

TAMIR AILON

MD, MPH, FRCSC

604.675.2418 | 818 W. 10th Ave., Vancouver, BC, V5Z 1M9 | tamir.ailon@vch.ca

[ResearchGate Profile](#) | [PubMed Bibliography](#)

WORK

Spinal Neurosurgeon – Vancouver Spine Surgery Institute Aug 15 - present
Vancouver General Hospital

Clinical Assistant Professor – University of British Columbia Aug 17 - present

ACADEMIC

Spine Fellowship – Complex Spine and Adult Deformity Jul 14 – Jun 15
Dr. Christopher I Shaffrey, Dr. Justin S Smith

Master of Public Health – Harvard University Jul 13 – Jun 14

- Program in Clinical Effectiveness (Jul - Aug 13)
- Epidemiology
- Advanced biostatistics

Neurosurgery Residency, University of British Columbia Jul 07 - Jun 13

- Dr. I.B. Holubitsky Memorial award – Top Surgical Resident (13)
- Felix Durity Postgraduate award (13)
- Best resident presentation UBC Neurosurgery Research Day (11,12)
- Best resident presentation BC Neuroscience Day (10)
- Lougheed Microsurgical Course (12)
- Calgary Spine and Peripheral Nerve Course (2010)

Medical Doctor, 2007 Class - University of British Columbia Aug 03- May 07

Scholarships/Awards

- Honours standing
- David and Anne Beach Scholarship (06)
- George W. Leroux Memorial Scholarship (06)
- Ted and Fiona Leung Memorial Scholarship (06)
- Dr. Ernest Roland Meyers Scholarship (05)
- Summer Research Studentship Award, Child & Family Research Institute (05)
- Thomas and Myrtle Gibson Memorial Scholarship (05)
- UBC Faculty of Medicine Scholarship (05)
- Successfully achieved Honours standing (04-05)
- MDS Metro Laboratory Services Prize in Clinical Pathology (04)
- Margaret Ho Scholarship in Medicine (04)
- Richard Owen Memorial Prize (04)
- Dr. Ernest Roland Meyers Scholarship (03)

Bachelor of Science, Behavioural neuroscience - UBC Aug 98-Apr. 03
Vancouver, Canada

- Achieved Dean's Honour Roll (98-02) & Golden Key Honour Society (01-03)
- Undergraduate Scholarship Program Awards (02-03)
- F.W. Muir Scholarship (01)
- Outstanding Student Initiative Scholarships (99-00)

RESEARCH

Grants

Grant	Principle Investigators	Project Title	Amount
Orthopaedic Research Excellence Fund (OREF)	Charles Fisher Co-Investigators: Tamir Ailon John Street	Management and Outcome of Cervical Spondylotic Myelopathy – A Standardized Clinical Assessment and Management Plan	\$ 24000 CDN

Awards

Debbie Scarlet Award, Best Overall Paper, 2016 Canadian Spine Society, “Classifying Injury Severity and Predicting Neurologic Outcome after Acute Human Spinal Cord Injury with Cerebrospinal Fluid Biomarkers”, Kwon BK, Streijger F, Fallah N, Noonan V, Belanger L, Ritchie L, Boyd M, Paquette S, Street J, Ailon T, Fisher CG, Dvorak MF. Whistler, BC, February 2016.

Published Articles

1. [Patient-Reported Outcomes Following Surgery for Lumbar Disc Herniation: Comparison of a Universal and Multitier Health Care System.](#)
Ayling OG, **Ailon T**, Craig M, Dea N, McIntosh G, Abraham E, Jacobs WB, Johnson MG, Paquet J, Yee A, Hall H, Bailey C, Manson N, Rampersaud YR, Thomas K, Fisher CG. *Global Spine J.* 2021 Sep 25:21925682211046961. doi: 10.1177/21925682211046961. Online ahead of print.PMID: 34569331
2. [Time to return to work after elective lumbar spine surgery.](#)
Singh S, **Ailon T**, McIntosh G, Dea N, Paquet J, Abraham E, Bailey CS, Weber MH, Johnson MG, Nataraj A, Glennie RA, Attabib N, Kelly A, Hall H, Rampersaud YR, Manson N, Phan P, Thomas K, Fisher CG, Charest-Morin R. *J Neurosurg Spine.* 2021 Sep 24:1-9. doi: 10.3171/2021.2.SPINE202051. Online ahead of print.PMID: 34560636
3. [Development of a machine learning algorithm for predicting in-hospital and 1-year mortality after traumatic spinal cord injury.](#)
Fallah N, Noonan VK, Waheed Z, Rivers CS, Plashkes T, Bedi M, Etmnan M, Thorogood NP, **Ailon T**, Chan E, Dea N, Fisher C, Charest-Morin R, Paquette S, Park S, Street JT, Kwon BK, Dvorak MF. *Spine J.* 2021 Aug 20:S1529-9430(21)00853-6. doi: 10.1016/j.spinee.2021.08.003. Online ahead of print.PMID: 34419627
4. [National adverse event profile after lumbar spine surgery for lumbar degenerative disorders and comparison of complication rates between hospitals: a CSORN registry study.](#)
Ayling OGS, Charest-Morin R, Eagles ME, **Ailon T**, Street JT, Dea N, McIntosh G, Christie SD, Abraham E, Jacobs WB, Bailey CS, Johnson MG, Attabib N, Jarzem P, Weber M, Paquet J, Finkelstein J, Stratton A, Hall H, Manson N, Rampersaud YR, Thomas K, Fisher CG. *J Neurosurg Spine.* 2021 Aug 20:1-6. doi: 10.3171/2021.2.SPINE202150. Online ahead of print.PMID: 34416721

5. [The impact of frailty on patient-reported outcomes after elective thoracolumbar degenerative spine surgery.](#)
Beauchamp-Chalifour P, Flexman AM, Street JT, Fisher CG, **Ailon T**, Dvorak MF, Kwon BK, Paquette SJ, Dea N, Charest-Morin R. *J Neurosurg Spine*. 2021 Aug 6:1-9. doi: 10.3171/2021.2.SPINE201879. Online ahead of print. PMID: 34359047
6. [Characterization of Hyperacute Neuropathic Pain after Spinal Cord Injury: A Prospective Study.](#)
Rosner J, Negraeff M, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Christie S, Wilson JR, Dhall S, Charest-Morin R, Street J, **Ailon T**, Paquette S, Dea N, Fisher CG, Dvorak MF, Finnerup NB, Kwon BK, Kramer JLK. *J Pain*. 2021 Jul 21:S1526-5900(21)00290-X. doi: 10.1016/j.jpain.2021.06.013. Online ahead of print. PMID: 34302956
7. [Proteomic Portraits Reveal Evolutionarily Conserved and Divergent Responses to Spinal Cord Injury.](#)
Skinnider MA, Rogalski J, Tigchelaar S, Manouchehri N, Prudova A, Jackson AM, Nielsen K, Jeong J, Chaudhary S, Shortt K, Gallagher-Kurtzke Y, So K, Fong A, Gupta R, Okon EB, Rizzuto MA, Dong K, Streijger F, Belanger L, Ritchie L, Tsang A, Christie S, Mac-Thiong JM, Bailey C, **Ailon T**, Charest-Morin R, Dea N, Wilson JR, Dhall S, Paquette S, Street J, Fisher CG, Dvorak MF, Shannon C, Borchers C, Balshaw R, Foster LJ, Kwon BK. *Mol Cell Proteomics*. 2021 Jun 12;20:100096. doi: 10.1016/j.mcpro.2021.100096. Online ahead of print. PMID: 34129941
8. [Characterization of Cerebrospinal Fluid Ubiquitin C-Terminal Hydrolase L1 as a Biomarker of Human Acute Traumatic Spinal Cord Injury.](#)
Stukas S, Gill J, Cooper J, Belanger L, Ritchie L, Tsang A, Dong K, Streijger F, Street J, Paquette S, **Ailon T**, Dea N, Charest-Morin R, Fisher CG, Dhall S, Mac-Thiong JM, Wilson JR, Bailey C, Christie S, Dvorak MF, Wellington C, Kwon BK. *J Neurotrauma*. 2021 Aug 1;38(15):2055-2064. doi: 10.1089/neu.2020.7352. Epub 2021 May 3. PMID: 33504255
9. [Lumbar degenerative spondylolisthesis: factors associated with the decision to fuse.](#)
Schneider N, Fisher C, Glennie A, Urquhart J, Street J, Dvorak M, Paquette S, Charest-Morin R, **Ailon T**, Manson N, Thomas K, Rasoulinejad P, Rampersaud R, Bailey C. *Spine J*. 2020 Nov 25:S1529-9430(20)31246-8. doi: 10.1016/j.spinee.2020.11.010. Online ahead of print. PMID: 33248271
10. [The Effect of Perioperative Adverse Events on Long-Term Patient-Reported Outcomes After Lumbar Spine Surgery.](#)
Ayling OGS, **Ailon T**, Street JT, Dea N, McIntosh G, Abraham E, Jacobs WB, Soroceanu A, Johnson MG, Paquet J, Rasoulinejad P, Phan P, Yee A, Christie S, Nataraj A, Glennie RA, Hall H, Manson N, Rampersaud YR, Thomas K, Fisher CG. *Neurosurgery*. 2020 Oct 2:nyaa427. doi: 10.1093/neuros/nyaa427. Online ahead of print. PMID: 33009559
11. [Effectiveness of silver alloy-coated silicone urinary catheters in patients with acute traumatic cervical spinal cord injury: Results of a quality improvement initiative.](#)
Banaszek D, Inglis T, Ritchie L, Belanger L, **Ailon T**, Charest-Morin R, Dea N, Kwon BK, Paquette S, Fisher CG, Dvorak MF, Street JT. *J Clin Neurosci*. 2020 Jun 11:S0967-5868(20)30904-8. doi: 10.1016/j.jocn.2020.05.036. Online ahead of print. PMID: 32536507
12. [The influence of neurological examination timing within hours after acute traumatic spinal cord injuries: an observational study.](#)
Evaniew N, Sharifi B, Waheed Z, Fallah N, **Ailon T**, Dea N, Paquette S, Charest-Morin R, Street J, Fisher CG, Dvorak MF, Noonan VK, Rivers CS, Kwon BK. *Spinal Cord*. 2020 Feb;58(2):247-254. doi: 10.1038/s41393-019-0359-0. Epub 2019 Oct 8. PMID: 31595042

13. [Perioperative adverse events following surgery for primary bone tumors of the spine and en bloc resection for metastases.](#)
Charest-Morin R, Flexman AM, Srinivas S, Fisher CG, Street JT, Boyd MC, **Ailon T**, Dvorak MF, Kwon BK, Paquette SJ, Dea N. *J Neurosurg Spine*. 2019 Sep 27;1-8. doi: 10.3171/2019.6.SPINE19587. Online ahead of print. PMID: 31561231
14. [Sarcopenia, but not frailty, predicts early mortality and adverse events after emergent surgery for metastatic disease of the spine.](#)
Bourassa-Moreau É, Versteeg A, Moskven E, Charest-Morin R, Flexman A, **Ailon T**, Dalkilic T, Fisher C, Dea N, Boyd M, Paquette S, Kwon B, Dvorak M, Street J. *Spine J*. 2020 Jan;20(1):22-31. doi: 10.1016/j.spinee.2019.08.012. Epub 2019 Sep 1. PMID: 31479782
15. [Empirical targets for acute hemodynamic management of individuals with spinal cord injury.](#)
Squair JW, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Parent S, Christie S, Bailey C, Dhall S, Charest-Morin R, Street J, **Ailon T**, Paquette S, Dea N, Fisher CG, Dvorak MF, West CR, Kwon BK. *Neurology*. 2019 Sep 17;93(12):e1205-e1211. doi: 10.1212/WNL.00000000000008125. Epub 2019 Aug 13. PMID: 31409736
16. [Effect of Frailty on Outcome after Traumatic Spinal Cord Injury.](#)
Banaszek D, Inglis T, Marion TE, Charest-Morin R, Moskven E, Rivers CS, Kurban D, Flexman AM, **Ailon T**, Dea N, Kwon BK, Paquette S, Fisher CG, Dvorak MF, Street JT. *J Neurotrauma*. 2020 Mar 15;37(6):839-845. doi: 10.1089/neu.2019.6581. Epub 2019 Nov 8. PMID: 31407621
17. [Development of a Novel Cervical Deformity Surgical Invasiveness Index.](#)
Passias PG, Horn SR, Soroceanu A, Oh C, Ailon T, Neuman BJ, Lafage V, Lafage R, Smith JS, Line B, Bortz CA, Segreto FA, Brown A, Alas H, Pierce KE, Eastlack RK, Sciubba DM, Protosaltis TS, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP; International Spine Study Group.
Spine (Phila Pa 1976). 2019 Jul 29. doi: 10.1097/BRS.0000000000003175. [Epub ahead of print] PMID: 31361727
18. [Decision tree analysis to better control treatment effects in spinal cord injury clinical research.](#)
Tee JW, Rivers CS, Fallah N, Noonan VK, Kwon BK, Fisher CG, Street JT, Ailon T, Dea N, Paquette S, Dvorak MF.
J Neurosurg Spine. 2019 Jun 14;1-9. doi: 10.3171/2019.3.SPINE18993. [Epub ahead of print] PMID:31200369
19. [MicroRNA Biomarkers in Cerebrospinal Fluid and Serum Reflect Injury Severity in Human Acute Traumatic Spinal Cord Injury.](#)
Tigchelaar S, Gupta R, Shannon CP, Streijger F, Sinha S, Flibotte S, Rizzuto MA, Street J, Paquette S, Ailon T, Charest-Morin R, Dea N, Fisher C, Dvorak MF, Dhall S, Mac-Thiong JM, Parent S, Bailey C, Christie S, Van Keuren-Jensen K, Nislow C, Kwon BK.
J Neurotrauma. 2019 May 14. doi: 10.1089/neu.2018.6256. [Epub ahead of print] PMID:30827169
20. [Clinical outcomes research in spine surgery: what are appropriate follow-up times?](#)
Ayling OGS, **Ailon T**, McIntosh G, Soroceanu A, Hall H, Nataraj A, Bailey CS, Christie S, Stratton A, Ahn H, Johnson M, Paquet J, Thomas K, Manson N, Rampersaud YR, Fisher CG. *J Neurosurg Spine*. 2018 Dec 21;30(3):397-404. doi: 10.3171/2018.8.SPINE18715. PMID:30579264
21. ['After-hours' non-elective spine surgery is associated with increased perioperative adverse events in a quaternary center.](#)
Charest-Morin R, Flexman AM, Bond M, **Ailon T**, Dea N, Dvorak M, Kwon B, Paquette S, Fisher CG, Street J. *Eur Spine J*. 2019 Apr;28(4):817-828. doi: 10.1007/s00586-018-5848-x. Epub 2018 Dec 6. PMID: 30523460

22. [Patient Reported Outcomes Following Surgery for Degenerative Spondylolisthesis: Comparison of a Universal and Multi-Tier Health Care System.](#)
Ailon T, Tee J, Manson N, Hall H, Thomas K, Rampersaud YR, Yee A, Dea N, Glennie A, Bailey C, Christie S, Weber MH, Nataraj A, Paquet J, Johnson M, Norton J, Ahn H, McIntosh G, Fisher CG. Spine J. 2019 Jan;19(1):24-33. doi: 10.1016/j.spinee.2018.10.005. Epub 2018 Oct 10. PMID:30312774
23. [Development of a Preoperative Predictive Model for Reaching the Oswestry Disability Index Minimal Clinically Important Difference for Adult Spinal Deformity Patients.](#)
Scheer JK, Osorio JA, Smith JS, Schwab F, Hart RA, Hostin R, Lafage V, Jain A, Burton DC, Bess S, Ailon T, Protosaltis TS, Klineberg EO, Shaffrey CI, Ames CP; International Spine Study Group. Spine Deform. 2018 Sep - Oct;6(5):593-599. doi: 10.1016/j.jspd.2018.02.010. PMID:30122396
24. [Patients with Adult Spinal Deformity with Previous Fusions Have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-Related Quality of Life Measures but Do Not Reach the Same Absolute Level of Improvement.](#)
Ailon T, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Kim HJ, Gum J, Hostin R, Kelly MP, Glassman S, Scheer JK, Bess S, Ames CP; International Spine Study Group. World Neurosurg. 2018 May 9. pii: S1878-8750(18)30924-0. doi: 10.1016/j.wneu.2018.04.204. [Epub ahead of print] PMID:29751181
25. [Radiographic Fusion Grade Does Not Impact Health Related Quality of Life in the Absence of Instrumentation Failure for Patients Undergoing Posterior Instrumented Fusion for Adult Spinal Deformity.](#)
Ailon T, Hamilton DK, Klineberg E, Daniels AH, Lafage V, Bess S, Burton DC, Gupta M, Schwab F, Ames CP, Smith JS, Shaffrey CI, Hart RA; International Spine Study Group. World Neurosurg. 2018 Apr 27. pii: S1878-8750(18)30847-7. doi: 10.1016/j.wneu.2018.04.127. [Epub ahead of print] PMID: 29709744
26. [Predictive Modeling of Length of Hospital Stay Following Adult Spinal Deformity Correction: Analysis of 653 Patients with an Accuracy of 75% within 2 Days.](#)
Safae MM, Scheer JK, Ailon T, Smith JS, Hart RA, Burton DC, Bess S, Neuman BJ, Passias PG, Miller E, Shaffrey CI, Schwab F, Lafage V, Klineberg EO, Ames CP; International Spine Study Group. World Neurosurg. 2018 Jul;115:e422-e427. doi: 10.1016/j.wneu.2018.04.064. Epub 2018 Apr 17. PMID: 29678702
27. [Pseudarthrosis in adult and pediatric spinal deformity surgery: a systematic review of the literature and meta-analysis of incidence, characteristics, and risk factors.](#)
How NE, Street JT, Dvorak MF, Fisher CG, Kwon BK, Paquette S, Smith JS, Shaffrey CI, Ailon T. Neurosurg Rev. 2018 Feb 6. doi: 10.1007/s10143-018-0951-3. [Epub ahead of print] Review. PMID: 29411177
28. [Frailty and Health-Related Quality of Life Improvement Following Adult Spinal Deformity Surgery.](#)
Reid DBC, Daniels AH, Ailon T, Miller E, Sciubba DM, Smith JS, Shaffrey CI, Schwab F, Burton D, Hart RA, Hostin R, Line B, Bess S, Ames CP; International Spine Study Group. World Neurosurg. 2018 Apr;112:e548-e554. doi:10.1016/j.wneu.2018.01.079. Epub 2018 Jan 31. PMID: 29360585
29. [Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment With 1-Year Follow-up.](#)
Ailon T, Smith JS, Shaffrey CI, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protosaltis T, Neuman B, Daniels A, Scheer JK, Soroceanu A, Hart R, Hostin R, Burton D, Deviren V, Albert TJ, Riew KD, Bess S, Ames CP; International Spine Study Group. Neurosurgery. 2017 Dec 21. doi: 10.1093/neuros/nyx574. [Epub ahead of print] PMID: 29281107
30. [An assessment of frailty as a tool for risk stratification in adult spinal deformity surgery.](#)

- Miller EK, Neuman BJ, Jain A, Daniels AH, **Ailon** T, Sciubba DM, Kebaish KM, Lafage V, Scheer JK, Smith JS, Bess S, Shaffrey CI, Ames CP; International Spine Study Group. *Neurosurg Focus*. 2017 Dec;43(6):E3. doi: 10.3171/2017.10.FOCUS17472. PMID: 29191099
31. [Assessment of a novel adult cervical deformity frailty index as a component of preoperative risk stratification.](#) Miller EK, **Ailon** T, Neuman BJ, Klineberg EO, Mundis GM Jr, Sciubba DM, Kebaish KM, Lafage V, Scheer JK, Smith JS, Hamilton DK, Bess S, Shaffrey CI, Ames CP; International Spine Study Group. *World Neurosurg*. 2017 Oct 26. pii: S1878-8750(17)31820-X. doi: 10.1016/j.wneu.2017.10.092. [Epub ahead of print] PMID: 29107159
 32. [Predicting Injury Severity and Neurological Recovery after Acute Cervical Spinal Cord Injury: A Comparison of Cerebrospinal Fluid and Magnetic Resonance Imaging Biomarkers.](#) Dalkilic T, Fallah N, Noonan VK, Salimi Elizei S, Dong K, Belanger L, Ritchie L, Tsang A, Bourassa-Moreau E, Heran MKS, Paquette SJ, **Ailon** T, Dea N, Street J, Fisher CG, Dvorak MF, Kwon BK. *J Neurotrauma*. 2017 Nov 6. doi: 10.1089/neu.2017.5357. [Epub ahead of print] PMID: 29037121
 33. [Spinal cord perfusion pressure predicts neurologic recovery in acute spinal cord injury.](#) Squair JW, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Parent S, Christie S, Bailey C, Dhall S, Street J, **Ailon** T, Paquette S, Dea N, Fisher CG, Dvorak MF, West CR, Kwon BK. *Neurology*. 2017 Oct 17;89(16):1660-1667. doi: 10.1212/WNL.0000000000004519. Epub 2017 Sep 15. PMID: 28916535
 34. [The Fate of Patients with Adult Spinal Deformity Incurring Rod Fracture After Thoracolumbar Fusion.](#) Hamilton DK, Buza JA 3rd, Passias P, Jalai C, Kim HJ, **Ailon** T, Gupta M, Sciubba D, Jain A, Ames CP, Deviren V, Daniels A, Lafage V, Bess S, Klineberg E, Shaffrey CI, Smith JS, Hart R; International Spine Study Group. *World Neurosurg*. 2017 Oct;106:905-911. doi: 10.1016/j.wneu.2017.07.061. Epub 2017 Jul 20. PMID: 28735127
 35. [Frailty and sarcopenia do not predict adverse events in an elderly population undergoing non-complex primary elective surgery for degenerative conditions of the lumbar spine.](#) Charest-Morin R, Street J, Zhang H, Roughead T, **Ailon** T, Boyd M, Dvorak M, Kwon B, Paquette S, Dea N, Fisher CG, Flexman AM. *Spine J*. 2017 Jul 12. pii: S1529-9430(17)30321-2. doi: 10.1016/j.spinee.2017.07.003. [Epub ahead of print] PMID: 28709946
 36. [Development and Validation of a Novel Adult Spinal Deformity Surgical Invasiveness Score: Analysis of 464 Patients.](#) Neuman BJ, **Ailon** T, Scheer JK, Klineberg E, Sciubba DM, Jain A, Zebala LP, Passias PG, Daniels AH, Burton DC, Protosaltis TS, Hamilton DK, Ames CP. *Neurosurgery*. 2017 Jun 6. doi: 10.1093/neuros/nyx303. [Epub ahead of print] PMID: 28586476
 37. [The role of revision surgery and adjuvant therapy following subtotal resection of osteosarcoma of the spine: a systematic review with meta-analysis.](#) Shankar GM, Clarke MJ, **Ailon** T, Rhines LD, Patel SR, Sahgal A, Laufer I, Chou D, Bilsky MH, Sciubba DM, Fehlings MG, Fisher CG, Gokaslan ZL, Shin JH. *J Neurosurg Spine*. 2017 Jul;27(1):97-104. doi: 10.3171/2016.12.SPINE 16995. Epub 2017 Apr 28. Review. PMID:28452631
 38. [Rare Complications of Cervical Spine Surgery: Pseudomeningocele.](#) **Ailon** T, Smith JS, Nassr A, Smith ZA, Hsu WK, Fehlings MG, Fish DE, Wang JC, Hilibrand AS, Mummaneni PV, Chou D, Sasso RC, Traynelis VC, Arnold PM, Mroz TE, Buser Z, Lord EL, Massicotte EM, Sebastian AS, Than KD, Steinmetz MP, Smith GA, Pace J, Corriveau M, Lee S, Riew KD, Shaffrey C. *Global Spine J*. 2017 Apr;7(1 Suppl):109S-114S. doi: 10.1177/2192568216687769. Epub 2017 Apr 1. PMID: 28451481
 39. [Factors predictive of topographical accuracy in spine level localization.](#) Tee JW, Rutges J, Marion T, Street J, Paquette S, **Ailon** T, Kwon BK, Dvorak M, Boyd M. *J Spine Surg*. 2017 Mar;3(1):23-30. doi: 10.21037/jss.2017.02.06. PMID: 28435914

40. [A prospective serial MRI study following acute traumatic cervical spinal cord injury.](#) Rutges JPHJ, Kwon BK, Heran M, **Ailon** T, Street JT, Dvorak MF. Eur Spine J. 2017 Apr 19. doi: 10.1007/s00586-017-5097-4. [Epub ahead of print] PMID: 28425069
41. [The Health Impact of Adult Cervical Deformity in Patients Presenting for Surgical Treatment: Comparison to United States Population Norms and Chronic Disease States Based on the EuroQuol-5 Dimensions Questionnaire.](#) Smith JS, Line B, Bess S, Shaffrey CI, Kim HJ, Mundis G, Scheer JK, Klineberg E, O'Brien M, Hostin R, Gupta M, Daniels A, Kelly M, Gum JL, Schwab FJ, Lafage V, Lafage R, **Ailon** T, Passias P, Protopsaltis T, Albert TJ, Riew KD, Hart R, Burton D, Deviren V, Ames CP, Group ISS. Neurosurgery. 2017 May 1;80(5):716-725. doi: 10.1093/neuros/nyx028. PMID: 28368524
42. [Development of a preoperative predictive model for major complications following adult spinal deformity surgery.](#) Scheer JK, Smith JS, Schwab F, Lafage V, Shaffrey CI, Bess S, Daniels AH, Hart RA, Protopsaltis TS, Mundis GM Jr, Sciubba DM, **Ailon** T, Burton DC, Klineberg E, Ames CP; International Spine Study Group. J Neurosurg Spine. 2017 Jun;26(6):736-743. doi: 10.3171/2016.10.SPINE16197. Epub 2017 Mar 24. PMID: 28338449
43. [A Targeted Proteomics Analysis of Cerebrospinal Fluid after Acute Human Spinal Cord Injury.](#) Streijger F, Skinnider MA, Rogalski JC, Balshaw R, Shannon CP, Prudova A, Belanger L, Ritchie L, Tsang A, Christie S, Parent S, Mac-Thiong JM, Bailey C, Urquhart J, **Ailon** T, Paquette S, Boyd M, Street J, Fisher CG, Dvorak MF, Borchers CH, Foster LJ, Kwon BK. J Neurotrauma. 2017 Jun 15;34(12):2054-2068. doi: 10.1089/neu.2016.4879. Epub 2017 Apr 7.
44. [Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum for Identifying Biomarkers of Injury Severity after Acute Human Spinal Cord Injury.](#) Wu Y, Streijger F, Wang Y, Lin G, Christie S, Mac-Thiong JM, Parent S, Bailey CS, Paquette S, Boyd MC, **Ailon** T, Street J, Fisher CG, Dvorak MF, Kwon BK, Li L. Sci Rep. 2016 Dec 14;6:38718. doi: 10.1038/srep38718. PMID: 27966539
45. [Adult Spinal Deformity Surgeons Are Unable to Accurately Predict Postoperative Spinal Alignment Using Clinical Judgment Alone.](#) **Ailon** T, Scheer JK, Lafage V, Schwab FJ, Klineberg E, Sciubba DM, Protopsaltis TS, Zebala L, Hostin R, Obeid I, Koski T, Kelly MP, Bess S, Shaffrey CI, Smith JS, Ames CP; International Spine Study Group. Spine Deform. 2016 Jul;4(4):323-329. doi: 10.1016/j.jspd.2016.02.003. PMID: 27927523
46. [Mean Arterial Blood Pressure Management of Acute Traumatic Spinal Cord Injured Patients during the Pre-Hospital and Early Admission Period.](#) Tee JW, Altaf F, Belanger L, Ailon T, Street J, Paquette S, Boyd M, Fisher CG, Dvorak MF, Kwon BK. J Neurotrauma. 2017. Mar 15;34(6):1271-1277. doi: 10.1089/neu.2016.4689. PMID: 27912248
47. [Treatment of Facet Injuries in the Cervical Spine.](#) Khezri N, **Ailon** T, Kwon BK. Neurosurg Clin N Am. 2017 Jan;28(1):125-137. doi: 10.1016/j.nec.2016.07.005. Review. PMID: 27886874
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Abstracts / Presentations

Development of Validated Computer Based Pre-operative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy Based on 510 ASD Patients with 2-year Follow-up.

Scheer JK, Osorio JA, Smith JS, Schwab F, Lafage V, Hart RA, Bess S, Line B, Diebo BG, Protopsaltis TS, Jain A, Ailon T, Burton DC, Shaffrey CI, Klineberg E, Ames CP; and the International Spine Study Group. Spine (Phila Pa 1976).

- Canadian Spine Society, Whistler, 2016; Scoliosis Research Society, Minneapolis, 2015.

Impact of preoperative depression on 2-year clinical outcomes following adult spinal deformity surgery: the importance of risk stratification based on type of psychological distress. Theologis AA, Ailon T, Scheer JK, Smith JS, Shaffrey CI, Bess S, Gupta M, Klineberg EO, Kebaish K, Schwab F, Lafage V, Burton D, Hart R, Ames CP; International Spine Study Group.

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Prospective multicenter assessment of complication rates associated with adult spinal deformity surgery in 291 patients with minimum 2-year follow-up.

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Assessment of Impact of Long-Cassette Standing Radiographs on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons

- Canadian Spine Society and AANS/CNS Joint Section meetings Feb and March, 2015

Use of the Spine Adverse Events Severity (SAVES) System to Categorize and Report Adverse Events in Spine Surgery.

- Poster presentation at Canadian Spine Society meeting – Feb, 2015

Proximal Junctional Angle Predicts Need for Revision but Not Deterioration in Sagittal Radiographic Parameters After Adult Spinal Deformity Surgery

Tamir Ailon, Justin Scheer, Christopher Ames, Robert Hart, Eric Klineberg, Virginie LaFage, Shay Bess, Douglas Burton, Munish Gupta, Themistocles Protopsaltis, Richard Hostin, Frank Schwab, Justin Smith, Christopher Shaffrey, International Spine Study Group

- Podium presentation SRS 2015 and NASS 2015

Failure of Fusion Does not Impact Two-Year Health Related Quality of Life Unless Rod Fracture Occurs for Adult Spinal Deformity

Tamir Ailon, D. Kojo Hamilton, Robert Hart, Erik Klineberg, Virginie Lafage Shay Bess, Douglas Burton, Munish Gupta, Justin S. Smith, Chris I. Shaffrey, International Spine Study Group

- Podium presentation, SRS 2015

Characterization of Distribution of Segmental Changes in Cervical Alignment After Lumbar Pedicle Subtraction Osteotomy

Tamir Ailon, Justin Scheer, Justin Smith, Christopher Shaffrey, Virginie LaFage, Themistocles Protopsaltis, Christopher Ames, International Spine Study Group

- Accepted poster, European Cervical Spine Research Society 2015

Development and Validation of a Novel Adult Spinal Deformity Surgical Invasiveness Score: Analysis of 464 patients

Brian Neuman, Justin Scheer, Tamir Ailon, Eric Klineberg, Daniel Sciubba, Amit Jain, Han Jo Kim, Lukas Zebala, Peter Passias, Alan Daniels, Douglas Burton, Themistocles Protopsaltis, D.Kojo Hamilton, Christopher Ames, International Spine Study Group

- Podium presentation, IMAST 2015

The impact of depression on 2-year outcomes after adult spinal deformity surgery

Alexander Theologis, Justin Scheer, Tamir Ailon, Justin Smith, Christopher Shaffrey, Shay Bess, Munish Gupta, Eric Klineberg, Khaled Kebaish, Frank Schwab, Virginie LaFage, Douglas Burton, Robert Hart, Christopher Ames, International Spine Study Group

- Podium presentation, IMAST 2015

Larger global sagittal correction with Pedicle Subtraction Osteotomy is associated with increased PJK and major complications, but better correction and HRQL scores

Alex Soroceanu, Justin S. Smith, Virginie LaFage, Eric O. Klineberg, Tamir Ailon, Christopher P. Ames, Christopher I. Shaffrey, Munish Chandra Gupta, Gregory M. Mundis, Khaled M Kebaish, Daniel M. Sciubba, Robert A. Hart, Richard Hostin, Frank J. Schwab, International Spine Study Group

- Podium presentation IMAST 2015

Development of a Validated Computer Based Preoperative Predictive Model for Reaching ODI MCID for Adult Spinal Deformity (ASD) Patients

Justin Scheer, Justin Smith, Frank Schwab, Frank Schwab, Robert Hart, Richard Hostin, Virginie LaFage, Amit Jain, Douglas Burton, Shay Bess, Tamir Ailon, Themistocles Protopsaltis, Eric Klineberg, Christopher Shaffrey, Christopher Ames, International Spine Study Group

- Podium presentation, IMAST 2015, NASS 2015

Assessment of Surgical Treatment Strategies for Moderate to Severe Adult Cervical Deformity Reveals Marked Variation in Approaches, Osteotomies and Fusion Levels

Justin S. Smith, Eric Klineberg, Themis Protopsaltis, Munish Gupta, Doug Burton, Vedat Deviren, Christopher Shaffrey, Virginie Lafage, Frank Schwab, Tamir Ailon, Alan Daniels, Robert Eastlack, Marilyn Gates, Peter Passias, Gregory Mundis, D. Kojo Hamilton, Robert Hart, Shay Bess, Christopher P. Ames, ISSG

- Podium presentation, NASS 2015

Development of a Preoperative Predictive Model for Intra- or Peri-operative Major Complications with High Accuracy Validated with 558 ASD Patients

Justin Scheer, Justin Smith, Frank Schwab, Virginie LaFage, Christopher Shaffrey, Shay Bess, Alan Daniels, Robert Hart, Themistocles Protopsaltis, Gregory Mundis, Tamir Ailon, Douglas Burton, Eric Klineberg, Christopher Ames, International Spine Study Group

- Podium presentation IMAST 2015, NASS 2015

Journal Reviewer

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|---|----------------|
| 1. Operative Neurosurgery | 2015 - present |
| 2. Scoliosis | 2013 – present |
| 3. Global Spine Journal | 2016 – present |
| 4. World Neurosurgery | 2020 – present |
| 5. BMC Musculoskeletal Disorders | 2022 - present |