

# Tor D Tosteson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10689405/publications.pdf>

Version: 2024-02-01

117  
papers

15,941  
citations

23567

58  
h-index

24982

109  
g-index

118  
all docs

118  
docs citations

118  
times ranked

11601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a Palliative Care Intervention on Clinical Outcomes in Patients With Advanced Cancer. JAMA - Journal of the American Medical Association, 2009, 302, 741.	7.4	1,444
2	Surgical versus Nonsurgical Therapy for Lumbar Spinal Stenosis. New England Journal of Medicine, 2008, 358, 794-810.	27.0	1,047
3	Surgical vs Nonoperative Treatment for Lumbar Disk Herniation. JAMA - Journal of the American Medical Association, 2006, 296, 2441.	7.4	937
4	Early Versus Delayed Initiation of Concurrent Palliative Oncology Care: Patient Outcomes in the ENABLE III Randomized Controlled Trial. Journal of Clinical Oncology, 2015, 33, 1438-1445.	1.6	927
5	Surgical versus Nonsurgical Treatment for Lumbar Degenerative Spondylolisthesis. New England Journal of Medicine, 2007, 356, 2257-2270.	27.0	796
6	A Clinical Trial of Antioxidant Vitamins to Prevent Colorectal Adenoma. New England Journal of Medicine, 1994, 331, 141-147.	27.0	712
7	Surgical vs Nonoperative Treatment for Lumbar Disk Herniation. JAMA - Journal of the American Medical Association, 2006, 296, 2451.	7.4	637
8	Surgical Compared with Nonoperative Treatment for Lumbar Degenerative Spondylolisthesis. Journal of Bone and Joint Surgery - Series A, 2009, 91, 1295-1304.	3.0	546
9	Surgical Versus Nonoperative Treatment for Lumbar Disc Herniation. Spine, 2008, 33, 2789-2800.	2.0	522
10	Surgical Versus Nonoperative Treatment for Lumbar Spinal Stenosis Four-Year Results of the Spine Patient Outcomes Research Trial. Spine, 2010, 35, 1329-1338.	2.0	454
11	Lung Function, Pre- and Post-natal Smoke Exposure, and Wheezing in the First Year of Life. The American Review of Respiratory Disease, 1993, 147, 811-817.	2.9	293
12	Quantitative fluorescence in intracranial tumor: implications for ALA-induced PpIX as an intraoperative biomarker. Journal of Neurosurgery, 2011, 115, 11-17.	1.6	279
13	Electromagnetic Breast Imaging: Results of a Pilot Study in Women with Abnormal Mammograms. Radiology, 2007, 243, 350-359.	7.3	278
14	Interpreting hemoglobin and water concentration, oxygen saturation, and scattering measured in vivo by near-infrared breast tomography. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12349-12354.	7.1	263
15	Surgical Versus Nonoperative Treatment for Lumbar Disc Herniation. Spine, 2014, 39, 3-16.	2.0	252
16	Coregistered fluorescence-enhanced tumor resection of malignant glioma: relationships between 5-aminolevulinic acid-induced protoporphyrin IX fluorescence, magnetic resonance imaging enhancement, and neuropathological parameters. Journal of Neurosurgery, 2011, 114, 595-603.	1.6	250
17	Imaging breast adipose and fibroglandular tissue molecular signatures by using hybrid MRI-guided near-infrared spectral tomography. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8828-8833.	7.1	228
18	Surgical Treatment of Spinal Stenosis with and without Degenerative Spondylolisthesis: Cost-Effectiveness after 2 Years. Annals of Internal Medicine, 2008, 149, 845.	3.9	216

#	ARTICLE	IF	CITATIONS
19	The Cost Effectiveness of Surgical Versus Nonoperative Treatment for Lumbar Disc Herniation Over Two Years. <i>Spine</i> , 2008, 33, 2108-2115.	2.0	204
20	Design of the Spine Patient Outcomes Research Trial (SPORT). <i>Spine</i> , 2002, 27, 1361-1372.	2.0	197
21	Characterization of hemoglobin, water, and NIR scattering in breast tissue: analysis of intersubject variability and menstrual cycle changes. <i>Journal of Biomedical Optics</i> , 2004, 9, 541.	2.6	196
22	Comparative Effectiveness Evidence From the Spine Patient Outcomes Research Trial. <i>Spine</i> , 2011, 36, 2061-2068.	2.0	195
23	The Impact of Spinal Problems on the Health Status of Patients. <i>Spine</i> , 2000, 25, 1509-1514.	2.0	188
24	Automated region detection based on the contrast-to-noise ratio in near-infrared tomography. <i>Applied Optics</i> , 2004, 43, 1053.	2.1	170
25	Lumbar Spine: Reliability of MR Imaging Findings. <i>Radiology</i> , 2009, 250, 161-170.	7.3	168
26	Long-term Outcomes of Lumbar Spinal Stenosis. <i>Spine</i> , 2015, 40, 63-76.	2.0	167
27	Incidence of Transitional Cell Carcinoma of the Bladder and Arsenic Exposure in New Hampshire. <i>Cancer Causes and Control</i> , 2004, 15, 465-472.	1.8	160
28	Degenerative Spondylolisthesis. <i>Spine</i> , 2009, 34, 2351-2360.	2.0	159
29	Measurement of Low Levels of Arsenic Exposure: A Comparison of Water and Toenail Concentrations. <i>American Journal of Epidemiology</i> , 2000, 152, 84-90.	3.4	158
30	EARLY CHILDHOOD PREDICTORS OF ASTHMA. <i>American Journal of Epidemiology</i> , 1990, 132, 83-95.	3.4	156
31	Reliability of Readings of Magnetic Resonance Imaging Features of Lumbar Spinal Stenosis. <i>Spine</i> , 2008, 33, 1605-1610.	2.0	152
32	Effects of Asthma on Pulmonary Function in Children: A Longitudinal Population-based Study. <i>The American Review of Respiratory Disease</i> , 1992, 145, 58-64.	2.9	131
33	Â-aminolevulinic acid-induced protoporphyrin IX concentration correlates with histopathologic markers of malignancy in human gliomas: the need for quantitative fluorescence-guided resection to identify regions of increasing malignancy. <i>Neuro-Oncology</i> , 2011, 13, 846-856.	1.2	128
34	Acute Lower Respiratory Illness in Childhood as a Predictor of Lung Function and Chronic Respiratory Symptoms. <i>The American Review of Respiratory Disease</i> , 1989, 140, 877-884.	2.9	117
35	Electromagnetic Breast Imaging: Average Tissue Property Values in Women with Negative Clinical Findings. <i>Radiology</i> , 2004, 231, 571-580.	7.3	116
36	Descriptive Epidemiology and Prior Healthcare Utilization of Patients in the Spine Patient Outcomes Research Trialâ€™s (SPORT) Three Observational Cohorts. <i>Spine</i> , 2006, 31, 806-814.	2.0	115

#	ARTICLE	IF	CITATIONS
37	Assessment of cancer risk and environmental levels of arsenic in New Hampshire. <i>International Journal of Hygiene and Environmental Health</i> , 2002, 205, 85-94.	4.3	112
38	Microwave imaging for neoadjuvant chemotherapy monitoring: initial clinical experience. <i>Breast Cancer Research</i> , 2013, 15, R35.	5.0	98
39	The Impact of Workers' Compensation on Outcomes of Surgical and Nonoperative Therapy for Patients With a Lumbar Disc Herniation. <i>Spine</i> , 2010, 35, 89-97.	2.0	92
40	Comparison of EQ-5D, HUI, and SF-36-derived societal health state values among Spine Patient Outcomes Research Trial (SPORT) participants. <i>Quality of Life Research</i> , 2005, 14, 1321-1332.	3.1	87
41	Risk Factors for Reoperation in Patients Treated Surgically for Intervertebral Disc Herniation. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 1316-1325.	3.0	85
42	Transposon Mutants of <i>Staphylococcus epidermidis</i> Deficient in Elaboration of Capsular Polysaccharide/Adhesin and Slime Are Avirulent in a Rabbit Model of Endocarditis. <i>Journal of Infectious Diseases</i> , 1994, 169, 1042-1049.	4.0	83
43	Long-Term Results of Surgery Compared With Nonoperative Treatment for Lumbar Degenerative Spondylolisthesis in the Spine Patient Outcomes Research Trial (SPORT). <i>Spine</i> , 2018, 43, 1619-1630.	2.0	82
44	Reliability of Magnetic Resonance Imaging Readings for Lumbar Disc Herniation in the Spine Patient Outcomes Research Trial (SPORT). <i>Spine</i> , 2008, 33, 991-998.	2.0	79
45	Single nucleotide polymorphisms in ANKK1 and the dopamine D2 receptor gene affect cognitive outcome shortly after traumatic brain injury: A replication and extension study. <i>Brain Injury</i> , 2008, 22, 705-714.	1.2	75
46	Polymorphisms in the Brain-Derived Neurotrophic Factor Gene Influence Memory and Processing Speed One Month after Brain Injury. <i>Journal of Neurotrauma</i> , 2012, 29, 1111-1118.	3.4	72
47	SPORT Lumbar Intervertebral Disk Herniation and Back Pain. <i>Spine</i> , 2008, 33, 428-435.	2.0	71
48	Power and sample size calculations for generalized regression models with covariate measurement error. <i>Statistics in Medicine</i> , 2003, 22, 1069-1082.	1.6	69
49	The asymptotic relative efficiency of score tests in a generalized linear model with surrogate covariates. <i>Biometrika</i> , 1988, 75, 507-514.	2.4	67
50	Tumor Angiogenesis Change Estimated by Using Diffuse Optical Spectroscopic Tomography: Demonstrated Correlation in Women Undergoing Neoadjuvant Chemotherapy for Invasive Breast Cancer?. <i>Radiology</i> , 2011, 259, 365-374.	7.3	67
51	In Vivo Hemoglobin and Water Concentrations, Oxygen Saturation, and Scattering Estimates From Near-Infrared Breast Tomography Using Spectral Reconstruction <sup>1</sup> . <i>Academic Radiology</i> , 2006, 13, 195-202.	2.5	66
52	Does Multilevel Lumbar Stenosis Lead to Poorer Outcomes?. <i>Spine</i> , 2010, 35, 439-446.	2.0	66
53	SPORT: Does Incidental Durotomy Affect Long-term Outcomes in Cases of Spinal Stenosis?. <i>Neurosurgery</i> , 2011, 69, 38-44.	1.1	65
54	Predictors of Long-Term Opioid Use Among Patients With Painful Lumbar Spine Conditions. <i>Journal of Pain</i> , 2010, 11, 44-52.	1.4	63

#	ARTICLE	IF	CITATIONS
55	The Impact of Epidural Steroid Injections on the Outcomes of Patients Treated for Lumbar Disc Herniation. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 1353-1358.	3.0	63
56	A measurement-error model for binary and ordinal regression. <i>Statistics in Medicine</i> , 1989, 8, 1139-1147.	1.6	62
57	Patterns of Prescription Drug Use Before and After Fragility Fracture. <i>JAMA Internal Medicine</i> , 2016, 176, 1531.	5.1	61
58	Outcomes after incidental durotomy during first-time lumbar discectomy. <i>Journal of Neurosurgery: Spine</i> , 2011, 14, 647-653.	1.7	60
59	Who Should Undergo Surgery for Degenerative Spondylolisthesis? Treatment Effect Predictors in SPORT. <i>Spine</i> , 2013, 38, 1799-1811.	2.0	59
60	Single- Versus Multilevel Fusion for Single-Level Degenerative Spondylolisthesis and Multilevel Lumbar Stenosis. <i>Spine</i> , 2013, 38, 797-805.	2.0	57
61	Magnetic Resonance Imaging Predictors of Surgical Outcome in Patients With Lumbar Intervertebral Disc Herniation. <i>Spine</i> , 2013, 38, 1216-1225.	2.0	54
62	Glioblastoma Multiforme Treatment with Clinical Trials for Surgical Resection (Aminolevulinic Acid). <i>Neurosurgery Clinics of North America</i> , 2012, 23, 371-377.	1.7	51
63	Using instrumental variables to estimate a Cox's proportional hazards regression subject to additive confounding. <i>Health Services and Outcomes Research Methodology</i> , 2014, 14, 54-68.	1.8	51
64	Indications for Spine Surgery. <i>Spine</i> , 2014, 39, 769-779.	2.0	50
65	Risk Factors for Reoperation in Patients Treated Surgically for Lumbar Stenosis. <i>Spine</i> , 2016, 41, 901-909.	2.0	50
66	SPORT. <i>Neurosurgery</i> , 2015, 76, S57-S63.	1.1	49
67	Nonlinear and Nonparametric Regression and Instrumental Variables. <i>Journal of the American Statistical Association</i> , 2004, 99, 736-750.	3.1	48
68	Surgery for Lumbar Degenerative Spondylolisthesis in Spine Patient Outcomes Research Trial. <i>Spine</i> , 2012, 37, 406-413.	2.0	44
69	Fat, Fiber, Meat and the Risk of Colorectal Adenomas. <i>American Journal of Gastroenterology</i> , 2005, 100, 2789-2795.	0.4	42
70	Growth in the Use of PET for Six Cancer Types After Coverage by Medicare: Additive or Replacement?. <i>Journal of the American College of Radiology</i> , 2012, 9, 33-41.	1.8	41
71	What Is Different About Worker's Compensation Patients?. <i>Spine</i> , 2007, 32, 2019-2026.	2.0	40
72	Risk Factors for Reoperation in Patients Treated Surgically for Degenerative Spondylolisthesis. <i>Spine</i> , 2017, 42, 1559-1569.	2.0	36

#	ARTICLE	IF	CITATIONS
73	The Pathogenic Role of <i>Staphylococcus epidermidis</i> Capsular Polysaccharide/Adhesin in a Low-Inoculum Rabbit Model of Prosthetic Valve Endocarditis. <i>Circulation</i> , 1995, 92, 2715-2722.	1.6	36
74	Variation in Screening Abnormality Rates and Follow-Up of Breast, Cervical and Colorectal Cancer Screening within the PROSPR Consortium. <i>Journal of General Internal Medicine</i> , 2016, 31, 372-379.	2.6	34
75	Statistical analysis of nonlinearly reconstructed near-infrared tomographic images. I. Theory and simulations. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 755-763.	8.9	30
76	A Longitudinal Comparison of 5 Preference-Weighted Health State Classification Systems in Persons with Intervertebral Disk Herniation. <i>Medical Decision Making</i> , 2011, 31, 270-280.	2.4	29
77	Variation in Outcomes Across Centers After Surgery for Lumbar Stenosis and Degenerative Spondylolisthesis in the Spine Patient Outcomes Research Trial. <i>Spine</i> , 2013, 38, 678-691.	2.0	29
78	Covariate measurement error and the estimation of random effect parameters in a mixed model for longitudinal data. , 1998, 17, 1959-1971.		28
79	Geographic and Sociodemographic Disparities in PET Use by Medicare Beneficiaries With Cancer. <i>Journal of the American College of Radiology</i> , 2012, 9, 635-642.	1.8	27
80	Short-term Preoperative Diet Decreases Bleeding After Partial Hepatectomy. <i>Annals of Surgery</i> , 2019, 269, 48-52.	4.2	27
81	The Association Between Use of Chiropractic Care and Costs of Care Among Older Medicare Patients With Chronic Low Back Pain and Multiple Comorbidities. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2016, 39, 63-75.e2.	0.9	26
82	Kynurenine-Induced Aryl Hydrocarbon Receptor Signaling in Mice Causes Body Mass Gain, Liver Steatosis, and Hyperglycemia. <i>Obesity</i> , 2021, 29, 337-349.	3.0	24
83	Statistical analysis of nonlinearly reconstructed near-infrared tomographic images. II. Experimental interpretation. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 764-772.	8.9	23
84	Evaluation of an Automated Information Extraction Tool for Imaging Data Elements to Populate a Breast Cancer Screening Registry. <i>Journal of Digital Imaging</i> , 2015, 28, 567-575.	2.9	23
85	Effect of Expectations on Treatment Outcome for Lumbar Intervertebral Disc Herniation. <i>Spine</i> , 2016, 41, 803-809.	2.0	23
86	Joint modeling quality of life and survival using a terminal decline model in palliative care studies. <i>Statistics in Medicine</i> , 2013, 32, 1394-1406.	1.6	22
87	The SPORT Value Compass. <i>Medical Care</i> , 2014, 52, 1055-1063.	2.4	22
88	A Randomized Prospective Trial of Supine MRI-Guided Versus Wire-Localized Lumpectomy for Breast Cancer. <i>Annals of Surgical Oncology</i> , 2019, 26, 3099-3108.	1.5	19
89	Comparisons of three alternative breast modalities in a common phantom imaging experiment. <i>Medical Physics</i> , 2003, 30, 2194-2205.	3.0	18
90	The role of a palliative care intervention in moderating the relationship between depression and survival among individuals with advanced cancer.. <i>Health Psychology</i> , 2017, 36, 1140-1146.	1.6	18

#	ARTICLE	IF	CITATIONS
91	Longitudinal structural mixed models for the analysis of surgical trials with noncompliance. <i>Statistics in Medicine</i> , 2012, 31, 1738-1760.	1.6	17
92	Measurement Error and Confidence Intervals for ROC Curves. <i>Biometrical Journal</i> , 2005, 47, 409-416.	1.0	16
93	Understanding the value of minimally invasive procedures for the treatment of lumbar spinal stenosis: the case of interspinous spacer devices. <i>Spine Journal</i> , 2018, 18, 584-592.	1.3	15
94	Spine Patient Outcomes Research Trial. <i>Neurosurgery</i> , 2012, 71, 833-843.	1.1	14
95	Adjuncts for Maximizing Resection. <i>Neurosurgery</i> , 2012, 59, 75-78.	1.1	12
96	Patterns of Opioid Use in the 12 Months Following Geriatric Fragility Fractures: A Population-Based Cohort Study. <i>Journal of the American Medical Directors Association</i> , 2019, 20, 298-304.	2.5	12
97	Diffusion of digital breast tomosynthesis among women in primary care: associations with insurance type. <i>Cancer Medicine</i> , 2017, 6, 1102-1107.	2.8	11
98	Considering Spine Surgery. <i>Spine</i> , 2018, 43, 1731-1738.	2.0	11
99	Comparing Propensity Score Methods for Creating Comparable Cohorts of Chiropractic Users and Nonusers in Older, Multiply Comorbid Medicare Patients With Chronic Low Back Pain. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2015, 38, 620-628.	0.9	10
100	A semiparametric joint model for terminal trend of quality of life and survival in palliative care research. <i>Statistics in Medicine</i> , 2017, 36, 4692-4704.	1.6	10
101	Intended Versus Inferred Management After PET For Cancer Restaging. <i>Medical Care</i> , 2013, 51, 361-367.	2.4	9
102	Right For Me: protocol for a cluster randomised trial of two interventions for facilitating shared decision-making about contraceptive methods. <i>BMJ Open</i> , 2017, 7, e017830.	1.9	9
103	Measurement Error. , 2005, , 729-765.		9
104	Measurement Error. , 2014, , 1241-1282.		8
105	Analysis of the microvasculature and tissue type ratios in normal vs. benign and malignant breast tissue. , 2004, 26, 166-74.		8
106	Medical home transformation and breast cancer screening. <i>American Journal of Managed Care</i> , 2016, 22, e382-e388.	1.1	7
107	Intended Versus Inferred Care After PET Performed for Initial Staging in the National Oncologic PET Registry. <i>Journal of Nuclear Medicine</i> , 2013, 54, 2024-2031.	5.0	5
108	Multi-level Influences on Breast Cancer Screening in Primary Care. <i>Journal of General Internal Medicine</i> , 2018, 33, 1729-1737.	2.6	5

#	ARTICLE	IF	CITATIONS
109	Geriatric Skiers: Active But Still at Risk, a National Trauma Data Bank Study. Journal of Surgical Research, 2021, 259, 121-129.	1.6	5
110	Receiver operating characteristic and location analysis of simulated near-infrared tomography images. Journal of Biomedical Optics, 2007, 12, 054013.	2.6	4
111	Does reduction in sciatica symptoms precede improvement in disability and physical health among those treated surgically for intervertebral disc herniation? Analysis of temporal patterns in data from the Spine Patient Outcomes Research Trial. Spine Journal, 2018, 18, 1318-1324.	1.3	4
112	Near-infrared scattering spectrum differences between benign and malignant breast tumors measured in vivo with diffuse tomography. , 2004, , .		4
113	The Importance of Study Design in the Spine Literature. Seminars in Spine Surgery, 2009, 21, 202-209.	0.2	1
114	A Practical Introduction to Biostatistics in the Spine Literature. Seminars in Spine Surgery, 2009, 21, 210-215.	0.2	1
115	TO THE EDITOR:. Spine, 2017, 42, E1214.	2.0	0
116	Statistical Methods for Alternative Imaging Modalities in Breast Cancer Clinical Research. , 2005, , 227-260.		0
117	Measurement Error. , 2005, , 729-765.		0