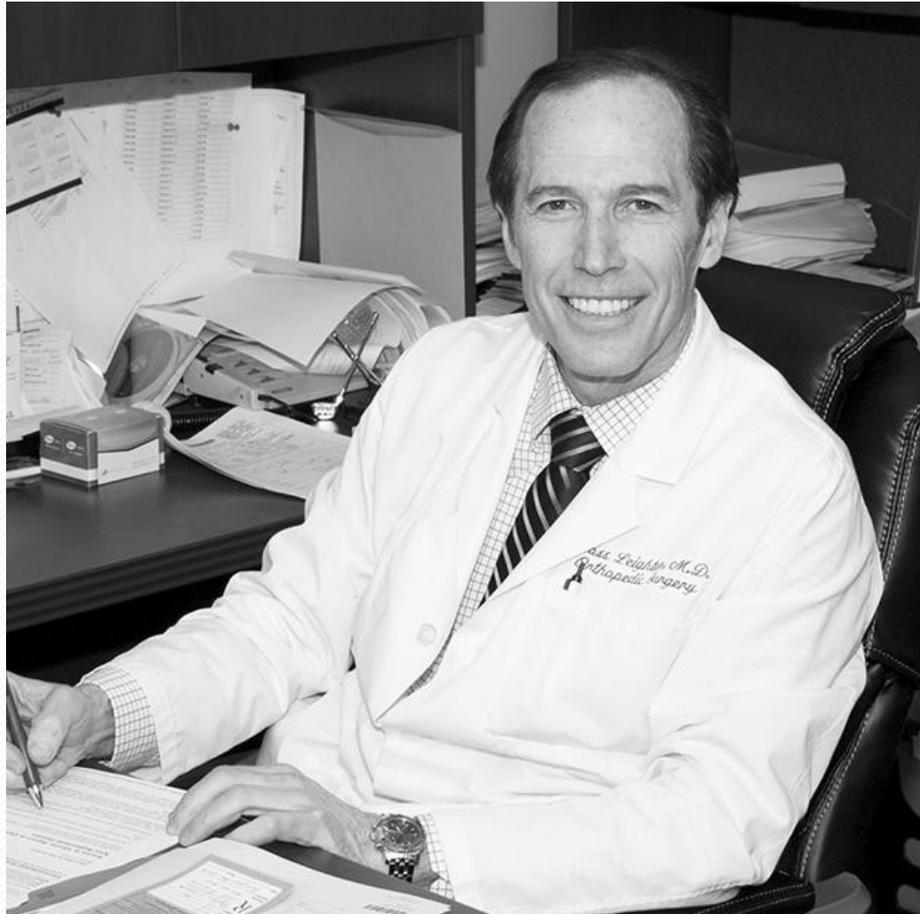


# Promoting Excellence in Orthopedic Trauma Care through Education and Research Past, Present and Future

Ross K. Leighton M.D. PhD.

# Presidential Address



# Ramon , Edwin and Mike-1984



# 1977—the Beginning



# Goals of the OTA

- 1) Develop a Research endowment fund to support Orthopedic Trauma Research
- 2) To become one of the Premiere organizations for Orthopedic Trauma Education

# Many Inspirational developments

- 1) Provide support for the patient to survive the trauma
- 2) spend less time in ICU
- 3) Leave hospital earlier
- 4) Mobilize more quickly
- 5) Return to work/school more quickly
- 6) Optimize function
- If dysfunctional – many more options to reconstruct with excellent secondary outcomes

# Mythbusters -- busted early on !!!

- 1) metal in the wound causes infection
- 2) anatomic reduction of each fragment is essential
- 3) Locked nails are not required for long bone fractures

# Edwin G. Bovill Jr. Award

Presented annually to the author of the most outstanding OTA Annual Meeting scientific paper



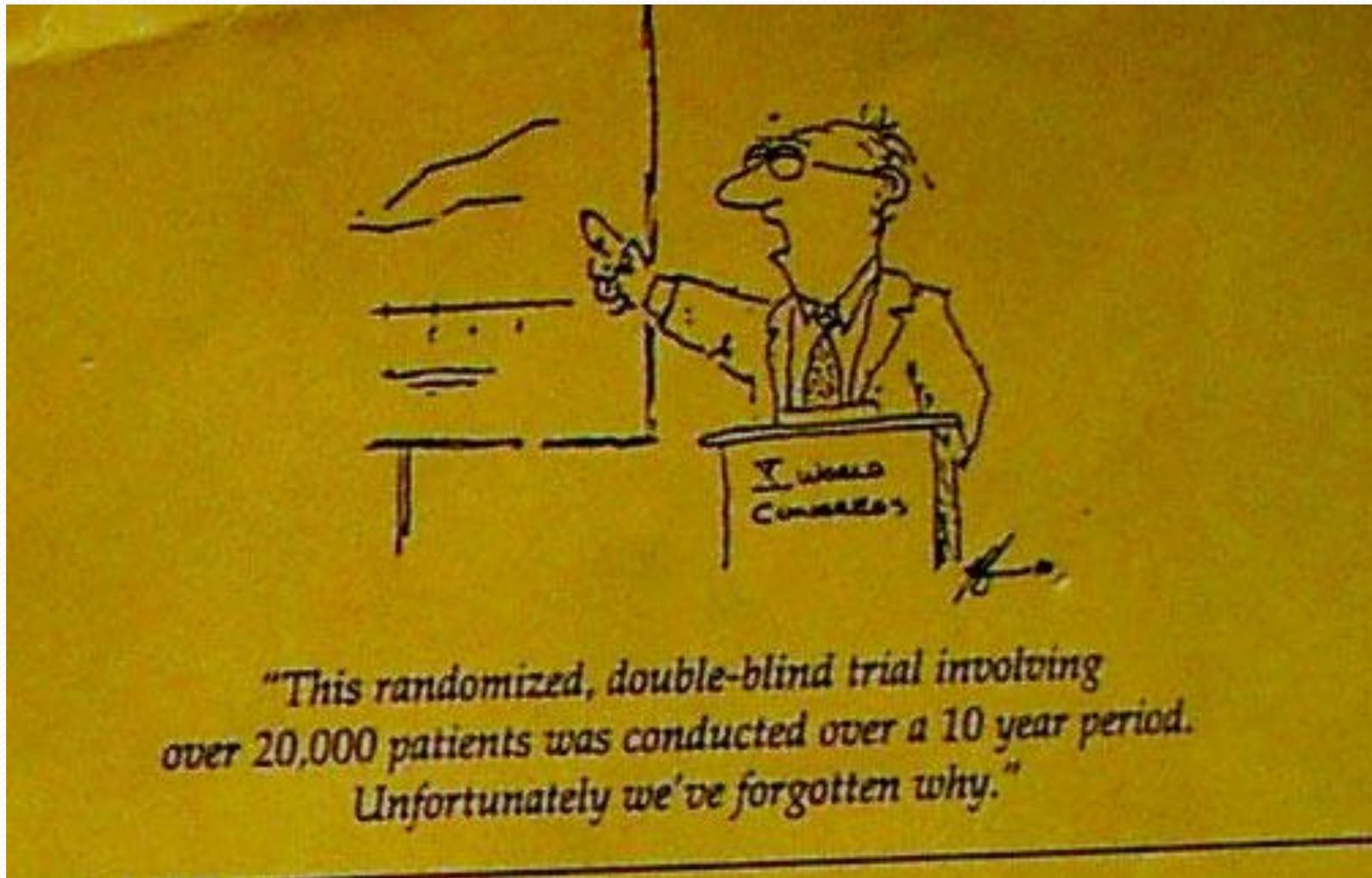
- 1998-A Prospective Comparison of Antegrade and Retrograde Femoral Intramedullary Nailing
- Robert Ostrum MD ; Anamesh Agarwal, MD; Ronald Lakatos, MD; Attila Poka, MD

# Bob Ostrum-1998



- 2000-Prospective Randomized Clinical Multi-Center Trial: Operative versus Nonoperative Treatment of Displaced Intra-Articular Calcaneal Fractures
- Richard E. Buckley, MD ; Robert G. McCormack, MD; Ross K. Leighton, MD; Graham C. Pate, MD; David P. Petrie, MD; Robert D. Galpin, MD--  
Canadian Orthopedics Trauma Society (COTS)

# PRCT



Buckley et.al. JBJS (A) 2002 PRCT - DIACF

# Richard E. Buckley, MD



# Paul Tornetta III

- Syndesmotic Instability in Weber B Ankle Fractures: A Clinical Evaluation
- Paul Tornetta, III, MD; Erik Stark, MD; William R. Creevy, MD
- Boston Univ. Medical Center, Boston, Massachusetts



- 2004-The Gold Standard in Tibial Plateau Fractures? A Prospective Multicenter Randomized Study of ATBG vs. Alpha-BSM
- Thomas A. Russell, MD; Ross K. Leighton, MD; Robert W. Bucholz, MD; Charles N. Cornell, MD; Sam Agnew, MD; Robert F. Ostrum, MD; James A. Goulet, MD; B.H. Berrey, MD; Brian Davison, MD; Thomas Gruen, MS; Mark S. Vrahas, MD; Aland L. Jones, MD; Andrew Pollak, MD; Peter O'Brien, MD; Thomas F. Varecka, MD

# Toney , Gina and Keith (Son)



- 2005 A Multicenter Randomized Control Trial of Non-Operative and Operative Treatment of Displaced Clavicle Shaft Fractures

- Michael D. McKee, MD, FRCS(C); Jeremy A. Hall, MD, FRCS(C); and **the Canadian Orthopaedic Trauma Association**: Hans S. Kreder, MD; Robert McCormack, MD; David M.W. Pugh, MD; David Sanders, MD; Richard Buckley, MD; Emil H. Schemitsch, Ross Leighton M.D. MD; Lisa M. Wild, RN; Scott Mandel, MD; Rudolph Reindl, MD; Edward J. Harvey, MD; Milena V. Santos, RN; Christian J. Veilette, MD; Daniel B. Whelan, MD; James P. Waddell, MD; David J.G. Stephen, MD; Terrenc, Axelrod, MD; Gregory Berry, MD; Bertrand Perey, MD; Kostas Panagiotopolus, MD; Beverly Bulmer, Mauri Zomar; Karyn Moon, Elizabeth Kimmel, Carla Erho, Elena Lakoub; Patricia Leclair; Bonnie Sobachak; Trevor Stone, MD; Lynn A. Crosby, MD; Carl J. Basamania, MD; (all authors a-OTA/DePuy Grant; Zimmer, Inc. Grant) St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada (OTA Administered Research Grant)

# Michael D. McKee, MD, FRCS(C); Canadian Orthopaedic Trauma Society



- 2007 A Randomized Trial of Reamed versus Non-Reamed Intramedullary Nail Insertion on Rates of Reoperation in Patients with Fractures of the Tibia.

- **The Study to Prospectively evaluate Reamed Intramedullary Nails in Tibial Fractures (SPRINT) Trial Co-Principal Investigators:**

- Mohit Bhandari\*; Gordon Guyatt\*; David W. Sanders#; Emil H. Schemitsch^; Marc Swiontkowski\*\*; Paul Tornetta III; Stephen Walter\*
- \* McMaster Health Sciences Centre, Hamilton, Ontario, Canada , # London Health Sciences Centre / University of Western Ontario, Canada, London, Ontario, Canada
- ^ St. Michael's Hospital / University of Toronto, Toronto, Ontario, Canada
- \*\* Department of Orthopaedic Surgery, University of Minnesota, Minneapolis, Minnesota, USA Boston Medical Center / Boston University School of Medicine, Boston, Massachusetts, USA.

# Sprint Leaders--2007

**Mohit Bhandari\***; Gordon Guyatt\*; David W. Sanders#;  
Emil H. Schemitsch^; Marc Swiontkowski\*\*; Paul  
Tornetta III; Stephen Walter\*



- 2013 -Dehghan Niloofar
- the 2013 Bovill Award which honors the best podium presentation at the OTA Annual Meeting.
- "Early Weight-Bearing And Mobilization Vs Non-Weight-Bearing And Immobilization After Open Reduction And Internal Fixation Of Unstable Ankle Fractures: A Randomized Controlled Trial"

2013

Niloofar Dehghan, MD, Richard Jenkinson, MD, Michael McKee, MD, Emil H. Schemitsch, MD, Aaron Nauth, MD, Jeremy Hall, FRCSC, David Stephen, MD, Hans J. Kreder, St. Michaels Hospital, Toronto Ontario



# Operative versus non operative fixation of Humeral shaft fractures 2023

- Surgery is safer with better outcomes at 6 weeks, 3 months and 6 months
- The outcomes become similar at one year if both are healed
- Increase infection rate with operative approach
- Significantly reduced nonunions with operative fixation
- **This does not mean you need to operate on all humeral shaft fracture –but you have good literature support ORIF if you choose to do so**
- Prism Schneider, Greg Berry plus COTS

# Promoting Excellence in Orthopedic Trauma Care through Education and Research Past, Present and Future

Ross K. Leighton M.D.PhD.

# 2025 and forward

- The future of significant level I Research will head more and more towards small group and large group research endeavors with alliances competing for funding to complete randomized level I evidence that will illustrate not only clinical significance, but the real driver will be "cost effective treatments" that are equivalent or better than what we have performed to date

# OIA has gone to self management as of 2014 –no longer under the AAOS

- This will help us to bring our Human resources and IT resources in line with our projects immediately!!
- AAOS has many organizations to please so can not respond to each organization individually
- They have been fantastic managers but time to move on



# 2014 to present marks the beginning of a new Era for the OTA

- The OTA drifted free of the AAOS and with it's blessing we will now manage our affairs while still maintaining excellent and close ties with our parent organization
- We have listened to you, our members and we feel we need to gain more Technology at a faster rate than could possibly happen with the Academy
- **Webinars, video libraries etc are have all been established with your help we will continue to add material going forward.**
- **Online living textbook that is updated yearly**

# The OTA Founders Circle



The Orthopaedic Trauma Association launched a donor award designation in 2022 to honor planned giving pledges and gifts. The award is named to commemorate the 41 Founding Members of the OTA in recognition of their leadership and many outstanding contributions to both the OTA and the field of orthopaedic trauma.

# Lifetime Donations – OTA “ICON”

## Donors

(\$50,000 or higher)



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Ross K.  
Leighton, MD



Frank W.  
Maletz, MD



Dr. Todd W. and  
Mrs. Jennifer Maily



Dr. Thomas A. and  
Gina Russell



Roy Sanders, MD



Paul Tornetta, III, MD

# Lifetime Donations – OTA Legend

## Donors

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# Lifetime Donations – OTA Legacy

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(\$10,000 - \$24,999)

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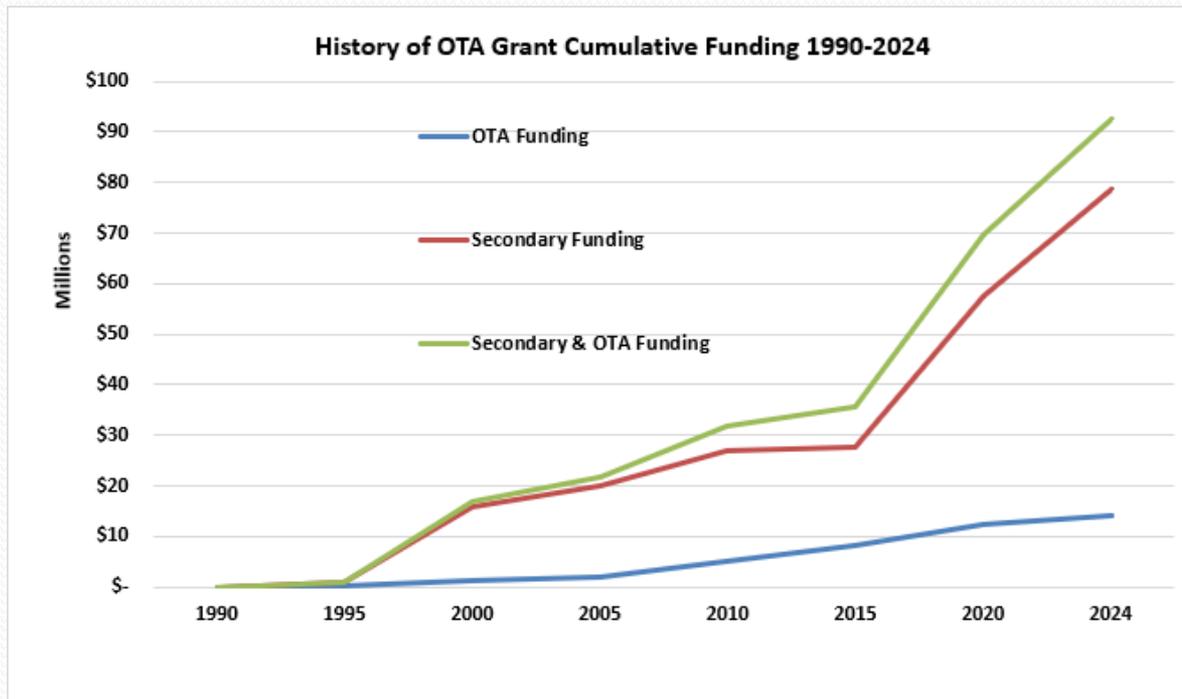
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# History of OTA Research Grant Funding

1990-2024



# The members and their **Donations Make an Impact**

- **EDUCATION:** OTA directly invests in Resident and Fellows education. Over 6,000 participants since 2004.
- **GLOBAL OUTREACH:** Humanitarian Scholarships, International Education. Over \$75,000 allocated to low/low-middle income Educational Resources since 2021.
- **OTA INITIATIVES:** Traveling Fellowship Program, Grant Writing Program, Resident Grants, Physician Wellness, Mentoring Programs, and more.

# Publications

- We have examined the funded projects
- The publications are 1.3 times the projects funded
- Many projects are able to be published with primary and secondary outcomes in numerous formats
- So great projects and excellent productive people and groups have been funded and thereby altering the level I supported Orthopedic treatment to our patients worldwide.

# Humanitarian Efforts



# SIGN Meeting







# Humanitarian efforts in combination with “Sign”



# The OTA has an excellent leadership record

- **The future of our leadership , supported by the members and their individual efforts and those of the OTA staff**
- **Looks bright and very secure.**
- Just add some reasonable structured enthusiasm and we are going to lead the fracture and trauma world along with many partners who share our view of the fracture world going forward.
- There is lots of room within this arena for plenty of players who share a similar view and lots of room for partnerships that will make our combined vision a reality.

# OTA Staff and Doug Lundy 2025



Thanks to ---Halifax Orthopedic Group---  
that has allowed me to perform at this  
past and current level of time and  
commitment for the OTA



Plus I just added a Trauma partner who again will add to our trauma program in Halifax and is already very involved in the OTA (April 2025)  
“Kyla Huebner “



Debbie Gaetan, Admin Assistant  
(30 years) Curtis Giacomantonio --  
Research coordinator



And of Course my wife Liz who has supported me and keeps me well Grounded



# Thanks so much for your time here today!!

- Thanks so very much for allowing me the honor of delivering the Presidential address for 2025 here in San Francisco.
- **This is “the best university trauma course in the country”, and I am always honored when asked to participate**
- My presidential year continues to be one of the highlights of my trauma career!

