

## CURRICULUM VITAE

### ***Sergey V. Kolesov, M.D., Ph.D.***

Professor of Orthopedics, Leading research fellow, Head of Spinal Pathology Department at the N.N. Priorov Central Institute of Traumatology and Orthopedics

#### **Contact information**

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#### **Professional summary**

- 400-450 surgeries performed every year, 80% of which are due to spinal deformities 15% – degenerative pathology and 5% – trauma and oncological pathology
- Deformities treated include scoliosis, kyphosis, neuromuscular and others
- Vast experience with various types of spinal osteotomies, including SPO, PO, PSO, VCR

#### **Education**

1983-1989 M.D., I.M. Sechenov First Moscow State Medical University

1993 Candidate of Medical Science degree (Ph.D. equivalent), N.N. Priorov Central Institute of Traumatology and Orthopedics

2005 Doctor of Medical Science degree, N.N. Priorov Central Institute of Traumatology and Orthopedics

#### **Faculty appointments**

2012 – present Head of the Spinal Pathology Department at the N.N. Priorov Central Institute of Traumatology and Orthopedics

2005 – 2012 Attending surgeon, Pediatric Bone Pathology and Adolescent Orthopedics Department at N.N. Priorov Central Institute of Traumatology and Orthopedics

1991 – 2005 Attending surgeon, Spinal Pathology Department N.N. Priorov Central Institute of Traumatology and Orthopedics

### **Membership in Professional Societies**

- 2014 Scoliosis Research Society, USA
- 2014 Russian Association of Traumatology and Orthopedics
- 2013 Secretary of the Russian Association of Spinal Surgeons, Russia
- 2011 International Society of Orthopaedic Surgery and Traumatology

### **Books**

Modern Methods in Radiology of Upper Cervical Spine Injury, Vetrile S.T., Morozov A.K., Kolesov S.V., “Medical Manuals”, Moscow, 1997.

Modern Clinical Diagnostics of Inherited Disorders of the Upper Cervical Spine, Vetrile S.T., Ilyina V.K., Meyerson E.M., Kolesov S.V., “Medical Manuals”, Moscow, 2000.

Craniovertebral Pathology, Kolesov S.V., Vetrile S.T., “Medicine”, Moscow, 2007.

Spinal Deformity Surgery, Kolesov S.V., “Avtorskaya Akademia”, Moscow, 2014.

Spine and Spinal Cord Trauma, Kolesov S.V., Ptashnikov D.A., Shvetc V.V., Moscow, 2018.

### **Selected scientific publications (over 70 total)**

1. Kolesov S.V., Diagnostics of atlantooccipital instability in children. Novel methods in pediatric traumatology and orthopedics, Turner Institute, 2, Saint Petersburg, 1992. -116-117.
2. Vetrile S.T., Kolesov S.V., Morozov A.K., Banakov V.V., Pathogenesis of elevated intracranial pressure in children and adolescents with craniovertebral pathology. Questions in Neurosurgery, 1, Moscow, 2000. -16-19.
3. Kolesov S.V., Vetrile S.T., Effectiveness of halo-traction in cervical spine surgery. Questions in Neurosurgery, 1, Moscow, 2001. -15-19.
4. Vetrile S.T., Kolesov S.V., Eskin N.A., Krupatkin A.I., Palatov A.E., Vascular disorders in pediatric patients with craniovertebral pathology. Journal of Neurosurgery and Psychiatrics, 5, Moscow, 2002. -6-9.
5. Vetrile S.T., Gavryushenko N.S., Kolesov S.V., Residual stability of craniovertebral segment after injury. Traumatology and Orthopedics Herald, 1, Moscow, 2002. -25-59
6. Vetrile S.T., Yundin S.V., Kolesov S.V., Treatment of cervical spine injuries. Problems in Traumatology and Orthopedics, RUDN, Moscow, 2003. – 239-240.
7. Vetrile S.T., Kolesov S.V., Diagnostic errors, complications and treatment difficulties in juvenile and adolescent craniovertebral pathology. Pediatric Traumatology and Orthopedics, 3, Volgograd, 2003. – 200-201.

8. Kolesov S.V., Snetkov A.I., MOrozov A.K., Frantov A.R., Clinical manifestation, diagnostics and treatment of aneurysmal cysts of the spine. *Traumatology and Orthopedics Herald*, 1, Moscow, 2006. -70-75.
9. Kolesov S.V., Surgical treatment of severe post laminectomy spinal deformations. *Spinal Surgery*, 2, Novosibirsk, 2006. -29-32.
10. Kolesov S.V., Kurpyakov A.P., Treatment of degenerative disc disease using cold plasma nucleoplasty. *Spinal Surgery*, 3, Novosibirsk, 2007. -53-59.
11. Kolesov S.V., Snetkov A.I., Shavyrin I.A., Surgical treatment of spinal deformities in patients with inherited systemic diseases. *Russian Academy of Medical Science Herald*, 8, Moscow, 2008. -48-52.
12. Shavyrin I.A., Melnikov I.I., Kolesov S.V., Kudryakov S.A., Correction and stabilization of the spine in patients with systemic bone disease. *Spinal Surgery*, 1, Novosibirsk, 2009. -8-16.
13. Kolesov S.V., Kudryakov I.I., Melnikov I.A., Shavyrin I.A., Ventral correction of scoliotic deformations. *Spinal Surgery*, 4, Novosibirsk, 2009. -15-20.
14. Kolesov S.V., Baklanov A.N., Shavyrin I.A., Surgical treatment of severe neuromuscular scoliotic deformations in patients with muscular atrophy. *Spinal Surgery*, 3, Novosibirsk, 2011. -35-41.
15. Kolesov S.V., Baklanov A.N., Shavyrin I.A., Surgical treatment of spinal deformities in patients with cerebral palsy. *Journal of Russian Traumatology and Orthopedics named after R.R. Vreden*, 3, Saint Petersburg, 2001. -73-79.
16. Snetkov A.I., Kolesov S.V., Frantov A.R., Comparative analysis of surgical treatment and bracing in patients with eosinophilic granuloma of the spine. *Spinal Surgery*, 1, Novosibirsk, 2011. 16-21.
17. Kolesov S.V., Sazhnev M.L., Kudryakov S.A., Prohorov A.N., Case report of surgical treatment of cervical spine fracture in a patient with ankylosing spondylitis. *Spinal Surgery*, 2, Novosibirsk, 2011. -8-11.
18. Kolesov S.V., Baklanov A.I., Shavyrin I.A., Case report of multistep correction of spinal deformity in a patient with Bloch-Sulzberger disease. *Russian Academy of Medical Science Herald*, 3, Moscow, 2013. -45.
19. Kolesov S.V., Vertebral column resection in severe spinal deformities. *Spinal Surgery*, 1, Novosibirsk, 2013. 28-35.
20. Kolesov S.V., Baklanov A.N., Shavyrin I.A., Spinal deformity correction in patients with meningocele. *Traumatology and Orthopedics Herald*, 1, Moscow, 2013. -46-52.
21. Kolesov S.V., Baklanov A.N., Shavyrin I.A., Surgical treatment of neuromuscular scoliosis. *Orthopedic Genius*, 2, Novosibirsk, 2013. -72-77.
22. Kolesov S.V., Baklanov A.N., Shavyrin I.A., Assymetrical TLIF in idiopathic scoliosis treatment. *Traumatology and Orthopedics Herald*, 2, Moscow, 2013. -20-25.

23. Kolesov S.V., Shvets V.V., Kolbovskiy D.A., Kazmin A.I., Morozova N.S. – The use of nitinol in lumbosacral spine fixation. *Traumatology and Orthopedics Herald*, 2, Moscow, 2014. 19-24
24. Hit M.A., Kolbovskiy D.A., Morozova N.S., Kolesov S.V. Role of intraoperative neurophysiological assessment in preventing postoperative neurological complications in spinal deformity surgery. *Neuromuscular Diseases*, 2, Moscow, 2014. -35-42.
25. Kolesov S.V., Shvets V.V., Kolbovskiy D.A., Kazmin A.I., Morozova N.S. – The use of nitinol rods in surgical treatment of degenerative scoliosis. *Traumatology and Orthopedics Herald*, 4, Moscow, 2014. 38-42
26. Mironov S.P., Kolesov S.V., Stepanov G.A., Sazhnev M.L., Gubin S.P., Ioni Y.V., Motin V.G., Panteleyev A.A. – Modeling of rat spinal cord injury and function loss assessment. *Traumatology and Orthopedics Herald*, 3, Moscow, 2015. – 33-38.
27. Mironov S.P., Kolesov S.V., Stepanov G.A., Sazhnev M.L., Gubin S.P., Ioni Y.V., Motin V.G., Panteleyev A.A. – Registration of evoked potentials as a method of function loss assessment in a rat spinal cord injury model. *Traumatology and Orthopedics Herald*, 4, Moscow, 2015. – 60-64.

### **Patents**

Patent no.2557893 “Method of two-step surgical treatment of spinal deformity using auto-preserved rib autograft”, Kolesov S.V., Sazhnev M.L., Snetkov A.A.

Patent no.2568534 “Method of surgical treatment of lumbar scoliotic deformity”, Kolesov S.V., Kolbovskiy D.A., Kazmin A.I., Morozova N.S.

Patent no.2574365 “Method of surgical treatment of degenerative disk disease”, Kolesov S.V., Kolbovskiy D.A., Kazmin A.I., Morozova N.S.