

## **Department of Orthopedics**

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Chair

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### **General Summary**

The Department of Orthopedics is committed to producing relevant, ethical, culturally-sensitive & globally competitive research. We provide an atmosphere conducive to producing high quality research to answer the needs of our patients, the country, and the rest of the world.

The department is still at the forefront of Orthopedic research, with one consultant published twice internationally in the last year. We ended a productive year with 8 papers and 11 protocols completed. This was made possible by close collaboration between consultants and residents. Dr. Balce presented a paper in The Combined Meeting of 28<sup>th</sup> ASEAN Orthopaedic Association and 38<sup>th</sup> Malaysian Orthopaedic Association Annual General Meeting/Annual Scientific Meeting in Kula Lumpur, Malaysia. Dr. Gaston presented 2 papers at the 7<sup>th</sup> Asia Pacific Musculoskeletal Tumor Society Meeting in Beijing, China and 1 paper in the SICOT/SIROT 2008 XXIV Triennial World Congress in Hong Kong. Dr. Gaston also won 1<sup>st</sup> Place at The 2008 Resident's Interesting Case Contest. During the Philippine Orthopedic Association Annual Convention 6 posters from residents and 3 from consultants were presented.

There were three successful intra-departmental research workshops on formulating a research question, critical appraisal of published literature, research design and protocol writing. The year ended with the Annual Resident's Research Forum where completed papers and protocols were presented and judged.

The department also has 2 ongoing studies on extrapulmonary TB and DVT prophylaxis. Our goal is to increase the research competency of our staff and to publish more papers in ISI journals within the next three years.

## Research Papers

### Ongoing

**DV Antonio, P Bernardo.** An analysis of the risk factors affecting elderly patients with intertrochanteric hip fractures in the Philippine General Hospital.

**S Yson, J Javier.** A Comparison of the Union Rate and Fracture Healing between Percutaneous Bone Marrow Grafting and Iliac Crest Bone Grafting of Osteotomized Rabbit tibia: a Randomized Controlled Trial.

**J Atupan, R Bundoc.** A Biomechanical Study on Single Rod Spinal Instrumentation System in Unstable Thoracolumbar injury model; *Finite Element Analysis*.

**EL Pasion, P Bernardo.** The results of total hip arthroplasty (THA) in late stage avascular necrosis (AVN) in the Philippine setting.

**A Montalban, EM Eufemio.** A Biomechanical study on the initial fixation strength of a novel implantless technique for Anterior Cruciate Ligament reconstruction.

**D Monicit, J Javier.** The Effect of Short Duration Initial Intravenous Antibiotic Treatment in Osteoarticular Infections in Patients.

**JA Lopez, E Wang.** The Risk Factors Regarding Local Recurrence of Giant Cell Tumors of Long Bones Treated with Intralesional Excision in Patients Treated by the UP-PGH Musculoskeletal Tumor Unit: A Retrospective Cohort Study.

**JN Molon, E Estrella.** Pressure Ulcer Risk Factors Among Hospitalized Patients in the Philippine General Hospital.

**F Zarate, E Wang.** Risk Factors for Infection in Patients with Benign Bone Tumors Treated with Intralesional Curettage and Reconstruction Using Allograft Bone Chips: A Retrospective Cohort Study.

**B Gaffud, R Ang.** Pilot Study Comparing the Efficacy of Adding 0.05% Topical Tretinoin Solution versus Daikin's Solution Alone in Treating Diabetic Foot Ulcers, Wagner Classification Grade I and II, among patients seen in the PGH, Out-Patient Department.

**A Favila, E Wang.** Risk Factors for Infection in Patients with malignant and Benign Aggressive Tumors of the Extremity Treated at UP-MuST Unit with Limb Salvage Surgery.

### Completed

**CL Gaston, T Dela Rosa.** Histomorphometry and Osteoinductive Growth Factor Levels of Fracture Callus versus Iliac Crest Bone Grafts.

**P Kho, AE Valdez III.** The Course of the Superior Gluteal Nerve in the Lateral Approach to the Hip: A Descriptive Study of Filipino Cadavers.

**E King Jr, AE Valdez III.** The results of the gluteal fasciocutaneous rotation-advancement flap in the treatment of patients with sacral decubitus ulcers at the Philippine General Hospital.

**GC Balce, A Dy.** Comparison of the Effects of Hydrogen Peroxide and Ordinary Soap Solution on the Viability of Tissues and their Ability to Prevent Infection in Open Wounds.

**T Montales, T Dela Rosa.** Functional Outcome of Patients with Perilunate Dislocations.

**P Dizon, AE Valdez III.** Nerve Transfers to Restore Elbow Flexion in Brachial Plexus Injuries: A Cadaveric Study and Review of Clinical Cases.

**M Padua, D Dizon, R Bundoc.** A Biomechanical Model of the Thoracic Spine in Potts Disease.

**JR Ferrer, E Estrella, R Bundoc.** Cadaveric Study on Recipient Vessels for Free Tissue Transfer of the Upper Extremities.

### **Publications**

**E Wang, JJ Arbatin.** Allograft Recosntruction of a Large Giant Cell Tumor of the First metatarsal: A Case Report. *Foot & Ankle International*, January 2008, 29(1):pp. 97-100.

**E Wang, I Garin.** Chondroblastoma. *Journal of Orthopedic Surgery*, April 2008, 16(1):pp. 84-87.

**E Estrella, E Lee.** Lipoblastoma of the Hand Treated with Excision & Ligament Reconstruction: A Case Report. *Hand Surgery*, July 2008 Volume 13 No. 2.