

SCIENTIFIC PUBLICATIONS OF DR ARUN MULLAJI

BOOK

Mullaji Arun B & Shetty Gautam M. **Deformity Correction in Total Knee Arthroplasty**. 2014. Springer, New York, USA.

EDITOR OF SPECIAL JOURNAL ISSUES / TEXTBOOKS

1. Section Editor, Arthroplasty. In: Kulkarni GS, ed. **Textbook of Orthopaedics and Trauma**. Vol.4, 2nd ed. New Delhi: Jaypee; 2008: 3788-93.
2. Editor, '**Recent Advances in Joint Replacement – Part I**', Clinical Orthopaedics India, Swasthiyog Pratishtan, March 1998.
3. Editor, '**Recent Advances in Joint Replacement – Part II**', Clinical Orthopaedics India, Swasthiyog Pratishtan, September 1998.
4. Guest Editor, '**Arthritis and Joint Replacement**' Special Issue, Bombay Hospital Journal, July, 1996, Bombay.

CHAPTERS IN TEXTBOOK

1. Mullaji A, Shetty G. **Technique of Computer-assisted Total Knee Arthroplasty**, In: Master Techniques in Orthopaedic Surgery. Ed Mark Pagnano. 2017. In press.
2. Shah S, Mullaji A. **Complications of total knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 3rd ed.: Jaypee; 2016.
3. Mullaji A, Shah S. **Correction of varus and valgus deformity during total knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 3rd ed. New Delhi: Jaypee; 2016.
4. Mullaji A, Shah S. **Unicompartmental knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 3rd ed: Jaypee; 2016.

5. Mullaji Arun. **Technique of Navigated Total Knee Arthroplasty**, In Knee Surgery. Ed Ashok Rajgopal. Jaypee 2014. 165-175
6. Mullaji AB. **How I do a Knee Revision**. In Revision Total Knee Arthroplasty. Ed R Rossi. Italy. 2013. 117-36
7. Mullaji A, Shetty G. **TKA in the presence of extraarticular deformity of the femur**. In Mastering Orthopaedic Techniques. Ed Malhotra R. Jaypee. 2009
8. Mullaji A, Shetty G. **TKA in the presence of extraarticular deformity of Tibia**. In Mastering Orthopaedic Techniques. Ed Malhotra R. Jaypee. 2009
9. Page A, Mullaji A. **Complications of total knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 2nd ed.: Jaypee; 2008: 3788-93.
10. Sharma A, Mullaji A. **Correction of varus and valgus deformity during total knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 2nd ed. New Delhi: Jaypee; 2008: 3798-802.
11. Mullaji A, Kanna R. **Unicompartmental knee arthroplasty**. In: Kulkarni GS, ed. Textbook of Orthopaedics and Trauma. Vol.4, 2nd ed: Jaypee; 2008: 3809-11.
12. Mullaji A. **Shoulder Arthroplasty**. In IOA Textbook of Orthopaedics and Trauma. Ed G S Kulkarni. Jaypee. 1998

PUBLISHED PAPERS IN PEER-REVIEWED JOURNALS

1. Shetty GM, Mullaji A, Khalifa A, Ray A. **Windswept deformities – An indication to individualise valgus correction angle during total knee arthroplasty**. *Journal of Orthopaedics* 14 (2017) 70–72
2. Shetty GM, Mullaji AB, et al. **The effect of sagittal knee deformity on preoperative measurement of coronal mechanical alignment during total knee arthroplasty**. *Knee Surg and Relat Res* 2017, 29(2): 110-4

3. Mullaji AB, Shetty GM. **Efficacy of a novel iPod-based navigation system compared to traditional navigation system in total knee arthroplasty.** *Comput Assist Surg.* 2017 Dec;22(1):10-13
4. Mullaji A. **What is the Timing of General Health Adverse Events that Occur After Total Joint Arthroplasty?** *Clin Orthop Relat Res* 2017
5. McGinn T, et al. **Early Outpatient Physical Therapy May Improve Range-of-Motion in Primary Total Knee Arthroplasty.** *J Knee Surg* 2017
6. Jain S A, Shetty G, Mullaji A, Bahadur D, Srivastava R. **Development of a herbal thermoresponsive hydrogel for orthopaedic applications.** *Advanced Science Letters*, 2016 22:1, 83-88(6)
7. Mullaji A, Shetty GM. **Correcting deformity in total knee arthroplasty: techniques to avoid the release of collateral ligaments in severely deformed knees.** *Bone Joint J* 2016;98-B:101–4
8. Mullaji A, Shetty GM. **The Technique of Computer Navigation in Revision Total Knee Arthroplasty.** *J Clin Orthop* 2016 1(1) 1-4
9. Mullaji A, Shah S, Shetty GM. **Mobile-bearing medial unicompartmental knee arthroplasty restores limb alignment comparable to that of the unaffected contralateral limb.** *Acta Orthopaedica* 88(1):1-5 · October 2016
10. Borse V, Pawar V, Shetty G, Mullaji A, Srivastava R. **Nanobiotechnology Perspectives on Prevention and Treatment of Orthopaedic Implant Associated Infection.** *Curr Drug Deliv.* 2015 Aug 12
11. Mullaji A, Shetty GM. **Cemented Total Knee Arthroplasty remains the ‘Gold Standard’** *Semin Arthro* 2015 26:2, 62–64 2015
12. Shetty GM, Mullaji A, Bhayde S, Nha KW, Oh HK. **Factors contributing to inherent varus alignment of lower limb in normal Asian adults: role of tibial plateau inclination.** *Knee* 2014 Mar;21(2):544-8
13. Mullaji A, Shetty GM. **Cemented stems: a requisite in revision total knee replacement** *Bone Joint J* 2014;96-B(11 Suppl A):115–7
14. Shetty GM, Mullaji AB, Bhayde S, Lingaraju AP. **No effect of obesity on limb and component alignment after computer-assisted total knee arthroplasty.** *Knee* 2014, 21(4):862-865
15. Mullaji A, Shetty GM. **Correction of varus deformity during TKA with reduction osteotomy** *Clin Orthop Relat Res* 2014 Jan;472(1):126-32

16. Mullaji A, Shetty GM. **Acetabular protrusion: surgical technique of dealing with a problem in depth** *Bone Joint J* 2013; 95B, suppl A:37-40
17. Mullaji A, Shetty GM. **Surgical Technique: Computer-assisted Sliding Medial Condylar Osteotomy to Achieve Gap Balance in Varus Knees During TKA** *Clin Orthop Relat Res* 2013 May;471(5):1484-91
18. Shetty GM, Mullaji A, Kanna R, Vadapalli R. **The Influence of Preoperative Deformity on valgus correction angle: an analysis of 503 total knee arthroplasties** *J Arthroplasty* 2013; 28: 20-27
19. Mullaji A, Shetty GM **Correction of Severe Deformity in Total Knee Arthroplasty: Decision Making and Key Technical Considerations.** *Semin Arthro* 2012; 23:27-30
20. Mullaji A, Shetty GM, Lingaraju AP **Computer-assisted total knee replacement in patients with arthritis and a recurvatum deformity** *J Bone Joint Surg Br* 2012; 94-B 5: 642-647
21. Mullaji A, Shetty GM **Benefits of computer navigation in Total Knee Arthroplasty:** *Semin Arthro* 2012; 1:18-23
22. Shetty GM, Mullaji A, Bhayde S **Computer guided restoration of joint line and femoral offset in cruciate substituting total knee arthroplasty** *The Knee* 2012; 19, 5:611-6
23. Mullaji A, Shetty GM, Lingaraju AP. **Which Factors Increase Risk of Malalignment of the Hip-Knee-Ankle Axis in TKA?** *Clin Orthop Relat Res* 2013 Jan; 471(1): 134–141.
24. Shetty GM, Mullaji A, Lingaraju AP, Bhayde S. **How accurate are orthopaedic surgeons in visually estimating lower limb alignment?** *Acta Orthopaedica Belgica* 2011;5:638-643
25. Mullaji AB, Shetty GM. Letter to the Editor: **Computer assisted TKA for arthritis with extra-articular deformity.** *Journal of Arthroplasty* 2009; 24(4): 657
26. Shetty GM, Mullaji A. **The humble toothbrush - A simple and inexpensive tool for bone surface preparation in cemented total knee arthroplasty.** *MOA Journal* 2011; 6:1-4.
27. Mullaji AB, Shetty GM, Kanna R. **Postoperative limb alignment and its determinants after minimally-invasive Oxford medial unicompartmental knee arthroplasty.** *J Arthroplasty* 2011; 26:919-25.

28. Mullaji A, Shetty GM. **Persistent hindfoot valgus causes lateral deviation of weight-bearing axis after total knee arthroplasty.** *Clin Orthop Relat Res* 2011; 469:1154-60.
29. Mullaji A, Lingaraju AP, Shetty GM. **Alignment of computer-assisted total knee arthroplasty in patients with altered hip center.** *J Arthroplasty* 2011; 26:1072-7
30. Shetty GM, Mullaji A, Bhayde S, Desai D, Sathe M. **Effect of periarticular clonidine on postoperative pain and function after total knee arthroplasty.** *Journal of Orthopaedics and Rehabilitation* 2011;1:44-50.
31. Mullaji AB, Kanna R, Chawda V, Singh D P. **Efficacy of periarticular injection of bupivacaine, fentanyl and methylprednisolone in TKA: A prospective, randomised trial.** *J Arthroplasty* 2010 (25): 851-857
32. Shetty G, Mullaji A. **Simultaneous bilateral versus unilateral computer-assisted total knee arthroplasty: A prospective comparison of early postoperative pain and functional recovery** *The Knee*; 2010 (17): 191-5
33. Mullaji A, Shetty G. **Total knee replacement for arthritic knees with tibio-fibular stress fractures: Classification and treatment guidelines** *J Arthroplasty* 2010; 25(2): 295-301
34. Mullaji A, Shetty G, Kanna R, Sharma A. **Variability in the range of inter-anterior superior iliac spine distance and its correlation with femoral head centre A prospective CT Scan study of 200 adults.** *Skeletal Radiology* 2010; 39 (4): 363-368
35. Mullaji A, Shetty GM. **Lateral Epicondylar Osteotomy Using Computer Navigation in Total Knee Arthroplasty for Rigid Valgus Deformities.** *J Arthroplasty* 2010; 25(1):166-9
36. Mullaji A, Shetty G. **Computer-Assisted Total Knee Arthroplasty for Arthritis With Extra-articular Deformity.** *J Arthroplasty* 2009; 24 (8): 1164-1169
37. Mullaji AB, Marawar SV, Mittal V. **A Comparison of Coronal Plane Axial Femoral Relationships in Asian Patients With Varus Osteoarthritic Knees and Healthy Knees.** *J Arthroplasty* 2009; 24(6): 861-7
38. Mullaji A, Shetty GM. **Computer-assisted TKA: Greater Accuracy, Doubtful Clinical Efficacy.** (Orthopedic Crossfire: Opposes) *Orthopedics* 2009 Sep; 32(9): 1-4
39. Mullaji A B, Sharma AK, Maravar S, Kohli A, Singh D P. **Distal Femoral Rotational Axes in Indian Knees.** *Journal of Orthopedic Surgery* 2009; 17(2) 295-8
40. Mullaji A, Kanna R, Marawar S, Kanna R. **Quantification of Effect of Sequential**

- Posteromedial Release on Flexion and Extension Gaps:** A computer-assisted study in cadaveric knees. *J Arthroplasty* 2009; 24(5):795-805
41. Shetty GM, Mullaji A. **Alignment in Computer-Navigated versus Conventional Total Knee Arthroplasty for Valgus Deformity.** *South African Orthop J* 2009; 41-6
 42. Mullaji AB, Marawar S, Luthra M. **Tibial Articular Cartilage Wear in Varus Osteoarthritic Knees:** Correlation with Anterior Cruciate Ligament Integrity and Severity of Deformity. *J Arthroplasty* 2008 23(1) 128-135
 43. Mullaji AB, Sharma AK, Marawar S, Kohli A. **Tibial torsion in non-arthritic Indian adults:** A computer tomography study of 100 limbs. *Indian J of Orthopaedics* 2008: 42(3) 309-313
 44. Mullaji A B, Marawar S, Simha M, Jindal G. **Cruciate Ligaments in Arthritic Knees: A Histological Study with Radiological Correlation.** *J Arthroplasty* 2008 23(4): 567-572
 45. Mullaji A, Kanna R, Marawar S, Kohli A. **Comparison of limb and component alignment using computer-assisted navigation versus image intensifier-guided conventional total knee replacement:** A prospective randomised single-surgeon study of 467 knees. *J Arthroplasty* 2007; 22(7): 953-959
 46. Mullaji A B, Sharma A, Marawar S. **Unicompartmental Knee Arthroplasty:** Functional recovery and radiographic results with a minimally invasive technique. *J Arthroplasty* 2007; 22(4): 7-11
 47. Mullaji AB, Marawar S, Sharma A. **Correcting varus deformity.** *J Arthroplasty* 2007; 22(4) 15-19
 48. Mullaji A B, Marawar S. **Primary Total Hip Replacement in Protrusio Acetabuli using Impacted Morsellized Bone Graft and Cementless Cups: A medium-term radiographic review.** *J Arthroplasty* 2007; 22(8): 1143-9
 49. Prasad N, Padmanabhan V, Mullaji A. **Blood loss in total knee arthroplasty: an analysis of risk factors.** *Int Orthop* 2006; Mar 28
 50. Mullaji AB, Padmanabhan V, Jindal G. **Total Knee Arthroplasty for Profound Varus Deformity: Technique and radiological results in 173 knees with varus more than 20 degrees.** *J Arthroplasty* 2005; 20(5): 550-561
 51. Prasad N, Padmanabhan V, Mullaji A. **Comparison between two methods of drain clamping after total knee arthroplasty.** *Arch Orthop Trauma Surg.* 2005 Jul;125(6):381-4

52. Mullaji AB **Arthrogyrosis Multiplex Congenita: Results of correction of severely deformed lower extremities.** *Asian Journal of Paediatric Practice*, 2(2), 68-71, 1998
53. Miyasaka KC, Ranawat CS, Mullaji AB **10- to 20-year followup of Total Knee Arthroplasty for valgus deformities.** *Clinical Orthopaedics & Related Research* 345, 29-37, 1997
54. Sharma AK, Shukla S, Jain S, Mullaji A **Total hip replacement after Girdlestone arthroplasty.** *Bombay Hospital Journal*, 38 (3), 597-9, 1996
55. Mullaji AB **Total knee replacement in arthritic knees with severe deformity.** *Bombay Hospital Journal*, 38 (3), 501-11, 1996
56. Sharma AK, Shukla S, Mullaji A **Two-stage total knee replacement in pyogenic arthritis.** *Bombay Hospital Journal*, 38 (3), 600-603, 1996
57. Mullaji AB, Mendoza F **Principles of Shoulder Replacement** *Bombay Hospital Journal*, 38 (3), 573-8, 1996
58. Sharma AK, Shukla S, Mohanty SS, Mullaji A. **Shoulder replacement in a head-splitting 4-part fracture of the proximal humerus.** *Bombay Hospital Journal*, 38 (3), 604-7, 1996
59. Mullaji AB **Recent breakthroughs in our understanding of osteoarthritis.** *Bombay Hospital Journal*, 38 (3), 459-62, 1996
60. Mullaji AB **Joint replacement surgery: Basic concepts.** *Bombay Hospital Journal*, 38 (3), 478-85, 1996
61. Upadhyay SS, Mullaji AB, Luk KDK, Leong JCY **Relation of spinal and thoracic cage deformities and their flexibilities with altered pulmonary functions in adolescent idiopathic scoliosis.** *Spine*, 20, 2415-20, 1995.
62. Upadhyay SS, Mullaji AB, Luk KDK, Leong JCY **Evaluation of deformities and altered pulmonary functions in adolescent scoliosis.** *European Spine Journal* 4: 274-9, 1995
63. Mullaji AB, Todd RC, Robinson S, Critchley M **Quantitative bone scanning after asymptomatic Charnley arthroplasty.** *Acta Orthopaedica Scandinavica*, 65(3): 276-280, 1994
64. Mullaji AB, Heywood-Waddington MB, Adhikari A **The unreplaced compartments after unicondylar knee replacement.** *Journal of Orthopaedic Rheumatology*, 7, 93-8, 1994

65. Flanagan JP, Trakru S, Meyer M, Mullaji AB, Krappel F **Arthroscopic excision of symptomatic medial plica: a study of 118 knees.** *Acta Orthopaedica Scandinavica*, 65(4): 408-411, 1994
66. Mullaji AB, Beddow FH, Lamb GHR **CT measurement of glenoid erosion in arthritis.** *Journal of Bone & Joint Surgery (Br)*, 76-B, 384-8, 1994
67. Mullaji AB, Upadhyay SS, Luk KDK, Leong JCY **Vertebral growth after posterior spinal fusion for idiopathic scoliosis in skeletally immature adolescents.** *Journal of Bone & Joint Surgery (Br)*, 76-B, 870-6, 1994
68. Mullaji AB, Upadhyay SS, Ho EK **Bone mineral density in ankylosing spondylitis.** *Journal of Bone & Joint Surgery (Br)*, 76-B, 660-5, 1994
69. Kuner EH, Kuner A, Schlickewei W, Mullaji AB **Ligamentotaxis with an internal spinal fixator for thoracolumbar fractures.** *Journal of Bone & Joint Surgery (Br)*, 76B, 107-12, 1994
70. Mullaji AB, Jupiter JB **Low-contact dynamic compression plating of the clavicle.** *Injury*, 25, 41-45, 1994
71. Jupiter JB, Mullaji AB **Blade-plate fixation of proximal humeral nonunions.** *Injury*, 25, 301-3, 1994
72. Mullaji AB, Thomas TL **Low-energy subtrochanteric fractures in elderly patients.** *Journal of Trauma* 34, 56-61, 1993
73. Schlickewei W, Elsasser B, Mullaji AB, Kuner EH **Hip dislocation without fracture - traction or early mobilisation after reduction?** *Injury* 24, 27-31, 1993
74. Mullaji AB, Todd RC, Robinson S **Quantitative technetium-99m uptake after asymptomatic Charnley arthroplasty.** *Journal of Bone & Joint Surgery (Br)* 75B, 55, 1993
75. Mullaji AB, Emery RJH, Joysey V, Todd RC, Rushton N **HLA and slipped capital femoral epiphysis.** *Journal of Orthopaedic Rheumatology*, 6, 167-9, 1993
76. Mullaji AB, Ranawat NS **Autologous bone grafting and hip arthroplasty for acetabular protrusion.** *Indian Journal of Orthopaedics* 26, 46-50, 1992
77. Mullaji AB **Idiopathic non-progressive deltoid muscle contracture.** *French Journal of Orthopaedics* 6, 164-7, 1992
78. Schlickewei W, Kuner EH, Mullaji AB, Gotze B **Upper and lower limb fractures with concomitant arterial injury.** *Journal of Bone & Joint Surgery (Br)* 74B, 181-8, 1992

79. Mullaji AB **Retraction idiopathique chronique du deltoïd.** *Revue Chirurgie Orthopaedica* 78, 130-3, 1992
80. Mullaji AB, Todd RC **Late ipsilateral trochanteric fractures in patients with longstanding hip fusion.** *Injury* 22, 233-5, 1991
81. Emery RJH, Mullaji AB **Glenohumeral joint instability in normal adolescents - incidence and significance.** *Journal of Bone & Joint Surgery (Br)* 73B, 406-8, 1991
82. Emery RJH, Mullaji AB **Glenohumerale gelenkinstabilitat bei unauffalligen jugenlichen.** *Extracta Orthopaedica*, 14: 15, 1991
83. Dhir RS, Mullaji AB, Panchal S **Delayed laceration of the radial nerve due to protruding implant.** *Indian Journal of Surgery* 52, 361-3, 1990
84. Mullaji AB, Shahane MN. **Continuous passive motion for the prevention and rehabilitation of knee stiffness.** *Journal of Postgraduate Medicine* 35, 204-8, 1988

TOTAL CITATIONS OF PUBLICATIONS over 3000