Orthopedic Research: A golden opportunity to improve patient outcomes

Research has been one of the core pillars of the Department of Orthopedics of the Philippine General Hospital over its now 50 years of existence. The department established one of the earliest resident’s research contests in the hospital in 1983 and its graduates regularly publish in peer reviewed journals and present their results in international conferences. Residents are required to complete 2 original studies prior to graduation and encouraged to document their clinical cases fully for future observational studies.

Despite the apparent fascination, questions remain for a lot of trainees and clinicians. “Why do research? How does it help our patients?” Skepticism abounds as even clinically sound and well-made studies oftentimes do not lead to policy and practice changes needed to improve patient care. Given contrarian evidence from randomized controlled trials (RCTs), practices of most established surgeons do not change.

Hope remains however as evidence-based practice in orthopedics is growing and here to stay. Surgeons who accurately examine and diagnose their patient, keep medical records, analyze the medical literature for the best treatment, and explain the available options are subconsciously practicing the scientific methods of observation, documentation, analysis, and reporting conclusions which are the basis of all scientific research. Incorporating research education not just to residency training programs but also to continuing medical education (CME) courses for surgeons may help develop the skills to comprehend new studies and incorporate them into patient care. Reassuringly for the elder surgeon, even old dogs have been shown to learn new tricks for their practice, just not as fast as the younger generation.

The challenge now presented to Philippine medical practitioners is to develop clinical research that will translate into improved care for patients. As majority of literature dictating treatment for musculoskeletal disorders come from developed countries, case series or observational cohorts reporting local data in our setting is greatly important in guiding patient care. The fundamental goal is to produce high quality studies or new breakthroughs that engage discussion amongst a wide audience and lead to system changes that eventually enhance patient outcomes.

As part of the celebration of the PGH Department of Orthopedics 50th golden anniversary, this orthopedic issue of the ACTA MEDICA PHILIPPINA represents work from the different orthopedic subspecialities of the department and its graduates. Pioneering studies on brachial plexus injuries, computer navigated spine surgery, rotationplasty, artificial intelligence, pedagogy, and much more highlight the growth of orthopedics in the Philippines. A study on one of the newest fields in Philippine orthopedics, orthogeriatrics, exemplifies the importance of blazing a new trail.

The publication by Reyes et al. on a multidisciplinary orthogeriatric approach to the treatment of fragility hip fractures has shown improved outcomes consistent with the positive results of other fracture liaison services in Asia and worldwide. Their work has since led to the UPM-PGH Orthogeriatric Multidisciplinary Fracture Management Model and Fracture Liaison Service being adopted by PGH as a clinical pathway and has served as a model for other hospitals in the Philippines to improve their care of patients with fragility hip fractures. With the follow-through from the initial clinical study to administrative and policy changes, this example aptly illustrates the power of research to effect significant improvements in clinical outcomes and inspires all of us to continue to strive for better care for our patients.

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REFERENCES


