



TWIN CITIES ORTHOPEDICS FOUNDATION

Research • Education • Community Service



*Advancing musculoskeletal health through community service,
orthopedic research, education, and training.*

www.TCOFoundation.org

VISION

- Supporting Community Programs and Services
- Promoting an Active Lifestyle
- Increasing Orthopedic Scientific Knowledge Through Research and Education
- Fostering Volunteer Orthopedic Services to Underserved Local and International Communities

2013 ACCOMPLISHMENTS

- Numerous ongoing and completed research projects
- 5th Joint Jaunt 5&10k Walk and Race, August 17, 2013
- 2nd Orthopedic Nursing Conference, October 7, 2013
- Nicaragua Volunteer Service trip, with COAN, April, 2013
- Financial Supporter of Bolder Options
- Volunteer Supporter of Hope for the City
- Participant, Operation Walk, December 2013

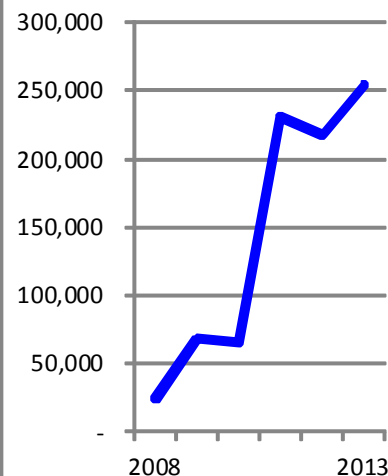
2014 PLANS

- Strategic Partnerships - CycleHealth is an organization focused on the health of kids and their involvement in endurance sports.
- Adopt a Training Room - Working with the Minneapolis School District on identifying an underserved high school in need of training room supplies and equipment.
- Scholarships - Working with underserved school district(s) to help in supporting their local scholarship program.
- ImPACT Testing - Currently working with local school districts on providing financial support for their involvement with ImPACT testing (concussion screening).

Twin Cities Orthopedics Foundation		Year Ended
Statement of Activities		December 31, 2013
Revenues		
Sports Medicine Education and Research	190,761.53	
Other Designated Funds	13,168.63	
Joint Jaunt	57,922.10	
Outreach Courses and Conferences	15,750.00	
Unrestricted Donations	44,700.00	
Total Revenues	322,302.26	
Expenses		
Program Activities		
Joint Jaunt	18,963.54	
Courses and Conferences	4,051.97	
Education and Research	219,614.72	
COAN Mission Trip	12,302.40	
Total Program Activities Expense	254,932.63	
General & Administrative		
Meals and Entertainment	204.89	
Miscellaneous	1,344.33	
Office Expense	5,614.08	
Payroll Expense	85,943.32	
Printing Expense	1,493.48	
Professional Fees	3,000.00	
Total Gen & Administrative Expense	97,600.10	
Total Expenses	352,532.73	
Change in Net Assets	(30,230.47)	
Net Assets, Beginning of Year	32,866.32	
Net Assets, End of Year 2013	2,635.85	



Program Activities



TCOF RESEARCH STUDIES & PUBLICATIONS

TCO – IRB Approved Research Studies

[Dr. David R. Anderson](#)

Long-term Patient Outcomes and Return to Activity After Total Knee Arthroplasty

[Dr. John T. Anderson](#)

Peri-Operative Patient Specific Blood and Anemia

Management in Elective Total Joint Replacement Patients

Long-term Patient Outcomes and Return to Activity After Total Knee Arthroplasty

[Dr. J. Chris Coetzee](#)

Coetzee JC, Stone RM. Comparing Ankle Arthrodesis to Ankle Arthroplasty

Coetzee JC, Stone RM. Retrieval and Analysis of Total Ankle Arthroplasty Implants and Periprosthetic Tissue: Correlating Radiographic, Clinical, Damage Mode and Inflammatory Marker Data to Elucidate the Path Toward Revision and Clinical Failure

Coetzee JC. Post Market, Longitudinal Data Collection Study of Articular Cartilage Lesions in the Ankle Treated With DeNovo NT Natural Tissue Graft

Coetzee JC, Stone RM. Multi-Center, Randomized, Controlled Study of Subtalar Arthrodesis Using AlloStem Versus Autologous Bone Graft

Coetzee JC. Treatment Outcomes of Ankle Osteoarthritis

[Dr. Christie S. Heikes](#)

Long-Term Patient Outcomes and Return to Activity After Total Knee Arthroplasty

[Dr. Christopher M. Larson](#)

Larson CM, Bedi A, Stone RM. Characterization of Symptomatic Hip Impingement in Butterfly Ice Hockey Goalies

Larson CM, Giveans MR, Bedi A, Samuelson KM, Stone RM. Arthroscopic Hip Revision Surgery for Residual FAI: Surgical Outcomes

Larson CM, Giveans MR, Stone RM, Samuelson KM. Complications after Hip Arthroscopy

Larson CM, Giveans MR, Stone RM. Arthroscopic Treatment of Femoroacetabular Impingement: Early Outcome Evaluation of Labral Refixation / Repair vs. Debridement

Larson CM, Stone RM, Giveans MR. A Multicenter Prospective Analysis of Hip Impingement Surgery

Larson CM, Giveans MR. Maximal Isometric Force Generation Comparison in Patients After Proximal Hamstring Rupture

Larson CM, Giveans MR. Management of Acetabular Rim Fractures and Os Acetabuli Associated With Femoroacetabular Impingement: A Comparative Outcomes Study

Larson CM, Giveans MR, Stone RM. Functional Outcomes in Patients with Varying Characteristics of AHS Subspine Impingement

Larson CM, Giveans MR, Stone RM, Bedi A. Outcomes after arthroscopy for Hip Dysplasia

Bedi A, Stone RM, Larson CM. A Correlation of Intraoperative Fluoroscopic images with CT to Help Define the Pathomorphology of Femoral Deformity in FAI (accepted for publication February 2014).

[Dr. Gregory N. Lervick](#)

Lervick GN. Results of Rotator Cuff Repair Following Acute Shoulder Dislocation

Lervick GN. A Novel Assessment Method for Classifying Acromioclavicular Separations

Lervick GN. Long-term Clinical Outcomes and Patient Satisfaction Rates in Clavicles Fractures With Plate Fixation

Lervick GN, Giveans MR. A Comparison of Reversed (Semiconstrained) and Unconstrained Total Shoulder Arthroplasty

Lervick GN, Giveans MR, Stone RM, Ash JR. Reversed Total Shoulder Arthroplasty Using a Deltopectoral Approach and Conservative Aftercare

Thank you!

Becky Stone, MS, ATC
Research and Education Coordinator

Lervick GN, Giveans MR. Correlation of Objective Shoulder Function With Patient Self Assessment Following Reversed Total Shoulder Arthroplasty

Lervick GN, Giveans MR, Stone RM. Arthroscopic Distal Clavicle Resection for Treatment of Residual Type II Acromioclavicular (AC) Separations

Lervick GN, Armstrong T, Stone RM, Giveans MR. Patient Satisfaction With Cosmesis and Function Following ORIF of Mid-shaft Clavicle Fractures

[Dr. Brad R. Moser](#)

Moser BR, Giveans MR. Hip Labral Tears, Articular Cartilage Degeneration, and Musculoskeletal Characteristics of Dancers

Moser BR, Giveans MR. An Evaluation of Dance-Related Injuries and Movement Patterns

Moser BR, Coetzee JC, Giveans MR. Posterior Ankle Impingement

[Dr. J. Patrick Smith](#)

Long-term Patient Outcomes and Return to Activity After Total Knee Arthroplasty

[Dr. Corey A. Wulf](#)

A Stratified, Post-Market Study of DeNovo NT Graft for Treatment of Femoral and Patellar Articular Cartilage Lesions of the Knee

MOSMI Fellowship – IRB Approved Research Studies

[Dr. J. Chris Coetzee](#)

Oliver SM, Coetzee JC, Samuelson KM, Stone RM, Giveans MR. Early Results on a Modern Generation Fixed-Bear Total Ankle Arthroplasty

[Dr. Christopher M. Larson](#)

Larson CM, Rust D, Samuelson KM, Giveans MR, Stone RM. Functional Outcomes Following Surgical Repair of Acute and Chronic Ruptures of the Proximal Hamstring Tendons

Larson CM, Cornelsen GD, Rust D, Giveans MR, Stone RM. Cam Impingement in Hockey Players

Larson CM, McCormick J, Giveans MR. Muscle Activation and Force Production in Patients Following Proximal Hamstrings Repair

Larson CM, Safran MR, Brcka D, Vaughn Z, Giveans MR, Stone RM. Prevalence of Hip Pathomorphologies and Predictors of Clinically Suspected “Intra-articular” Hip Symptoms

Larson CM, Johnston C. Return to Athletics Following Fasciotomy for Chronic Exertional Compartment Syndrome

[Dr. Gregory N. Lervick](#)

Lervick GN, Oliver SM, Giveans MR. Incidence of Positive Bacteria Cultures in Clean, Primary Shoulder Arthroplasty Procedures

Brcka D, Lervick GN, Giveans MR. Incidence of Asymptomatic Labral Pathology in the Dominant Shoulder

Lervick GN, McCormick J, Popkin C, Freeman M, Giveans MR. Reliability and Reproducibility of a New Method for Classifying Acromioclavicular Separations

Lervick GN, Merhi O, Muffenbier M, Giveans MR. Outcome of All Arthroscopic Rotator Cuff Repair Using a Single Row Fixation Technique

Lervick GN, Marger M, Merhi O, Giveans MR, Cooperman A, Fritts H, Gundry C. Correlation of Shoulder Pain Location With Physical Examination and Magnetic Resonance Imaging

[M. Russell Giveans, Ph.D.](#)

Tabaddor R, Giveans MR. Biomechanics of the WII Shoulder



2013 Publications

[Dr Scott D. Anseth](#)

Colwell CW Jr, Froimson MI, Anseth SD, et al. A mobile compression device for thrombosis prevention in hip and knee arthroplasty. *J Bone Joint Surg Am*. 2014 Feb 5;96(3):177-83. doi: 10.2106/JBJS.L.01031

[Dr. J. Chris Coetzee](#)

Peer Review Journals:

su AR, Haddad S, Coetzee JC, Berlet G. Effects of Total Ankle Arthroplasty Training Course on Physician Practice Patterns and Complication Rates. *Foot & Ankle Specialist* accepted for publication 2014.

Coetzee JC. Total Ankle Replacement. *MN Physician*. Dec. 2013;27(9):18-19.

Giza E, Howell S, Coetzee JC, Schon LC. Arthroscopic Allograft Juvenile Articular Cartilage Transplantation for Treatment of Talus Osteochondral Defects: A Report of 2 Cases and a Novel Surgical Technique *Arthroscopy*. Submitted May 2013.

Coetzee JC, Giza E, Schon LC, Berlet GC, Neufeld S, Stone RM, Wilson EL. Treatment of Osteochondral Lesions of the Talus with Particulated Juvenile Cartilage. *Foot Ankle Int* 2013 Sep;34(9):1205-11.

Coetzee JC, Rippstein PF: Total ankle replacement with the Mobility ankle. *Orthopaedic Knowledge Online Journal* 2013;11(2): Accessed February 1, 2013.

Coetzee JC, Ables A. Total Ankle Replacement for Ankle Arthritis. TornierOR News, www.tornieror.com, January 2013.

Book Chapters:

Editor for Managing Complications in Foot and Ankle Surgery, *Foot and Ankle Clinics*. Elsevier, New York, NY; 2014.

Coetzee JC. Traumatic Conditions of the Midfoot: Fusion for Lisfranc Injuries. In: *Advanced Reconstruction Series*. Rosemount, IL: Am Acad Ortho Surgery; In Publication 2014.

Coetzee JC. Complications after total ankle replacement. In: *Total Ankle Replacement: An Operative Manual 1st Edition*: Lippincott Williams & Wilkins. Philadelphia, PA; 2014: Chapter 11.

Coetzee JC. The Agility Total Ankle Prosthesis: Design Issues and Implementation Techniques That Lead to Revision Surgery. In: *The Monograph Series*. Rosemount, IL: Am Acad Ortho Surgery; Publication June 2014.

Coetzee JC. Treatment of Hindfoot and Midfoot Arthritis. In: *Surgery of the Foot and Ankle, 9th Edition*. Elsevier Inc. Philadelphia, PA. Saunders; 2013: Chapter 20: 1008-1036.

Coetzee JC, Rippenstien PF. Arthrodesis of the Tarsometatarsal (Lisfranc) Joint. In: *Atlas of Essential Orthopaedic Procedures*. Rosemount, IL: Am Acad Ortho Surgery; June 2013: Chapter 79: 519-525.

[Dr. Christopher M. Larson](#)

Peer Review Journals:

Larson CM. Sports Hernia / Athletic Pubalgia: Evaluation and Management Sports Health. March 2014;6(2):139-144.

Ayeni OR, Larson CM, Cargnelli S, Hussain A, Darren DE SA. Extra-Articular Hip Impingement: A Systematic Review Examining Operative Treatment of Psoas, Subspine, Ischiofemoral and Greater Trochanteric/Pelvic Impingement. *Arthroscopy*. Accepted February 2014.

Ross JR, Bedi A, Stone RM, Sibilsy Enselman E, Leunig M, Kelly BT, Larson CM. Intraoperative Fluoroscopic Imaging to Treat Cam Deformities: Correlation with 3D Computed Tomography. *Am J Sports Med*. Accepted Feb. 2014.

Larson CM, Kelly BT, Leunig M, Zaltz I, Clohisy JC. Letter to the Editor regarding "Surgical Dislocation of the Hip Versus Arthroscopic Treatment of Femoroacetabular Impingement: A Prospective Matched-Pair Study With Average 2-Year Follow-up" written by Benjamin G. Domb, MD., Christine E. Stake, MA., Itamar B. Botser, MD., and Timothy J. Jackson, MD. *Arthroscopy*. 2014 February;30(2):155-156.

Rust DA, Giveans MR, Stone RM, Samuelson KM, Larson CM. Functional Outcomes and Return to Sports after Acute Repair, Chronic Repair, and Allograft Reconstruction for Proximal Hamstring Ruptures. *Am J Sports Med*. Accepted Jan 2014.

Ross JR, Nepple JN, Philippon MJ, Kelly BT, Larson CM, Bedi A. Effect of Changes in Pelvic Tilt on Range of Motion to Impingement and Radiographic Parameters of Acetabular Morphology. *Am J Sports Med*. Submitted. Jan 2014.

Hoppe DJ, de Sa D, Simunovic N, Bhandari M, Safran MR, Larson CM, Ayeni OR. The Learning Curve for Hip Arthroscopy: A Systematic Review. *Arthroscopy*. 2014 Jan 22. pii: S0749-8063(13)01238-3. doi: 10.1016/j.arthro.2013.11.012. [Epub ahead of print]

Zaltz I, Kelly BT, Larson CM, Leunig M, Bedi A. Surgical Management of Femoroacetabular Impingement: What Are the Limits of Hip Arthroscopy? *Arthroscopy*. 2014 Jan;30(1):99-110. doi: 10.1016/j.arthro.2013.10.005.

Larson CM, Giveans MR, Samuelson KM, Stone RM, Bedi A. Arthroscopic Hip Revision Surgery for Residual FAI: Surgical Outcomes Compared to a Matched Cohort after Primary Arthroscopic FAI Correction. *Am J Sports Med*. Submitted Dec 2013.

Hapa O, Bedi A, Gursan O, Sait Akar M, Guvencer M, Havitcioglu H, Larson CM. Anatomic Footprint of the Direct Head of the Rectus Femoris Origin: Cadaveric Study and Clinical Series of Hips after Arthroscopic AIIS / Subspine Decompression. *Arthroscopy*. 2013 Dec;29(12):1932-40. doi: 10.1016/j.arthro.2013.08.023. Epub 2013 Oct 18.

Clohisey JC, Nepple JJ, Larson CM, Zaltz I, Millis M, ANCHOR. Persistent Structural Disease Is the Most Common Cause of Repeat Hip Preservation Surgery. *Clin Ortho Relat Res* 2013 Dec;471(12):3788-94.

Bedi A, Lynch EB, Sibilsky Enselman ER, Davis ME, DeWolf PD, Makki TA, Kelly BT, Larson AM, Henning PT, Mendias CL. Elevation in Circulating Biomarkers of Cartilage Damage and Inflammation in Athletes with Femoroacetabular Impingement. *Am J Sports Med*. 2013 Nov;41(11):2585-90.

Larson CM, Stone RM. Current Concepts and Trends for Operative Treatment of FAI: Hip Arthroscopy. *Curr Rev Musculoskeletal Med*. 2013 Sep;6(3):242-9.

Skendzel JG, Weber AE, Ross JR, Larson CM, Leunig M, Kelly BT, Bedi A. The Approach to the Evaluation and Surgical Treatment of Mechanical Hip Pain in the Young Patient. *J Bone Joint Surg Am*. 2013 Sep 18;95(18):e133.

Tibor LM, Zaltz I, Larson CM. The Dancing and Gymnast Hip: Managing Hip Instability in the Athlete. *Sports Health*. Submitted 2013.

Kelly BT, Maak TG, Larson CM, Bedi A, Zaltz, I. Sports hip injuries: Assessment and Management. AAOS, Instr Course Lectures 2013;62:515-31.

Hetsroni I, Poultsides L, Bedi A, Larson CM, Kelly BT. Anterior Inferior Iliac Spine Morphology Correlates With Hip Range of Motion: A Classification System and Dynamic Model. *Clin Orthop Relat Res*. 2013 Aug;471(8):2497-503.

Milone MT, Bedi A, Poultsides L, Magennis E, Byrd JW, Larson CM, Kelly BT. Novel CT-based 3D Software Improves the Characterization of Cam Morphology. *Clin Ortho Relat Res*. 2013 Aug;471(8):2484-91.

Popkin CA, Gundry CR, Larson CM, Murnaghan ML. Remembering Our Roots: Eponyms in Sports Medicine. *Am J Sports Med* 2013 Jul;41(7):1703-11.

Oak N, Mendez-Zfass M, Lesniak BP, Larson CM, Kelly BT, Bedi A. Complications in Hip Arthroscopy. *Sports Med Arthrosc* 2013 Jun;21(2):97-105.

Clohisey JC, Baca G, Beaulé PE, Kim YJ, Larson CM, Millis MB, Podeszwa DA, Schoenecker PL, Sierra RJ, Sink EL, Sucato DJ, Trousdale RT, Zaltz I; ANCHOR Study Group. Descriptive Epidemiology of FAI: A North American Cohort. *Am J Sports Med*. 2013 Jun;41(6):1348-56.

Byrd JWT, Larson CM. Ask the Experts: Right Groin Pain. Interview by John D Kelly IV, MD. *Orthopedics*. 2013 Mar;36(3):212-3. doi: 10.3928/01477447-20130222-08.

Larson CM, Sikka RS, Sardelli MC, Byrd JWT, Kelly BT, Jain RK, Giveans MR. Increasing Alpha Angle is Predictive of Athletic Related "Hip" and "Groin" Pain in Collegiate NFL Prospect. *Arthroscopy* 2013 Mar;29(3):405-410.

Nepple JJ, Clohisey JC, Larson CM. Arthroscopic classification of acetabular rim labrochondral disease: response. *Am J Sports Med*. 2013 Mar;41(3):NP11.

Book Chapters:

Editor for, In: Nho, Leunig, Larson, Bedi, Kelly: *Hip Arthroscopy and Hip Joint Preservation Surgery*. Springer, Philadelphia, PA. To be published 2014.

Salata MJ, Larson CM. Surgical Technique: Arthroscopic Management of the Acetabulum. In: Nho, Leunig, Larson, Bedi, Kelly: *Hip Arthroscopy and Hip Joint Preservation Surgery*. Springer, Philadelphia, PA. Submitted 2013.

Harris JD, Larson CM, Nho SJ. Complications associated with hip arthroscopy and open hip preservation surgery. In: Nho, Leunig, Larson, Bedi, Kelly: *Hip Arthroscopy and Hip Joint Preservation Surgery*. Springer, Philadelphia, PA. Submitted 2013.

Acker II WB, Ross JR, Larson CM, Bedi A. Operative Indications for Hip Arthroscopy and Open Hip Preservation Surgery. In: Nho, Leunig, Larson, Bedi, Kelly: *Hip Arthroscopy and Hip Joint Preservation Surgery*. Springer, Philadelphia, PA. Submitted 2013.

Hapa O, Larson CM. Anterior Inferior Iliac Spine and Subspine Hip Impingement: Concept, Surgical Technique, and Outcomes. *Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation*, edited by Mahmut Nedim Doral and Jon Karlsson. Submitted July 2013.

Larson CM, Hapa O. Anterior Inferior Iliac Spine and Subspine Hip Impingement: Concept, Surgical Technique and Outcomes: In: Doral and Karlsson: *Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation*. Springer, Philadelphia, PA. Submitted 2013.

Larson CM, Birmingham PM. Scope for FAI. *Operative Techniques in Orthopaedic Surgery* 2/e. Submitted November 2013.

Larson CM. Optimizing Exposure and Accessibility for Arthroscopic Correction of Femoroacetabular Impingement. In: McCarthy, Villar, Noble. *Diagnosis and Surgical Treatment of Hip Disease: A Worldwide Perspective on Approaches and Outcomes* Springer, New York, NY. Accepted for publication 2012; to be published 2015.

Nosal C, Bedi A, Stone RM, Larson CM. Indications for Hip Arthroscopy. In: McCarthy, Villar, Noble. *Diagnosis and Surgical Treatment of Hip Disease: A Worldwide Perspective on Approaches and Outcomes* Springer,

New York, NY. Accepted for publication 2012; to be published 2015.

Larson CM, Stone RM, Birmingham PM. Arthroscopic Treatment of Combined Cam and Pincer-type Femoroacetabular Impingement. In: McCarthy, Villar, Noble. *Diagnosis and Surgical Treatment of Hip Disease: A Worldwide Perspective on Approaches and Outcomes* Springer, New York, NY. Accepted for publication 2012; to be published 2015.

Birmingham PM, Larson CM. Medial Soft Tissue Injuries of the Hip: Adductor Strains and Athletic Pubalgia. In: Kelly BT, Larson CM, Bedi A. *Sports Hip Injuries: Diagnosis and Management*. New Jersey. SLACK Inc. In publication 2013.

Larson CM, Stone RM. Femoroacetabular Impingement Arthroscopic Management of the Proximal Femur. *Volume 3: Hip Preservation of of The Adult Hip*. Lippincott Williams & Wilkins. Philadelphia, PA. In publication 2013.

MOSMI Fellowship 2013 Publications

Peer Review Journals:

Rust DA, Giveans MR, Stone RM, Samuelson KM, Larson CM. Functional Outcomes and Return to Sports after Acute Repair, Chronic Repair, and Allograft Reconstruction for Proximal Hamstring Ruptures. *Am J Sports Med*. Accepted Jan 2014.

Popkin CA, Gundry CR, Larson CM, Murnaghan ML. Remembering Our Roots: Eponyms in Sports Medicine. *Am J Sports Med*. 2013 Jul;41(7):1703-11.

Book Chapters:

Larson CM, Cornelsen GD, Stone RM. Surgical Technique: Allograft Augmentation of Chronic Hamstring Repair. In: Nho, Leunig, Larson, Bedi, Kelly: *Hip Arthroscopy and Hip Joint Preservation Surgery*. Springer, Philadelphia, PA. Submitted 2014.

Larson CM, Birmingham PM, Oliver SM. Athletic Pubalgia. In: *Delee & Drez's Orthopaedic Sports Medicine: Principles and Practice*, 4e. Elsevier, Philadelphia, PA. In publication 2014.

Larson CM, Wulf CA. Hip Arthroscopy: The Supine Position: In: Johnson: *Operative Arthroscopy 4th Edition*. Lippincott Williams & Wilkins. 2013 Chapter 46:506-519.

Larson CM, Stone RM, Wulf CA. Management of Chondral Lesions. In: Byrd. *Operative Hip Arthroscopy, 3rd Edition*. Springer, New York, NY. 2013: Chapter 14:185-196.



TCOF volunteers:

Drs. Kurt Anderson and David Gesensway, hand therapist Kris Anderson, and ortho assistant John Muelken with the Orthopedic residents and faculty of the Universidad Nacional Autonoma de Nicaragua in Leon, Nicaragua.



**TWIN CITIES ORTHOPEDICS
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Research • Education • Community Service

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John Anderson, MD; Scott Anseth MD; David Gesensway, MD;
Jay Johnson, MD; Patrick Kraft, MD

Thank you!

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