



# Activity Report

Academic Research Division

Sancheti Institute for Orthopedics and Rehabilitation

2009-2010

## Academic Research Division

Chairman – Dr Parag K. Sancheti

Chief Researcher and Head – Dr Ashok K. Shyam

Clinical Research Co-ordinator– Dr Pranjali Jadhav

Data Manager- Rupali Kavhale, Neha Pancholi, Chaitali Deshmukh

## **List of Paper Publications in 2009- 2010**

1. Patwardhan S, Shyam AK, Sancheti PK, Parate PH, Rocha S . Effects of fractional hamstring release on crouching gait and scissoring gait in a patient of cerebral palsy. Medical Journal of Western India. Dec 2009; (37):61-69.
2. Sancheti KH, Sancheti PK, Shyam AK, Dhariwal Q, Patil Surendra, Joshi R. Clinical and Functional Outcome of Indus Knee Prosthesis- A prospective Single Centre Study. Medical Journal of Western India. Dec 2009; (37):35-43.
3. KH, Sancheti PK, Shyam AK, Dhariwal Q, Patil Surendra, Joshi R Management of Unstable osteoporotic Intertrochanteric Fractures of the Femur in the Elderly by Primary Partial Hip Replacement – a Cohort Study. Ahead of Print Indian Journal of Orthopaedics. Oct –Dec 2010
4. Ketan Khurjekar, A.K. Shyam, Vivek Sharma, K. Keskar, P. K. Sancheti: Surgical treatment of adolescent severe stiff idiopathic scoliosis with combined anterior and posterior approach – a prospective cohort study. J.Orthopaedics 2009;6(4)e6
5. P. K. Sancheti, Atul Patil, A.K. Shyam, Kailash Patil, Milind Merchant. Outcome of Operatively Treated Anterior Column Fracture of the Acetabulum- A Short term Prospective Cohort Study. J.Orthopaedics 2009;6(4)e7
6. Sancheti KH, Laud NS, Bhende H, Reddy G, Pramod N, Mani JN. The INDUS knee prosthesis - Prospective multicentric trial of a posteriorly stabilized high-flex design: 2 years follow-up. Indian J Orthop 2009;43:367-74

7. Shyam AK, Sancheti PK, Patel SK, Rocha S, Pradhan C, Patil A. Use of antibiotic cement-impregnated intramedullary nail in treatment of infected non-union of long bone. *Indian J Orthop* 2009;43:396-402
8. M.S. Kulkarni, S.R. Sathe, K.C. Sharma, K.H. Sancheti. Finite element analysis of mechanical behavior of SMP hip joint implanted in femur bone. *Trends in Biomaterials and Artificial Organs*, May-August, 2009 page 10-15
9. Kim HJ, Song H, Shyam AK, Heon SS, Unnikrishnan R, Song S. Skeletal age in idiopathic short stature: An analytical study by the TW3 method, Greulich and Pyle method. *Indian J Orthop* 2010;44:322-6
10. Shyam AK, Song HR. Author's reply to comments on Shyam et al: Leg lengthening by distraction osteogenesis using the Ilizarov apparatus: a novel concept of tibia callus subsidence and its influencing factors. Published in *International Orthopedics*. 2010 Feb 27
11. Sancheti P, Hardikar M, Karne N, Panse J, Singh S, Maria A, Basu I. A multicentric, randomized, comparative clinical trial to evaluate the efficacy and safety of S-etodolac in the treatment of osteoarthritis in Indian patients. *Int J Clin Pharmacol Ther*. 2010 Jul;48(7):429-34.
12. Flow Investigators. Fluid lavage of open wounds (FLOW): design and rationale for a large, multicenter collaborative 2 x 3 factorial trial of irrigating pressures and solutions in patients with open fractures. *BMC Musculoskelet Disord*. 2010 May 6;11:85.

## **List of article submitted to Various Journals**

1. Medial Defects in Total Knee Arthroplasty- Mathematical Model and Clinical Results of a novel Press Fit Technique of Bone Grafting - submitted to Journal of Bone and Joint Surgery [Br]

2. Role of fibular plating and above knee cast as a modality of treatment for fracture of distal tibia metaphyseal fractures - A Prospective Study. – Submitted to Journal of Orthopaedic Trauma.

3. Role of Locked Compression Plate in non union long bone fractures – Submitted to Injury.

4. Acetabular Fractures- Revisiting the basics of Management – Submitted to Orthopedic Pearls.

5. Effect of kyphosis and wedge angle on functional outcome of vertebroplasty- Submitted to Journal of Orthopaedics Surgery.

6. Juxtaphyseal Interosseous Hemangioma of Proximal Femur causing coxa vara and coxa breva deformity in a growing child: a case report – submitted to Joint Bone spine.

7. Femoral Neuropathy caused by Unfixed Lesser Trochanter fragment in an Unstable Intertrochanteric Femur Fracture- a case report with review of literature. – submitted to Journal of Orthopedic Surgery and Research.
8. Prospective Cohort Study to compare three commonly used Drain Protocols in Primary Knee Arthroplasty - Submitted to Journal of Arthroplasty.
9. Early functional outcome of extended curettage and reconstruction with bone grafting and/or cementing in giant cell tumors of bone – submitted to Medical Journal of Western India.
10. Functional outcome of surgical fixation of posterolateral corner and cruciate ligament reconstruction - submitted to Medical Journal of Western India.
11. Role of Physiotherapy in India – A Cross-sectional Survey to Study the Awareness and Perspective among Referring Doctors – submitted to Post Graduate Journal of Medicine.
12. Comparative study between Isolytic Contraction and Passive Manual Stretching to gain Knee Range of Motion after a hip surgery – a Prospective Double Blinded Randomised Study – Submitted to Physiotherapy and Practise.
13. Solitary skeletal Hemangioma causing limb overgrowth: A case report – submitted to Indian Journal of Orthopedics.

14. Flail limb secondary to Brachial Plexus Injury – Early results of nerve transfer surgery in a prospective Cohort. Submitted to Indian Journal of Orthopedics.

## **List of ongoing Projects**

1. A Prospective Cohort Study Of Femoral Non-Union For Analysis Of Etiological Factors And Success Of Different Treatment Modalities In Terms Of Radiological, Clinical And Functional Outcome.

2. Functional outcome of proximal humerus fractures treated with conventional plate and LCP.

3. Assessment of the functional outcome between high flexed knee and standard knee prosthesis – a Prospective Study.

4. Comparative study of complex and non complex primary total knee replacement – Clinical and Functional Outcome.

5. Prospective study of Factors affecting outcome in Revision Total Hip Replacement.

6. Study of Sequential Lateral release in Valgus Knees in Total knee replacement surgery.

7. A study of arthroscopic repair of rotator cuff tears in the elderly-clinical and functional outcomes.

8. Arthroscopic Bankarts repair in chronic anterior shoulder instability- A cohort study.

9. Arthroscopic ACL reconstruction – A prospective Cohort Study of use of four fold versus six fold tendon grafts.

10. A Prospective Cohort Study of Femoral Non-union for Analysis of Etiological Factors and Success of Different Treatment Modalities in terms of Radiological, Clinical and Functional outcome.

11. Arthroscopic Suprascapular Nerve Release- study of clinical and functional outcome.

12. Prospective study of clinical outcome of surgical reconstruction of anterior cruciate ligament with or without associated injuries to the knee joint

13. Prospective Study of Sensitivity and Specificity of Needle Biopsies in Soft Tissue Tumors.

14. DVT Prophylaxis according to AAOS guidelines – a prospective cohort study in cases of Joint Replacement.

15. RCT for comparison between direct vertebral derotation and single rod derotation techniques for deformity correction in thoracic scoliosis
16. Correlation between pre operative and postoperative alignment on functional outcome of total knee replacement.
17. Role of hyperbaric oxygen in treatment of avascular necrosis of the head of the femur

