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RESEARCH GOALS: One primary goal of our research is to investigate and improve musculoskeletal education at various levels. Much of our research focuses on the ultimate goal of improving patient care.

RESEARCH SUMMARY AND SIGNIFICANCE: In the United States, musculoskeletal complaints are the second leading cause of emergency room visits. Despite the prevalence and societal burden of musculoskeletal diseases and conditions, musculoskeletal education has been noted to be deficient at all levels of medical training. We have investigated orthopaedic education at the resident level and continue to work in this area. In addition, we plan to evaluate and propose measures to improve musculoskeletal education in nonorthopaedic resident training.

Further, the hand division is planning a prospective study of open carpal tunnel release with and without closure of the palmar fascia to the transverse carpal ligament

CURRENT PROJECTS:

1. Fracture reduction and splinting technique of residents for distal radius fractures.
2. Emergency Medicine musculoskeletal education study.
3. Development of education modules (in planning stage).
4. Prospective evaluation of open carpal tunnel release with and without closure of palmar fascia to transverse carpal ligament (in planning stage).

RECENT PUBLICATIONS:

1. **LaPorte DM**, Murphy MS, Moore JR: Distal humeral nonunion: reconstruction with total elbow arthroplasty. *Am J Orthop*, 37(10):531-4, 2008.
2. Marker DR, Mont MA, Frassica FJ, **LaPorte DM**: Current Hand Surgery Literature as an Educational Tool for the Orthopaedic In-Training Examination. *J Bone Joint Surg* 91:236-240, 2009.
3. Brunton LM, **LaPorte DM**: Use of Opioids in Hand Surgery. *J Hand Surg-Am*, 2009 Jun 11 (Epub ahead of print).
4. Pichard C, **LaPorte DM**: Use of Ketorolac (Toradol®) in Hand Surgery. *J Hand Surg-Am*, 2009 Jun 11 (Epub ahead of print).
5. Mont MA, Frassica FJ, **LaPorte DM**: Orthopaedic Journal Publications and Their Role in the Preparation for the Orthopaedic In-Training Examination. Invited article for *JBJS-Am*, 2009.
6. Marker DR, Mont MA, Seyler TM, **LaPorte DM**, Frassica FJ: Current literature: An educational tool to study osteonecrosis for the OITE? *Orthop Clin North Am* 40(2):299-304, 2009.
7. Katz RD, **LaPorte DM**: Use of Short Acting Local Anesthetics in Hand Surgery. Invited article for *J Hand Surg-Am*, 2009.

8. Strassmair M, Mont MA, Seyler TM, Bosebeck H, Marker DR, **LaPorte DM**: The Use of a Type-1 Lyophilisate Collagen as an Osteoinductive Factor in Pseudarthroses of the Forearm. *Surg Technol Int*. 2009;18:213-8.
9. Myers SH, **LaPorte DM**: Acetaminophen: Safe Use and Associated Risks. *J Hand Surg AM*. 2009 Jul-Aug;34(6):1137-9. Epub 2009 May 30.
10. **LaPorte DM**, Marker DR, Ulrich SD, Johansson HR, Siddiqui JA, Mont MA: Characterization, diagnosis, and treatment of symptomatic osteonecrosis of the distal radius. Submitted to *Orthop Clin NA*.