey CI, Fehlings MG, Dahl B, Ames CP, Matsuyama Y, Qiu Y, Mehdian H, Cheung KM, Schwab FJ, Pellise F, Kebaish KM, Lenke LG. *Predictors of Health-Related Quality-of-Life After Complex Adult Spinal Deformity Surgery: A Scolio-RISK-1 Secondary Analysis*. Spine Deform 5(2): 139-144, 2017.



8. Kelly MP, Lenke LG, Godzik J, Pellise F, Shaffrey CI, Smith JS, Lewis SJ, Ames CP, Carreon LY, Fehlings MG, Schwab F, Shimer AL. *Retrospective analysis underestimates neurological deficits in complex spinal deformity surgery: a Scolio-RISK-1 Study*. J Neurosurg Spine 27(1): 68-73, 2017.



9. Lenke LG, Fehlings MG, Shaffrey CI, Cheung KM, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellise-Urquiza F, Lewis SJ, Berven SH. *Neurologic outcomes of complex adult spinal deformity surgery: results of the prospective, multicenter Scolio-Risk 1 study*. Spine (Phila Pa 1976) 41(3): 204-212, 2016.



Conference Proceedings

Podium Presentations

1. **Kwan KYH**, Bow C, Samartzis D, Lenke LG, Shaffrey CI, Carreon LY, Dahl BT, Fehlings MG, Ames CP, Boachie-Adjei O, Dekutoski MB, Kebaish KM, Lewis SJ, Matsuyama Y, Mehdian H, Pellisé F, Qiu Y, Schwab FJ, Cheung KMC. *Non-neurologic adverse events after complex adult spinal deformity surgery: results from the prospective, multicenter Scolio-RISK-1 study*. 25th International Meeting on Advanced Spine Techniques (IMAST), Los Angeles, CA, USA, July 11-14, 2018.

2. **Kato S**, Fehlings MG, Lewis SJ, Lenke LG, Shaffrey CI, Cheung KM, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé F, Berven SH. *An Analysis of the Relative Incidence and Outcomes of Minor vs. Major Neurological Decline after Complex Adult Spinal Deformity Surgery: A Sub-analysis of Scolio-RISK-1 Study*. Scoliosis Research Society (SRS) 52nd Annual Meeting & Course, Philadelphia, PA, USA, September 6-9, 2017. ***Nominated for the Russel A. Hibbs Award for Best Clinical Paper***

3. **Kato S**, Fehlings MG, Lewis SJ, Lenke LG, Shaffrey CI, Cheung KM, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Pellisé F, Berven SH, Germscheid NM. *Incidence and Risk Factors of Post-operative Neurological Decline after Complex Adult Spinal Deformity Surgery: Results of the Scolio-RISK-1 Study*. Scoliosis Research Society (SRS) 52nd Annual Meeting & Course, Philadelphia, PA, USA, September 6-9, 2017.

4. **Tuchman A**, Lenke LG, Fehlings MG, Lewis SJ, Shaffrey CI, Cheung KM, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé F, Berven SH. *Unilateral vs. Bilateral Lower Extremity Motor Deficit Following Complex Adult Spinal Deformity Surgery: Is there a Difference in Recovery Up to 2 Year F/U?* Scoliosis Research Society (SRS) 52nd Annual Meeting & Course, Philadelphia, PA, USA, September 6-9, 2017.

5. **Lenke L**, Shaffrey C, Carreon L, Cheung K, Kebaish K, Schwab F, Pellisé F, Ames C, Qiu Y, Dahl B, Fehlings M, AOSpine Knowledge Forum Deformity. *Neurologic complications following complex adult spinal deformity surgery: 2 year follow-up of the Scolio-Risk 1 prospective, multicenter, international study*. Global Spine Congress 2017, Milan, Italy, May 3-6, 2017.

6. Ames C, Carreon L, Fehlings M, **Jain A**, Kebaish F, Kebaish K, Lenke L, Schwab F, Shaffrey C. *Early postoperative surgical site infections in the Scolio-Risk 1 cohort of complex spinal deformity patients still allowed for improved health related quality of life outcomes at 2-year follow-up* AAOS 2017 Annual Meeting, San Diego, California, USA, March 14-18, 2017.
7. Jain A, Naef F, Lenke L, Carreon L, Ames C, **Fehlings M**, Dahl B, Matsuyama Y, Qiu Y, Shaffrey C, Mehdian H, Schwab F, Pellisé F, Cheung K, Kebaish K. *Impact of depression on health-related quality of life outcomes in surgically treated adult spinal deformity patients: a Scolio-Risk 1 sub-analysis*. North American Spine Society (NASS) 31st Annual Meeting, Boston, MA, USA, October 26-29, 2016.
8. **Jain A**, Naef F, Lenke L, Qiu Y, Matsuyama Y, Ames C, Fehlings M, Dahl B, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Shaffrey C, Kebaish K. *Incidence of proximal junctional kyphosis in patients with adult spinal deformity fused to the pelvis: analysis of 198 patients*. North American Spine Society (NASS) 31st Annual Meeting, Boston, MA, USA, October 26-29, 2016.
9. **Jain A**, Naef F, Lenke L, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Kebaish K. *Effect of age on postoperative complications and patient reported outcomes in severe adult spinal deformity: patients ≤60 years vs. >60 years*. North American Spine Society (NASS) 31st Annual Meeting, Boston, MA, USA, October 26-29, 2016.
10. **Jain A**, Naef F, Lenke L, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Kebaish K. *Complications and patient reported outcomes of primary vs. revision surgery for severe adult spinal deformity: a Scolio-Risk 1 sub-analysis*. North American Spine Society (NASS) 31st Annual Meeting, Boston, MA, USA, October 26-29, 2016.
11. Miller E, Lenke L, Espinoza-Rebmann K, **Neuman B**, Sciubba D, Smith J, Qiu Y, Dahl B, Matsuyama Y, Fehlings M, Cheung K, Carreon L, Ames C, AOSpine Knowledge Forum Deformity, International Spine Study Group. *Use of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to predict major complications in the Scolio-Risk 1 multicenter, international patient database*. North American Spine Society (NASS) 31st Annual Meeting, Boston, MA, USA, October 26-29, 2016.
12. **Pellisé F**, Jain A, Naef F, Lenke L, Qiu Y, Matsuyama Y, Ames C, Fehlings M, Dahl B, Cheung K, Mehdian H, Schwab F, Carreon L, Shaffrey C, Kebaish K. *Incidence of proximal junctional kyphosis in patients with adult spinal deformity fused to the pelvis: a Scolio-Risk 1 sub-analysis*. EuroSpine 2016, Berlin, Germany, October 5-7, 2016.
13. **Pellisé F**, Jain A, Naef F, Lenke L, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Carreon L, Kebaish K. *A comparison of postoperative complications and patient reported outcomes in severe adult spinal deformity patients aged ≤60 years and >60 years: a Scolio-Risk 1 sub-analysis*. EuroSpine 2016, Berlin, Germany, October 5-7, 2016.
14. **Pellisé F**, Lenke L, Shaffrey C, Carreon L, Cheung K, Kebaish K, Schwab F, Qiu Y, Dahl B, Ames C, Fehlings M, AOSpine Knowledge Forum Deformity. *Neurologic complications following complex adult spinal deformity surgery: 2-year follow-up of the Scolio-Risk 1 prospective, multicenter, international study*. EuroSpine 2016, Berlin, Germany, October 5-7, 2016.
15. Bow C, Kwan K, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, Lenke L, **Cheung K**. *Prevalence and risk factors for unplanned return to operating room for complex adult spinal deformity patients: Scolio-Risk 1 prospective multicenter international study*. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016.
16. Jain A, Naef F, Lenke L, Carreon L, Ames C, Fehlings M, Dahl B, Matsuyama Y, Qiu Y, Shaffrey C, Mehdian H, Schwab F, Pellisé F, Cheung K, **Kebaish K**. *Impact of depression on Health-Related Quality of Life outcomes in surgically*

treated adult spinal deformity patients: a Scolio-Risk 1 sub-analysis. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016.

17. Jain A, Naef F, Lenke L, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, **Kebaish K**. *Effect of age on postoperative complications and patient reported outcomes in severe adult spinal deformity: patients ≤60 years vs. >60 years*. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016.

18. **Jain A**, Naef F, Lenke L, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Kebaish K. *Complications and patient reported outcomes of primary vs. revision surgery for severe adult spinal deformity: a Scolio-Risk 1 sub-analysis*. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016.

19. **Lenke L**, Shaffrey C, Carreon L, Cheung K, Kebaish K, Schwab F, Pellisé F, Ames C, Qiu Y, Dahl B, Fehlings M, AOSpine Knowledge Forum Deformity. *Neurologic complications following complex adult spinal deformity surgery: 2-year follow-up of the Scolio-Risk 1 prospective, multicenter, international study*. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016. ***Nominated for the Russel A. Hibbs Award for Best Clinical Paper***

20. Miller E, Lenke L, Espinoza-Rebmann K, Neuman B, Sciubba D, Smith J, Qiu Y, Dahl B, Matsuyama Y, Fehlings M, Cheung K, Carreon L, **Ames C**, AOSpine Knowledge Forum Deformity, International Spine Study Group. *Use of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to predict major complication risk in the Scolio-Risk 1 patient database*. SRS: Scoliosis Research Society 51st Annual Meeting & Course, Prague, Czech Republic, September 21-24, 2016.

21. **Carreon L**, Glassman S, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Kebaish K, Lenke L. *Predictors of health-related quality-of-life after complex adult spinal deformity surgery: a Scolio-Risk 1 sub-analysis*. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, DC, USA, July 13-16, 2016.

22. Jain A, Naef Kebaish F, Lenke L, Qiu Y, Matsuyama Y, Ames C, Fehlings M, Dahl B, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Shaffrey C, **Kebaish K**. *Incidence of proximal junctional kyphosis in patients with adult spinal deformity fused to the pelvis: a Scolio-Risk 1 sub-analysis*. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, DC, USA, July 13-16, 2016. ***Winner of Whitecloud Award for Best Clinical Paper***

23. Jain A, Naef Kebaish F, Lenke LG, Ames CP, Fehlings MG, Mehdian H, Schwab FJ, Matsuyama Y, Shaffrey CI, Cheung KM, Qiu Y, Pellisé F, Carreon LY, Dahl BT, Kebaish KM. *Early postoperative surgical site infections in the Scolio-Risk 1 cohort of complex spinal deformity patients still allowed for improved Health Related Quality of Life outcomes at 2-year follow-up* 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, DC, USA, July 13-16, 2016.

24. **Saigal R**, Berven SH, Lafage V, Kelly MP, Dahl BT, Cheung KM, Yacat Carreon L, Schwab FJ, Espinoza-Rebmann K, Shaffrey CI, Fehlings MG, Lenke LG, Ames CP. *Impact of new motor deficit on early HRQOL after adult spinal deformity surgery: subanalysis of 272 patients from Scolio-Risk 1 prospective study*. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington DC, USA, July 13-16, 2016.

25. **Berven S**, Saigal R, Lafage V, Kelly M, Kopjar B, Smith J, Dahl B, Cheung K, Carreon L, Schwab F, Rebmann K, Shaffrey C, Fehlings M, Lenke L, Ames C. *Defining normative quality metrics in complex high-risk deformity cases: results from the Scolio-Risk 1 study*. SpineWeek, Singapore, May 16-20, 2016.

26. **Berven S**, Saigal R, Lafage V, Kelly M, Kopjar B, Smith J, Dahl B, Cheung K, Carreon L, Schwab F, Rebmann K, Shaffrey C, Fehlings M, Lenke L, Ames C. *Defining normative quality metrics in complex high-risk deformity cases: results from the Scolio-Risk 1 study*. Global Spine Congress 2016, Dubai, United Arab Emirates, April 13-16, 2016.

27. Bow C, **Cheung K**, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, Lenke L. *The effect of post-operative complications in complex adult spinal deformity surgery on surgical outcomes: an international, large-scale, prospective multi-center study*. Global Spine Congress 2016, Dubai, United Arab Emirates, April 13-16, 2016.
28. Fehlings M, Lenke L, **Nakashima H**, Nagoshi N, Shaffrey C, Kopjar B, Cheung K, Carreon L, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Lewis S, Berven S. *Predictors of neurological motor decline in complex adult spinal deformity surgery: results of the prospective, international, multicenter Scolio-Risk 1 study*. Global Spine Congress 2016, Dubai, United Arab Emirates, April 13-16, 2016.
29. Saigal R, Berven S, Lafage V, Kelly M, Kopjar B, Smith J, Dahl B, Cheung K, Carreon L, Schwab F, Rebmann K, **Shaffrey C**, Fehlings M, Lenke L, Ames C. *New motor deficit after spinal deformity leads to worsened early HRQOL: subanalysis of 273 patients from Scolio-Risk 1 prospective study*. Global Spine Congress 2016, Dubai, United Arab Emirates, April 13-16, 2016.
30. **Saigal R**, Berven SH, Lafage V, Kelly MP, Kopjar B, Smith JS, Dahl BT, Cheung KM, Carreon LY, Schwab FJ, Rebmann K, Shaffrey CI, Fehlings MG, Lenke LG, Ames CP. *Impact of new motor deficit on early HRQOL after adult spinal deformity surgery: subanalysis of 273 patients from Scolio-Risk 1 prospective study*. Congress of Neurological Surgeons (CNS) Annual Meeting, New Orleans, USA, September 26-30, 2015.
31. **Bow C**, Cheung K, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, Lenke L. *Risk factors for non-neurological complications in complex adult spinal deformity surgery: an international, large-scale, prospective multi-center study*. 36th SICOT Orthopaedic World Congress, Guangzhou, China, September 17-19, 2015.
32. **Bow C**, Cheung K, Samartzis D, Kwan K, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, Lenke L. *The effect of post-operative complications in complex adult spinal deformity surgery on surgical outcomes: an international, large-scale, prospective multi-center study*. 36th SICOT Orthopaedic World Congress, Guangzhou, China, September 17-19, 2015.
33. **Berven SH**, Saigal R, Lafage V, Kelly M, Kopjar B, Smith J, Dahl B, Cheung KM, Carreon LY, Schwab FJ, Rebmann K, Shaffrey CI, Fehlings MG, Lenke LG, Ames CP. *Defining normative quality metrics in complex high-risk deformity cases: results from the Scolio-Risk 1 study*. 22nd International Meeting on Advanced Spine Techniques (IMAST), Kuala Lumpur, Malaysia, July 8-11, 2015.
34. **Fehlings M**, Lenke L, Shaffrey C, Kopjar B, Cheung K, Carreon L, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé F, Lewis S, Berven S. *Pre-operative predictors of neurological motor decline in complex adult spinal deformity surgery: results of the prospective, international, multicenter Scolio-Risk 1 study in 271 patients*. 22nd International Meeting on Advanced Spine Techniques (IMAST), Kuala Lumpur, Malaysia, July 8-11, 2015. ***Winner of Whitecloud Award for Best Clinical Paper***
35. **Jain A**, Naef F, Lenke LG, Ames CP, Matsuyama Y, Dahl BT, Shaffrey CI, Qiu Y, Fehlings MG, Mehdian H, Boachie-Adjei O, Schwab FJ, Cheung KM, Carreon LY, Kebaish KM. *Analysis of Scolio-Risk 1 prospective multicenter database comparing perioperative complications and patient reported outcomes in primary vs. revision surgery for severe adult spinal deformity*. 22nd International Meeting on Advanced Spine Techniques (IMAST), Kuala Lumpur, Malaysia, July 8-11, 2015.
36. Cheung KM, **Bow C**, Samartzis D, Kwan K, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, Lenke L. *The effect of post-operative complications in complex adult spinal deformity surgery on surgical outcomes: an international, large-scale, prospective multi-center study*. Asia-Pacific Orthopaedic Association (APOA) Annual Meeting - Hong Kong 2015 - the Combined Congress of APSS, APPOS & HKIOF, Hong Kong, China, June 5-7, 2015.

37. **Pellisé F**, Domingo M, Moncho D, Rahnama K, Fehling MG, Lenke LG, Shaffrey CI, Kopjar B, Cheung KM, Carreon LY, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Lewis SJ, Berven SH. *Intraoperative NeuroMonitoring (IONM) may not predict all postoperative neurological adverse events in adult deformity surgery. A Scolio-Risk 1 trial subanalysis.* Spanish Spine Society – XXIX Congreso Nacional GEER, Malaga, Spain, June 4-6, 2015. ***Nominated for Best Paper Award***
38. Cheung KMC, Bow C, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings MG, **Lenke LG**. *Risk factors for non-neurological complications in adult spinal deformity surgery: an international, large-scale, prospective multi-center study.* Global Spine Congress 2015, Buenos Aires, Argentina, May 20-23, 2015. ***Winner of Best Paper Award***
39. Cheung KM, **Bow C**, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings MG, Lenke L. *Risk factors for non-neurological complications in adult spinal deformity surgery: an international, prospective, multi-center study of 269 cases.* Hong Kong Orthopaedic Association 34th Annual Congress (HKOA 2014), Hong Kong, China, November 15-16, 2014. ***Short-listed for the Award Paper Session***
40. Fehlings MG, Lenke LG, Shaffrey CI, Kopjar B, Cheung KM, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé F, Lewis SJ, **Berven SH**. *Risk factors for neurological complications in patients undergoing corrective surgery for spinal deformity: results of the Scolio-Risk 1 study international, prospective, multicenter study.* Scoliosis Research Society (SRS) 49th Annual Meetings & Courses, Anchorage, Alaska, USA, September 10-13, 2014. ***Nominated for the Russel A. Hibbs Award for Best Clinical Paper***
41. Lenke LG, **Fehlings MG**, Shaffrey CI, Cheung KMC, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Lewis SJ, Berven SH. *Prospective, multicenter assessment of acute neurologic complications following complex adult spinal deformity surgery: the Scolio-Risk 1 study.* 82nd American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, San Francisco, CA, USA, April 5-9, 2014.
42. **Lenke L**, Fehlings M, Shaffrey C, Cheung K, Carreon L. *Prospective, multicenter assessment of acute neurologic complications following complex adult spinal deformity surgery: the Scolio-Risk 1 trial.* North American Spine Society (NASS) 28th Annual Meeting, New Orleans, LA, USA, October 9-12, 2013.
43. **Lenke L**, Fehlings M, Shaffrey C, Cheung K, Carreon L. *Prospective, multicenter assessment of acute neurologic complications following complex adult spinal deformity surgery: the Scolio-Risk 1 trial.* Scoliosis Research Society (SRS) 48th Annual Meetings & Courses, Lyon, France, September 18-21, 2013. ***Winner of the Russel A. Hibbs Award for Best Clinical Research Presentation***
44. **Lenke LG**, Fehlings M, Shaffrey C, Cheung KMC, Carreon L. *Prospective, multicenter assessment of acute neurologic complications following complex adult spinal deformity surgery: the Scolio-Risk 1 trial.* 20th International Meeting on Advanced Spine Techniques (IMAST), Vancouver, BC, Canada, July 10-13, 2013.

Poster Presentations

1. **Kwan KYH**, Yiglor C, Alanay A, Koh HY, Cheung K. *Non-neurologic Adverse Events After Complex Adult Spinal Deformity Surgery: Results from The Prospective, Multicenter Scolio-RISK-1 Study.* Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
2. Ames C, Carreon L, Fehlings M, **Jain A**, Kebaish F, Kebaish K, Lenke L, Schwab F, Shaffrey C. *Impact of depression on health-related quality of life outcomes in surgically treated adult spinal deformity patients: A Scolio-Risk-1 sub-analysis.* AAOS 2017 Annual Meeting, San Diego, California, USA, March 14-18, 2017.

3. **Pellisé F**, Jain A, Naef F, Lenke L, Carreon L, Ames C, Fehlings M, Dahl B, Matsuyama Y, Qiu Y, Shaffrey C, Mehdian H, Schwab F, Cheung K, Kebaish K. *Impact of depression on Health-Related Quality of Life (HRQOL) outcomes in surgically treated adult spinal deformity patients: a Scolio-Risk-1 sub-analysis*. EuroSpine 2016, Berlin, Germany, October 5-7, 2016.
4. **Pellisé F**, Jain A, Naef F, Lenke L, Dahl B, Cheung K, Qiu Y, Fehlings M, Ames C, Matsuyama Y, Mehdian H, Schwab F, Carreon L, Shaffrey C, Kebaish K. *Geographical variations in practice patterns and outcomes in surgically treated adult spinal deformity patients: a Scolio-Risk-1 sub-analysis*. EuroSpine 2016, Berlin, Germany, October 5-7, 2016.
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