**Table** **3**. The top 100 articles in scoliosis surgery research

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rank** | **Publication** | **Years until first citation** | **Most cited year** | **Years until most cited year** | **Average citations/year since publication (± SD)** | **Number of Citations in 2015** | **Total Number of Citations** |
| 1 | King, HA; Moe, JH; Bradford, DS; Winter, RB. The Selection Of Fusion Levels In Thoracic Idiopathic Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1983; 65(9):1302-1313 | 3 | 2007 | 24 | 14.97 ± 12.78 | 24 | 509 |
| 2 | Harrington, PR. Treatment Of Scoliosis - Correction And Internal Fixation By Spine Instrumentation. Journal Of Bone And Joint Surgery-American Volume 1962; 44(4):591-& | 1 | 2010 | 48 | 9.25 ± 6.46 | 18 | 509 |
| 3 | Suk, SI; Lee, CK; Kim, WJ; Chung, YJ; Park, YB. Segmental Pedicle Screw Fixation In The Treatment Of Thoracic Idiopathic Scoliosis. Spine 1995; 20(12):1399-1405 | 2 | 2010 | 15 | 15.59 ± 10.51 | 8 | 343 |
| 4 | Nuwer, MR; Dawson, EG; Carlson, LG; Kanim, LEA; Sherman, JE. Somatosensory-Evoked Potential Spinal-Cord Monitoring Reduces Neurologic Deficits After Scoliosis Surgery - Results Of A Large Multicenter Survey. Evoked Potentials-Electroencephalography And Clinical Neurophysiology 1995; 96(1):6-11 | 0 | 2012 | 17 | 13.95 ± 6.55 | 15 | 307 |
| 5 | Suk, SI; Kim, WJ; Lee, SM; Kim, JH; Chung, ER. Thoracic Pedicle Screw Fixation In Spinal Deformities - Are They Really Safe?. Spine 2001; 26(18):2049-2057 | 1 | 2008 | 7 | 17.25 ± 9.22 | 16 | 276 |
| 6 | Cochran, T; Irstam, L; Nachemson, A. Long-Term Anatomic And Functional-Changes In Patients With Adolescent Idiopathic Scoliosis Treated By Harrington Rod Fusion. Spine 1983; 8(6):576-584 | 1 | 2013 | 30 | 7.29 ± 4.97 | 6 | 248 |
| 7 | Liljenqvist, UR; Halm, HFH; Link, TM. Pedicle Screw Instrumentation Of The Thoracic Spine In Idiopathic Scoliosis. Spine 1997; 22(19):2239-2245 | 1 | 2007 | 10 | 12.35 ± 7.28 | 13 | 247 |
| 8 | Macewen, GD; Bunnell, WP; Sriram, K. Acute Neurological Complications In Treatment Of Scoliosis - Report Of Scoliosis Research Society. Journal Of Bone And Joint Surgery-American Volume 1975; 57A(3):404-408 | 0 | 1988 | 13 | 5.83 ± 3.4 | 7 | 245 |
| 9 | Boyd, SG; Rothwell, JC; Cowan, JMA; Webb, PJ; Morley, T; Asselman, P; Marsden, CD. A Method Of Monitoring Function In Corticospinal Pathways During Scoliosis Surgery With A Note On Motor Conduction Velocities. Journal Of Neurology Neurosurgery And Psychiatry 1986; 49(3):251-257 | 0 | 1991 | 5 | 7.87 ± 5.44 | 6 | 244 |
| 10 | Kim, YJ; Lenke, LG; Cho, SK; Bridwell, KH; Sides, B; Blanke, K. Comparative Analysis Of Pedicle Screw Versus Hook Instrumentation In Posterior Spinal Fusion Of Adolescent Idiopathic Scoliosis. Spine 2004; 29(18):2040-2048 | 1 | 2012 | 8 | 17.23 ± 10.79 | 15 | 224 |
| 11 | Haher, TR; Gorup, JM; Shin, TM; Homel, P; Merola, AA; Grogan, DP; Pugh, L; Lowe, TG; Murray, M. Results Of The Scoliosis Research Society Instrument For Evaluation Of Surgical Outcome In Adolescent Idiopathic Scoliosis - A Multicenter Study Of 244 Patients. Spine 1999; 24(14):1435-1440 | 0 | 2007 | 8 | 12 ± 6.81 | 7 | 216 |
| 12 | Betz, RR; Harms, J; Clements, DH; Lenke, LG; Lowe, TG; Shufflebarger, HL; Jeszensky, D; Beele, B. Comparison Of Anterior And Posterior Instrumentation For Correction Of Adolescent Thoracic Idiopathic Scoliosis. Spine 1999; 24(3):225-239 | 0 | 2007 | 8 | 11.11 ± 5.26 | 4 | 200 |
| 13 | Kim, YJ; Lenke, LG; Kim, J; Bridwell, KH; Cho, SK; Cheh, G; Sides, B. Comparative Analysis Of Pedicle Screw Versus Hybrid Instrumentation In Posterior Spinal Fusion Of Adolescent Idiopathic Scoliosis. Spine 2006; 31(3):291-298 | 0 | 2012 | 6 | 17.73 ± 10.17 | 11 | 195 |
| 14 | Suk, S; Kim, JH; Kim, WJ; Lee, SM; Chung, ER; Nah, KH. Posterior Vertebral Column Resection For Severe Spinal Deformities. Spine 2002; 27(21):2374-2382 | 1 | 2013 | 11 | 11.8 ± 9.71 | 27 | 177 |
| 15 | Lenke, LG; Bridwell, KH; Baldus, C; Blanke, K; Schoenecker, PL. Cotrel-Dubousset Instrumentation For Adolescent Idiopathic Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1992; 74A(7):1056-1067 | 2 | 2003 | 11 | 6.72 ± 4.75 | 4 | 168 |
| 16 | Lee, SM; Suk, SI; Chung, ER. Direct Vertebral Rotation: A New Technique Of Three-Dimensional Deformity Correction With Segmental Pedicle Screw Fixation In Adolescent Idiopathic Scoliosis. Spine 2004; 29(3):343-349 | 1 | 2012 | 8 | 12.69 ± 8.76 | 14 | 165 |
| 17 | Suk, SI; Lee, CK; Min, HJ; Cho, KH; Oh, JH. Comparison Of Cotrel-Dubousset Pedicle Screws And Hooks In The Treatment Of Idiopathic Scoliosis. International Orthopaedics 1994; 18(6):341-346 | 2 | 2008 | 14 | 6.83 ± 5.31 | 5 | 157 |
| 18 | Akbarnia, BA; Marks, DS; Boachie-Adjei, O; Thompson, AG; Asher, MA. Dual Growing Rod Technique For The Treatment Of Progressive Early-Onset Scoliosis - A Multicenter Study. Spine 2005; 30(17):S46-S57 | 1 | 2011 | 6 | 12.92 ± 8.1 | 17 | 155 |
| 19 | Suk, SI; Lee, SM; Chung, ER; Kim, JH; Kim, SS. Selective Thoracic Fusion With Segmental Pedicle Screw Fixation In The Treatment Of Thoracic Idiopathic Scoliosis - More Than 5-Year Follow-Up. Spine 2005; 30(14):1602-1609 | 1 | 2011 | 6 | 12.5 ± 8.29 | 6 | 150 |
| 20 | Winter, RB; Moe, JH; Eilers, VE. Congenital Scoliosis - A Study Of 234 Patients Treated And Untreated .I. Natural History .2. Treatment. Journal Of Bone And Joint Surgery-American Volume 1968; 50A(1):1-& | 2 | 2002 | 34 | 3 ± 2.28 | 1 | 147 |
| 21 | Liljenqvist, U; Lepsien, U; Hackenberg, L; Niemeyer, T; Halm, H. Comparative Analysis Of Pedicle Screw And Hook Instrumentation In Posterior Correction And Fusion Of Idiopathic Thoracic Scoliosis. European Spine Journal 2002; 11(4):336-343 | 2 | 2007 | 5 | 9.73 ± 5.99 | 6 | 146 |
| 22 | Emami, A; Deviren, V; Berven, S; Smith, Ja; Hu, SS; Bradford, DS. Outcome And Complications Of Long Fusions To The Sacrum In Adult Spine Deformity - Luque-Galveston, Combined Iliac And Sacral Screws, And Sacral Fixation. Spine 2002; 27(7):776-786 | 1 | 2010 | 8 | 9.73 ± 6.46 | 11 | 146 |
| 23 | Engler, GL; Spielholz, NI; Bernhard, WN; Danziger, F; Merkin, H; Wolff, T. Somatosensory Evoked-Potentials During Harrington Instrumentation For Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1978; 60(4):528-532 | 3 | 1984 | 6 | 3.69 ± 3.62 | 0 | 144 |
| 24 | Asher, MA; Lai, SM; Burton, DC. Further Development And Validation Of The Scoliosis Research Society (Srs) Outcomes Instrument. Spine 2000; 25(18):2381-2386 | 1 | 2003 | 3 | 8.29 ± 4.25 | 7 | 141 |
| 25 | Suk, SI; Chung, ER; Kim, JH; Kim, SS; Lee, JS; Choi, WK. Posterior Vertebral Column Resection For Severe Rigid Scoliosis. Spine 2005; 30(14):1682-1687 | 1 | 2012 | 7 | 11.5 ± 8.4 | 21 | 138 |
| 26 | Stokes, IAF; Spence, H; Aronsson, DD; Kilmer, N. Mechanical Modulation Of Vertebral Body Growth - Implications For Scoliosis Progression. Spine 1996; 21(10):1162-1167 | 1 | 2006 | 10 | 6.43 ± 4.94 | 7 | 135 |
| 27 | Rajasekaran, S.; Vidyadhara, S.; Ramesh, Perumal; Shetty, Ajoy P.. Randomized Clinical Study To Compare The Accuracy Of Navigated And Non-Navigated Thoracic Pedicle Screws In Deformity Correction Surgeries. Spine 2007; 32(2):E56-E64 | 0 | 2011 | 4 | 13.4 ± 8.77 | 10 | 134 |
| 28 | James, JIP. Idiopathic Scoliosis - The Prognosis, Diagnosis, And Operative Indications Related To Curve Patterns And The Age At Onset. Journal Of Bone And Joint Surgery-British Volume 1954; 36(1):36-49 | 1 | 2007 | 53 | 2.1 ± 2.1 | 4 | 132 |
| 29 | Ransford, AO; Morley, T; Edgar, MA; Webb, P; Passuti, N; Chopin, D; Morin, C; Michel, F; Garin, C; Pries, D. Synthetic Porous Ceramic Compared With Autograft In Scoliosis Surgery - A Prospective, Randomised Study Of 341 Patients. Journal Of Bone And Joint Surgery-British Volume 1998; 80B(1):13-18 | 0 | 2008 | 10 | 6.68 ± 3.87 | 1 | 127 |
| 30 | Richards, BS. Delayed Infections Following Posterior Spinal Instrumentation For The Treatment Of Idiopathic Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1995; 77A(4):524-529 | 1 | 2012 | 17 | 5.68 ± 3.21 | 5 | 125 |
| 31 | Hamill, CL; Lenke, LG; Bridwell, KH; Chapman, MP; Blanke, K; Baldus, C. The Use Of Pedicle Screw Fixation To Improve Correction In The Lumbar Spine Of Patients With Idiopathic Scoliosis - Is It Warranted?. Spine 1996; 21(10):1241-1249 | 1 | 2007 | 11 | 5.9 ± 4.15 | 4 | 124 |
| 32 | Dwyer, AF; Schafer, MF. Anterior Approach To Scoliosis - Results Of Treatment In 51 Cases. Journal Of Bone And Joint Surgery-British Volume 1974; 56B(2):218-224 | 1 | 2000 | 26 | 2.88 ± 2.26 | 2 | 124 |
| 33 | Lenke, LG; Betz, RR; Bridwell, KH; Harms, J; Clements, DH; Lowe, TG. Spontaneous Lumbar Curve Coronal Correction After Selective Anterior Or Posterior Thoracic Fusion In Adolescent Idiopathic Scoliosis. Spine 1999; 24(16):1663-1671 | 0 | 2003 | 4 | 6.83 ± 3.52 | 8 | 123 |
| 34 | Schwab, Frank; Patel, Ashish; Ungar, Benjamin; Farcy, Jean-Pierre; Lafage, Virginie. Adult Spinal Deformity-Postoperative Standing Imbalance How Much Can You Tolerate? An Overview Of Key Parameters In Assessing Alignment And Planning Corrective Surgery. Spine 2010; 35(25):2224-2231 | 1 | 2015 | 5 | 17.43 ± 15.08 | 38 | 122 |
| 35 | Newton, PO; Wenger, DR; Mubarak, SJ; Meyer, RS. Anterior Release And Fusion In Pediatric Spinal Deformity - A Comparison Of Early Outcome And Cost Of Thoracoscopic And Open Thoracotomy Approaches. Spine 1997; 22(12):1398-1406 | 1 | 2004 | 7 | 6.1 ± 3.97 | 1 | 122 |
| 36 | Allen, BL; Ferguson, RL. The Galveston Technique For L-Rod Instrumentation Of The Scoliotic Spine. Spine 1982; 7(3):276-284 | 1 | 1988 | 6 | 3.46 ± 2.55 | 0 | 121 |
| 37 | Schwartz, Daniel M.; Auerbach, Joshua D.; Dormans, John P.; Flynn, John; Bowe, Andrew; Laufer, Samuel; Shah, Suken A.; Bowen, Richard; Pizzutillo, Peter D.; Jones, Kristofer J.; Drummond, Denis S.. Neurophysiological Detection Of Impending Spinal Cord Injury During Scoliosis Surgery. Journal Of Bone And Joint Surgery-American Volume 2007; 89A(11):2440-2449 | 1 | 2010 | 3 | 11.9 ± 7.48 | 17 | 119 |
| 38 | Danielsson, AJ; Wiklund, I; Pehrsson, K; Nachemson, AL. Health-Related Quality Of Life In Patients With Adolescent Idiopathic Scoliosis: A Matched Follow-Up After Treatment With At Least 20 Years Brace Or Surgery. European Spine Journal 2001; 10(4):278-288 | 1 | 2006 | 5 | 7.44 ± 3.89 | 9 | 119 |
| 39 | Dobbs, Matthew B.; Lenke, Lawrence G.; Kim, Yongjung J.; Kamath, Ganesh; Peelle, Michael W.; Bridwell, Keith H.. Selective Posterior Thoracic Fusions For Adolescent Idiopathic Scoliosis. Spine 2006; 31(20):2400-2404 | 1 | 2011 | 5 | 10.73 ± 6.82 | 8 | 118 |
| 40 | Thompson, JP; Transfeldt, EE; Bradford, DS; Ogilvie, JW; Boachieadjei, O. Decompensation After Cotrel-Dubousset Instrumentation Of Idiopathic Scoliosis. Spine 1990; 15(9):927-931 | 2 | 2007 | 17 | 4.33 ± 3.01 | 4 | 117 |
| 41 | Cho, Kyu-Jung; Suk, Se-Il; Park, Seung-Rim; Kim, Jin-Hyok; Kim, Sung-Soo; Choi, Won-Kee; Lee, Kang-Yoon; Lee, Seung-Ryol. Complications In Posterior Fusion And Instrumentation For Degenerative Lumbar Scoliosis. Spine 2007; 32(20):2232-2237 | 1 | 2012 | 5 | 11.6 ± 7.57 | 12 | 116 |
| 42 | Sponseller, PD; Laporte, DM; Hungerford, MW; Eck, K; Bridwell, KH; Lenke, LG. Deep Wound Infections After Neuromuscular Scoliosis Surgery - A Multicenter Study Of Risk Factors And Treatment Outcomes. Spine 2000; 25(19):2461-2466 | 2 | 2011 | 11 | 6.82 ± 5.47 | 10 | 116 |
| 43 | Cotrel, Y; Dubousset, J. A New Technique Of Spine Fixation By A Posterior Approach In The Treatment Of Scoliosis. Revue De Chirurgie Orthopedique Et Reparatrice De L Appareil Moteur 1984; 70(6):489-494 | 2 | 2011 | 27 | 3.48 ± 2.24 | 6 | 115 |
| 44 | Leatherman, KD; Dickson, RA. 2-Stage Corrective Surgery For Congenital Deformities Of The Spine. Journal Of Bone And Joint Surgery-British Volume 1979; 61(3):324-328 | 2 | 2011 | 32 | 3.03 ± 3.06 | 2 | 115 |
| 45 | Lenke, Lawrence G.; O'Leary, Patrick T.; Bridwell, Keith H.; Sides, Brenda A.; Koester, Linda A.; Blanke, Kathy M.. Posterior Vertebral Column Resection For Severe Pediatric Deformity. Spine 2009; 34(20):2213-2221 | 1 | 2014 | 5 | 14.25 ± 9.4 | 19 | 114 |
| 46 | Coe, JD; Arlet, V; Donaldson, W; Berven, S; Hanson, DS; Mudiyam, R; Perra, JH; Shaffrey, CI. Complications In Spinal Fusion For Adolescent Idiopathic Scoliosis In The New Millennium. A Report Of The Scoliosis Research Society Morbidity And Mortality Committee. Spine 2006; 31(3):345-349 | 0 | 2008 | 2 | 10.36 ± 5.88 | 15 | 114 |
| 47 | Barr, SJ; Schuette, AM; Emans, JB. Lumbar Pedicle Screws Versus Hooks - Results In Double Major Curves In Adolescent Idiopathic Scoliosis. Spine 1997; 22(12):1369-1379 | 1 | 2007 | 10 | 5.7 ± 3.3 | 3 | 114 |
| 48 | Lowenstein, Jason E.; Matsumoto, Hiroko; Vitale, Michael G.; Weidenbaum, Mark; Gomez, Jaime A.; Lee, Francis Young-In; Hyman, Joshua E.; Roye, David P., Jr.. Coronal And Sagittal Plane Correction In Adolescent Idiopathic Scoliosis - A Comparison Between All Pedicle Screw Versus Hybrid Thoracic Hook Lumbar Screw Constructs. Spine 2007; 32(4):448-452 | 1 | 2012 | 5 | 11.3 ± 7.64 | 6 | 113 |
| 49 | Kaneda, K; Shono, Y; Satoh, S; Abumi, K. New Anterior Instrumentation For The Management Of Thoracolumbar And Lumbar Scoliosis - Application Of The Kaneda Two-Rod System. Spine 1996; 21(10):1250-1261 | 1 | 2002 | 6 | 5.38 ± 3.11 | 3 | 113 |
| 50 | Liljenqvist, UR; Link, TM; Halm, HFH. Morphometric Analysis Of Thoracic And Lumbar Vertebrae In Idiopathic Scoliosis. Spine 2000; 25(10):1247-1253 | 1 | 2012 | 12 | 6.59 ± 3.84 | 6 | 112 |
| 51 | Dakwar, Elias; Cardona, Rafael F.; Smith, Donald A.; Uribe, Juan S.. Early Outcomes And Safety Of The Minimally Invasive, Lateral Retroperitoneal Transpsoas Approach For Adult Degenerative Scoliosis. Neurosurgical Focus 2010; 28(3) | 0 | 2014 | 4 | 15.86 ± 9.49 | 23 | 111 |
| 52 | Lonstein, JE; Akbarnia, BA. Operative Treatment Of Spinal Deformities In Patients With Cerebral-Palsy Or Mental-Retardation - An Analysis Of 107 Cases. Journal Of Bone And Joint Surgery-American Volume 1983; 65(1):43-55 | 5 | 2003 | 20 | 3.21 ± 2.73 | 3 | 109 |
| 53 | Tsuchiya, K; Bridwell, KH; Kuklo, TR; Lenke, LG; Baldus, C. Minimum 5-Year Analysis Of L5-S1 Fusion Using Sacropelvic Fixation (Bilateral S1 And Iliac Screws) For Spinal Deformity. Spine 2006; 31(3):303-308 | 0 | 2010 | 4 | 9.82 ± 5.36 | 11 | 108 |
| 54 | Bradford, DS; Tay, BKB; Hu, SS. Adult Scoliosis: Surgical Indications, Operative Management, Complications, And Outcomes. Spine 1999; 24(24):2617-2629 | 3 | 2010 | 11 | 6 ± 4.68 | 3 | 108 |
| 55 | Liljenqvist, UR; Allkemper, T; Hackenberg, L; Link, TM; Steinbeck, J; Halm, HFH. Analysis Of Vertebral Morphology In Idiopathic Scoliosis With Use Of Magnetic Resonance Imaging And Multiplanar Reconstruction. Journal Of Bone And Joint Surgery-American Volume 2002; 84A(3):359-368 | 0 | 2010 | 8 | 7.07 ± 4.22 | 4 | 106 |
| 56 | Bridwell, KH; Mcallister, JW; Betz, RR; Huss, G; Clancy, M; Schoenecker, PL. Coronal Decompensation Produced By Cotrel-Dubousset Derotation Maneuver For Idiopathic Right Thoracic Scoliosis. Spine 1991; 16(7):769-777 | 1 | 2000 | 9 | 4.08 ± 2.7 | 2 | 106 |
| 57 | Asher, M; Lai, SM; Burton, D; Manna, B. Scoliosis Research Society-22 Patient Questionnaire - Responsiveness To Change Associated With Surgical Treatment. Spine 2003; 28(1):70-73 | 0 | 2007 | 4 | 7.5 ± 4.15 | 7 | 105 |
| 58 | Luque, ER. Segmental Spinal Instrumentation For Correction Of Scoliosis. Clinical Orthopaedics And Related Research 1982; (163):192-198 | 14 | 2011 | 29 | 3 ± 3.12 | 5 | 105 |
| 59 | Suk, SI; Lee, SM; Chung, ER; Kim, JH; Kim, WJ; Sohn, HM. Determination Of Distal Fusion Level With Segmental Pedicle Screw Fixation In Single Thoracic Idiopathic Scoliosis. Spine 2003; 28(5):484-491 | 0 | 2013 | 10 | 7.43 ± 4.47 | 9 | 104 |
| 60 | O'Brien, MF; Lenke, LG; Mardjetko, S; Lowe, TG; Kong, YN; Eck, K; Smith, D. Pedicle Morphology In Thoracic Adolescent Idiopathic Scoliosis - Is Pedicle Fixation An Anatomically Viable Technique?. Spine 2000; 25(18):2285-2293 | 2 | 2004 | 4 | 6.12 ± 4.39 | 5 | 104 |
| 61 | Kim, YJJ; Lenke, LG; Bridwell, KH; Kim, KL; Steger-May, K. Pulmonary Function In Adolescent Idiopathic Scoliosis Relative To The Surgical Procedure. Journal Of Bone And Joint Surgery-American Volume 2005; 87A(7):1534-1541 | 0 | 2008 | 3 | 8.58 ± 5.44 | 4 | 103 |
| 62 | Moe, JH. A Critical Analysis Of Methods Of Fusion For Scoliosis - An Evaluation In 266 Patients. Journal Of Bone And Joint Surgery-American Volume 1958; 40(3):529-& | 4 | 1973 | 15 | 1.75 ± 1.9 | 2 | 103 |
| 63 | Swank, S; Lonstein, JE; Moe, JH; Winter, RB; Bradford, DS. Surgical-Treatment Of Adult Scoliosis - A Review Of 222 Cases. Journal Of Bone And Joint Surgery-American Volume 1981; 63(2):268-287 | 1 | 1988 | 7 | 2.83 ± 2.25 | 3 | 102 |
| 64 | Daubs, Michael D.; Lenke, Lawrence G.; Cheh, Gene; Stobbs, Georgia; Bridwell, Keith H.. Adult Spinal Deformity Surgery - Complications And Outcomes In Patients Over Age 60. Spine 2007; 32(20):2238-2244 | 1 | 2013 | 6 | 9.9 ± 6.3 | 17 | 99 |
| 65 | Graham, EJ; Lenke, LG; Lowe, TG; Betz, Rr; Bridwell, KH; Kong, Y; Blanke, K. Prospective Pulmonary Function Evaluation Following Open Thoracotomy For Anterior Spinal Fusion In Adolescent Idiopathic Scoliosis. Spine 2000; 25(18):2319-2325 | 1 | 2005 | 5 | 5.82 ± 3.85 | 3 | 99 |
| 66 | Bridwell, KH; Lenke, LG; Baldus, C; Blanke, K. Major Intraoperative Neurologic Deficits In Pediatric And Adult Spinal Deformity Patients - Incidence And Etiology At One Institution. Spine 1998; 23(3):324-331 | 0 | 2008 | 10 | 5.21 ± 3.2 | 7 | 99 |
| 67 | Richards, BS; Herring, JDA; Johnston, CE; Birch, JG; Roach, JW. Treatment Of Adolescent Idiopathic Scoliosis Using Texas Scottish Rite Hospital Instrumentation. Spine 1994; 19(14):1598-1605 | 1 | 1999 | 5 | 4.3 ± 3.14 | 2 | 99 |
| 68 | Moskowitz, A; Moe, JH; Winter, RB; Binner, H. Long-Term Follow-Up Of Scoliosis Fusion. Journal Of Bone And Joint Surgery-American Volume 1980; 62(3):364-376 | 1 | 1988 | 8 | 2.68 ± 1.97 | 0 | 99 |
| 69 | Anand, Neel; Baron, Eli M.; Thaiyananthan, Gowriharan; Khalsa, Kunwar; Goldstein, Theodore B.. Minimally Invasive Multilevel Percutaneous Correction And Fusion For Adult Lumbar Degenerative Scoliosis A Technique And Feasibility Study. Journal Of Spinal Disorders & Techniques 2008; 21(7):459-467 | 1 | 2014 | 6 | 10.78 ± 8.12 | 12 | 97 |
| 70 | White, SF; Asher, MA; Lai, SM; Burton, DC. Patients' Perceptions Of Overall Function, Pain, And Appearance After Primary Posterior Instrumentation And Fusion For Idiopathic Scoliosis. Spine 1999; 24(16):1693-1699 | 1 | 2007 | 8 | 5.39 ± 3.43 | 3 | 97 |
| 71 | Lenke, LG; Edwards, CC; Bridwell, KH. The Lenke Classification Of Adolescent Idiopathic Scoliosis: How It Organizes Curve Patterns As A Template To Perform Selective Fusions Of The Spine. Spine 2003; 28(20):S199-S207 | 1 | 2013 | 10 | 6.79 ± 5.33 | 8 | 95 |
| 72 | Vora, Vagmin; Crawford, Alvin; Babekhir, Nadir; Boachie-Adjei, Oheneba; Lenke, Lawrence; Peskin, Melissa; Charles, Gina; Kim, Yongjung. A Pedicle Screw Construct Gives An Enhanced Posterior Correction Of Adolescent Idiopathic Scoliosis When Compared With Other Constructs - Myth Or Reality. Spine 2007; 32(17):1869-1874 | 1 | 2013 | 6 | 9.4 ± 6.76 | 7 | 94 |
| 73 | Rhee, JM; Bridwell, KH; Won, DS; Lenke, LG; Chotigavanichaya, C; Hanson, DS. Sagittal Plane Analysis Of Adolescent Idiopathic Scoliosis The - Effect Of Anterior Versus Posterior Instrumentation. Spine 2002; 27(21):2350-2356 | 1 | 2013 | 11 | 6.2 ± 3.45 | 3 | 93 |
| 74 | Sweet, FA; Lenke, LG; Bridwell, KH; Blanke, KM; Whorton, J. Prospective Radiographic And Clinical Outcomes And Complications Of Single Solid Rod Instrumented Anterior Spinal Fusion In Adolescent Idiopathic Scoliosis. Spine 2001; 26(18):1956-1965 | 1 | 2010 | 9 | 5.81 ± 3.8 | 3 | 93 |
| 75 | Dewald, Christopher J.; Stanley, Thomas. Instrumentation-Related Complications Of Multilevel Fusions For Adult Spinal Deformity Patients Over Age 65 - Surgical Considerations And Treatment Option In Patients With Poor Bone Quality. Spine 2006; 31(19):S144-S151 | 1 | 2013 | 7 | 8.27 ± 6.11 | 16 | 91 |
| 76 | Dickson, JH; Mirkovic, S; Noble, PC; Nalty, T; Erwin, WD. Results Of Operative Treatment Of Idiopathic Scoliosis In Adults. Journal Of Bone And Joint Surgery-American Volume 1995; 77A(4):513-523 | 1 | 2009 | 14 | 4.14 ± 2.94 | 1 | 91 |
| 77 | Bradford, DS; Boachieadjei, O. One-Stage Anterior And Posterior Hemivertebral Resection And Arthrodesis For Congenital Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1990; 72A(4):536-540 | 3 | 2002 | 12 | 3.37 ± 3.03 | 2 | 91 |
| 78 | Broom, MJ; Banta, JV; Renshaw, TS. Spinal-Fusion Augmented By Luque-Rod Segmental Instrumentation For Neuromuscular Scoliosis. Journal Of Bone And Joint Surgery-American Volume 1989; 71A(1):32-44 | 1 | 1997 | 8 | 3.25 ± 2.37 | 3 | 91 |
| 79 | Klemme, WR; Denis, F; Winter, RB; Lonstein, JW; Koop, SE. Spinal Instrumentation Without Fusion For Progressive Scoliosis In Young Children. Journal Of Pediatric Orthopaedics 1997; 17(6):734-742 | 4 | 2011 | 14 | 4.5 ± 4.13 | 6 | 90 |
| 80 | Connolly, PJ; Vonschroeder, HP; Johnson, GE; Kostuik, JP. Adolescent Idiopathic Scoliosis - Long-Term Effect Of Instrumentation Extending To The Lumbar Spine. Journal Of Bone And Joint Surgery-American Volume 1995; 77A(8):1210-1216 | 2 | 2013 | 18 | 4.09 ± 2.47 | 3 | 90 |
| 81 | Vedantam, R; Lenke, LG; Bridwell, KH; Haas, J; Linville, DA. A Prospective Evaluation Of Pulmonary Function In Patients With Adolescent Idiopathic Scoliosis Relative To The Surgical Approach Used For Spinal Arthrodesis. Spine 2000; 25(1):82-90 | 1 | 2008 | 8 | 5.24 ± 3.52 | 3 | 89 |
| 82 | Thompson, George H.; Akbarnia, Behrooz A.; Campbell, Robert M., Jr.. Growing Rod Techniques In Early-Onset Scoliosis. Journal Of Pediatric Orthopaedics 2007; 27(3):354-361 | 0 | 2011 | 4 | 8.7 ± 5.25 | 10 | 87 |
| 83 | Halm, H; Niemeyer, T; Link, T; Liljenqvist, U. Segmental Pedicle Screw Instrumentation In Idiopathic Thoracolumbar And Lumbar Scoliosis. European Spine Journal 2000; 9(3):191-197 | 2 | 2008 | 8 | 5.12 ± 3.48 | 2 | 87 |
| 84 | Edmonds, HL; Paloheimo, MPJ; Backman, MH; Johnson, Jr; Holt, RT Shields, CB. Transcranial Magnetic Motor Evoked-Potentials (Tcmmep) For Functional Monitoring Of Motor Pathways During Scoliosis Surgery. Spine 1989; 14(7):683-686 | 1 | 1996 | 7 | 3.11 ± 3.32 | 1 | 87 |
| 85 | Glassman, Steven D.; Hamill, Christopher L.; Bridwell, Keith H.; Schwab, Frank J.; Dimar, John R.; Lowe, Thomas G.. The Impact Of Perioperative Complications On Clinical Outcome In Adult Deformity Surgery. Spine 2007; 32(24):2764-2770 | 1 | 2013 | 6 | 8.6 ± 6.34 | 15 | 86 |
| 86 | Kostuik, JP; Hall, BB. Spinal Fusions To The Sacrum In Adults With Scoliosis. Spine 1983; 8(5):489-500 | 3 | 2010 | 27 | 2.53 ± 2.02 | 5 | 86 |
| 87 | Macdonald, DB; Al Zayed, Z; Khoudeir, I; Stigsby, B. Monitoring Scoliosis Surgery With Combined Multiple Pulse Transcranial Electric Motor And Cortical Somatosensory-Evoked Potentials From The Lower And Upper Extremities. Spine 2003; 28(2):194-203 | 1 | 2010 | 7 | 6.07 ± 3.08 | 6 | 85 |
| 88 | D'Andrea, LP; Betz, RR; Lenke, LG; Clements, DH; Lowe, TG; Merola, A; Haher, T; Harms, J; Huss, GK; Blanke, K; Mcglothlen, S. Do Radiographic Parameters Correlate With Clinical Outcomes In Adolescent Idiopathic Scoliosis?. Spine 2000; 25(14):1795-1801 | 1 | 2007 | 7 | 5 ± 3.22 | 3 | 85 |
| 89 | Grubb, SA; Lipscomb, Hj; Suh, PB. Results Of Surgical-Treatment Of Painful Adult Scoliosis. Spine 1994; 19(14):1619-1627 | 3 | 2010 | 16 | 3.7 ± 3.17 | 2 | 85 |
| 90 | Isaacs, Robert E.; Hyde, Jonathan; Goodrich, J. Allan; Rodgers, William Blake; Phillips, Frank M.. A Prospective, Nonrandomized, Multicenter Evaluation Of Extreme Lateral Interbody Fusion For The Treatment Of Adult Degenerative Scoliosis Perioperative Outcomes And Complications. Spine 2010; 35(26):S322-S330 | 1 | 2014 | 4 | 12 ± 9.1 | 20 | 84 |
| 91 | Glattes, RC; Bridwell, KH; Lenke, LG; Kim, YJ; Rinella, A; Edwards, C. Proximal Junctional Kyphosis In Adult Spinal Deformity Following Long Instrumented Posterior Spinal Fusion - Incidence, Outcomes, And Risk Factor Analysis. Spine 2005; 30(14):1643-1649 | 1 | 2014 | 9 | 7 ± 5.31 | 10 | 84 |
| 92 | Katz, DE; Durrani, AA. Factors That Influence Outcome In Bracing Large Curves In Patients With Adolescent Idiopathic Scoliosis. Spine 2001; 26(21):2354-2361 | 2 | 2008 | 7 | 5.25 ± 3.96 | 5 | 84 |
| 93 | Benson, ER; Thomson, JD; Smith, BG; Banta, JV. Results And Morbidity In A Consecutive Series Of Patients Undergoing Spinal Fusion For Neuromuscular Scoliosis. Spine 1998; 23(21):2308-2317 | 2 | 2010 | 12 | 4.42 ± 3.68 | 4 | 84 |
| 94 | Richards, BS; Birch, JG; Herring, JA; Johnston, CE; Roach, JW. Frontal Plane And Sagittal Plane Balance Following Cotrel-Dubousset Instrumentation For Idiopathic Scoliosis. Spine 1989; 14(7):733-737 | 3 | 2000 | 11 | 3 ± 2.88 | 0 | 84 |
| 95 | Potter, BK; Kuklo, TR; Lenke, LG. Radiographic Outcomes Of Anterior Spinal Fusion Versus Posterior Spinal Fusion With Thoracic Pedicle Screws For Treatment Of Lenke Type I Adolescent Idiopathic Scoliosis Curves. Spine 2005; 30(16):1859-1866 | 1 | 2009 | 4 | 6.92 ± 4.21 | 3 | 83 |
| 96 | Neilipovitz, DT; Murto, K; Hall, L; Barrowman, NJ; Splinter, WM. A Randomized Trial Of Tranexamic Acid To Reduce Blood Transfusion For Scoliosis Surgery. Anesthesia And Analgesia 2001; 93(1):82-87 | 1 | 2015 | 14 | 5.19 ± 3.54 | 11 | 83 |
| 97 | Hicks, John M.; Singla, Amit; Shen, Francis H.; Arlet, Vincent. Complications Of Pedicle Screw Fixation In Scoliosis Surgery A Systematic Review. Spine 2010; 35(11):E465-E470 | 0 | 2012 | 2 | 11.71 ± 8.94 | 10 | 82 |
| 98 | Karol, Lori A.; Johnston, Charles; Mladenov, Kiril; Schochet, Peter; Walters, Patricia; Browne, Richard H.. Pulmonary Function Following Early Thoracic Fusion In Non-Neuromuscular Scoliosis. Journal Of Bone And Joint Surgery-American Volume 2008; 90A(6):1272-1281 | 1 | 2015 | 7 | 9.11 ± 5.69 | 17 | 82 |
| 99 | Luhmann, SJ; Lenke, LG; Kim, YJ; Bridwell, KH; Schootman, M. Thoracic Adolescent Idiopathic Scoliosis Curves Between 70 Degrees And 100 Degrees - Is Anterior Release Necessary?. Spine 2005; 30(18):2061-2067 | 1 | 2008 | 3 | 6.83 ± 4.2 | 4 | 82 |
| 100 | Jevsevar, DS; Karlin, LI. The Relationship Between Preoperative Nutritional-Status And Complications After An Operation For Scoliosis In Patients Who Have Cerebral-Palsy. Journal Of Bone And Joint Surgery-American Volume 1993; 75A(6):880-884 | 3 | 2010 | 17 | 3.42 ± 2.29 | 6 | 82 |