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Surgical decision-making for long bone metastases

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Abbreviations

95%CI = 95% confidence interval
AMC = Academisch Medisch Centrum (Amsterdam)
AUC = area under curve
BC = before Christ
BI = Beth Israel hospital
BMD = bone mineral density
BMI = body mass index
BWH = Brigham and Women's Hospital (Boston)
CAT = computerized adaptive testing
CCI = Charlson comorbidity index
CPT = current procedural terminology code
CT = computed tomography scan
DHS = dynamic hip screw
DP = diaphysis prosthesis
ECOG = Eastern Cooperative Oncology Group score
EPR = endoprosthetic reconstruction
EQ-5D = EuroQol 5 Dimensions
FDG-PET = fluorodeoxyglucose positron emission tomography scan
HR = hazard ratio
HU = Hounsfield Units
Hemi-A = hemiarthroplasty
HMS = Harvard Medical School (Boston)
I&D = incision & debridement
ICC = intraclass correlation coefficient
ICD-9-CM = international classification of diseases, ninth revision, clinical modification
IMN = intramedullary nail
IQR = interquartile range
IRT = item response theory
LEFS = lower extremity functional scale
MGH = Massachusetts General Hospital (Boston)
MRI = magnetic resonance imaging scan
MSTS = musculoskeletal tumor society
MTP = modular tumor prosthesis
OR = odds ratio

Abbreviations

ORIF = open reduction internal fixation

PMMA = polymethyl methacrylate bone cement

PROMIS = patient-reported outcomes measurement information system

PSF = plate-screw fixation

QOL = quality of life

QuickDASH = disabilities of the arm, shoulder and hand questionnaire

RCC = renal cell carcinoma

ROC = receiver operating characteristic

ROI = region of interest

SD = standard deviation

SEM = standard error of the mean

SF-36 = short form health survey

SORG = skeletal oncology research group

SOVG = science of variation group

SRE = skeletal related event

TESS = Toronto extremity salvage score

THA = total hip arthroplasty

WBC = white blood cell count

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Loes, lieve Loes, een half jaar Boston werden er twee, en dat terwijl we elkaar maar net hadden ontmoet. Vijfduizend kilometer water heeft ons gelukkig niet kunnen scheiden. Je bent de allerliefste en ik kijk uit naar ons volgende avontuur.

Portfolio

PhD TRAINING

Research Courses	Year	Workload
Introduction meeting graduate school and APROVE - AMC	2014	0.1
Practical Biostatistics – AMC	2014	1.5
Basic Biostatistics for Clinical Research – MGH/HMS	2014	0.7
Problem-Based Biostatistics for the Clinical Investigator – MGH/HMS	2014	0.5
Introduction to Survey Design – MGH/HMS	2014	0.5
Applied Biostatistics for Clinical Trials – MGH/HMS	2014	0.5
Certificate in Applied Biostatistics – HMS	2015	5.0
Seminars, workshops and master classes	Year	Workload
Journal clubs Orthopaedic Hand Service – MGH/BWH/BI	2013	0.5
Journal clubs Orthopaedic Spine Service – MGH/BWH	2014	1.0
Journal clubs Orthopaedic Hand Service – MGH/BWH/BI	2014	1.0
Grand Rounds Orthopaedics – MGH	2014	1.0
Workshop and cadaver lab: Management Spine Tumors – Depuy, Raynham	2014	0.3
Brian Silber Spine Oncology Symposium – MGH	2014	0.3
Fractures of the distal radius webinar – OTA	2014	0.1
Tibial plateau fracture webinar – OTA	2014	0.1
Workshop and cadaver lab: elbow arthroscopy – Smith & Nephew, Boston	2014	0.3
Journal clubs Orthopaedic Spine Service – MGH/BWH	2015	1.0
Journal clubs Orthopaedic Hand Service – MGH/BWH/BI	2015	1.0
Grand Rounds Orthopaedics – MGH	2015	1.0
Workshop and cadaver lab: Thoracolumbar spine trauma – Depuy, Raynham	2015	0.3
Workshop and cadaver lab: Spinal deformity – Depuy, Raynham	2015	0.3
Workshop and cadaver lab: Cervical spine trauma – Depuy, Raynham	2015	0.3
AO Trauma Basic Principles – Dallas	2017	1.0
Medical Business Masterclass – Amsterdam	2017	0.5
Workshop: Trauma resident days – Amersfoort	2017	0.3
Workshop and cadaver lab: Basics spine surgery – Maastricht	2018	0.3
Presentations (see report of scholarship for list of presentations)	Year	Workload
13 Podium presentations (co-author on another 19 podium presentations)	2014 –	6.5
10 Poster presentations (co-author on another 16 poster presentations)	2018	5.0
(Inter)national conferences	Year	Workload
Smith hand surgery day – Boston	2014	0.3

Portfolio

Jesse Jupiter Hand Course – Boston	2014	0.5
Harvard Orthopaedic Trauma day – Boston	2014	0.3
4 th Annual International Spine symposium – Boston	2014	0.5
Musculoskeletal Tumor Society Annual Meeting – Houston	2014	0.8
American Academy of Orthopaedic Surgeons Annual Meeting – Las Vegas	2015	0.8
Smith hand surgery day – Boston	2015	0.3
Harvard Orthopaedic Trauma day – Boston	2015	0.3
Association of Bone and Joint Surgeons Annual Meeting – Oregon	2015	0.8
Musculoskeletal Tumor Society Annual Meeting – Orlando	2015	0.8
European MusculoSkeletal Oncology Society Annual Meeting – La Baule	2016	0.8
Edinburgh Instructional Trauma Course – Edinburgh	2016	0.8
Dutch Trauma Conference – Amsterdam	2016	0.5
Surgical resident trauma conference - Soestduinen	2017	0.3
European MusculoSkeletal Oncology Society Annual Meeting – Budapest	2017	0.8
Dutch Trauma Conference – Amsterdam	2017	0.5
European MusculoSkeletal Oncology Society Annual Meeting – Amsterdam	2018	0.8

TEACHING

Lecturing	Year	Workload
Basic statistics and STATA 13 courses – Stein Janssen & Teun Teunis	2014	1.5
Basic statistics and STATA 13 courses – Stein Janssen	2015	1.5
Supervising, tutoring, and mentoring	Year	Workload
Jeroen Molleman – Orthopaedic Hand Service MGH	2014	0.5
Niels Bosma – Orthopaedic Hand Service MGH	2014	0.5
Bart Lubberts – Orthopaedic Hand Service MGH	2014	0.5
Marijn van Berckel – Orthopaedic Hand Service MGH	2014	0.5
Joost Kortlever – Orthopaedic Oncology/Spine/Hand Service MGH	2014	0.5
Andrea van der Heijden – Orthopaedic Oncology/Spine Service MGH	2014	0.5
Maarten van Dijke – Orthopaedic Oncology/Spine Service MGH	2014	0.5
Eva van Dijk – Orthopaedic Oncology/Spine Service MGH	2014	0.5
Timion Meijs – Orthopaedic Oncology/Spine Service MGH	2014	0.5
Nicky Stoop – Orthopaedic Hand Service MGH	2014	0.5
Amanda Lans – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Matthew Tarabochia – Orthopaedic Hand Service MGH	2015	0.5
Olivier van Wulfften Palthe – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Nuno Rui Paulino Pereira – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Wouter van Leeuwen – Orthopaedic Hand Service MGH	2015	0.5
Sjoerd Meijer – Orthopaedic Hand Service MGH	2015	0.5
Hugo Hermanussen – Orthopaedic Hand Service MGH	2015	0.5

Reinier Beks – Orthopaedic Hand Service MGH	2015	0.5
Quirine van der Vliet – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Stefan Hartveldt – Orthopaedic Oncology/Spine Service MGH	2015	0.5
David Langerhuizen – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Eva van Rein – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Nina Theyskens – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Paul Ogink – Orthopaedic Oncology/Spine Service MGH	2015	0.5
Bianca Verbeek – Orthopaedic Oncology/Spine Service MGH	2015	0.5

PARAMETERS OF ESTEEM

Grants	Year
The Prof. Michaël-van Vloten Fund – Research fellowship Orthopaedic Oncology. MGH/HMS, Boston, USA	2013
Fund from the “Anna Fonds” foundation – Research fellowship Orthopaedic Oncology. MGH/HMS, Boston, USA	2013
The “De Drie Lichten” fund – Research fellowship Orthopaedic Oncology. MGH/HMS, Boston, USA	2013
KWF Kankerbestrijding – Research fellowship Orthopaedic Oncology. MGH/HMS, Boston, USA	2014
Awards and Prizes	Year
Orthopaedics Departmental Award MGH Clinical Research Day – Sacral Insufficiency Fractures after High-Dose Radiation with and without Partial Sacrectomy: A Twenty Year Retrospective.	2014
Poster of Distinction MGH Clinical Research Day – Association of Perioperative Allogeneic Blood Transfusion with Survival in Patients with Metastatic Long Bone Fractures.	2014
Marshall Urist Young Investigator Award (Association of Bone and Joint Surgeons) – Prognostication in Patients With Long Bone Metastases: Does a Boosting Algorithm Improve Survival Estimates?	2015

PUBLICATIONS

Peer reviewed (see report of scholarship for list of publications)

64 peer reviewed publications

Other

Reviewer: The Bone & Joint Journal

Reviewer: Clinical Orthopaedics and Related Research (Top 50 reviewer 2016)

Reviewer: The Journal of Bone & Joint Surgery (Elite reviewer 2017)

AMC = Academisch Medisch Centrum (Amsterdam)

MGH = Massachusetts General Hospital (Boston)

HMS = Harvard Medical School (Boston)

BWH = Brigham and Women's Hospital (Boston)

BI = Beth Israel hospital

*Workload in ECTS

Report Of Scholarship

PUBLICATIONS, PEER-REVIEWED

- **S.J. Janssen**, D.P. ter Meulen, M.G.J.S. Hageman, B.E. Earp, D. Ring. Quantitative 3-dimensional CT analyses of fractures of the middle phalanx base. *HAND 2014*
- **S.J. Janssen**, D.P. ter Meulen, S.P.F.T. Nota, M.G.J.S. Hageman, D. Ring. Does Verbal and Nonverbal Communication of Pain Correlate With Disability? *Psychosomatics 2014*
- **S.J. Janssen**, T. Teunis, D.P. ter Meulen, M.G.J.S. Hageman, D. Ring. Estimation of Base of Middle Phalanx Size Using Anatomical Landmarks. *J Hand Surg Am 2014*
- **S.J. Janssen**, T. Teunis, F.J. Hornicek, J.A.M. Bramer, J.H. Schwab. Outcome of operative treatment of metastatic fractures of the humerus: a systematic review of twenty three clinical studies. *Int Orthop 2014*
- J.J. Mellema, **S.J. Janssen**, T.G. Guitton, D. Ring. Quantitative 3-Dimensional Computed Tomography Measurements of Coronoid Fractures. *J Hand Surg Am 2014*
- J. Molleman, **S.J. Janssen**, C.L. Overbeek, D. Ring. A threshold disability score corresponds with an estimated diagnosis of clinical depression in patients with upper extremity disease. *HAND 2014*
- **S.J. Janssen**, Y. Braun, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. Are Allogeneic Blood Transfusions Associated With Decreased Survival After Surgery for Long-bone Metastatic Fractures? *Clin Orthop Relat Res 2015*
- A.R. Kachooei, A. Moradi, **S.J. Janssen**, D. Ring. The influence of dominant limb involvement on DASH and QuickDASH. *HAND 2015*
- **S.J. Janssen**, Y. Braun, K.B. Wood, T.D. Cha, J.H. Schwab, Allogeneic blood transfusions and postoperative infections after lumbar spine surgery. *The Spine Journal 2015*
- **S.J. Janssen**, A.L. Bredenoord, W. Dhert, M. de Kleuver, F. Cumhur Oner, J.J. Verlaan, Potential Conflicts of Interest of Editorial Board Members from Five Leading Spine Journals. *Plos One 2015*
- T. Teunis, **S.J. Janssen**, T.G. Guitton, A.M. Vranceanu, B. Goos, D. Ring. Surgeon personality is associated with recommendation for operative treatment. *HAND 2015*
- M.T. Kuntz, **S.J. Janssen**, D. Ring. Incidental signal changes in the extensor carpi ulnaris on MRI. *HAND 2015*
- **S.J. Janssen**, T. Teunis, T.G. Guitton, D. Ring. Do Surgeons Treat Their Patients Like They Would Treat Themselves? *Clin Orthop Relat Res 2015*
- **S.J. Janssen**, J. Molleman, T.G. Guitton, D. Ring. What Middle Phalanx Base Fracture Characteristics are Most Reliable and Useful for Surgical Decision-making? *Clin Orthop Relat Res 2015*
- S.T. Meijer, **S.J. Janssen**, T. Drijkoningen, D. Ring. Factors Associated with Unplanned Reoperation in Perilunate Dislocations and Fracture Dislocations. *J Wrist Surgery 2015*
- **S.J. Janssen**, A.S. van der Heijden, M. van Dijke, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. 2015 Marshall Urist Young Investigator Award: Prognostication in

- Patients With Long Bone Metastases: Does a Boosting Algorithm Improve Survival Estimates? *Clin Orthop Relat Res 2015*
- J.T.P. Kortlever, **S.J. Janssen**, M.M.G. van Berckel, D. Ring, A.M. Vranceanu. What Is the Most Useful Questionnaire for Measurement of Coping Strategies in Response to Nociception? *Clin Orthop Relat Res 2015*
 - **S.J. Janssen**, T. Teunis, T.G. Guitton, D. Ring, J.H. Herndon. Orthopaedic Surgeons' Views on Strategies for Improving Patient Safety. *J Bone Joint Surg Am 2015*
 - **S.J. Janssen**, T. Teunis, E. van Dijk, M.L. Ferrone, J.H. Shin, F. Hornicek, J.H. Schwab. Validation of the Spine Oncology Study Group Outcomes Questionnaire to assess quality of life in patients with metastatic spine disease. *The Spine Journal 2015*
 - W.F. van Leeuwen, **S.J. Janssen**, D.P. ter Meulen, D. Ring. What Is the Radiographic Prevalence of Incidental Kienbock Disease? *Clin Orthop Relat Res 2015*
 - D.P. ter Meulen, **S.J. Janssen**, M.G.J. Hageman, D.C. Ring. Quantitative three-dimensional computed tomography analysis of glenoid fracture patterns according to the AO/OTA classification. *J Shoulder Elbow Surg 2015*
 - **S.J. Janssen**, M. van Dijke, S.A. Lozano-Calderon, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. Complications after surgery for metastatic humeral lesions. *J Shoulder Elbow Surg 2015*
 - P. Osler, M.A. Bredella, K.A. Hess, **S.J. Janssen**, C.J. Park, Y.L. Chen, T.F. Delaney, F.J. Hornicek, J.H. Schwab. Sacral Insufficiency Fractures are Common After High-dose Radiation for Sacral Chordomas Treated With or Without Surgery. *Clin Orthop Relat Res 2015*
 - B. Lubberts, **S.J. Janssen**, J.J. Mellema, D. Ring. Quantitative 3-dimensional computed tomography analysis of olecranon fractures. *J Shoulder Elbow Surg 2015*
 - S.J.E. Becker, Y. Braun, **S.J. Janssen**, V. Neuhaus, D. Ring, C.S. Mudgal. Early Patient Satisfaction With Different Treatment Pathways for Trigger Finger and Thumb. *J Hand Microsurg 2015*
 - M.E. Menendez, **S.J. Janssen**, D. Ring. Electronic health record-based triggers to detect adverse events after outpatient orthopaedic surgery. *BMJ Quality & Safety 2015*
 - T. Teunis, **S.J. Janssen**, T.G. Guitton, D. Ring, R. Parisien. Do Orthopaedic Surgeons Acknowledge Uncertainty? *Clin Orthop Relat Res 2016*
 - **S.J. Janssen**, H.H. Hermanussen, T.G. Guitton, M.P.J. van den Bekerom, D.F.P. van Deurzen, D. Ring. Greater Tuberosity Fractures: Does Fracture Assessment and Treatment Recommendation Vary Based on Imaging Modality? *Clin Orthop Relat Res 2016*
 - W.F. van Leeuwen, Q.M.J. van der Vliet, **S.J. Janssen**, M. Heng, D. Ring, A.M. Vranceanu. Does perceived injustice correlate with pain intensity and disability in orthopaedic trauma patients? *Injury 2016*
 - **S.J. Janssen**, J.T.P. Kortlever, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. Complications After Surgery for Proximal Femoral Metastasis: A Retrospective Study of 417 Patients. *J Am Acad Orthop Surg 2016*
 - N.R. Paulino Pereira, R.B. Beks, **S.J. Janssen**, M.B. Harris, F.J. Hornicek, M.L. Ferrone, J.H. Schwab. Are allogeneic blood transfusions associated with decreased survival after surgical treatment for spinal metastases? *The Spine Journal 2016*
 - O.D. van Wulfften Palthe, V. Neuhaus, **S.J. Janssen**, T.G. Guitton, D. Ring. Among Musculoskeletal Surgeons, Job Dissatisfaction Is Associated With Burn Out. *Clin Orthop Relat Res 2016*

- W.F. van Leeuwen, **S.J. Janssen**, D. Ring. Radiographic Progression of Kienböck Disease: Radial Shortening Versus No Surgery. *J Hand Surg Am 2016*
- W.F. van Leeuwen, **S.J. Janssen**, D. Ring, N. Chen. Incidental magnetic resonance imaging signal changes in the extensor carpi radialis brevis origin are more common with age. *J Shoulder Elbow Surg 2016*
- D.W.G. Langerhuizen, **S.J. Janssen**, Q.M.J. van der Vliet, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab, S.A. Lozano-Calderon. Metastasectomy, Intralesional Resection, or Stabilization Only in the Treatment of Bone Metastases From Renal Cell Carcinoma. *Journal of Surgical Oncology 2016*
- **S.J. Janssen**, T. Teunis, F.J. Hornicek, C.N. van Dijk, J.A. Bramer, J.H. Schwab. Outcome After Fixation of Metastatic Proximal Femoral Fractures: A Systematic Review of 40 Studies. *Journal of Surgical Oncology 2016*
- J.T.P. Kortlever, **S.J. Janssen**, J. Molleman, M.G.J.S. Hageman, D. Ring. Discrete Pathophysiology is Uncommon in Patients with Nonspecific Arm Pain. *Arch Bone Jt Sur 2015*
- S. Hartveldt, **S.J. Janssen**, K.B. Wood, T.D. Cha, J.H. Schwab, C.M. Bono, L.G. Jenis. Is There An Association of Epidural Corticosteroid Injection with Postoperative Surgical Site Infection after Surgery for Lumbar Degenerative Spine Disease? *SPINE 2016*
- **S.J. Janssen**, E.A.J. van Rein, N.R. Paulino Pereira, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, S.A. Lozano-Calderon, and J.H. Schwab. The Discrepancy between Patient and Clinician Reported Function in Extremity Bone Metastases. *Sarcoma 2016*
- **S.J. Janssen**, N.R. Paulino Pereira, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, C.N. van Dijk, S.A. Lozano-Calderon, J.H. Schwab. A Comparison of Questionnaires for Assessing Physical Function in Patients With Lower Extremity Bone Metastases. *Journal of Surgical Oncology 2016*
- Q.M.J. van der Vliet, N.R. Paulino Pereira, **S.J. Janssen**, F.J. Hornicek, M.L. Ferrone, J.A.M. Bramer, C.N. van Dijk, J.H. Schwab. What Factors are Associated With Quality Of Life, Pain Interference, Anxiety, and Depression in Patients With Metastatic Bone Disease? *Clin Orthop Relat Res 2016*
- M. van Dijke, **S.J. Janssen**, T.D. Cha, K.B. Wood, L.F. Borges, M.B. Harris, C.M. Bono, J.H. Schwab. Comparison of Decompression With and Without Fusion for Patients With Synovial Facet Cysts. *Clin Spine Surg 2016*
- Lans, **S.J. Janssen**, D. Ring. Off-Hour Surgery Among Orthopedic Subspecialties at an Urban, Quaternary-Care, Level 1 Trauma Center. *J Hand Surg Am 2016*
- N.R. Paulino Pereira, **S.J. Janssen**, E. van Dijk, M.B. Harris, F.J. Hornicek, M.L. Ferrone, J.H. Schwab. Development of a Prognostic Survival Algorithm for Patients with Metastatic Spine Disease. *J Bone Joint Surg Am 2016*
- D. Zhang, M. Tarabochia, **S.J. Janssen**, D. Ring, N. Chen. Risk of Subluxation or Dislocation After Operative Treatment of Terrible Triad Injuries. *J Orthop Trauma 2016*.
- W.F. van Leeuwen, **S.J. Janssen**, T.G. Guitton, N. Chen, D. Ring. Interobserver Agreement in Diagnosing Early-Stage Kienböck Disease on Radiographs and Magnetic Resonance Imaging. *HAND 2016*
- N.R. Paulino Pereira, D.W. Langerhuizen, **S.J. Janssen**, F.J. Hornicek, M.L. Ferrone, M.B. Harris, J.H. Schwab. Are Perioperative Allogeneic Blood Transfusions Associated With 90-Days Infection After Operative Treatment for Bone Metastases? *Journal of Surgical Oncology 2016*

- O.D.R. van Wulfften Palthe, **S.J. Janssen**, J.S. Wunder, P.C. Ferguson, G. Wei, P.S. Rose, M.J. Yaszemski, F.H. Sim, P.J. Boland, J.H. Healey, F.J. Hornicek, J.H. Schwab. What questionnaires to use when measuring quality of life in sacral tumor patients: the updated sacral tumor survey. *SPINE* 2016
- Lubberts, J.J. Mellema, **S.J. Janssen**, D. Ring. Fracture line distribution of olecranon fractures. *Arch Orthop Trauma Surg* 2016
- A.M. Vranceanu, R.B. Beks, T.G. Guitton, **S.J. Janssen**, D. Ring. How do orthopedic surgeons address psychological aspects of illness? *Arch Bone Jt Sur* 2017
- N.R. Paulino Pereira, L. Mclaughlin, **S.J. Janssen**, C.N. van Dijk, J.A.M. Bramer, I. Laufer, M.H. Bilsky, J.H. Schwab. The SORG nomogram accurately predicts 3- and 12-months survival for operable spine metastatic disease: External validation. *Journal of Surgical Oncology* 2017
- N.R. Paulino Pereira, **S.J. Janssen**, K.A. Raskin, F.J. Hornicek, M.L. ferrone, J.H. Shin, J.A.M. Bramer, C.N. van Dijk, J.H. Schwab. Most efficient questionnaires to measure quality of life, physical function, and pain in patients with metastatic spine disease: a cross-sectional prospective survey study. *The Spine Journal* 2017
- N.C. Theyskens, N.R. Paulino Pereira, **S.J. Janssen**, C.M. Bono, J.H. Schwab, T.D. Cha. The prevalence of spinal epidural lipomatosis on magnetic resonance imaging. *The Spine Journal* 2017
- J.H. Schwab, **S.J. Janssen**, N.R. Paulino Pereira, Y.L.E. Chen, J.C. Wain, T.F. Delaney, F.J. Hornicek. Quality of life after resection of a chordoma of the mobile spine. *The Bone & Joint Journal* 2017
- G.T.T. Helmerhorst, T. Teunis, **S.J. Janssen**, D. Ring. An epidemic of the use, misuse and overdose of opioids and deaths due to overdose, in the United States and Canada. *The Bone & Joint Journal* 2017
- **S.J. Janssen**, N.R. Paulino Pereira, T.A. Meijs, M.A. Bredella, M.L. Ferrone, C.N. van Dijk, J.A.M. Bramer, S.A. Lozano-Calderon, J.H. Schwab. Predicting pathological fracture in femoral metastases using a clinical CT scan based algorithm: A case-control study. *Journal of Orthopaedic Science* 2017
- **S.J. Janssen**, J.A.M. Bramer, T.G. Guitton, F.J. Hornicek, J.H. Schwab. Management of metastatic humeral fractures: Variations according to orthopedic subspecialty, tumor characteristics. *Orthopaedics & Traumatology: Surgery & Research* 2017
- T.J. Crijns, **S.J. Janssen**, J.T. Davis, D. Ring, H.B. Sanchez. Reliability of proximal femur fractures: does clinical experience matter? *Injury* 2018
- N. Stoop, B.A.T.D. van der Gronde, **S.J. Janssen**, M.T. Kuntz, D. Ring, N.C. Chen. Incidental Flexor Carpi Radialis Tendinopathy on Magnetic Resonance Imaging. *HAND* 2018
- **S.J. Janssen**, P.T. Ogink, J.H. Schwab. The Prevalence of Incidental and Symptomatic Lumbar Synovial Facet Cysts. *Clin Spine Surg* 2018
- Zhang, M. Tarabochia, **S.J. Janssen**, D. Ring, N. Chen. Acute compartment syndrome in patients undergoing fasciotomy of the forearm and the leg. *Int Orthop* 2018
- J. van der Vis, **S.J. Janssen**, R. Haverlag, M.P.J. van den Bekerom. Functional outcome in patients who underwent distal biceps tendon repair. *Arch Orthop Trauma Surg* 2018
- Q.C.B.S. Thio, A. Goudriaan, **S.J. Janssen**, N.R. Paulino Pereira, D.M. Sciubba, R.P. Rosovsky, J.H. Schwab. Prognostic role of neutrophil-to-lymphocyte ratio and platelet- to-lymphocyte ratio in patients with bone metastases. *Br J Cancer* 2018

- O.Q. Groot, P.T. Ogink, **S.J. Janssen**, N.R. Paulino Pereira, S.A. Lozano-Calderon, K. Raskin, F. Hornicek, J.H. Schwab. High Risk of Venous Thromboembolism After Surgery for Long Bone Metastases: A Retrospective Study of 682 Patients. *Clin Orthop Relat Res* 2018

PUBLICATIONS, NON-PEER REVIEWED

- **S.J. Janssen**. Het beoordelen van de intra-articulaire basis midphalanx fractuur. *Het Verband* 2017

PODIUM PRESENTATIONS (PRESENTER)

- **S.J. Janssen**, P. Jayakumar, D.P. ter Meulen, D. van Deurzen, D. Ring - Quantitative 3-Dimensional computed tomography modelling of isolated greater tuberosity fractures of the proximal humerus. *May, 2014, Smith day, MGH, Boston, Massachusetts, USA*
- **B. Lubberts**, **S.J. Janssen**, J. Mellema, D. Ring - Quantitative 3-dimensional computed tomography analysis of olecranon fractures. *May, 2014, Smith day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, B. Lubberts, J. Mellema, D. Ring - Fracture morphology of olecranon fractures: Quantitative 3D CT analysis. *June, 2014, Harvard Orthopaedic Trauma Research Day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, J.T.P. Kortlever, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab – Risk factors for complications after surgery for metastatic femur fractures. *October, 2014, Musculoskeletal Tumor Society, Houston, Texas, USA*
- **S.J. Janssen**, J.T.P. Kortlever, J.E. Ready, K.A. Raskin, S. Lozano-Calderon, M.L. Ferrone, F.J. Hornicek, J.H. Schwab – Risk factors for complications after surgery for metastatic proximal femoral disease. *March, 2015, American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, USA*
- **S.J. Janssen**, M. van Dijke, J.E. Ready, S. Lozano-Calderon, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab – Risk factors for complications after surgery for metastatic humerus disease. *March, 2015, American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, USA*
- **S.J. Janssen**, T. Teunis, T.G. Guitton, D. Ring. Do Surgeons Treat Their Patients Like They Would Treat Themselves? *May, 2015, Smith day, MGH, Boston, Massachusetts, USA*
- **B. Lubberts**, **S.J. Janssen**, J. Molleman, T.G. Guitton, D. Ring. What Middle Phalanx Base Fracture Characteristics are Most Reliable and Useful for Surgical Decision-making? *May, 2015, Smith day, MGH, Boston, Massachusetts, USA*
- **B. Lubberts**, **S.J. Janssen**, T. Teunis, T.G. Guitton, D. Ring. Do Surgeons Treat Their Patients Like They Would Treat Themselves? *June, 2015, Harvard Orthopaedic Trauma Research Day, MGH, Boston, Massachusetts, USA*
- **Mohamadi**, A.R. Kachoei, A. Moradi, **S.J. Janssen**, D. Ring. The Influence of Dominant Limb Involvement on DASH and QuickDASH. *May, 2015, Smith day, MGH, Boston, Massachusetts, USA.*

- P.A.D. van Dijk, J.T.P. Kortlever, **S.J. Janssen**, J. Molleman, M.G.J.S. Hageman, D. Ring. Discrete pathophysiology is uncommon in patients with nonspecific arm pain. *May, 2015, Smith day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, A.S. van der Heijden, M. van Dijke, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. 2015 Marshall Urist Young Investigator Award: Prognostication in Patients With Long Bone Metastases: Does a Boosting Algorithm Improve Survival Estimates? *July, 2015, Association of Bone and Joint Surgeons, Eugene, Oregon, USA*
- **S.J. Janssen**, Y. Braun, J.E. Ready, K.A. Raskin, M.L. Ferrone, F.J. Hornicek, J.H. Schwab. Are Allogeneic Blood Transfusions Associated With Decreased Survival After Surgery for Long-bone Metastatic Fractures? *July, 2015, Association of Bone and Joint Surgeons, Eugene, Oregon, USA*
- **S.J. Janssen**, N.R. Paulino Pereira, K. Raskin, M. Ferrone, F. Hornicek, S. Lozano-Calderon, J.H. Schwab. Assessing Physical Function in Patients With Lower Extremity Bone Metastases: Which questionnaire is most useful? *October, 2015, Musculoskeletal Tumor Society, Orlando, Florida, USA*
- N.R. Paulino Pereira, **S.J. Janssen**, E. van Dijk, M.B. Harris, F.J. Hornicek, M. Ferrone, J.H. Schwab. Prognostication Of Survival In Patients Who Underwent Operative Treatment Of Metastatic Spine Disease. *October, 2015, Musculoskeletal Tumor Society, Orlando, Florida, USA*
- W. Van Leeuwen, **S.J. Janssen**, T. Guitton, N. Chen, D. Ring. Interobserver agreement in diagnosing early-stage Kienböck disease. *May, 2016, Smith day, MGH, Boston, Massachusetts, USA*
- W. Van Leeuwen, **S.J. Janssen**, D. Ring. Radiographic Progression of Kienböck Disease: Radial Shortening vs. No Surgery. *May, 2016, Smith day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, Jos Bramer, Thierry Guitton, Francis Hornicek, Joseph Schwab. Variation in Management of Metastatic Humeral Fractures. *May, 2016, European Musculoskeletal Oncology Society, La Baule, France*
- L.G. Jenis, S. Hartveldt, **S.J. Janssen**, K.B. Wood, T.D. Cha, J.H. Schwab, C.M. Bono. Is there an Association Between Epidural Steroid Injection and Postoperative Infection After Surgery for Lumbar Degenerative Spine Disease? *April, 2016, Lumbar Spine Research Society Chicago, Illinois, USA*
- O.D.R. van Wulfften Palthe, **S.J. Janssen**, J.S. Wunder, P.C. Ferguson, G. Wei, P.J. Boland, P.S. Rose, M.J. Yaszemski, F.H. Sim, F.J. Hornicek, J.H. Healey, J.H. Schwab, Sacral Tumor Study Group. What Questionnaires To Use When Measuring Quality Of Life In Sacral Tumor Patients? The Updated Sacral Tumor Survey. *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- N.R. Paulino Pereira, R.B. Beks, **S.J. Janssen**, M.B. Harris, F.J. Hornicek, M.L. Ferrone, J.H. Schwab. Are allogeneic blood transfusions associated with decreased survival after surgical treatment for spinal metastases? *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- N.R. Paulino Pereira, **S.J. Janssen**, E. Van Dijk, M.B. Harris, F.J. Hornicek, M.L. Ferrone, J.H. Schwab. Development of a Prognostic Survival Algorithm for Patients with Metastatic Spine Disease. *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- B.M. Verbeek, **S.J. Janssen**, J.A.M. Bramer, T.G. Guitton, F.J. Hornicek, J.H. Schwab. Variation in Management of Metastatic Humeral Fractures: Orthopedic Oncologist versus Trauma Surgeons. *October, 2016, Musculoskeletal Tumor Society, Detroit, Michigan, USA*

- N.R. Paulino Pereira, D. Langerhuizen, **S.J. Janssen**, F.J. Hornicek, M.L. Ferrone, M.B. Harris, J.H. Schwab. Are Perioperative Allogeneic Blood Transfusions Associated With 90-days Infection After Operative Treatment For Bone Metastases? *October, 2016, Musculoskeletal Tumor Society, Detroit, Michigan, USA*
- Q. Van der Vliet, N.R. Paulino Pereira, **S.J. Janssen**, F.J. Hornicek, M.L. Ferrone, J.A.M. Bramer, C.N. van Dijk, J.H. Schwab. Quality Of Life, Pain Interference, Anxiety, And Depression In Patients With Metastatic Bone Disease. *October, 2016, Musculoskeletal Tumor Society, Detroit, Michigan, USA*
- L.G. Jenis, S. Hartveldt, **S.J. Janssen**, K.B. Wood, T.D. Cha, J.H. Schwab, C.M. Bono. Is there an Association Between Epidural Steroid Injection and Postoperative Infection After Surgery for Lumbar Degenerative Spine Disease? *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- N.C. Theyskens, N.R. Paulino Pereira, **S.J. Janssen**, C.M. Bono, J.H. Schwab, T.D. Cha. The Prevalence of Spinal Epidural Lipomatosis on Magnetic Resonance Imaging. *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- A. Lans, **S.J. Janssen**, D. Ring. Off-Hour Surgery Among Orthopedic Subspecialties at an Urban, Quaternary-Care, Level 1 Trauma Center. *January, 2017, Surgical resident trauma conference, Soestduinen, The Netherlands*
- N.R. Paulino Pereira, L. Mclaughlin, **S.J. Janssen**, C.N. van Dijk, J.A.M. Bramer, I. Laufer, M.H. Bilsky, J.H. Schwab. External Validation of a Nomogram That Predicts 1, 3 and 12 Months Survival for Operable Spine Metastatic Disease. *April, 2017, European Musculoskeletal Oncology Society, Budapest, Hungary*
- J.H. Schwab, **S.J. Janssen**, N.R. Paulino Pereira, Y.L.E. Chen, J.C. Wain, T.F. Delaney, F.J. Hornicek. Quality of Life after Resection of Mobile Spine Chordoma. *April, 2017, European Musculoskeletal Oncology Society, Budapest, Hungary*
- D. Zhang, **S.J. Janssen**, B.E. Earp, P. Blazar. Predictors of Future Contralateral Carpal Tunnel Release. *April, 2018, Smith Day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, D.W.G. Langerhuizen, J.H. Schwab, J.A.M. Bramer. Outcome After Endoprosthetic Reconstruction Of Proximal Femoral Tumors: A Systematic Review. *May, 2018, European Musculoskeletal Oncology Society, Amsterdam, The Netherlands*

POSTER PRESENTATIONS (PRESENTER)

- **S.J. Janssen**, D.P. ter Meulen, M.G.J.S. Hageman, B. Earp, D. Ring - Quantitative 3-dimensional computed tomography analyses of intra-articular fractures of the base of the middle phalanx. *April, 2014, Scientific Advisory Committee conference, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, T. Teunis, F.J. Hornicek, J.H. Schwab – Spine Oncology Study Group Outcomes Questionnaire Revised. *May, 2014, Research career development conference, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, A. van der Heijden, M. van Dijke, J. Ready, K. Raskin, M. Ferrone, F. Hornicek, J.H. Schwab - Survival prognostication in patients with metastatic long-bone fractures: a machine learning and classic scoring algorithm to estimate survival. *October, 2014, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*

- **S.J. Janssen**, Y. Braun, J. Ready, K. Raskin, M. Ferrone, F. Hornicek, J.H. Schwab - Association of Perioperative Allogeneic Blood Transfusion with Survival in Patients with Metastatic Long-Bone Fractures. *October, 2014, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- C. Park, P. Osler, M. Bredella, K. Hess, **S.J. Janssen**, Y. Chen, T. Delaney, F. Hornicek, J.H. Schwab - Sacral Insufficiency Fractures after High-Dose Radiation with and without Partial Sacrectomy: A Twenty Year Retrospective. *October, 2014, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- J.J. Mellema, **S.J. Janssen**, T.G. Guitton, D. Ring - Quantitative Three-Dimensional Computed Tomography Measurements of Coronoid Fractures. *October, 2014, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, T. Teunis, F.J. Hornicek, J.H. Schwab – Spine Oncology Study Group Outcomes Questionnaire Revised. *October, 2014, Musculoskeletal Tumor Society, Houston, Texas, USA*
- **S.J. Janssen**, Y. Braun, J. Ready, K. Raskin, M. Ferrone, F. Hornicek, J.H. Schwab - Association of Perioperative Allogeneic Blood Transfusion with Survival in Patients with Metastatic Long-Bone Fractures. *April, 2015, Scientific Advisory Committee conference, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, N.R. Paulino Pereira, T. Meijs, K. Raskin, M. Ferrone, F. Hornicek, S. Lozano-Calderon, J.H. Schwab. Structural Analysis of Metastatic Femoral Lesions Using Clinical Computed Tomography Scans. *October, 2015, Musculoskeletal Tumor Society, Orlando, Florida, USA*
- N.R. Paulino Pereira, N. Stoop, S. Hartveldt, **S.J. Janssen**, F.J. Hornicek, J.H. Schwab. Functional and oncological outcome after chondrosarcoma resection of the mobile spine. *October, 2015, Musculoskeletal Tumor Society, Orlando, Florida, USA*
- O. van Wulfften Palthe, **S.J. Janssen**, M. van Dijke, T. Cha, K. Wood, L. Borges, M. Harris, C. Bono, J.H. Schwab. Comparison of decompression with and without fusion for patients with synovial facet cysts: a retrospective study of 314 consecutive patients. *October 2015, North American Spine Society, Chicago, USA*
- D. Langerhuizen, **S.J. Janssen**, Q. van der Vliet, K. Raskin, M. Ferrone, F.J. Hornicek, J.H. Schwab, S. Lozano-Calderon. Metastasectomy versus Intralesional Resection in the Treatment of Bone Metastases from Renal Cell Carcinoma. *October, 2015, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- N.R. Paulino Pereira, R.B. Beks, D. Langerhuizen, **S.J. Janssen**, F.J. Hornicek, M. Ferrone, J.H. Schwab. Are allogeneic blood transfusions associated with decreased survival after surgical treatment for spinal metastases? *October, 2015, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- **S.J. Janssen**, E. van Rein, N.R. Paulino Pereira, K. Raskin, M. Ferrone, F.J. Hornicek, S. Lozano-Calderon, J.H. Schwab. Assessing Physical Function in Patients with Lower Extremity Bone Metastases: Which questionnaire is most useful? *October, 2015, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- E. van Rein, **S.J. Janssen**, K. Raskin, M. Ferrone, F.J. Hornicek, S. Lozano-Calderon, J.H. Schwab. Is There a Discrepancy Between Patient and Clinician Perceived Functional Outcome in Patients with Extremity Bone Metastases? *October, 2015, MGH Clinical Research Day, MGH, Boston, Massachusetts, USA*
- Kachooei, A. Moradi, **S.J. Janssen**, D. Ring. The Influence of Dominant Limb Involvement on Dash And QuickDash. *September, 2015, ASSH, Seattle, USA*

- **S.J. Janssen**, N.R. Paulino Pereira, K. Raskin, M. Ferrone, F.J. Hornicek, S. Lozano-Calderon, J.H. Schwab. Assessing Physical Function in Patients with Lower Extremity Bone Metastases. *March, 2016, AAOS, Orlando, USA*
- **S.J. Janssen**, Teun Teunis, Francis Hornicek, Niek van Dijk, Jos Bramer, Joseph Schwab. Outcome After Fixation of Metastatic Proximal Femoral Fractures: A Systematic Review. *May, 2016, European Musculoskeletal Oncology Society, La Baule, France*
- W.F. van Leeuwen, **S.J. Janssen**, D. Ring, N. Chen. Incidental magnetic resonance imaging signal changes in the extensor carpi radialis brevis origin are more common with age. *May, 2016, Massachusetts General Hospital Orthopaedic Research Retreat, Boston, USA*
- S. Hartveldt, **S.J. Janssen**, K.B. Wood, T.D. Cha, J.H. Schwab, C.M. Bono, L.G. Jenis. Is There An Association of Epidural Corticosteroid Injection with Postoperative Surgical Site Infection after Surgery for Lumbar Degenerative Spine Disease? *April, 2016, Amsterdam Medical School Convention, Amsterdam, The Netherlands*
- J.H. Schwab, **S.J. Janssen**, N.R. Paulino Pereira, Y.L. Chen, J. wain, T. Delaney, F.J. Hornicek. Quality of Life after Resection of Mobile Spine Chordoma. *October, 2016, Musculoskeletal Tumor Society, Detroit, Michigan, USA*
- N.R. Paulino Pereira, **S.J. Janssen**, K.A. Raskin, F.J. Hornicek, M.L. Ferrone, J.H. Shin, J.A.M. Bramer, C.N. van Dijk, J.H. Schwab. Most Efficient Questionnaires To Measure Quality Of Life, Physical Function, and Pain in Patients With Metastatic Spine Disease. *October, 2016, Musculoskeletal Tumor Society, Detroit, Michigan, USA*
- Y. Braun, O.D. van Wulfften Palthe, **S.J. Janssen**, B.M. Verbeek, J.H. Schwab. Intraobserver Agreement in Measuring the Neural Foramina Using a 360-Degree Ultrasound: A Human Cadaver Study. *October, 2016, North American Spine Society, Boston, Massachusetts, USA*
- **S.J. Janssen**, H.H. Hermanussen, T.G. Guitton, M.P.J. van den Bekerom, D.F.P. van Deurzen, D. Ring. Greater Tuberosity Fractures: Does Fracture Assessment and Treatment Recommendation Vary Based on Imaging Modality? *November, 2016, Traumadagen, Amsterdam, Nederland*
- **S.J. Janssen**, N.R. Paulino Pereira, Q.C.B.S. Thio, K.A. Raskin, J.A.M. Bramer, S.A. Lozano-Calderon, J.H. Schwab. Physical Function and Pain Intensity in Patients With Metastatic Bone Disease. *May, 2018, European Musculoskeletal Oncology Society, Amsterdam, The Netherlands*
- N.R. Paulino Pereira, **S.J. Janssen**, N. Stoop, S. Hartveldt, F. Hornicek, J.H. Schwab. Physical Function and Pain Intensity in Patients With Metastatic Bone Disease. *May, 2018, European Musculoskeletal Oncology Society, Amsterdam, The Netherlands*

About The Author

Stein Jasper Janssen was born on May 26, 1987 in Utrecht, The Netherlands. After graduating high school (Sint Bonifacius College in Utrecht) in 2005, he started medical school at Utrecht University. During medical school he participated in several extracurricular organizations and did medical internships in India and Peru. In 2012, he did an elective rotation in orthopaedic surgery at the University Medical Center in Utrecht and started his first research project (under supervision of dr. J.J. Verlaan). After graduating from medical school in 2013, he did a six month research fellowship at the Hand & Upper extremity department of the Massachusetts General Hospital – Harvard Medical School



in Boston (under supervision of Professor David Ring). Inspired by these clinical research activities he pursued a two year research fellowship at the Orthopaedic Oncology and Spine department of the Massachusetts General Hospital (under supervision of Associate Professor Joseph Schwab). This work has resulted in numerous presentations at international conferences, peer-reviewed publications, and this PhD thesis. In 2015, he was awarded with the Marshall Urist Young Investigator Award by the Association of Bone and Joint Surgeons (founders of *Clinical Orthopaedics and Related Research*). He received several grants to support his research activities, including one from the Dutch Cancer Society. In July 2016 he started his residency in orthopaedic surgery (Academic Medical Center Amsterdam, under supervision of prof. dr. G.M.M.J. Kerkhoffs) at the department of general surgery of the Onze Lieve Vrouwe Gasthuis in Amsterdam. Currently, he is working at the department of orthopaedic surgery of the Amphia Ziekenhuis in Breda.

