



Publication summary of AOSpine Knowledge Forum Tumor— The Epidemiology, Process, and Outcomes of Spine Oncology (EPOSO)

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Peer-reviewed Journal Articles:

1. Barzilai O, Versteeg AL, Sahgal A, Rhines LD, Bilsky MH, Sciubba DM, Schuster JM, Weber MH, Pal Varga P, Boriani S, Bettgowda C, Fehlings MG, Yamada Y, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, Laufer I, AOSpine Knowledge Forum Tumor. *Survival, local control, and health-related quality of life in patients with oligometastatic and polymetastatic spinal tumors: A multicenter, international study.* *Cancer* 125(5): (770-778), 2019.



2. Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Varga PP, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, Tumor AOKF. *Psychometric evaluation and adaptation of the Spine Oncology Study Group Outcomes Questionnaire to evaluate health-related quality of life in patients with spinal metastases.* *Cancer* 124(8): 1828-1838, 2018. ***AOSpine Europe Young Researcher Award 2018—First place***



Conference Proceedings

Podium Presentations

1. **Barzilai O**, Versteeg A, Sahgal A, Rhines L, Bilsky M, Sciubba D, Schuster J, Weber M, Varga P, Boriani S, Bettgowda C, Fehlings M, Yamada Y, Clarke M, Arnold P, Gokaslan Z, Fisher C, Laufer I, AOSpine Knowledge Forum Tumor. *Survival, Local Control, and Health Related Quality of Life in Oligometastatic and Polymetastatic Spinal Tumors: A Multicenter, International Study.* Global Spine Congress 2019, Toronto, ON, Canada, May 15-18, 2019.

2. **Barzilai O**, Versteeg AL, Goodwin CR, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Fehlings MG, Clarke MJ, Arnold PM, Boriani S, Bettgowda C, Gokaslan ZL, Fisher CG, Laufer I. *Impact of Neurologic Deficits on Surgical Outcomes and HRQoL Following Treatment for Metastatic Epidural Spinal Cord Compression.* Global Spine Congress 2019, Toronto, ON, Canada, May 15-18, 2019.

3. **Versteeg AL**, Sahgal A, Rhines L, Sciubba DM, Schuster JM, Weber MH, Lazary A, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG. *Patient Satisfaction After Surgery And/or Radiotherapy For Metastatic Spine Disease.* Global Spine Congress 2019, Toronto, ON, Canada, May 15-18, 2019.

4. **Versteeg AL**, Sahgal A, Rhines L, Sciubba DM, Schuster JM, Weber MH, Lazary A, Boriani S, Bettegowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG. *Developing Therapeutic Guidance For Potentially Unstable Spinal Metastases By Evaluating Health Related Quality Of Life Outcomes For Surgery And/or Radiotherapy*. Global Spine Congress 2019 Toronto, ON, Canada, May 15-18, 2019.
5. Versteeg A, Sahgal A, Rhines L, Sciubba D, Schuster J, Weber M, Lazary A, Boriani S, Bettegowda C, Fehlings M, Clarke M, Arnold P, Gokaslan Z, **Fisher C**. *Patient Satisfaction After Surgery and/or Radiotherapy for Metastatic Spine Disease*. 19th Annual Scientific Conference of the Canadian Spine Society, Toronto, ON, Canada, February 27-March 2, 2019.
6. Versteeg A, Sahgal A, Rhines L, Sciubba D, Schuster J, Weber M, Lazary A, Boriani S, Bettegowda C, Fehlings M, Clarke M, Arnold P, Gokaslan Z, **Fisher C**. *Developing Therapeutic Guidance for Potentially Unstable Spinal Metastases by Evaluating Health Related Quality of Life Outcomes for Surgery And/or Radiotherapy*. 19th Annual Scientific Conference of the Canadian Spine Society, Toronto, ON, Canada, February 27-March 2, 2019.
7. **Barzilai O**, Versteeg A, Sahgal A, Rhines L, Bilsky M, Sciubba D, Schuster J, Webber M, Varga P, Boriani S, Bettegowda C, Fehlings M, Yamada Y, Clarke M, Arnold P, Gokaslan Z, Fisher C, Laufer I. *Survival, local control, and health related quality of life in oligometastatic and polymetastatic spinal tumors: A multicenter, international study* 23rd Annual Meeting and Education Day of the Society for Neuro-Oncology, New Orleans, LA, USA, November 15, 2018. ***Top-scoring abstract***
8. **Versteeg A**, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Bettegowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG. *A multicenter prospective cohort study evaluating quality of life after radiation or surgery for potentially unstable spinal metastases*. North American Spine Society (NASS) 33rd Annual Meeting 2018, Los Angeles, CA, USA, September 26-29, 2018. ***Nominated for NASS 2018 Value Award***
9. **Sahgal A**, Versteeg AL, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Varga PP, Boriani S, Bettegowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *A multicenter prospective cohort study evaluating quality of life after radiation or surgery for potentially unstable spinal metastases*. CARO 2018 (Canadian Association of Radiation Oncology), Montreal, QC, Canada, September 12-15, 2018.
10. **Aoude A**, Versteeg A, Weber M, Sahgal A, Varga P, Sciubba D, Schuster J, Clarke M, Rhines L, Boriani S, Bettegowda C, Fehlings M, Arnold P, Gokaslan Z, Fisher C. *Steroids for the management of neurological deficits in patients undergoing surgical treatment for metastatic spine disease: a prospective case series*. Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
11. **Bond M**, Versteeg A, Sahgal A, Varga P, Sciubba D, Schuster J, Weber M, Clarke M, Rhines L, Boriani S, Bettegowda C, Fehlings M, Arnold P, Gokaslan Z, Fisher C. *Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOS) cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases*. Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
12. **Charest-Morin R**, Dea N, Versteeg AL, Sahgal A, Varga PP, Sciubba DM, Schuster JM, Weber MH, Clarke MJ, Rhines LD, Boriani S, Bettegowda C, Fehlings MG, Arnold PM, Gokaslan ZL, Fisher CG. *Sacral Metastases: A clinical case series from the Epidemiology, Process and Outcomes of Spine Oncology (EPOS) dataset*. Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
13. **Versteeg AL**, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *The refined Spine Oncology Study Group Outcome Questionnaire2.0 (SOSGOQ2.0): a reliable and valid disease-specific outcome measure* Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
14. **Bond M**, Versteeg A, Sahgal A, Varga P, Sciubba D, Schuster J, Weber M, Clarke M, Rhines L, Boriani S, Bettegowda C, Fehlings M, Arnold P, Gokaslan Z, Fisher C. *Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOS) cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases*. Spine

Summit 2018—34th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, USA, March 14-17, 2018. ***Best Presentation Abstract Award***

15. Bond M, Versteeg A, Sahgal A, Varga P, Sciubba D, Schuster J, Weber M, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, Gokaslan Z, Fisher C. *Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOSO) cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases*. 18th Annual Scientific Conference of the Canadian Spine Society (CSS) 2018, Banff, AB, Canada, February 28–March 3, 2018.

Best Paper Award

16. **Versteeg A**, Fisher CG, Gokaslan ZL, Rhines LD, Clarke MJ, Sciubba DM, Schuster JM, Fehlings MG, Arnold PM, Sahgal A, AOSpine Knowledge Forum Tumor. *Construct validity and test-retest reliability of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ)*. North American Spine Society (NASS) 32nd Annual Meeting 2017, Orlando, FL, USA, October 25-28, 2017.

17. **Dea N**, Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *Construct validity and test-retest reliability of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ)*. EuroSpine 2017, Dublin, Ireland, October 11-13, 2017.

18. Versteeg A, Sahgal A, Rhines LD, **Sciubba DM**, Schuster J, Weber M, Fehlings MG, Clarke M, Arnold P, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *The Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ): Analysis of validity and test-retest reliability*. 24th International Meeting on Advanced Spine Techniques (IMAST), Cape Town, South Africa, July 12-15, 2017.

19. **Versteeg AL**, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *Validity and Reliability of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ)*. Global Spine Congress 2017, Milan, Italy, May 3-6, 2017.

20. Versteeg AL, Sahgal A, **Lazary A**, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *Spine Oncology Study Group Outcomes Questionnaire: a valid and reliable patient reported outcome measure for spine oncology patients*. 30th European Musculo-Skeletal Oncology Society (EMSOS), Budapest, Hungary, Apr 26-28, 2017. ***Best Oral Presentation Award EMSOS2017***

21. Versteeg AL, Sahgal A, Rhines LD, **Sciubba DM**, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *Construct validity and test-retest reliability of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ)*. 85th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting 2017, Los Angeles, CA, USA, Apr 22-26, 2017.

22. **Versteeg AL**, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *Validity and test-retest reliability of the Spine Oncology Study Group Outcomes Questionnaire*. 17th Annual Scientific Conference of the Canadian Spine Society (CSS), Montreal, Quebec, Canada, Feb 22-25, 2017.

23. **Sciubba D**, Yurter A, Ju D, Gokaslan Z, Fisher C, Rhines L, Fehlings M, Fourney D, Mendel E, Laufer I, Bettgowda C, Goodwin CR, Patel S, Rampersaud R, Reynolds J, Chou D, Weber M, Clarke M. *A systematic review of clinical outcomes and prognostic factors for patients undergoing surgery for spinal metastases secondary to breast cancer*. Global Spine Congress 2015, Buenos Aires, Argentina, May 20-23, 2015.

24. **Clarke M**. *Systematic review of survival and outcomes in prostate cancer metastases to the spine*. Association for Collaborative Spine Research Meeting (ACSR), San Diego, CA, USA, January 30-February 1, 2014.

25. **Fisher C.** *Influence of clinical and histopathologic parameters in the management of metastatic disease of the spine secondary to lung cancer – a systematic review.* Association for Collaborative Spine Research Meeting (ACSR), San Diego, CA, USA, January 30-February 1, 2014.
26. **Rampersaud R.** *Determining optimal bone graft for reconstruction following surgery for metastatic spine disease: a synthesis of best available evidence and expert opinion.* Association for Collaborative Spine Research Meeting (ACSR), San Diego, CA, USA, January 30-February 1, 2014.
27. **Sciubba D.** *Systematic review of survival and outcomes in breast cancer metastases to the spine.* Association for Collaborative Spine Research Meeting (ACSR), San Diego, CA, USA, January 30-February 1, 2014.
28. **Wu AS, Fourney D.** *A systematic review of prognosis and treatment outcomes for metastatic renal cell carcinoma to the spine.* Association for Collaborative Spine Research Meeting (ACSR), San Diego, CA, USA, January 30-February 1, 2014.

Poster Presentations

1. Versteeg AL, Dea N, Sahgal A, Rhines L, Sciubba DM, Schuster JM, Weber MH, Lazary A, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG. *Surgery for spinal metastases in patients surviving less than three months; is it worthwhile?* Global Spine Congress 2019 Toronto, ON, Canada, May 15-18, 2019.
2. Sahgal A, Versteeg AL, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Varga PP, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, Gokaslan ZL, Fisher CG, AOSpine Knowledge Forum Tumor. *A multicenter prospective cohort study evaluating quality of life after radiation or surgery for potentially unstable spinal metastases.* American Society for Radiation Oncology (ASTRO) 60th Annual Meeting 2018, San Antonio, TX, USA, October 21-24, 2018.
3. Barzilai O, Versteeg A, Sahgal A, Rhines L, Sciubba D, Bilsky M, Schuster J, Weber M, Varga P, Boriani S, Bettgowda C, Fehlings M, Clarke M, Arnold P, Gokaslan Z, Fisher C, Laufer I. *Survival, Local Control, and Health Related Quality of Life in Oligometastatic and Polymetastatic Spinal Tumors: A Multicenter, International Study.* Congress of Neurological Surgeons (CNS) Annual Meeting, Houston, TX, US, October 6-10, 2018.
4. Charest-Morin R, Fisher C, Versteeg A, Sahgal A, Varga P, Sciubba D, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, Gokaslan Z, Dea N. *Clinical presentation, management and outcomes of sacral metastases: a multicentre, prospective case series.* Congress of Neurological Surgeons (CNS) Annual Meeting, Houston, TX, USA, October 6-10, 2018.
5. Bond M, Versteeg A, Sahgal A, Varga P, Sciubba D, Clarke M, Rhines L, Boriani S, Fehlings M, Arnold P, Fisher C. *Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOS) Cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases.* North American Spine Society (NASS) 33rd Annual Meeting, Los Angeles, CA, USA, September 26-29, 2018.
6. Charest-Morin R, Fisher C, Versteeg A, Sahgal A, Varga P, Sciubba D, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, Gokaslan Z, Dea N. *Clinical presentation, management and outcomes of sacral metastases: a multicentre, prospective case series.* North American Spine Society (NASS) 33rd Annual Meeting 2018, Los Angeles, CA, USA, September 26-29, 2018.
7. Bond M, Versteeg A, Sahgal A, Varga P, Sciubba D, Schuster J, Weber M, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, Gokaslan Z, Fisher C. *Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOS) cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases.* 86th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting 2018, New Orleans, LA, USA, April 28-May 2, 2018.

8. Charest-Morin R, Dea N, Versteeg AL, Sahgal A, Varga PP, Sciubba DM, Schuster JM, Weber MH, Clarke MJ, Rhines LD, Boriani S, Bettgowda C, Fehlings MG, Arnold PM, Gokaslan ZL, Fisher CG. *Clinical presentation, management, and outcomes of sacral metastases: a multicentre, prospective case series*. 18th Annual Scientific Conference of the Canadian Spine Society (CSS), Banff, AB, Canada, February 28-March 3, 2018.

9. Clarke M, Molina C, Fournay D, Fisher C, Gokaslan Z, Schmidt M, Rhines L, Fehlings M, Laufer I, Patel S, Rampersaud R, Reynolds J, Chou D, Bettgowda C, Mendel E, Weber M, Sciubba D. *Systematic review of surgical treatment outcomes of prostate metastases to the spine*. Global Spine Congress 2015, Buenos Aires, Argentina, May 20-23, 2015.