

## Prof. Ahmet ALANAY

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 201733

### Biography

Ahmet Alanay MD is a spine surgeon treating both adult and pediatric spinal disorders. He graduated from Ankara University Faculty of Medicine in 1988. He completed his residency in Hacettepe University, Department of Orthopedics and Traumatology from 1991 to 1996. He started his career as an assistant professor in the same department and became an associate professor in 2002 and a professor in 2007. He also completed a fellowship program on spinal deformities at University of Kansas Medical Center and was a visiting professor from 2005 to 2006 in UCLA School of Medicine.

Dr. Alanay established the Comprehensive Spine Center at Acibadem Maslak Hospital in 2013. Since then, he is the medical director of the center and is also a faculty member at Acibadem University School of Medicine. Each year, with his team, he treats over 2500 outpatients, operates approximately 200 patients and publishes more than 20 peer-reviewed publications in high-ranking international journals along with numerous national and international presentations at scientific meetings.

Dr. Alanay is an active member of medical associations including American Academy of Orthopaedic Surgeons, Scoliosis Research Society, North American Spine Society, Spine Society of Europe and many others. He was a member of the Board of Directors of Scoliosis Research Society between 2014 and 2016, where he still serves in the Education Committee and Safety & Value Committee. He was also in the executive committee of Spine Society of Europe between 2006 and 2012.

Dr. Alanay has been the pioneer of Vertebral Body Tethering surgery in Europe and has received many national and international honors and awards for his scientific studies. He personally contributes to the training of surgeons through the courses he organizes in all around the world.

He has been a founding member of the European Spine Study Group.

He is the President Elect of Eurospine.

## Education Information

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, Turkey 1991 - 1996  
Undergraduate, Ankara University, Tıp Fakültesi, Turkey 1982 - 1988

## Foreign Languages

German, A1 Beginner  
English, C1 Advanced

## Research Areas

Medicine, Health Sciences, Surgery Medicine Sciences, Orthopedics and Traumatology

## Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Surgical Sciences, 2014 -  
Continues

## Courses

Orthopedy & PTR General Case Discussion, Undergraduate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Independent Prognostic Factors Associated With Improved Patient-Reported Outcomes in the Prospective Evaluation of Elderly Deformity Surgery (PEEDS) Study**  
Hassan F. G., Lenke L. H., Berven S. P., Kelly M. S., Smith J. I., Shaffrey C. T., Dahl B., de Kleuver M., Spruit M., Peliise F., et al.  
GLOBAL SPINE JOURNAL, vol.14, no.8, pp.2298-2310, 2024 (SCI-Expanded)
- II. **The Influence of Multilevel Spinal Deformity Surgery on the EuroQol 5 Dimensions' (EQ-5D) Questionnaire and Residential Status in the Elderly: A Prospective, Observational, Multicenter Study**  
Jentzsch T., Lewis S. J., Oitment C., Rienmueller A., Martin A. R., Nielsen C. J., Shear-Yashuv H., de Kleuver M., Qiu Y., Matsuyama Y., et al.  
GLOBAL SPINE JOURNAL, vol.14, no.7, pp.1978-1989, 2024 (SCI-Expanded)
- III. **Sagittal alignment of diverse mechanical complications following adult spinal deformity surgery**  
Pan C., Bourghli A., Larrieu D., Boissiere L., Pizones J., ALANAY A., Peliise F., Kleinstuck F., Obeid I.  
EUROPEAN SPINE JOURNAL, vol.33, no.5, pp.1857-1867, 2024 (SCI-Expanded)
- IV. **The Impact of Unplanned Reoperation Following Adult Spinal Deformity Surgery: A Prospective Longitudinal Cohort Study with 5-Year Follow-up**  
Pellisé F., Bayo M. C., Ruiz De Villa A., Núñez-Pereira S., Haddad S., Barcheni M., Pizones J., Valencia M. R., Obeid I., ALANAY A., et al.  
Journal of Bone and Joint Surgery, vol.106, no.8, pp.681-689, 2024 (SCI-Expanded)
- V. **Post-operative bracing following adult spine deformity surgery: Results from the AO Spine**

**surveillance of post-operative management of patients with adult spine deformity**

Kato S., Smith J. S., Driesman D., Shaffrey C. I., Lenke L. G., Lewis S. J., ALANAY A., Theologis A., Charalampidis A., Luis A., et al.

PLoS ONE, vol.19, no.4 April, 2024 (SCI-Expanded)

- VI. **Incidence of Tether Breakage in Anterior Vertebral Body Tethering**  
Cahill P. J., Miyanji F., Lullo B. R., Samdani A. F., Lonner B. S., Pahys J. M., Hwang S. W., Haber L. L., Alanay A., Shah S. A., et al.  
Journal of Pediatric Orthopaedics, vol.44, no.4, 2024 (SCI-Expanded)
- VII. **Reliability of a New Digital Tool for Photographic Analysis in Quantifying Body Asymmetry in Scoliosis**  
Pizones J., Moreno-Manzanaro L., Pupak A., Nunez-Pereira S., Larrieu D., Boissiere L., Richner-Wunderlin S., Loibl M., Zulemyan T., YUCEKUL A., et al.  
JOURNAL OF CLINICAL MEDICINE, vol.13, no.7, 2024 (SCI-Expanded)
- VIII. **Rod Angulation Relationship with Thoracic Kyphosis after Adolescent Idiopathic Scoliosis Posterior Instrumentation**  
Boissiere L., Bourghli A., Guevara-Villazon F., Pellise F., ALANAY A., Kleinstueck F., Pizones J., Roscop C., Larrieu D., Obeid I.  
CHILDREN-BASEL, vol.11, no.1, 2024 (SCI-Expanded)
- IX. **Cost Benefit of Implementation of Risk Stratification Models for Adult Spinal Deformity Surgery**  
Passias P. G., Williamson T. K., Kummer N. A., Pellise F., Lafage V., Lafage R., Serra-Burriel M., Smith J. S., Line B., Vira S., et al.  
GLOBAL SPINE JOURNAL, 2023 (SCI-Expanded)
- X. **Fixed coronal malalignment (CM) in the lumbar spine independently impacts disability in adult spinal deformity (ASD) patients when considering the obeid-CM (O-CM) classification**  
Boissiere L., Bourghli A., Kieser D., Larrieu D., ALANAY A., Pellise F., Kleinstueck F., Loibl M., Pizones J., Obeid I.  
SPINE JOURNAL, vol.23, no.12, pp.1900-1907, 2023 (SCI-Expanded)
- XI. **Adherence to the Obeid coronal malalignment classification and a residual malalignment below 20 mm can improve surgical outcomes in adult spine deformity surgery**  
Baroncini A., Frechon P., Bourghli A. S., Smith J., Larrieu D., Pellise F., Pizones J., Kleinstueck F., ALANAY A., Kieser D. T., et al.  
EUROPEAN SPINE JOURNAL, vol.32, pp.3673-3680, 2023 (SCI-Expanded)
- XII. **Rod angulation does not reflect sagittal curvature in adult spinal deformity surgery: comparison of lumbar lordosis and rod contouring**  
Boissiere L., Guevara-villazon F., Bourghli A., Abdallah R., Pellise F., Pizones J., ALANAY A., Kleinstueck F., Larrieu D., Obeid I.  
EUROPEAN SPINE JOURNAL, vol.32, no.10, pp.3666-3672, 2023 (SCI-Expanded)
- XIII. **Relationship between pelvic incidence-adjusted relative spinopelvic parameters, global sagittal alignment and lower extremity compensations**  
Yucekul A., Ozpinar A., Kilickan F. D. B., Dalla M., Muthiah N., Zulemyan T., Yavuz Y., Pizones J., Obeid I., Kleinstueck F., et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.10, pp.3599-3607, 2023 (SCI-Expanded)
- XIV. **Comparison of Overall Complication Rates in VCR-Based vs Non-VCR-Based Corrective Techniques in Severe Rigid Kyphoscoliosis Patients: A Systematic Review and Meta-Analysis**  
Van Halm-Lutterodt N. I., Al-Saidi N. N., Mandalia K., Mesregah M. K., Ghanem K. M., Storlie N. R., Huang W., Chen W., Bartels-Mensah M., Chen X. Y., et al.  
GLOBAL SPINE JOURNAL, vol.13, no.6, pp.1646-1657, 2023 (SCI-Expanded)
- XV. **AO Spine Adult Spinal Deformity Patient Profile: A Paradigm Shift in Comprehensive Patient Evaluation in Order to Optimize Treatment and Improve Patient Care**  
Naresh-Babu J., Kwan K. Y. H., Wu Y., YILGÖR İ. Ç., ALANAY A., Cheung K. M. C., Polly D. W., Park J., Ito M., Lenke L. G., et al.  
GLOBAL SPINE JOURNAL, vol.13, no.6, pp.1490-1501, 2023 (SCI-Expanded)

- XVI. **Sagittal realignment: surgical restoration of the global alignment and proportion score parameters: a subgroup analysis. What are the consequences of failing to realign?**  
Raganato R, Pizones J, YILGÖR İ. Ç., Moreno-Manzanaro L, Vila-Casademunt A, Sanchez-Marquez J. M., Fernandez-Baillo N, Perez-Grueso F. J. S., Kleinstuck F., ALANAY A., et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.6, pp.2238-2247, 2023 (SCI-Expanded)
- XVII. **Revision surgery following long lumbopelvic constructs for adult spinal deformity: prospective experience from two dedicated databases**  
Haddad S, Yasuda T, Vila-Casademunt A, YILGÖR İ. Ç., Nunez-Pereira S, Ramirez M, Pizones J, ALANAY A, Kleinstuck F, Obeid I, et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.5, pp.1787-1799, 2023 (SCI-Expanded)
- XVIII. **Does the use of postoperative brace help preventing mechanical complications following adult deformity surgery?**  
Pizones J, Boissiere L, Moreno-Manzanaro L, Vila-Casademunt A, Perez-Grueso F. J. S., Sanchez-Marquez J. M., Fernandez Baillo N, Kleinstuck F, ALANAY A, Pellise F, et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.3, pp.914-925, 2023 (SCI-Expanded)
- XIX. **Long-term opioid medication profile of European adult spinal deformity patients: minimum five years follow-up study**  
Abul K, Yilgor C, Yucekul A, Alanay N. A., Yavuz Y., Zulemyan T, Boissiere L, Bourghli A, Obeid I, Pizones J, et al.  
Spine Journal, vol.23, no.2, pp.209-218, 2023 (SCI-Expanded)
- XX. **Association between sagittal alignment and loads at the adjacent segment in the fused spine: a combined clinical and musculoskeletal modeling study of 205 patients with adult spinal deformity**  
Ignasiak D, Behm P, Mannion A. F., Galbusera F, Kleinstuck F, Fekete T. F., Haschtmann D, Jeszenszky D, Zimmermann L, Richner-Wunderlin S, et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.2, pp.571-583, 2023 (SCI-Expanded)
- XXI. **Operative differences for posterior spinal fusion after vertebral body tethering: Are we fusing more levels in the end?**  
Boeyer M, Groneck A, ALANAY A, Neal K, Larson A. N., Parent S, Newton P, Miyajni F, Haber L, Harms Study Grp D. G., et al.  
EUROPEAN SPINE JOURNAL, vol.32, no.2, pp.625-633, 2023 (SCI-Expanded)
- XXII. **Anterior Vertebral Body Tethering Compared with Posterior Spinal Fusion for Major Thoracic Curves A Retrospective Comparison by the Harms Study Group**  
Newton P. O., Parent S, Miyajni F, ALANAY A, Lonner B. S., Neal K. M., Hoernschemeyer D. G., Yaszay B, Blakemore L. C., Shah S. A., et al.  
JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME, vol.104, no.24, pp.2170-2177, 2022 (SCI-Expanded)
- XXIII. **Development of a mapping function ("crosswalk") for the conversion of scores between the Oswestry Disability Index (ODI) and the Core Outcome Measures Index (COMI)**  
Mannion A. F., Elfering A, Fekete T. F., Pizones J, Pellise F, Pearson A. M., Lurie J. D., Porchet F, Aghayev E, Vila-Casademunt A, et al.  
EUROPEAN SPINE JOURNAL, vol.31, no.12, pp.3337-3346, 2022 (SCI-Expanded)
- XXIV. **Surgical site infection is a major risk factor of pseudarthrosis in adult spinal deformity surgery**  
Boishardy A, Bouyer B, Boissière L, Larriou D, Pereira S. N., Kieser D., Pellisé F, ALANAY A, Kleinstuck F, Pizones J, et al.  
Spine Journal, vol.22, no.12, pp.2059-2065, 2022 (SCI-Expanded)
- XXV. **Prevalence of benign bone lesions of the lower extremity in the pediatric spinal disorders: a whole-body imaging study**  
Yucekul A, Karaytug K, Bakircioglu S, Zulemyan T, Sirin B. K., Karaarslan E, Yilgor C, Alanay A.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B, vol.31, no.6, pp.583-590, 2022 (SCI-Expanded)
- XXVI. **Spontaneous Lumbar Curve Correction Following Vertebral Body Tethering of Main Thoracic Curves**  
Catanzano A. A., Newton P. O., Bastrom T. P., Bartley C. E., Parent S, Miyajni F, Hoernschemeyer D. G., ALANAY A, Blakemore L, Neal K, et al.

JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME, vol.104, no.18, pp.1629-1638, 2022 (SCI-Expanded)

- XXVII. **Domino connector is an efficient tool to improve lumbar lordosis correction angle after pedicle subtraction osteotomy for adult spinal deformity**  
Bourghli A, Boissiere L, Cawley D, Larrieu D, Pizones J, ALANAY A, Pellise F, Kleinstueck F, Obeid I.  
EUROPEAN SPINE JOURNAL, vol.31, no.9, pp.2408-2414, 2022 (SCI-Expanded)
- XXVIII. **Combined anterior-posterior versus all-posterior approaches for adult spinal deformity correction: a matched control study**  
Haddad S, Vila-Casademunt A, YILGÖR İ. Ç., Nunez-Pereira S, Ramirez M, Pizones J, ALANAY A, Kleinstuck F, Obeid I, Sanchez Perez-Grueso F. J., et al.  
EUROPEAN SPINE JOURNAL, vol.31, no.7, pp.1754-1764, 2022 (SCI-Expanded)
- XXIX. **Comparison of short versus long fusion in the treatment of adult lumbar spinal deformity: surgical, radiographic and patient-reported outcomes.**  
Kleinstuck F. S, Richner-Wunderlin S, Vila-Casademunt A, de Villa A. R, Loibl M, ALANAY A, Pellise F, Perez-Grueso F. S, Pizones J.  
SWISS MEDICAL WEEKLY, 2022 (SCI-Expanded)
- XXX. **Impact of radiologic variables on item responses of ODI, SRS22 and SF-36. in adult spinal deformity patients: differential item functioning (DIF) analysis results from a multi-center database**  
Kieser D, YÜKSEL S, Boissiere L, Yilgor C, Cawley D, Hayashi K, ALANAY A, Kleinstueck F, Pellise F, Perez-Grueso F., et al.  
EUROPEAN SPINE JOURNAL, vol.31, no.5, pp.1166-1173, 2022 (SCI-Expanded)
- XXXI. **Surgeons' risk perception in ASD surgery: The value of objective risk assessment on decision making and patient counselling**  
Pellise F, Vila-Casademunt A, Nunez-Pereira S, Haddad S, Smith J. S, Kelly M. P, ALANAY A, Shaffrey C, Pizones J, YILGÖR İ. Ç., et al.  
EUROPEAN SPINE JOURNAL, vol.31, no.5, pp.1174-1183, 2022 (SCI-Expanded)
- XXXII. **A Review on Cutaneous and Musculoskeletal Manifestations of CLOVES Syndrome.**  
Öztürk Durmaz E, Demircioğlu D, Dikmen P, Alanay Y, Alanay A, Demirkesen C, Tokat F, Karaarslan E.  
Clinical, cosmetic and investigational dermatology, vol.15, pp.621-630, 2022 (SCI-Expanded)
- XXXIII. **Quality metrics in adult spinal deformity surgery over the last decade: a combined analysis of the largest prospective multicenter data sets.**  
Pellisé F, Serra-Burriel M, Vila-Casademunt A, Gum J. L, Obeid I, Smith J. S, Kleinstück F. S, Bess S, Pizones J, Lafage V, et al.  
Journal of neurosurgery. Spine, vol.36, pp.226-234, 2022 (SCI-Expanded)
- XXXIV. **Compensatory mechanisms recruited against proximal junctional kyphosis by patients instrumented from the thoracolumbar junction to the iliac**  
Pizones J, Perez-Grueso F. J. S, Moreno-Manzanaro L, Escámez F, Yilgor C, Vila-Casademunt A, Fernández-Baíllo N, Sánchez-Márquez J. M, Obeid I, Kleinstück F., et al.  
EUROPEAN SPINE JOURNAL, vol.31, no.1, pp.112-122, 2022 (SCI-Expanded)
- XXXV. **Multiple-Rod Constructs Do Not Reduce Pseudarthrosis and Rod Fracture After Pedicle Subtraction Osteotomy for Adult Spinal Deformity Correction but Improve Quality of Life.**  
Bourghli A, Boissière L, Kieser D, Larrieu D, Pizones J, Alanay A, Pellisé F, Kleinstück F, Obeid I.  
Neurospine, vol.18, pp.816-823, 2021 (SCI-Expanded)
- XXXVI. **Stratifying outcome based on the Oswestry Disability Index for operative treatment of adult spinal deformity on patients 60 years of age or older: a multicenter, multi-continental study on Prospective Evaluation of Elderly Deformity Surgery (PEEDS).**  
Nielsen C. J, Lewis S. J, Oitment C, Martin A. R, Lenke L. G, Qiu Y, Cheung K. M, de Kleuver M, Polly D. W, Shaffrey C. I, et al.  
The spine journal : official journal of the North American Spine Society, vol.21, no.11, pp.1775-1783, 2021 (SCI-Expanded)
- XXXVII. **Does vertebral body tethering cause disc and facet joint degeneration? A preliminary MRI study with**

**minimum two years follow-up**

Yucekul A, Akpunarli B, Durbas A, Zulemyan T, Havlucu I, Ergene G, Senay S, Dikmen P, Balci S. T, Karaarslan E, et al.

SPINE JOURNAL, vol.21, no.11, pp.1793-1801, 2021 (SCI-Expanded)

- XXXVIII. **Obeid-Coronal Malalignment Classification Is Age Related and Independently Associated to Personal Reported Outcome Measurement Scores in the Nonfused Spine**  
Kieser D. C., Boissiere L., Bourghli A., Hayashi K., Cawley D., YILGÖR İ. Ç., ALANAY A., Acaroglu E., Kleinstueck F., Pizones J., et al.  
NEUROSPINE, vol.18, no.3, pp.475-480, 2021 (SCI-Expanded)
- XXXIX. **Evaluation of Global Alignment and Proportion Score in an Independent Database.**  
Gupta M. C., Yilgor C., Moon H. J., Lertudomphonwanit T., Alanay A., Lenke L., Bridwell K. H.  
The spine journal : official journal of the North American Spine Society, vol.21, pp.1549-1558, 2021 (SCI-Expanded)
- XL. **The Impact of Corrective Surgery on Health-Related Quality of Life Subclasses in Adult Scoliosis: Will Degree of Correction Prognosticate Degree of Improvement?**  
Cawley D. T., Takemoto M., Boissiere L., Larrieu D., Kieser D. C., Fujishiro T., Hayashi K., Bourghli A., Yilgor C., Alanay A., et al.  
European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society, vol.30, pp.2033-2039, 2021 (SCI-Expanded)
- XLI. **How frequent should the radiographic examination be to monitor magnetically controlled growing rods? A retrospective look two to seven years postoperatively**  
YUCEKUL A., Tanriover H., Abul K., Ahmed A., Zulemyan T., Yilgor C., ALANAY A.  
EUROPEAN SPINE JOURNAL, vol.30, no.7, pp.1912-1919, 2021 (SCI-Expanded)
- XLII. **The dynamics of satisfaction in surgical and non-surgical adult spinal deformity patients**  
Nunez-Pereira S., Serra-Burriel M., Vila-Casademunt A., Hayashi K., Haddad S., Pizones J., Kleinstueck F., Obeid I., ALANAY A., Pellise F.  
EUROPEAN SPINE JOURNAL, vol.30, no.5, pp.1235-1246, 2021 (SCI-Expanded)
- XLIII. **Prediction of satisfaction after correction surgery for adult spinal deformity: differences between younger and older patients**  
Hayashi K., Boissiere L., Larrieu D., Bourghli A., Gille O., Vital J., Guevara-Villazon F., Pellise F., Sanchez Perez-Grueso F. J., Kleinstueck F., et al.  
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- XLIV. **Thoracoscopic Vertebral Body Tethering for Adolescent Idiopathic Scoliosis: Follow-up Curve Behavior According to Sanders Skeletal Maturity Staging.**  
Alanay A., Yucekul A., Abul K., Ergene G., Senay S., Ay B., Cebeci B., Dikmen P., Zulemyan T., Yavuz Y., et al.  
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- XLV. **Clinical Performance and Concurrent Validity of the Adult Spinal Deformity Surgical Decision-making Score**  
Fujishiro T., Boissiere L., Cawley D. T., Larrieu D., Gille O., Vital J., Pellise F., Sanchez Perez-Grueso F. J., Kleinstueck F., Acaroglu E., et al.  
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- XLVI. **Effect of lumbar pedicle subtraction osteotomy level on lordosis distribution and shape.**  
Pizones J., Moreno-Manzanaro L., Sanchez Perez-Grueso F. J., Vila-Casademunt A., Yilgor C., Boissiere L., ALANAY A., Kleinstueck F., Acaroglu E. R., Pellise F., et al.  
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- XLVII. **What level of symptoms are patients with adult spinal deformity prepared to live with? A cross-sectional analysis of the 12-month follow-up data from 1043 patients.**  
Mannion A. F., Loibl M., Bago J., Vila-Casademunt A., Richner-Wunderlin S., Fekete T. F., Haschtmann D., Jeszenszky D., Pellise F., Alanay A., et al.  
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- and the European Section of the Cervical Spine Research Society, vol.29, pp.1340-1352, 2020 (SCI-Expanded)
- XLVIII. **Adult spinal deformity surgical decision-making score. Part 2: development and validation of a scoring system to guide the selection of treatment modalities for patients above 40 years with adult spinal deformity**  
Fujishiro T, Boissière L, Cawley D. T., Larrieu D., Gille O., Vital J., Pellisé F., Pérez-Gruoso F. J. S., Kleinstück F., Acaroglu E., et al.  
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- XLIX. **Mental health status and sagittal spinopelvic alignment correlate with self-image in patients with adult spinal deformity before and after corrective surgery**  
Hayashi K, Boissière L, Guevara-Villazón F, Larrieu D., Bourghli A., Gille O., Vital J., Pellisé F., Pérez-Gruoso F. J. S., Kleinstück F., et al.  
EUROPEAN SPINE JOURNAL, vol.29, no.1, pp.63-72, 2020 (SCI-Expanded)
- L. **Opioids and analgesics use after adult spinal deformity surgery correlates with sagittal alignment and preoperative analgesic pattern**  
Bourghli A., Boissiere L., Larrieu D., Kaissar F., Cawley D., Fujishiro T., Kieser D., Gille O., Vital J., Alanay A., et al.  
EUROPEAN SPINE JOURNAL, vol.29, no.1, pp.73-84, 2020 (SCI-Expanded)
- LI. **Restoring the ideal Roussouly sagittal profile in adult scoliosis surgery decreases the risk of mechanical complications**  
Pizones J, Moreno-Manzanaro L, Sánchez Pérez-Gruoso F. J., Vila-Casademunt A., Yilgor C., Obeid I., ALANAY A., Kleinstück F., Acaroglu E. R., Pellisé F.  
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- LII. **Development and validation of risk stratification models for adult spinal deformity surgery**  
Pellisé F., Serra-Burriel M., Smith J. S., Haddad S., Kelly M. P., Vila-Casademunt A., Pérez-Gruoso F. J. S., Bess S., Gum J. L., Burton D. C., et al.  
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- LIII. **Impact of resolved early major complications on 2-year follow-up outcome following adult spinal deformity surgery**  
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European Spine Journal, vol.28, no.9, pp.2208-2215, 2019 (SCI-Expanded)
- LIV. **Development of predictive models for all individual questions of SRS-22R after adult spinal deformity surgery: a step toward individualized medicine**  
Ames C. P., Smith J. S., Pellisé F., Kelly M., Gum J. L., ALANAY A., Acaroğlu E., Pérez-Gruoso F. J. S., Kleinstück F. S., Obeid I., et al.  
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- LV. **Development of Deployable Predictive Models for Minimal Clinically Important Difference Achievement Across the Commonly Used Health-related Quality of Life Instruments in Adult Spinal Deformity Surgery**  
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## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Comparison of Radiographic and Clinical Outcomes of Adult vs Adolescent Scheuermann Kyphosis Patients: A Matched Cohort Analysis after Surgery**  
Alanay A., Yilgör I. Ç., Yuçekul A.  
32. ULUSAL TÜRK ORTOPEDİ VE TRAVMATOLOJİ KONGRESİ , Antalya, Turkey, 31 October - 05 November 2023
- II. **A Comparative Analysis of Skeletal Maturity Staging Systems by Means of Longitudinal Growth and Curve Modulation Prediction after VBT Surgery**  
Alanay A., Yilgör I. Ç., Yuçekul A.  
32. ULUSAL TÜRK ORTOPEDİ VE TRAVMATOLOJİ KONGRESİ , Antalya, Turkey, 31 October - 05 November 2023
- III. **Comparison of Radiographic and Clinical Outcomes of Adult vs Adolescent Scheuermann Kyphosis Patients: A Matched Cohort Analysis after Surgery**  
Alanay A., Yilgör I. Ç., Yuçekul A.  
Eurospine, Frankfurt, Germany, 4 - 06 October 2023, pp.26
- IV. **Machine Learning Can Predict Surgical Indication: New Clustering Model from a Large Adult Spine Deformity(ASD) Database**  
Alanay A.  
Eurospine, Frankfurt, Germany, 4 - 06 October 2023, pp.20
- V. **Which Sagittal Plane Assessment Method is most Predictive of Complications after Adult Spinal Deformity (ASD) Surgery?**  
Alanay A.  
Eurospine, Frankfurt, Germany, 4 - 06 October 2023, pp.22
- VI. **A Comprehensive Analysis of Outcomes and Treatment Success of Thoracic, Thoracolumbar and Bilateral Vertebral Body Tethering Surgery**  
Alanay A., Yilgör I. Ç., Yuçekul A., Ergene G., Senay S., Yalinay Dikmen P.  
Eurospine, Frankfurt, Germany, 4 - 06 October 2023, pp.27
- VII. **5-Year Outcomes of Prospective Evaluation of Elderly Deformity Surgery: A Multicenter International Study on Patients over 60 Years of Age**  
Alanay A.  
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- VIII. **A Prospective, Observational, Multicenter Study Assessing Functional Improvements After Multilevel**

## **Fusion for Adult Spinal Deformity (ASD): 5-Year Follow-Up Results**

Alanay A.

58TH SRS ANNUAL MEETING, Washington, United States Of America, 6 - 09 September 2023, pp.134

- IX. **Long Term Mechanical Failure In Well Aligned ASD Patients**  
Alanay A., Yilgör İ. Ç.  
58TH SRS ANNUAL MEETING, Washington, United States Of America, 6 - 09 September 2023, pp.96-97
- X. **Thoracic Kyphosis Maintenance in Lenke 1 AIS: Vertebral Body Tethering Versus Posterior Spinal Fusion**  
Alanay A.  
58TH SRS ANNUAL MEETING, Washington, United States Of America, 6 - 09 September 2023, pp.105-106
- XI. **Have We Improved Anterior Vertebral Body Tethering Outcomes Over Time? An Examination of Survivorship Trends**  
Alanay A.  
58TH SRS ANNUAL MEETING, Washington, United States Of America, 6 - 09 September 2023, pp.103
- XII. **Comparison of Radiographic and Clinical Outcomes of Adult vs Adolescent Scheuermann Kyphosis Patients: A Matched Cohort Analysis after Surgery**  
Alanay A., Yilgör İ. Ç., Yucekul A.  
58TH SRS ANNUAL MEETING, Washington, United States Of America, 6 - 09 September 2023, pp.95-96
- XIII. **Data Mining for Predicting Mechanical Complications in Postoperatively Well-Aligned Adult Spinal Deformity Patients using XgBoost Modelling**  
Alanay A., Yilgör İ. Ç., Yucekul A.  
Global Spine Congress 2023, Praha, Czech Republic, 31 May - 03 June 2023
- XIV. **Factors Affecting Opioid Use of European Adult Spinal Deformity Patients: Minimum 5 years Follow-up Study**  
Alanay A., Yilgör İ. Ç., Yucekul A.  
15. Uluslararası Türk Omurga Derneği, İzmir, Turkey, 24 - 27 May 2023
- XV. **Digitized Radiographs Outperform Radiographic Measurements in Predicting Mechanical Complications after Adult Spinal Deformity Surgery**  
Alanay A., Yilgör İ. Ç.  
15. Uluslararası Türk Omurga Kongresi, İzmir, Turkey, 24 - 27 May 2023
- XVI. **How to Best Restore the Pelvic Version during Adult Spinal Deformity Surgery**  
Alanay A., Yilgör İ. Ç.  
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- XVII. **A Comparative Analysis of Skeletal Maturity Staging Systems by Means of Longitudinal Growth and Curve Modulation Prediction after VBT Surgery**  
Alanay A., Yucekul A., Yilgör İ. Ç.  
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- XVIII. **A Comprehensive Analysis of Outcomes and Treatment Success of Thoracic, Thoracolumbar and Bilateral Vertebral Body Tethering Surgery**  
Alanay A., Yilgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalınay Dikmen P.  
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- XIX. **Comparison of Radiographic and Clinical Outcomes of Adult vs Adolescent Scheuermann Kyphosis Patients: A Matched Cohort Analysis after Surgery**  
Alanay A., Yilgör İ. Ç., Yucekul A.  
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- XX. **Is Low-Lumbar LIV Selection Relevant for the Long-Term Outcome in ASD Surgery?**  
Alanay A.  
Eurospine Annual Meeting, Milan, Italy, 19 - 22 October 2022
- XXI. **Data Mining for Predicting Mechanical Complications in Postoperatively Well-Aligned Adult Spinal Deformity Patients using XgBoost Modelling**  
Alanay A., Yilgör İ. Ç., Yucekul A., Sezerman O. U.

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- XXII. **Long-Term Loss of Alignment Following ASD in the Absence of Mechanical Complications: Aging Spine?**  
Alanay A.  
Eurospine annual Meeting, Milan, Italy, 19 - 22 October 2022
- XXIII. **We must Consider Homogeneous Sub-Groups of Patients in ASD!**  
Alanay A.  
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- XXIV. **A Single Surgeon's Experience of Thoracoscopic VBT: 5 to 8-years Follow-up Results**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S., Yalinay Dikmen P.  
Eurospine Annual Meeting, Milan, Italy, 19 - 22 October 2022
- XXV. **Two to Five Years Pulmonary Functions After Thoracic, Thoracolumbar and Double-Curve VBT Surgery**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S.  
Eurospine Annual Meeting, Milan, Italy, 19 - 22 October 2022
- XXVI. **Long-Term Loss of Alignment Following ASD in the Absence of Mechanical Complications: Aging Spine?**  
Alanay A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.74
- XXVII. **Major Complications Following Anterior Vertebral Body Tethering Surgery**  
Alanay A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.131
- XXVIII. **Two to Five Years' Pulmonary Functions After Thoracic, Thoracolumbar, and Double-Curve VBT Surgery**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.169
- XXIX. **Factors Effecting Opioid Use of European Adult Spinal Deformity Patients: Minimum 5-Year Follow-Up Study**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.73
- XXX. **Relationship Between Adult Spinal Deformity Surgery and Employment, Sick Leaves, Return to Work, and Early Retirement: Minimum 5-Year Follow-Up Study**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.74
- XXXI. **Does the Use of Postoperative Brace Play a Protective Role Following Adult Deformity Surgery?**  
Alanay A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.113
- XXXII. **Time-Dependent Interpretation of Mechanical Complications Using Cox Regression and Survival Analysis**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.111
- XXXIII. **Surgical Correction of Coronal Malalignment (CM) Improves Clinical Outcomes in a Large Cohort of Adult Spinal Deformity (ASD) Patients**  
Alanay A.  
SRS Annual Meeting, Stockholm, Sweden, 14 - 17 September 2022, pp.57
- XXXIV. **Data Mining for Predicting Mechanical Complications in Postoperatively Well-Aligned Adult Spinal Deformity Patients using XgBoost Modelling**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022
- XXXV. **Factors Affecting Opioid Use of European Adult Spinal Deformity Patients: Minimum 5 years Follow-up Study**

Alanay A., Yılgör İ. Ç., Yucekul A.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XXXVI. Comparison of Patient-reported Outcomes after Vertebral Body Tethering and Posterior Spinal Fusion**

Alanay A., Yılgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XXXVII. A Single Surgeon's Experience of Thoracoscopic VBT: 5 to 8-years Follow-up Results**

Alanay A., Yılgör İ. Ç., Yucekul A., Ergene G., Senay S.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XXXVIII. Defining Different Distal Adding-On Patterns After Thoracic-only Vertebral Body Tethering**

Alanay A., Yılgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

14th International Turkish Spine Congress, İzmir, Turkey, 25 May 2022 - 28 May 2023

**XXXIX. Association between Sagittal Alignment and Adjacent Segment Loading as Predicted by Patient-Specific Musculoskeletal Simulations**

Alanay A., Yılgör İ. Ç.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XL. Relationship Between Adult Spinal Deformity Surgery and Employment, Sick Leaves, Return to Work and Early Retirement: Minimum 5 Years Follow-Up Study**

Alanay A., Yılgör İ. Ç., Yucekul A.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLI. Pulmonary Function in Idiopathic Scoliosis after Fusion and Non-Fusion Surgeries: A Matched Cohort Analysis**

Alanay A., Yılgör İ. Ç.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLII. 7. A Novel Growth Modulation Scale to Predict Curve Behavior after Vertebral Body Tethering**

Alanay A., Yılgör İ. Ç.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLIII. Two to Five Years Pulmonary Functions After Thoracic, Thoracolumbar and Double-Curve VBT Surgery**

Alanay A., Yılgör İ. Ç., Yucekul A., Ergene G., Senay S.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLIV. Behavior of  $\geq 30^\circ$  Upper Thoracic Curves After Thoracoscopic VBT for Main Thoracic Curves: A Matched Cohort Analysis**

Alanay A., Yılgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLV. Prediction of Longitudinal Growth and Growth Modulation using Different Skeletal Maturity Staging Systems**

Alanay A., Yılgör İ. Ç., Yucekul A.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLVI. Loads at adjacent segment level before and after surgery: Combined clinical and simulation study of 205 adult spinal deformity patients**

Alanay A., Yılgör İ. Ç.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLVII. Comparison of Rasterstereography and Radiographic Measurements in Coronal Plane Deformities**

Alanay A., Yılgör İ. Ç., Yucekul A., Bayramoğlu M.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLVIII. Does Vertebral Body Tethering Cause Disc and Facet Joint Degeneration? An MRI Study with Minimum 2-Years Follow-Up**

Alanay A., Yucekul A., Yılgör İ. Ç., Ergene G., Senay S., Yalinay Dikmen P.

14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

**XLIX. 9. Is VBT Safe and Effective for  $\geq 60^\circ$  Main Thoracic Curves? A Matched Cohort Analysis**



Alanay A., Yılgör İ. Ç.

b. 14th International Turkish Spine Congress, İzmir, Turkey, 25 - 28 May 2022

- L. **Defining Different Distal Adding-On Patterns After Thoracic-only Vertebral Body Tethering**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S., Yalinay Dikmen P.  
IMAST 2022 , Florida, United States Of America, 6 - 09 April 2022, pp.41
- LI. **Segmental Correction Technique Results in Earlier Tether Breakage Compared to Global Correction Technique: A Matched Cohort Analysis**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S., Yalinay Dikmen P.  
IMAST 2022, Florida, United States Of America, 6 - 09 April 2022, pp.42
- LII. **Avrupa erişkin omurga deformite hastalarının analjezik ve opioid ilaç kullanım profili: En az 5 yıl takip çalışması**  
Yılgör İ. Ç., Yuçekul A., Zulemyan T., Yavuz Y., Boissiere L., Obeid I., Pizones J., Kleinstueck F., Perez-Grueso F. J. S., Pellisé F., et al.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 09 November 2021, vol.55, pp.72
- LIII. **BANT İLE GERDİRME YÖNTEMİ (VBT) DİSK VE FASET EKLEM DEJENERASYONUNA SEBEP OLUR MU? EN AZ 2-YIL TAKİPLİ MRI ÇALIŞMASI**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S., Karaarslan E., Yalinay Dikmen P.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 9 - 14 November 2021
- LIV. **TORAKOSKOPİK BANT İLE GERDİRME (VBT) AMELİYATININ 2 İLA 5 YILLIK TAKİP SONUÇLARI: TEK CERRAHA AİT DENEYİM**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Senay S., Yalinay Dikmen P., Ergene G.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 9 - 14 November 2021
- LV. **TAMAMLAYICI GÖRÜNTÜLEME YÖNTEMİ: RASTERSTEREOGRAFINİN KULLANILABİLİRLİĞİ VE RADYOGRAFİ İLE VALİDASYONU**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Bayramoğlu M.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 9 - 14 November 2021
- LVI. **TORAKOSKOPİK BANT İLE GERDİRME (VBT) AMELİYATI AKCİĞER FONKSİYONUNU AZALTIR MI? ARTIRIR MI?**  
Alanay A., Yılgör İ. Ç., Yuçekul A., Ergene G., Senay S.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 9 - 14 November 2021
- LVII. **ERİŞKİN OMURGA DEFORMİTESİ AMELİYATI İLE ÇALIŞMA HAYATI, HASTALIK İZİNİ, İŞE DÖNÜŞ VE ERKEN EMEKLİLİK ARASINDAKİ İLİŞKİ: EN AZ 5 YIL TAKİP ÇALIŞMASI**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 9 - 14 November 2021
- LVIII. **A NOVEL GROWTH MODULATION SCALE TO PREDICT CURVE BEHAVIOR AFTER VERTEBRAL BODY TETHERING**  
Alanay A., Yılgör İ. Ç., Yuçekul A.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LIX. **BEHAVIOR OF 30<sup>th</sup> UPPER THORACIC CURVES AFTER THORACOSCOPIC VBT FOR MAIN THORACIC CURVES: A MATCHED COHORT ANALYSIS**  
Alanay A., Yuçekul A., Yılgör İ. Ç., Ergene G., Senay S., Yalinay Dikmen P.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LX. **Analgesic and opioid medication profile of european adult spinal deformity patients: Minimum 5 years follow-up study**  
Yılgör İ. Ç., Yuçekul A., Zulemyan T., Yavuz Y., Bourghli A., Boissiere L., Obeid I., Pizones J., Kleinstueck F., Perez-Grueso F. J. S., et al.  
EUROSPINE 2021, Vienna, Austria, 6 - 08 October 2021, vol.1, pp.27
- LXI. **COMPARATIVE EFFECTIVENESS OF ANTERIOR INTERBODY FUSION VERSUS POSTERIOR INTERBODY FUSION IN PATIENTS UNDERGOING SURGERY FOR ASD: A PROPENSITY SCORE BASED ANALYSIS**  
Alanay A.  
eurospine, Vienna, Austria, 6 - 08 October 2021

- LXII. Is thoracoscopic VBT a pulmonary function declining or improving surgery?**  
Yilgör İ. Ç., Akpunarli B., Yücekul A., Abul K., Kindan P., Ergene G., Senay S., Zulemyan T., Yavuz Y., Alanay A.  
EUROSPINE 2021, Vienna, Austria, 6 - 08 October 2021, vol.1, pp.110
- LXIII. Does vertebral body tethering cause disc and facet joint degeneration? An MRI study with minimum 2-years follow-up**  
Yücekul A., Akpunarli B., Durbas A., Zulemyan T., Havlucu I., Ergene G., Senay S., Yalınay Dikmen P., Turgut Balcı Ş., Karaarslan E., et al.  
EUROSPINE 2021, Vienna, Austria, 6 - 08 October 2021, vol.1, pp.81-82
- LXIV. GAIN IN HRQL AFTER ASD SURGERY IS MAINTAINED BETWEEN 2 AND 5 YEARS' FOLLOW-UP. RESULTS FROM A PROSPECTIVE MULTICENTRE OBSERVATIONAL COHORT STUDY**  
Alanay A.  
Eursopine, Vienna, Austria, 6 - 08 October 2021
- LXV. IS VBT SAFE AND EFFECTIVE FOR 60° MAIN THORACIC CURVES? A MATCHED COHORT ANALYSIS**  
Alanay A., Yilgör İ. Ç.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LXVI. COMPENSATORY MECHANISMS RECRUITED AGAINST PROXIMAL JUNCTIONAL KYPHOSIS BY PATIENTS INSTRUMENTED FROM THE THORACOLUMBAR JUNCTION TO THE ILIAC**  
Alanay A.  
Eursopine, Vienna, Austria, 6 - 08 October 2021
- LXVII. FIXED CORONAL MALALIGNMENT (CM) IMPACTS INDEPENDENTLY DISABILITY IN ADULT SPINAL DEFORMITY (ASD) PATIENTS WHEN CONSIDERING THE OBEID-CM (O-CM) CLASSIFICATION**  
Alanay A.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LXVIII. DEVELOPMENT OF A CROSSWALK FOR THE BIDIRECTIONAL MAPPING OF TWO COMMONLY USED CONDITION-SPECIFIC PATIENT-REPORTED OUTCOME MEASURES, THE OSWESTRY DISABILITY INDEX (ODI) AND THE CORE OUTCOME MEASURES INDEX (COMI)**  
Alanay A.  
Eursopine, Vienna, Austria, 6 - 08 October 2021
- LXIX. THE IMPACT OF UNPLANNED REINTERVENTIONS FOLLOWING ASD SURGERY**  
Alanay A.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LXX. NO DIFFERENCE IN PATIENT-RATED OUTCOME AFTER SHORT VERSUS LONG FUSION SURGERY IN PATIENTS UNDERGOING LUMBAR SPINE SURGERY FOR ADULT SPINAL DEFORMITY**  
Alanay A.  
Eursopine, Vienna, Austria, 6 - 08 October 2021
- LXXI. THE 16-ITEM VERSION OF THE SRS-INSTRUMENT SHOWS BETTER STRUCTURAL VALIDITY THAN THE 20-ITEM VERSION IN YOUNG PATIENTS WITH SPINAL DEFORMITY**  
Alanay A.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LXXII. THE FATE OF THORACOLUMBAR ROTATIONAL KYPHOSIS AFTER ADULT SCOLIOSIS SURGICAL CORRECTION**  
Alanay A.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
- LXXIII. RELATIONSHIP BETWEEN ADULT SPINAL DEFORMITY SURGERY AND EMPLOYMENT, SICK LEAVES, RETURN TO WORK AND EARLY RETIREMENT: MINIMUM 5 YEARS FOLLOW-UP STUDY**  
Alanay A., Yilgör İ. Ç.  
Eurospine, Vienna, Austria, 6 - 08 October 2021
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- LXXXV. **The 16-Item Version of the SRS Questionnaire Shows Better Structural Validity Than the 20-Item Version in Young Patients with Spinal Deformity**  
Alanay A.  
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- LXXXVII. **Assessing Key Functional Outcomes after Multilevel Fusion for Adult Spinal Deformity in Patients Over Sixty Years of Age: A Prospective, Observational, Multicenter Study with 2-Year Follow-Up**  
Alanay A.  
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- LXXXVIII. **Gain in HRQL after ASD Surgery is Maintained Between 2 and 5 Years' Follow-Up**  
Alanay A.  
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- LXXXIX. **Pulmonary Function in Idiopathic Scoliosis after Fusion and Non-Fusion Surgeries: A Matched Cohort Analysis**  
Alanay A., Yılgör İ. Ç.  
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- LXXX. **AO Adult Spine Deformity Patient Profile: A Paradigm Shift In Comprehensive Patient Evaluation In Order To Improve Patient Care**  
Alanay A.  
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- LXXXI. **The Impact of Unplanned Reinterventions Following ASD Surgery**  
Alanay A.  
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- LXXXII. **Adverse Events in Multilevel Surgery in Elderly Patients with Spinal Deformity: Report of the Prospective Evaluation of Elderly Deformity Surgery (PEEDS)**  
Alanay A.  
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- LXXXIII. **Fixed Coronal Malalignment (CM) Independently Impacts Disability in Adult Spinal Deformity (ASD) Patients when Considering the Obeid-CM (O-CM) Classification**  
Alanay A.  
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- LXXXIV. **Comparative Effectiveness of Ant-IF vs. Post-IF in ASD Surgery: A Propensity Score Based Analysis**  
Alanay A.  
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- LXXXV. **Predicting Overcorrection in AVBT: Can We Improve Patient Selection?**  
Alanay A.  
SRS Annual Meeting, Missouri, United States Of America, 22 - 25 September 2021, pp.89-90
- LXXXVI. **Is Thoracoscopic VBT a Pulmonary Function Declining or Improving Surgery?**  
Alanay A., Yucekul A., Yılgör İ. Ç., Ergene G., Senay S.  
SRS Annual Meeting, Missouri, United States Of America, 22 - 25 September 2021, pp.198
- LXXXVII. **2 to 5-Years Follow-Up Results after Thoracoscopic VBT: A Single Surgeon's Experience**  
Alanay A., Ergene G., Yucekul A., Yılgör İ. Ç., Yalınay Dikmen P., Senay S.  
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- LXXXVIII. **Operative Differences for PSF After VBT: Are We Fusing More Levels in the End?**

Alanay A.

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**LXXXIX. Retrospective Matched Comparison Study on Anterior Vertebral Body Tethering (AVBT) vs. Posterior Spinal Fusion (PSF) for Primary Thoracic Curves**

Alanay A.

SRS Annual Meeting, Missouri, United States Of America, 22 - 25 September 2021, pp.88

**XC. Tether Breakage in a Mature Thoracolumbar Double Row Vertebral Body Tethering Patient**

Alanay A., Yucekul A., Yilgör İ. Ç., Ergene G., Senay S., Yalinay Dikmen P.

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**XCI. 2 to 5-years Follow-up Results After Thoracoscopic VBT: A Single Surgeon's Experience**

Alanay A., Yilgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

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**XCII. Analgesic and Opioid Medication Profile of European Adult Spinal Deformity Patients: Minimum 5 years Follow-up Study**

Alanay A., Yucekul A., Yilgör İ. Ç.

21. Asia Pacific Orthopaedic Association Congress, 29 - 31 July 2021

**XCIII. 2 TO 5-YEARS FOLLOW-UP RESULTS AFTER THORACOSCOPIC VBT: A SINGLE SURGEON'S EXPERIENCE**

Alanay A., Yilgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

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**XCIV. Relationship Between Adult Spinal Deformity Surgery and Employment, Sick Leaves, Return to Work and Early Retirement: Minimum 5 years Follow-up Study**

Alanay A., Yilgör İ. Ç., Yucekul A.

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**XCIV. IS THORACOSCOPIC VBT A PULMONARY FUNCTION DECLINING OR IMPROVING SURGERY?**

Alanay A., Yilgör İ. Ç., Yucekul A., Ergene G., Senay S., Yalinay Dikmen P.

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**XCVIII. Relationship between adult spinal deformity surgery and employment, sick leaves, return to work and early retirement: minimum 5 years follow-up study**

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**XCIX. Does vertebral body tethering cause disc and facet joint degeneration? an MRI study with minimum 2-years follow-up**

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**C. 2 to 5-years follow-up results after thoracoscopic VBT: a single surgeon's experience**

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**CI. Comparison of Rasterstereography and Radiographic Measurements in Coronal Plane Deformities**

Alanay A., Yilgör İ. Ç., Yucekul A., Bayramoğlu M.

eSOSORT 2021 , 29 April - 01 May 2021

**CII. Does Vertebral Body Tethering Cause Disc and Facet Joint Degeneration? An MRI Study with Minimum 2-Years Follow-Up**

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- CIII. **Two to Five-Year Follow-Up Results after Thoracoscopic VBT: A Single Surgeon's Experience**  
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- CIV. **Thoracoscopic and Mini-Open Lumbotomy Vertebral Body Tethering for Thoracolumbar/Lumbar Curves: Two to Three Years Follow-up**

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28th International Meeting on Advanced Spine Techniques, 23 - 25 April 2021, pp.62-63

- CV. **A Multicenter Comparative Analysis of AVBT to PSF in the Treatment of Lenke 5 Curves**

Alanay A.

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- CVI. **The Harms Study Group Retrospective Comparison Study on Anterior Vertebral Body Tethering (AVBT) versus Posterior Spinal Fusion (PSF) for Primary Thoracic Curves**

Alanay A.

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- CVII. **ASSOCIATION BETWEEN SAGITTAL ALIGNMENT AND ADJACENT SEGMENT LOADING AS PREDICTED BY PATIENT-SPECIFIC MUSCULOSKELETAL SIMULATIONS**

Alanay A., Yilgör İ. Ç.

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- CVIII. **ADULT CONGENITAL DEFORMITY: CLINICAL FEATURES AND MOTIVATIONS FOR SURGICAL TREATMENT**

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- CIX. **USE OF PREDICTIVE MACHINE LEARNING MODELS AT THE POPULATION LEVEL HAVE THE POTENTIAL TO SAVE COST BY DIRECTING ECONOMIC RESOURCES TO THOSE LIKELY TO IMPROVE MOST: A SIMULATION ANALYSIS STRATIFIED BY RISK IN LARGEST COMBINED US/EUROPEAN ASD REGISTRY**

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- CX. **Vertebral Body Tethering vs Posterior Instrumentation and Fusion for Adolescent Idiopathic Scoliosis: A Matched Cohort Analysis**

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Alanay A., Yilgör İ. Ç.

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- CXIV. **Correlations of Pelvic Incidence-Based Relative Radiographic Parameters to Lower Extremity Compensations**

Alanay A., Yucekul A., Yilgör İ. Ç.

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- CXV. **SRS-22r Score of a Prospective Evaluation of Elderly Deformity Surgery: A Prospective Observational, Multicenter Study**

- Alanay A.  
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- CXVI. **Efficacy of Adult Spinal Deformity Surgical Decision Making (ASD-SDM) Score in Patients Over 40 Years as an Indication for Surgical Management**  
Alanay A.  
SRS Annual Meeting, 9 - 13 September 2020, pp.41
- CXVII. **Change in Oswestry Disability Index at 24 months following Multilevel Spinal Deformity Surgery in Patients over 60 Years of Age: A Multicenter International Prospective Study**  
Alanay A.  
SRS Annual Meeting, 9 - 13 September 2020
- CXVIII. **Use of Predictive Machine Learning Models at the Population Level Has the Potential to Save Cost by Directing Economic Resources to Those Likely to Improve Most: A Simulation Analysis Stratified by Risk in Largest Combined US/European ASD Registry**  
Alanay A.  
SRS Annual Meeting, 9 - 13 September 2020, pp.38
- CXIX. **Intraoperative Neuromonitoring Practice Patterns in Spinal Deformity Surgery**  
Alanay A., Yalınay Dikmen P., Yılmaz İ. Ç., Yucekul A.  
SRS Annual Meeting, 9 - 13 September 2020, pp.43
- CXX. **Quality Metrics in Adult Spinal Deformity (ASD) Surgery Over the Last Decade: A Combined Analysis of the Largest Prospective Multicentric Datasets**  
Alanay A.  
SRS Annual Meeting, 9 - 13 September 2020, pp.46
- CXXI. **Complications Unique to Vertebral Body Tethering: Complications that We Haven't Seen Before**  
Alanay A.  
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- CXXII. **Forced Decision Tree Classifier for Determining Widespread Acting Features Affecting Mechanical Complications**  
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- CXXIII. **From Prediction to Prevention in Assessment of Risk of Mechanical Complications**  
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- CXXIV. **Thoracoscopic Vertebral Body Tethering for Patients with >30 Degree Upper Thoracic Curves**  
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- CXXV. **Assessment of Sagittal Shape and Alignment Using ShortCassette Radiographs and Intraoperative Fluoroscopic Images for Predicting Mechanical Complications**  
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- CXXVI. **Relative L4-S1 Lordosis: New PI-based Proportional Parameter that Aids the Interpretation of the Distribution of Lumbar Lordosis**  
Alanay A., Yılmaz İ. Ç., Yucekul A.  
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- CXXVII. **Thoracoscopic and Mini-Open Lumbar Anterior Vertebral Body Tethering for Thoracolumbar and Double Curves**  
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- CXXVIII. **Predictive Surgical Planning and Initial Correction: Traditional Way by Using Growth Parameters (Risser, Menarche, Tanners, Sanders)**  
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- CXXXIX. **Growth Modulation with Thoracoscopic Vertebral Body Tethering for Patients with >60 Degree Main Thoracic Curves**  
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- CXXX. **Impact Of Radiologic Variables On Item Responses Of Odi And Srs22 In Adult Spinal Deformity Patients: Differential Item Functioning (Dif) Analysis Results From A Multi-Center Database**  
BOISSIERE L., YÜKSEL S., OBEID I., HAYASHI K., YILGÖR İ. Ç., KLEINSTUCK F., ALANAY A., PELLISE F., GRUESO F. S. P., ACAROĞLU E., et al.  
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- CXXXII. **Thoracoscopic Vertebral Body Tethering for Adolescent Idiopathic Scoliosis: Minimum 2 years Results of Patients Reaching Skeletal Maturity**  
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- CXXXIII. **FORCED DECISION TREE CLASSIFIER FOR DETERMINING WIDESPREAD ACTING FEATURES AFFECTING MECHANICAL COMPLICATIONS**  
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- CXXXIV. **Forced Decision Tree Classifier for Determining Widespread Acting Features Affecting Mechanical Complications**  
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- CXXXV. **Relative L4-S1 Lordosis: New PI-based Promotional Parameter that Aids the Interpretation of the Distribution of Lumbar Lordosis**  
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- CXXXVI. **Time-Dependent Interpretation of Mechanical Complications Using Cox Regression and Survival Analysis**  
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- CXXXVII. **Importance of Postoperative and Follow-up Information on Prediction of Mechanical Complications**  
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- CXXXVIII. **Assessment of Sagittal Shape and Alignment Using Short-Cassette Radiographs and Intraoperative Fluoroscopic Images for Predictinf Mechanical Complications**  
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- CXLIII. **Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery: Towards a New Classification Scheme That Predicts Quality and Value**  
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- CXLIV. **Non-fusion Thoracoscopic Anterior Vertebral Body Tethering for Adolescent Idiopathic Scoliosis: Preliminary Results of a Single European Center..**  
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- CXLV. **Yetmiş Yaş ve Üzeri Hastalarda Erişkin Omurga Deformitesi Tedavisi: İki Yıl Takipli Hastaların Sonuçları**  
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- CLXIV. **Which clinical parameters of the Schwab SRS classification system for ASD is significant in predicting treatment outcomes for surgically treated patients**  
YÜKSEL S., MMOPELWA T., AYHAN S., NABIYEV V., PELLISE F., VILA A., ALANAY A., PEREZ F., KLEINSTUCK F., OBEID I., et al.  
IMAST 2016, Washington, Kiribati, 13 - 16 July 2016, pp.142-143
- CLXV. **Cognitive Impairment Following Adult Spinal Deformity Surgery**  
NABIYEV V., AYHAN S., YÜKSEL S., MMOPELVA T., DOMINGO SABAT M., PELLISE F., ALANAY A., GRUESO F. S. P., KLEINSTUCK F., OBEID I., et al.  
Global Spine Congress 2016, Dubai, United Arab Emirates, 13 - 16 April 2016
- CLXVI. **Which factors influence the surgery vs. non-surgery decision for adult idiopathic scoliosis patients with gray zone (40-55o) main thoracic curves?**  
YILGÖR İ. Ç., Enercan M., Hamzaoğlu A., Pellise F., Perez Grueso F. J. S., Acaroglu R. E., Obeid I., Kleinstück F., ALANAY A., ESSG E. S. S. G.  
Global Spine Congress 2016, 13 - 16 April 2016
- CLXVII. **Global Tilt: A single parameter incorporating the spinal and pelvic parameters correlates with health-related quality of life**  
YILGÖR İ. Ç., Enercan M., Hamzaoğlu A., Pellise F., Perez Grueso F. J. S., Acaroglu R. E., Obeid I., Kleinstück F., ALANAY A., ESSG E. S. S. G.  
Scoliosis Research Society 50th Annual Meeting Course, 30 September - 03 October 2015
- CLXVIII. **Effect of treatment complications on the outcomes in Adult Spinal Deformity (ASD): A decision analysis (DA) approach**  
ACAROĞLU E., GÜLER Ü. Ö., ÇETİNYÜREK YAVUZ A., YÜKSEL S., YAVUZ Y., DOMINGO SABAT M., PELLISE F., ALANAY A., GRUESO F. S. P., KLEINSTUCK F., et al.  
EUROSPINE 2015, KOPENHAG, Denmark, 2 - 04 September 2015
- CLXIX. **Multiple Regression Analysis Of Factors Affecting The Mental Component Score Constituents Of Sf 36 In Adult Spinal Deformity**  
AYHAN S., YÜKSEL S., NİYAZI A., NABIYEV V., GÜLER Ü. Ö., ACAROĞLU E., DOMINGO SABAT M., PELLISE F., ALANAY A., GRUESO F. J. S. P., et al.  
EUROSPINE 2015, KOPENHAG, Denmark, 2 - 04 September 2015
- CLXX. **Identifying The Best Treatment In Adult Spinal Deformity (Asd): A Decision Analysis (Da) Approach**  
ACAROĞLU E., ÇETİNYÜREK YAVUZ A., GÜLER Ü. Ö., YÜKSEL S., YAVUZ Y., DOMINGO SABAT M., PELLISE F., GRUESO F. S. P., ALANAY A., KLEINSTUCK F., et al.  
EUROSPINE 2015, KOPENHAG, Denmark, 2 - 04 September 2015
- CLXXI. **Is radiographic control necessary after every lengthening of magnetically controlled growing rod?**  
YILGÖR İ. Ç., ALANAY A.  
22nd International Meeting on Advanced Spine Techniques, 8 - 11 July 2015
- CLXXII. **Distal iliac screw fixation technique An alternative iliopelvic fixation technique in adult deformity surgery**  
ENERCAN M., KAHRAMAN S., GÖKÇEN B., ÇOBANOĞLU M., YILAR S., ERTÜRER R. E., ÖZTÜRK Ç., HAMZAOĞLU A., ALANAY A., ŞANLI T.  
22nd International Meeting on Advanced Spine Techniques, Kuala-Lumpur, Malaysia, 8 July - 11 May 2015
- CLXXIII. **Mental health and self image perception of non-disabled adult idiopathic scoliosis patients having mild to moderate curves compared to normal population**  
YILGÖR İ. Ç., Enercan M., Hamzaoğlu A., Pellise F., Acaroglu R. E., Obeid I., Kleinstück F., ALANAY A., ESSG E. S. S. G.  
11th International Turkish Spine Congress, 19 - 22 April 2015
- CLXXIV. **Kirschner teli tespit ve kompresyonu sağlayan bir araç**  
KARADENİZ E., meriç e., ALANAY A., YAZICI M., azmi h., mümtaz a.  
22. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Turkey, 31 October - 05 November 2011
- CLXXV. **Kirshner teli tespit ve kompresyonu sağlayan bir araç**  
KARADENİZ E., meriç e., ALANAY A., YAZICI M., azmi h.

Ortopedi ve Travmatoloji İstanbul Buluşması, Turkey, 4 - 07 May 2011

- CLXXVI. **The treatment of thoracic osteomyelitis in elderly patients by modified posterior vertebral column resection**  
KARADENİZ E., çağatay ö., ALANAY A., meriç e., azmi h.  
9. Uluslararası Türk Omurga Kongresi, 27 - 30 April 2011
- CLXXVII. **Which factors influence spontaneous lumbal curve correction after selective thoracic fusion in lenke type 1b and c curves**  
çağatay ö., ALANAY A., KARADENİZ E., mehmet bülent b., meriç e., azmi h.  
9. Uluslararası Türk Omurga Kongresi, 27 - 30 April 2011
- CLXXVIII. **A Locking Compression Device for K Wire Fixation**  
KARADENİZ E., meriç e., ALANAY A., YAZICI M., azmi h., mümtaz a.  
12 th European Congress of Trauma and Emergency Surgery., Milan, Italy, 1 - 30 April 2011
- CLXXIX. **Direct repair of lumbar spondylolysis by segmental pedicle screw infralaminar hook construct**  
çağatay ö., KARADENİZ E., ALANAY A., serhan k., mehmet d., azmi h.  
9. Uluslararası Türk Omurga Kongresi, 27 - 30 April 2011
- CLXXX. **Surgical Management of Tuberculosis of the Spine**  
ALANAY A., Olgun D.  
12th EFORT Congress, Copenhagen, Denmark, 1 - 04 June 2011, vol.11, pp.93-96
- CLXXXI. **Efficacy of Sacroiliac Orthosis in the Treatment of Sacroiliac Joint Syndrome**  
TURAN E., CAN F., ALANAY A.  
5th Annual Meeting of the Spine Society of Europe, 30 September - 04 October 2003, vol.12, pp.11
- CLXXXII. **Does transverse apex coincide with coronal apex levels (regional or global) in adolescent idiopathic scoliosis?**  
Acaroglu E., YAZICI M., Deviren V., Alanay A., Cila A., Surat A.  
3rd Biannual Meeting of the International Research Society of Spinal Deformities, Clermont-Ferrand, France, 26 - 30 May 2000, vol.88, pp.136-139

## Activities in Scientific Journals

Brain & Spine Journal, Editor, 2021 - Continues  
North American Spine Society Journal, Editor, 2021 - Continues  
JBJS Reviews, Editor, 2019 - Continues  
Spine Deformity, Editor, 2017 - Continues  
Spine, Advisory Committee Member, 1999 - Continues  
European Spine Journal, Editor, 1999 - Continues

## Memberships / Tasks in Scientific Organizations

Eurospine, Chairman, 2023 - Continues, Switzerland  
International Society on Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT), Member, 2018 - Continues, United States Of America  
American Bone and Joint Society (ABJS), Member, 2012 - Continues, United States Of America  
North American Spine Society, Member, 2002 - Continues, United States Of America  
AO Spine, Member, 1999 - Continues, Switzerland  
Turkish Spine Society , Member, 1998 - Continues, Turkey  
Eurospine, Member, 1998 - Continues, Switzerland  
Scoliosis Research Society, Member, 1998 - Continues, United States Of America  
European Federation of Orthopaedics and Traumatology (EFORT), Member, 1996 - Continues, Switzerland  
Turkish Society of Orthopaedic Surgery and Traumatology Associationsrk Ortopedi ve Travmatoloji Birliđi Derneđi,

Member, 1993 - Continues, Turkey  
Eurospine, Vice President, 2022 - 2023, Switzerland

## Scientific Refereeing

Brain & Spine Journal, Other Indexed Journal, October 2021  
Nass Journal, Other Indexed Journal, January 2020  
SPINE JOURNAL, Journal Indexed in SCI-E, January 2019  
JBJS REVIEWS, Journal Indexed in ESCI, January 2019  
Spine deformity, Other Indexed Journal, January 2017  
JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME, SCI Journal, January 2015  
EUROPEAN SPINE JOURNAL, Journal Indexed in SCI-E, January 1999  
SPINE, SCI Journal, January 1999

## Tasks In Event Organizations

Alanay A., 29th International Meeting on Advanced Spine Techniques (IMAST), Scientific Congress, Florida, United States Of America, Nisan 2022  
Alanay A., MERC Non-fusion Scoliosis Correction, Workshop Organization, Switzerland, Kasim 2021  
Alanay A., Spine Deformity Solutions: A Hands-On Course, Workshop Organization, Netherlands, Ekim 2021

## Scientific Research / Working Group Memberships

Harms Study Group, Setting Scoliosis Straight Foundation, United States Of America,  
<https://hsg.settingscoliosisstraight.org/>, 2018 - Continues  
Ao Spine Knowledge Forum Deformity, AO Spine, Switzerland, <https://www.aofoundation.org/spine/research/research-programs/knowledge-forum-deformity>, 2015 - Continues  
European Spine Study Group, European Spine Study Group, Spain, [spine-essg.com](http://spine-essg.com), 2010 - Continues

## Metrics

Publication: 405  
Citation (WoS): 3884  
Citation (Scopus): 5339  
H-Index (WoS): 34  
H-Index (Scopus): 39

## Congress and Symposium Activities

MERC: Fusion vs Non-Fusion Scoliosis Correction Techniques Cadaveric Training Program, Session Moderator, Barcelona, Spain, 2023  
Eurospine, Invited Speaker, Frankfurt, Germany, 2023  
Eurospine, Moderator, Frankfurt, Germany, 2023  
Eurospine, Invited Speaker, Frankfurt, Germany, 2023  
4th International Scoliosis Symposium, Invited Speaker, İstanbul, Turkey, 2023  
58TH SRS ANNUAL MEETING, Panelists, Washington, United States Of America, 2023  
58TH SRS ANNUAL MEETING, Invited Speaker, Washington, United States Of America, 2023

58TH SRS ANNUAL MEETING, Invited Speaker, Washington, United States Of America, 2023  
58TH ANNUAL SRS MEETING, Moderator, Washington, United States Of America, 2023  
ABJS Annual Meeting, Moderator, Washington, United States Of America, 2023  
15. Uluslararası Türk Omurga Kongresi, Invited Speaker, İzmir, Turkey, 2023  
15. Uluslararası Türk Omurga Kongresi, Invited Speaker, İzmir, Turkey, 2023  
30th International Meeting on Advanced Spine Techniques, Moderator, Dublin, Ireland, 2023  
30th International Meeting on Advanced Spine Techniques, Moderator, Dublin, Ireland, 2023  
30th International Meeting on Advanced Spine Techniques, Moderator, Dublin, Ireland, 2023  
Cutting Edge Meeting, Invited Speaker, Florida, United States Of America, 2023  
Cutting Edge Meeting, Invited Speaker, Florida, United States Of America, 2023  
AO Spine, Session Moderator, İstanbul, Turkey, 2023  
Eurospine Annual Meeting, Moderator, Milan, Italy, 2022  
SRS Annual Meeting, Invited Speaker, Stockholm, Sweden, 2022  
INTERNATIONAL MEETING ON ADVANCED SPINE TECHNIQUES (IMAST), Moderator, Florida, United States Of America, 2022  
30. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Invited Speaker, Antalya, Turkey, 2021  
Eurospine, Invited Speaker, Vienna, Austria, 2021  
Eursopine, Moderator, Vienna, Austria, 2021  
SRS Annual Meeting, Moderator, Missouri, United States Of America, 2021  
SRS Annual Meeting, Invited Speaker, Missouri, United States Of America, 2021  
30th International Meeting on Advanced Spine Techniques (IMAST), Session Moderator, Wisconsin, United States Of America, 2021  
30th International Meeting on Advanced Spine Techniques (IMAST), Moderator, Wisconsin, United States Of America, 2021  
30th International Meeting on Advanced Spine Techniques (IMAST), Panelists, Wisconsin, United States Of America, 2021

## Awards

Alanay A., Louis A. Goldstein Best Clinical Research Poster Award, Scoliosis Research Society (Srs), September 2023  
Alanay A., IHH Medical Excellence Award, IHH Healthcare Group, September 2023  
Alanay A., Yılgör İ. Ç., En İyi Sözlü Bildiri , Türk Omurga Derneği, May 2023  
Alanay A., Yılgör İ. Ç., En İyi Sözlü Bildiri Ödülü, Türk Omurga Derneği, May 2022  
Alanay A., Ergene G., Senay S., Yalınay Dikmen P., Karaarslan E., Yuçekul A., Yılgör İ. Ç., En İyi Sözlü Bildiri Ödülü/BANT İLE GERDİRME YÖNTEMİ (VBT) DİSK VE FASET EKLEM DEJENERASYONUNA SEBEP OLUR MU? EN AZ 2-YIL TAKİPLİ MRI ÇALIŞMASI, Ulusal Türk Ortopedi Ve Travmatoloji Kongresi, November 2021  
Alanay A., Russel A. Hibbs Clinical Research Award/Adverse Events in Multilevel Surgery in Elderly Patients with Spinal Deformity: Report of the Prospective Evaluation of Elderly Deformity Surgery (PEEDS), Scoliosis Research Society, September 2021  
Alanay A., Yuçekul A., Yılgör İ. Ç., Ergene G., Senay S., LOUIS A. GOLDSTEIN BEST CLINICAL RESEARCH POSTER AWARD/Is Thoracoscopic VBT a Pulmonary Function Declining or Improving Surgery?y, Scoliosis Research Society, September 2021  
Alanay A., Thomoas E. Whitecloud Award/The Harms Study Group Retrospective Comparison Study on Anterior Vertebral Body Tethering (AVBT) versus Posterior Spinal Fusion (PSF) for Primary Thoracic, Scoliosis Research Society, April 2021