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## Dr. Akshay Tiwari

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**Brief Introduction:**

Dr Akshay Tiwari is Director, Musculoskeletal Surgical Oncology at Max Institute of Cancer Care, Max Superspeciality Hospital, Saket. He is a fellowship trained Musculoskeletal/ Orthopedic Oncologist, and is credited with setting up the first exclusive Musculoskeletal/ Orthopedic oncology unit in Delhi- NCR, and the first to use computer navigation for bone tumors.

**Clinical Experience**

1. Worked as **Post Graduate Trainee** in Lady Hardinge Medical College and associated Smt. Sucheta Kriplani, Ram Manohar Lohia ,and Kalawati Saran Children Hospitals, New Delhi, from **May 2001 through April 2004.**

2. Worked as **Senior Resident (Orthopaedics)** in Sitaram Bhartiya Institute for Scientific Research, New Delhi from **May**

**2004 through June 2004**, exposed to various aspects of orthopedic management, including arthroplasty and arthroscopy.

3. Worked as **Senior Resident (Orthopaedics)** Lady Hardinge Medical College and associated Smt. Sucheta Kriplani, Ram Manohar Lohia ,and Kalawati Saran Children Hospitals, New Delhi from **August 2004 through August 2007**.

4. **Senior Research Associate (Pool Officer)**, CSIR, from **August 2007 through April 2008**, attached to Lady Hardinge Medical College and Associated Hospitals, New Delhi

5. **Fellow, invited and sponsored by the host institute**, at Department of musculoskeletal Oncology, **Istituti Ortopedici Rizzoli, Bologna, Italy (May 2008 through October 2008)**.

6. Worked as **Consultant Orthopedic Oncologist** at Rajiv Gandhi Cancer Institute and Research Centre – **November 2008 – 2017. Head of Musculoskeletal Oncology Unit from 2015-2017**.

7. Presently **Associate Director and Head, Musculoskeletal Oncology**, Max Institute of Cancer Care, Saket.

## **Teaching Experience**

Involved actively in orthopedic teaching of undergraduate and postgraduate medical students in institute affiliated to the University of Delhi- included Lectures, Clinical Classes and tutorials in various capacities – **August 2001- April 2008.**

Teaching activities in orthopedic oncology for fellows and DNB surgical oncology students- since 2008.

## **Education**

**1. 2001-2004- M S Orthopaedics, from Lady Hardinge Medical College (Affiliated to University of Delhi) and associated hospitals-**

Smt. Sucheta Kriplani Hospital,

Ram Manohar Lohia Hospital,

Kalawati Saran Children's Hospital

**2. 1994-2000 -MBBS (including internship) from R.G. Kar Medical College, Calcutta, University of Calcutta.** Secured 68.6%, 68.7% and 63% marks in first, second and third professionals respectively.

**3. Schooling at Kendriya Vidyalayas, New Delhi.**

## **Research**

1. Closed reduction and percutaneous pinning in the management of displaced supracondylar fractures of humerus in children. (2002-03)

2. Setting up of a cost effective bone bank in a tertiary care hospital - Clinical evaluation of efficacy and safety (2007-08)

3. Osteosarcoma of soft tissues- The experience at Rizzoli Institute

4. Functional outcome of surgical management of sarcomas of

proximal humerus in skeletally immature children- Experience at Rizzoli Institute over 30 years.

## **Awards and achievements**

1. Secured **honours (distinction) in third professional MBBS** exams.
2. Awarded **Governor's Medal for securing highest marks in second professional MBBS** exams.
3. Awarded **medals for highest marks in Anatomy** in first professional MBBS exams.
4. First runner up in semi-finals in All India Medi Mind Quiz, conducted by Glaxo.
5. Awarded a **fellowship in Orthopaedic Oncology** by Delhi Orthopedic Association in January 2007, at Tata Memorial Hospital, Mumbai, India.
6. Awarded the **Best Published Paper award** at RGCON 2011, an international level conference conducted by Rajiv Gandhi Cancer Institute and Research Center.
7. **Section editor for oncology** – Journal of clinical orthopedics and Trauma
8. **Editorial board member-** Journal of bone and soft tissue tumors
9. **Convener- Delhi Musculoskeletal Oncology Group**
10. Best Published Paper award at RGCON 2011
11. Best Paper Award at ICC, 2013

## Publications

### International Publications:

- Kapoor S, **Tiwari A**, Kapoor S . Primary tumours and tumorous lesions of clavicle. Int Orthop. 2007 Jun 22. [Epub ahead of print]
- Sud A, **Tiwari A**, Sharma D, Kapoor SK. Ponseti's vs. Kite's method in the treatment of clubfoot--a prospective randomised study. Int Orthop. 2008 Jun;32(3):409-13. Epub 2007 Feb 24.
- Mehta S, Sud A, **Tiwari A**, Kapoor S K. Open reduction for late presenting posterior dislocation of elbow. J Orthop Surg 2007; 15(1): 15-21. (Journal – Journal Orthopaedic Surgery- Hong Kong)
- **Tiwari A**, Kanojia RK, Kapoor SK. Surgical management for late- presenting supracondylar humeral fracture in children. J Orthp Surg. 2007 Aug;15(2):177-82. (Journal – Journal Orthopaedic Surgery- Hong Kong)
- Kapoor SK, **Tiwari A**, Chaudhry A. An unusual case

of craniovertebral junction tuberculosis in an infant.  
Spine. 2007 Nov 1;32(23):E678-81.

- **Tiwari A**, Sud A, Mehta S, Kanojia RK, Kapoor SK.  
Multifocal skeletal tuberculosis presenting as  
multiple bone cysts. Ann Acad Med Singapore. 2007  
Dec;36(12):1038-9.
- Kapoor SK, **Tiwari A**, Kumar A, Bhatia R, Tantuway  
V, Kapoor S. Clinical relevance of palmaris longus  
agenesis: common anatomical aberration. Anat Sci  
Int. 2008 Mar; 83(1):45-8.
- Manfrini M, **Tiwari A**, Ham J, Colangeli M, Mercuri  
M. Evolution of surgical treatment for sarcomas of  
proximal humerus in children: retrospective review at  
a single institute over 30 years. J Pediatr Orthop. 2011  
Jan-Feb;31(1):56-64.
- Sud A, Chaudhry A, Mehtani A, **Tiwari A**, Sharma D.  
Functional outcome following quadriceps tendon  
lengthening in congenital dislocation of the knee,  
with special reference to extensor weakness.  
Strategies Trauma Limb Reconstr. 2009 Nov 24.

- **Tiwari A**, Vanel D, Fabbri N, Mercuri M, Alberghini M. Quiz--An ossified soft tissue mass. Eur J Radiol. 2009 Oct;72(1):2-5. Epub 2009 Jun 25

#### **Indian publications:**

- Kapoor SK, **Tiwari A**. Resection arthrodesis for giant cell tumors around the knee. Ind J Orthop. April-June 2007; 41(2): 124-8.
- Tantuway V, Datta S, Choudhry A, **Tiwari A**, Kapoor SK. Spectrum of crush injury of foot and functional outcome in Indian patients. –Delhi Journal of Orthopaedics.
- **Tiwari A**, Gupta H, Jain S, Kapoor G. Outcome of multimodality treatment of Ewing's sarcoma of the extremities. Indian J Orthop. 2010 Oct;44(4):378-83.
- Sud R, Bhatnagar MK, Sud A, **Tiwari A**. Incidence and outcome of arthritis in meningococcal disease. J Indian Med Assoc. 2009 Mar; 107(3):156, 158-9.

- **Tiwari A**- Current concepts in surgical management of osteosarcoma- Journal of Clinical Orthopaedics & Trauma. Volume 3, Issue 1 , Pages 4-9, June 2012
- **Tiwari A**, Jain S, Kumar R, Mehta S, Kapoor G, Kumar K. Early results of limb salvage surgery for osteosarcoma in Indian patients. Indian J Orthop. 2014; 48:266- 72.
- **Tiwari A**, Shah S, et al- Prognostic Factors in Indian Patients Operated for Soft Tissue Sarcomas—a Retrospective Cross-sectional Analysis. Indian Journal of Surgical Oncology; October 2016.
- Tiwari A, Vaishya R. Giant cell tumor of bones- An unsolved puzzle. J Clin Orthop Trauma. 2019 Nov-Dec;10(6):1013-1014. doi: 10.1016/j.jcot.2019.09.020. Epub 2019 Oct 1. PMID: 31708625; PMCID: PMC6835022.
- Gulia A, Arora RS, Panda PK, Raja A, Tiwari A, Bakhshi S, Salins N, Goel V, Janu A. Adapting Management of Sarcomas in COVID-19: An Evidence-Based Review. Indian J Orthop. 2020 May 30:1-13. doi: 10.1007/s43465-020-00143-1. Epub

ahead of print. PMID: 32836361; PMCID:  
PMC7261215.

- Gulia A, Tiwari A, Arora RS, Gupta S, Raja A. Sarcoma Care Practice in India During COVID Pandemic: A Nationwide Survey. Indian J Orthop. 2020 Jul 31;54(Suppl 2):1-8. doi: 10.1007/s43465-020-00206-3. Epub ahead of print. PMID: 32836364; PMCID: PMC7393016.
- Poudel RR, Verma V, Tiwari A. Multicentric Giant Cell Tumor (GCT) of bone treated with denosumab alone: A report of two cases. J Clin Orthop Trauma. 2019 Nov-Dec;10(6):1050-1053. doi: 10.1016/j.jcot.2019.09.006. Epub 2019 Sep 10. PMID: 31708626; PMCID: PMC6834978.

#### **Chapter in a book-**

Kapoor SK, **Tiwari A** .Limb salvage surgery in malignant bone tumors – The unresolved dilemmas- - Published in CME book of IOACON 2006, the 51<sup>st</sup> annual conference of the Indian Orthopedic Association.

**Invited as Guest  
Faculty**

- Indian Musculoskeletal Oncology Society – 2015, 2016, 2017, 2018, 2019, 2020, 2021
- Indian Orthopedic Association 2011, 2012, 2014, 2019
- DOACON 2011, 2012, 2014
- Symposium on Limb Salvage for Malignant bone tumors, Aligarh, 2009
- North Zone Indian Orthopedic Association Conference, 2009
- RGCON 2010, 2011
- IOACON 2011, 2012
- Musculoskeletal Oncology Update 2010, 2013
- Indian Cancer Congress, 2013
- CME on musculoskeletal imaging, Delhi Orthopedic Association, 2011
- Various other conferences and CMEs on sarcoma management

**Conferences  
attended (with  
paper/ poster  
presentation in  
majority)**

1. APMSTS, Melbourne, 2014
2. APMSTS, Kuala Lumpur, 2012
3. IOACON 2004, 2006, 2009, 2010, 2011, 2012
4. Spine congress 2003
5. Apollo arthroplasty course 2005
6. DOACON 2004, 2005, 2006, 2010, 2011, 2012.
7. Techniques in spine surgery, 2004.
8. Newer trends in fracture fixation, 2004.

9. Annual conference of Bihar Orthopedic Association, 2008
10. IOA instructional course lectures, April 2008.
11. RGCON 2009, 2010, 2011
12. Musculoskeletal Oncology Update 2010
13. UP Orthocon 2009
  
14. Fifth postgraduate instructional course 2003
  
15. Current concepts in arthroplasty 2003, 2004