

Evaluative Report of the Department of Orthopaedics

1. Name of the Department: **Orthopaedics**
2. Year of establishment: **1987**
3. Is the Department part of a college/Faculty of the university:
Yes. Part of University College of Medical Sciences; Delhi University.
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)
Undergraduate (MBBS) and postgraduate (MS Orthopaedics) courses.
5. Interdisciplinary programmes and departments involved
Departmental Clinico Pathological meetings held once in a month involving the Orthopaedics, Pathology and Radiology departments
6. Courses in collaboration with other universities, industries, foreign institutions, etc.
None
7. Details of programmes discontinued, if any, with reasons
NA
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
MBBS: Semester system
MS: Annual summative examination at end of 3 years.
9. Participation of the department in the courses offered by other departments:
None
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned		Filled		Actual (including CAS & MPS):
	GTBH	UCMS	GTBH	UCMS	
Professor	3	2	2	4	4
Associate Professors	-	1	-		3
Asst. Professors	-	3	-		-
Others (Senior Residents)	12	02	12	02	14

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience
1)	Dr. A.K.Jain	MS,MAMS, FAMS, FRCS, (Eng)	Director Professor	Orthopaedics	31
2)	Dr. Aditya N Aggarwal	M.S.Ortho: DNB(Ortho)	Professor	Orthopaedics	20 ½
3)	Dr. Manish Chadha	M.S.Ortho	Professor	Orthopaedics	20 ½
4)	Dr. Rehan-Ul- Haq	M.S.Ortho, MAMS	Professor	Orthopaedics	13 ½
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5)	Dr. M.P.Singh	M.S.Ortho	Director Professor	Orthopaedics	33
6)	Dr. Puneet Mishra	M.S.Ortho	Professor	Orthopaedics	18

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:
None
13. Percentage of classes taken by temporary faculty – programme-wise information
None
14. Programme-wise Student Teacher Ratio:
In postgraduate MS programme conducted by the department: 9 students each year and 6 recognized teachers.
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:
a) Academic support staff – **1**
b) Administrative staff (actual) - **None**
16. Research thrust areas as recognized by major funding agencies: **None**
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. **None**
18. Inter-institutional collaborative projects and associated grants received: **None**

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: **None**
20. Research facility / centre with:
- state recognition
 - national recognition
 - international recognition
- None**
21. Special research laboratories sponsored by / created by industry or corporate bodies:
None
22. Publications: **Annexure 1**
- * Number of papers published in peer reviewed journals (national/international)
 - * Monographs
 - * Chapters in Books
 - * Edited Books
 - * Books with ISBN with details of publishers
 - * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average.
 - * Impact Factor – range / average – **R: 2.882 – 0.624**
 - * h-index

Name	Numbers of papers (indexed) 2009-2016 (July)	Book Chapters	Books edited
Dr. Sudhir Kumar (Retired on 2014)	1	5	1
Dr. AK Jain	56	20	4
Dr. MP Singh	3	Nil	Nil
Dr. IK Dhammi	33	8	Nil
Dr. Aditya Aggarwal	11	13	1
Dr. Manish Chadha	11	4	Nil
Dr. Puneet Mishra	8	7	Nil
Dr. Rehan ul Haq	23	12	Nil

23. Details of patents and income generated:

None

24. Areas of consultancy and income generated:

None

25. Faculty selected nationally /internationally to visit other laboratories/institutions/ industries in India and abroad:

Prof A.K. Jain is a visiting professor in Tamil Nadu, DR. MGR Medical University

26. Faculty serving in:

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

NAME (In alphabetical order of last name)	DISTINCTION
DR. A.K. Jain	Editor Indian Journal of Orthopaedics (2007-2012)
	Team leader Bone & Joint in Indian Extrapulmonary TB guidelines under Aegis of MOHFW govt. of India 2015
	President, Indian Orthopaedic Association 2014
	President elect, World Orthopedic Consult 2015
	AssociateEditor - European Journal of Orthopaedics and Traumatology.
Deputy Editor- Journal of Bone & Joint Surgery (America)	
Dr. Manish Chadha	Assistant Editor Indian Journal of Orthopaedics
DR. Puneet Mishra	Editor , Journal of Clinical Orthopaedics AND Trauma, Elsevier; Indexed in Pubmed.
Dr. Rehan Ul Haq	Assistant Editor Indian Journal of Orthopaedics
Dr. I K Dhammi	Editor Indian Journal of Orthopaedics

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs).

All faculty member attend conferences/workshops/training programmes related to the speciality regularly.

Workshops/training programmes regarding Medical Education/Teachers training conducted by Medical Education Unit (MEU) – Dr. Rehan is a MEU Faculty

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: **Information available with Academic Session of University College of Medical Sciences.**
- percentage of students doing projects in collaboration with other universities / industry / institute: **None**

29. Awards / recognitions received at the national and international level by

• Faculty

NAME	AWARD
<p>Dr. A.K. Jain</p>	<ol style="list-style-type: none"> 1. Kini Memorial Oration 60th IOACON 12 Dec 2015. Invited lecture in Indian summer session at British orthopaedic association, Liverpool sept. 2015. 2. Delivered President lecture on “Minimum (optimum) standard of orthopedic care for all: An achievable target” - IOACON 2014 at Hyderabad 3. Delivered President lecture at annual conference of Indian Orthopaedic society at London (UK) 4. Represented India at Third FFN Global Conference on fragility fracture at Madrid, Spain. Delivered talk on fragility fracture – Indian perspective 5. Planary lecture in IOA 2011 6. ASSI Publication Award for 2011 7. Commonwealth fellowship for training in spine surgery in Royal hospital for sick children Edinburgh, UK 2009 8. Past president oration of Delhi orthopaedic Association Jan 2009 9. DR B Mukhopadhyay oration of Bihar Orthopaedic Association Mar 2009 10. Dr O P Sharma oration of MP chapter IOA Oct 2009 11. Best publication award of Delhi Orthopaedic Association 2007 12. Dr PK Duriaswami oration of North Zone Indian orthopaedic association 2006 13. Best Oral Presentation award of XXIII Sicot/Sirot World Congress at Istanbul Turkey 2-9 sept 2005 title of the talk” Tuberculous paraplegia - Correlation of clinical course with cord changes on MRI. . 14. Best poster Presentation award of XXIII Sicot/Sirot World Congress at Istanbul Turkey 2-9 Sept 2005 . 15. Best Publication Paper award of Association of spine surgeons on India for the year 2005 16. S N Buxi gold medal for best published paper in Indian Journal of Orthopaedics for year 2005 17. Dr. Anil Gupta memorial lecture of UP Chapter IOACON 2004 18. Dr. Anil Gupta memorial lecture of UP Chapter IOACON 2004 19. WOC-Sicot scholarship to attend sicot-sirot at San-Diego 23-30 Aug 2002 20. AO fellowship to University Hospital Zurich Switzerland and Queen Medical centre Nottingham UK 6 march-27 April 2001. 21. INOR foreign fellowship IOA 1999 to attend BOA Annual conference. 22. Krishan Mohan Fellowship of Delhi Orthopaedic Association for 1995. 23. Best Paper Award on Spinal Tumor Syndrome - Our Experiences at XIV Annual Conference of North Zone of IOA at Chandigarh 25-27th March, 1994. 24. Silver Jubilee lecture Award of Indian Orthopaedic Association, 1994. 25. Best Paper Award on Spinal Tumor Syndrome - Our Experiences at XIV Annual Conference of North Zone of IOA at Chandigarh 25-27th March, 1994. 26. Silver Jubilee lecture Award of Indian Orthopaedic Association, 1994. 27. WHO fellowship for year 1992-93 for training in Spinal Surgery at Harlow Wood Orthopaedic Hospital, NOTTS NG18 4th United Kingdom under Prof. R.C. Mullholand from 5th April 1993 to 25th June 1993. 28. Johnson & Johnson and Roaf Traveling Fellowship of Indian Orthopaedic Association for year 1991. <p>Editorial experirnce</p> <p>1. Deputy Editor -Journal Bone and Joint surgery (Am)</p>

	2. Associate Editor - european Journal of orthopaedics and traumatology
Dr. M.P Singh	<ol style="list-style-type: none"> 1. Ex-editor in chief. Health Renaissance online journal of BPKIHS Dharan,Nepal 2. Ex-HOD, B.P. Koirala Institute of Health Sciences,Dharan,Nepal Year 2005-09 3. Organising chairman of National Nepal orthopedic association at Dharan. Year 2006 4. Awarded WHO fellowship in Total Joint Replacement in Year 1997 at Philadelphia and Boston,USA
Dr. IK Dhammi	<ol style="list-style-type: none"> 1. SPECIAL RECOGNITION AWARD 2014 for working with Indian Journal of Orthopaedics as Associate Editor, given during IOACON 2014 at Hyderabad. 2. CERTIFICATE OF APPRECIATION” given on Doctor’s Day (1st July 2011) <i>for the distinguished services to GTB Hospital and UCMS, Delhi</i> 3. Krishna Mohan Travelling Fellowship of Delhi Orthopaedic Association, 2000. 4. Johnson & Johnson and Roaf Travelling Fellowship (IOA) 1999.
Dr. Manish Chadha	<ol style="list-style-type: none"> 5. Awarded the Asia Pacific Spine Society(APSS) travelling fellowship for the year 2014 at multiple centers at Malaysia, Taiwan and Japan from Oct 2014 to November 2014. 6. Awarded the Commonwealth Academic Staff Fellowship at the ROBERT JONES AND AGNES HUNT ORTHOPAEDIC NHS TRUST HOSPITAL, SHROPSHIRE, OSWESTRY from 25th November 2012 to 24th May 2013. 7. Awarded the Young Ambassador's award of the APOA at the Golden Jubilee Congress of the Asia Pacific Orthopaedic Association held at Delhi in October 2012. 8. Awarded the AA Mehta Gold medal for the best oral presentation at IOACON 2010 held at Jaipur in December 2010. 9. Awarded the North American Spine Society (NASS) Clinical Traveling Fellowship 2010 for 3 months at various centers at USA. 10. Awarded the Dartmouth Hitchcock Spine fellowship at the Dartmouth Hitchcock spine center, Lebanon, NH, USA in Sept-Oct 2009. 11. Awarded the IOA-IOS UK (Indian Orthopaedic Association- Indian Orthopaedic Society UK) Spine fellowship at various centers in UK in May 2009. 12. Winner of the International Fellowship of International Society for the Study of the Lumbar Spine (ISSLS) for the SPINEWEEK 2008 at Geneva, Switzerland in May,2008. 13. Awarded the Tohoku University visiting fellowship (Prof. S. Kokubun Spine Fellow) for the year 2007-08 in May 2008. 14. Awarded the Dr S S Yadav Gold Medal for the best oral presentation in the oncology section of the Indian Orthopaedic Association Annual Conference held at Kolkata in Dec 2007. 15. Awarded the J and J fellowship of the Indian Orthopaedic Association for the year 2007. 16. Awarded the Association of Spine Surgeons of India (ASSICON) traveling fellowship for the year 2007. 17. Recipient of the Scoliosis Research Society Global Outreach Program Scholarship for the year 2006 at Monterey, California, USA. 18. Recipient of the Scoliosis Research Society Global Outreach Program Scholarship for the year 2005 at Miami, Florida, USA. 19. Recipient of the SICOT BH Ahn Award of Korea at Istanbul, Turkey for the year 2005. 20. Visiting Surgeons Programme (Clinical Fellowship) in Spine at the Schulthess Clinic, Zurich, Switzerland with Prof. Dieter Grob in July 2004. 21. Clinical Fellowship in Spine at the Leeds General Infirmary, Leeds, UK with Mr. Gerry Towns in July 2004 22. Clinical Fellowship in Spine at the National Spinal Injury Center, Stoke Mandeville Hospital, Aylesbury, UK with Prof. Patrick Kluger in June 2004.

Dr. Aditya Aggarwal	<ol style="list-style-type: none"> 1. Awarded the Commonwealth Academic Staff Fellowship at Royal Liverpool University Hospital, U.K., 2011 2. Organizing Secretary of Workshop on the Principles and Practice of Orthopaedic Research and Publication, UCMS & GTB Hospital, Delhi 2010 3. Organizing Secretary of Workshop on Principles and Practices of Orthopaedic Research, UCMS & GTB Hospital, Delhi 2008 4. Awarded the Delhi Orthopaedic Association Travelling Fellowship, 2007. 5. Won the Best Paper Award at Delhi Orthopaedic Association, Annual Conference, 1995.
Dr. Puneet Mishra	<ol style="list-style-type: none"> 1. Endoklinik Fellowship Certification for completing fellowship in Adult Complex Primary and Revision total Joint Arthroplasty of Hip And Knee at Endoklinik, Hamburg, Germany ,Dec 2012 2. Synos Foundation (Foundation for the advancement of Orthopaedic Surgery) Fellowship Certification for completing fellowship in Hip & Pelvis Reconstruction under Prof. Ganz, Inselspital, Bern, Switzerland, May 2004
Dr. Rehan Ul Haq	<ol style="list-style-type: none"> 1. Best poster award for “Management of Late Presenting Displaced ICNF by Osteosynthesis and anterior muscle pedicle bone grafting” at the Annual Conference of IOS UK at Birmingham UK 2011. 2. Best paper award for “Management of Late Presenting Displaced ICNF by osteosynthesis and anterior muscle pedicle bone grafting” at the Annual Conference MPIOCON 2010 at Khajuraho. 3. Best poster award for “Role of late decompression and stabilization in patients with spinal cord injury” at the International Spine and Spinal Injury Conference under the patronage of the International Spinal Cord Society held at Indore from 23rd to 25th Feb 2007.

• **Students in last academic year**

NAME (In alphabetical order of last name)	AWARD	DATE RECEIVED
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30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any: **1st UCMS Trauma Symposium organised by the Department on 09 August 2015 funded by sponsors and registrations.**
31. Code of ethics for research followed by the departments: **All clinical research is followed as per the internationally accepted Code of Ethics for Human Research stated in the Declaration of Helsinki. Further, all clinical research is conducted after approval of the Institutional Ethical Committee.**
32. Student profile programme-wises: **Admission process for the MS programme run by the department is conducted by the Delhi University as per their laid rules and regulations. No such information regarding applicant details as these are available with individual departments.**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass	
		Male	Female	Male	Female

33. Diversity of students. **Admission process for the MS programme run by the department is conducted by the Delhi University as per their laid rules and regulations. No such information regarding applicant details as these are available with individual departments.**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
All courses	Selection from all across country for Indian citizens			0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.
No such information is available with the department of Orthopaedics

35. Student progression

Student progression	Percentage against enrolled
UG to PG	Not applicable
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	
• Other than campus recruitment	
Entrepreneurs	

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	3/6 (50%)
from other universities within the State	None
from universities from other States	3/6 (50%)
from universities outside the country	None

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: **NA**

38. Present details of departmental infrastructural facilities with regard to a)

Library: **Present**

b) Internet facilities for staff and students: **Present**

c) Total number of class rooms: **Departmental seminar room with capacity to hold 50 students.**

d) Class rooms with ICT facility and “smart” class rooms: **None**

e) Students’ laboratories: **None**

f) Research laboratories: **NA**

39. List of doctoral, post-doctoral students and Research Associates: **None**

a) from the host institution/university:

b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: **Information pertains to Academic Section (UCMS). No such information available in Department of Orthopaedics.**

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. **NA**

42. Does the department obtain feedback: **Feedback is obtained formally.**
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - alumni and employers on the programmes offered and how does the department utilize the feedback?
43. List the distinguished alumni of the department (maximum 10):
- 1. Prof. SM Tuli**
 - 2. Prof. Sudhir Kumar**
 - 3. Dr. Aditya Aggarwal**
 - 4. Dr. Anil Sethi**
 - 5. Dr. Aditya Maheshwari**
 - 6. Dr. Amite Pankaj**
 - 7. Dr. Anil Arora**
 - 8. Dr. Shobha Arora**
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- Mr. E. Kamara from Harvard University, USA did visiting studentship in 2011 with financial support from Public Health Foundation of India**
45. List the teaching methods adopted by the faculty for different programmes including clinical teaching.
- 1. Lectures/Didactic sessions**
 - 2. Small group interactive discussions**
 - 3. Problem based learning**
 - 4. Patient case oriented teaching in operation theatres**
 - 5. Clinical rounds in wards.**
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
- Directions from academic section are strictly followed.**
47. Highlight the participation of students and faculty in extension activities.
- 1. Help during natural calamities & disasters e.g. J&K flood calamity, Gujarat earthquake, Nepal earthquake.**
 - 2. Organised Locomotor disability camp on quarterly basis.**
 - 3. Part of surgical camps on Lifeline express.**
 - 4. Organised Rehabilitation camp with National Thermal Power Corporation**

(NTPC).

48. Give details of “beyond syllabus scholarly activities” of the department.

1st UCMS Trauma Symposium was organised and conducted by department in 09 August 2015.

49. State whether the department is accredited by other agencies? **MCI Recognised**

50. Briefly highlight contributions of the department in generating new knowledge, basic or applied.

Through research papers & projects as evident by publications.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges of the department.

Strengths	Weaknesses	Opportunities	Challenges
Qualified and experienced faculty	Lack of super-specialized departments.	Expansion to build super-specialized departments.	Budget allocation; space constraint; bureaucracy;
Trainees are adult learners, motivated.	Inadequate advanced equipments to enhance skills.	Attract funds for research	Inability to drive “duty first” attitude.
Good interpersonal relationships	Lack of dedicated in-department academic time for faculty; academic block; online access to wide range of academic material.	Allotting dedicated academic time/hours to faculty. Building academic block with shared resources for all departments such as teaching aids etc...	
Adequate Clinical material	Lack of electronic centralized health information system.	Building up a HIS to also improve transparency in clinical outcomes.	
Wide variation in patient presentation/good opportunities for trainee-patient interactions	Lack of consistent availability of essential medications/equipments; lack of in-house biomedical engineers for faster maintenance of equipment.	Building of a biomedical engineering wing for in-house maintenance of equipment.	

52. Future plan of the department.

- State of art bone bank in the department.
- State of art trauma centre.

- To develop sub speciality super specialisation with dedicated patient care areas in various regions like musculo skeletal oncology, paediatric orthopedics, joint replacement, sports injuries and spine.
- To start student exchange programmes at undergraduate and post graduate level in orthopedics.

To start fellowship programmes in collaboration with national and international university programme in orthopedics sub specialities like spine, complex orthopedic trauma.

PUBLICATIONS
2009 – 2016 (July)

Indexed Journals

- 1) Jain AK. Current state of orthopaedic education in India. Indian J Orthop. 2016;50(4).
- 2) Correlation of diffusion tensor imaging parameters with neural status in Pott's spine. SICOT J 2016, 2, 21. DOI: 10.1051/sicotj/2016014 - *Impact Factor*; **2.110**.
- 3) **Jain AK** . Tuberculosis of spine : Research evidence to treatment guidelines. Indian J Orthop. 2016;50(1): 3-9. - *Impact Factor*; **0.64**
- 4) Pathrot D, Ul Haq R, **Aggarwal AN**, Nagar M, Bhatt S. Assessment of the geometry of proximal femur for short cephalomedullary nail placement: An observational study in dry femora and living subjects. Indian J Orthop. 2016;50(3):269-76.
- 5) Dhammi IK, **Ul Haq R**. Trauma surgery –What is new in it? Indian J Orthop 2016;50:227. (Editorial)
- 6) **Haq RU**, Manhas V, Pankaj A, Srivastava A, Dhammi IK, Jain AK. Author's response: the lateral femoral wall. **Int Orthop**. 2015 Mar; 39 (3):613-4
- 7) Dhammi IK, **Haq RU**, Kumar S. Graft choices for anterior cruciate ligament reconstruction. Indian J Orthop 2015; 49:127-8. (Editorial)
- 8) Dhammi IK, **Haq RU**, Kumar S. Prophylactic antibiotics in orthopaedic surgery: Controversial issues in its use. Indian J Orthop 2015;49:373-6. (Editorial)
- 9) Verma N, Singh MP, **Haq RU**, Aggarwal AN, Jain A. Malunion in displaced intracapsular fracture neck of femur : a rare phenomenon. Chinese journal of traumatology 2015. (accepted).
- 10) **Haq RU**, Kumar J, Jain A K, Dhammi IK, Irreducible posterior dislocation of hip with ipsilateral intertrochanteric fracture: a report of two cases. Indian J Orthop 2015 (accepted).

- 11) Srivastava A, Dhammi IK, Jain AK, **Haq RU**. Post traumatic progressive cubitus varus deformity managed by lateral column shortening. A novel surgical technique. Chinese journal of traumatology 2015. (accepted).
- 12) Abbas S, **Jain AK**, Saini NS, Kumar S, Mukunth R, Kumar J, Kumar P, Kaur P. Diffusion tensor imaging observation in Pott's spine with or without neurological deficit. Indian J Orthop. 2015 ; 49(3):289-99. - *Impact Factor*; 0.64 , **Citation -3**
- 13) **Jain AK**. Apley and Solomon's concise system of orthopedics and trauma. Indian J Orthop.2015;49(2):264.
- 14) **Jain AK**, Mukunth R, Srivastava A. Treatment of neglected femoral neck fracture. Indian J Orthop. 2015 Jan-Feb;49(1):17-27 - *Impact Factor*; 0.64 , **citation -4**
- 15) Jain A, Kumar S, **Aggarwal AN**, Jajodia N. Augmentation of bone healing in delayed and atrophic nonunion of fractures of long bones by partially decalcified bone allograft (decal bone). Indian J Orthop. 2015;49(6):637-42
- 16) Agarwal A, **Aggarwal AN**. Bone and Joint Infections in Children: Septic
a. Arthritis. Indian J Pediatr. 2015 Jul 21. [Epub ahead of print] PubMed
PMID:26189923
- 17) Agarwal A, **Aggarwal AN**. Bone and Joint Infections in Children: AcuteHematogenous Osteomyelitis. Indian J Pediatr. 2015 Jun 23. [Epub ahead of print]PubMed PMID: 26096866.
- 18) Jain A, Jajodia N, **Aggarwal AN**, Singh J, Gupta S. Tuberculosis of the sternoclavicular joint. J Orthop Surg (Hong Kong). 2015 ;23(3):315-8
- 19) Sharma R, **Aggarwal AN**, Bhatt S, Kumar S, Bhargava SK. Outcome of low level lasers versus ultrasonic therapy in de Quervain's tenosynovitis. Indian J Orthop.2015;49(5):542-8.
- 20) **Jain AK**. Author's reply: "Cultivate... research an attitude and learning a passion". Indian J Orthop. 2014 Nov;48(6):632-3. - *Impact Factor*: 0.64 Citation -2
- 21) **Jain AK**. Minimum (optimum) standard of orthopedic care for all: An achievable target. Indian J Orthop. 2014 Nov;48(6):541-4. - *Impact Factor*: 0.64
- 22) Jain AK, Sreenivasan R, Mukunth R, Dhammi IK. Tubercular spondylitis in children. Indian J Orthop. 2014 Mar;48(2):136-144.
- 23) Jain AK. Cultivate... research an attitude and learning a passion. Indian J Orthop. 2014 Mar;48(2):125-6.

- 24) Kumar J, Dhammi IK, Jain AK. Neglected surgically intervened bilateral congenital dislocation of knee in an adolescent. *Indian J Orthop.* 2014 Jan;48(1):96-9.
- 25) Dhammi IK, Kumar S. Osteosarcoma: A journey from amputation to limb salvage. *Indian J Orthop.* 2014;48:233-4.
- 26) Dhammi IK, Kumar S. Medical subject headings (MeSH) terms. *Indian J Orthop.* 2014;48:443-4.
- 27) Haq RU, Manhas V, Pankaj A, Srivastava A, Dhammi IK, Jain AK. Proximal femoral nails compared with reverse distal femoral locking plates in intertrochanteric fractures with a compromised lateral wall; a randomised controlled trial. *Int. Orthop.* 2014;38:1443-9
- 28) Jain S, Jain AK, Dhammi IK, Modi P. Neglected Patellar Tendon Rupture Treated by Trans-Osseous Encirclage Wire and Turn-O-Flap: Case Report. *JOCR* 2014;4:5-8
- 29) Goyal N, Aggarwal AN, Mishra P, Jain A. Randomized controlled trial comparing stabilization of fresh close femoral shaft fractures in children with titanium elastic nail system versus stainless steel elastic nail system. *ActaOrthop Belg.* 2014;80(1):69-75
- 30) Aggarwal A, Singh M, Aggarwal AN, Bhatt S. Assessment of interobserver variation in Garden classification and management of fresh intracapsular femoral neck fracture in adults. *Chin J Traumatol.* 2014 ;17(2):99-102.
- 31) Sharma G, Chadha M, Pankaj A. Hip dislocation associated with ipsilateral femoral neck and shaft fractures: an unusual combination and dilemma regarding head preservation. *Acta Orthop Traumatol Turc.* 2014;48(6):698-702.
- 32) Jain A, Aggarwal P, Pankaj A. Concomitant ipsilateral proximal tibia and femoral Hoffa fractures. *Acta Orthop Traumatol Turc.* 2014;48(4):383-7.2013

- 33) **Aggarwal AN**, Jain A, Jajodia N, Nand R, Kumar S, Kumar C. Fate of kyphosis in tuberculosis of subaxial cervical spine treated nonoperatively. *Acta Orthop Belg.* 2014;80(4):451-456
- 34) Repswal B, Jain A, Gupta S, **Aggarwal AN**, Kohli T, Pathrot D. Multiple bilateral lower limb fractures in a 2 year old child: previously unreported injury with a unique mechanism. *Chin J Traumatol.* 2014 ;17(5):298-300
- 35) Jain A, **Aggarwal AN**, Gulati D, Singh MP. Controversies in orthopaedic trauma--management of fractures of shaft of femur in children between 6 and 12 years of age. *Kathmandu Univ Med J (KUMJ).* 2014;12(45):77-84.
- 36) Goyal N, **Aggarwal AN**, Mishra P, Jain A. Randomized controlled trial comparing stabilization of fresh close femoral shaft fractures in children with titanium elastic nail system versus stainless steel elastic nail system. *Acta Orthop Belg.* 2014;80(1):69-75
- 37) Aggarwal A, Singh M, **Aggarwal AN**, Bhatt S. Assessment of interobserver variation in Garden classification and management of fresh intracapsular femoral neck fracture in adults. *Chin J Traumatol.* 2014 ;17(2):99-102.
- 38) Rustagi A, **Aggarwal AN**, Gulati D. Acquired Manus Valgus: a difficult problem with simple solution. *Journal of Orthopaedics Trauma and Rehabilitation* 2014;18(1):47-48
- 39) Dougherty PJ, Sethi A, Jain AK. Orthopaedic Surgery Education in India. *Clin Orthop Relat Res.* 2013 Feb; 472(2):410-4.
- 40) Jain S, Jain AK, Kumar I. Outcome of open reduction and internal fixation of intraarticular calcaneal fracture fixed with locking calcaneal plate. *Chin J Traumatol.* 2013 Dec 1;16(6):355-60.
- 41) Jain AK, Kumar S. Bone and Joint day - India. *Indian J Orthop.* 2013 Sep;47(5):435-6.
- 42) Haq RU, Dhammi IK, Jain AK, Mishra P, Kalivanan K. Infantile scurvy masquerading as bone tumour. *Ann Acad Med Singapore.* 2013 Jul;42(7):363-5.
- 43) Ul Haq R, Modi P, Dhammi I, Jain AK, Mishra P. Conjoint bicondylar Hoffa fracture in an adult. *Indian J Orthop.* 2013 May;47(3):302-6.
- 44) Jain AK, Kumar S. Indian Journal of Orthopaedics: Journey continues. *Indian J Orthop.* 2013 Jan;47(1):1-5
- 45) Letter to editor: The value of the three-point index in predicting redisplacement of diaphyseal fractures of the forearm in children. Arora R, Mishra P. Oct 2013

- 46) Chadha M, Sharma G, Arora SS, V Kochar. Association of facet tropism with lumbar disc herniation. *Eur Spine J*. 2013 May;22(5):1045-52.
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