Reno Orthopaedic Trauma Fellowship
2018-2019

555 North Arlington Ave
Reno, NV 89503
775-785-3416
renoortho.com/foundation
On behalf of the entire Reno Orthopaedic Fellowship Faculty, we would like to thank you for your interest in our program.

The Reno Orthopaedic Fellowship has its origins in the history of trauma care in Northern Nevada. From the beginning, the Reno Orthopaedic Clinic (est.1958) has taken a leadership position in designing and developing orthopaedic trauma care for the region. ROC (Reno Orthopaedic Clinic) is now a 23 member, subspecialty orthopaedic practice, deeply ingrained in the Northern Nevada community and serves as the center of institutional support for the fellowship. We maintain strong relationships with all healthcare institutions in the area.

The orthopaedic trauma fellowship program was designed, OTA approved, and funded in 2007. The first fellow graduated in 2011 and we have been honored to educate consecutive graduates yearly. Our program philosophy is dedicated to teaching core, orthopaedic trauma surgical principles and a basic orthopaedic business curriculum. Our recent fellowship candidates have graduated with one of the nation’s top surgical caseloads, as well as mastered the leadership skills and business acumen to favorably negotiate orthopaedic practices, hospital and personal relationships.

The fellowship is OTA approved and strictly adheres to the fellowship guidelines. The four trauma faculty members are fellowship trained, in full time surgical practice and committed to the program’s research, education and business curriculums.

Educationally, the fellowship encourages the candidates to participate in the four core fellowship experiences; OTA Annual Meeting, OTA Fellows Course, and two courses related to the pelvis and advanced fracture techniques. The fellow completes the weekly fracture course curriculum based on the trauma OKU, and attends trauma surgery and orthopaedic M&M conferences. The fellow takes six nights/month of primary trauma call and is backed up by one of the trauma faculty at all times.

Situated along the Truckee River, the Silver State’s original gaming capital is experiencing a cultural and culinary renaissance. Downtown is reinventing itself with new museums and restaurants, and the area is seeing an uptick in investments from companies like Amazon, Apple, and Tesla. Reno is a wonderful location with four seasons, access to beautiful Lake Tahoe, and is an easy drive to San Francisco and the Napa Valley. We encourage the fellow to experience all that the region has to offer and schedule adequate time for family and personal growth.

Once again, thank you for your visit and we hope to see you again soon.

Timothy J. Bray M.D.
Fellowship Director
President OTA 2010-2011
Reno Orthopaedic Trauma Fellowship – OTA Description

555 N Arlington Ave
Reno, NV 89503
Tel: (775) 786-3040
Fax (775) 323-3134

Director: Timothy Bray, MD - OTA President 2009-2010
Fellowship Coordinator/Administrative Assistant: Sara DePaoli
Email Address: SDepaoli@renoortho.com

University Affiliation: University of Nevada School of Medicine
Institutions: Renown Regional Medical Center

Primary Hospital Size: 350 Acute Care Beds

Available Orthopaedic Trauma Fellowship Positions: # open: 1 # filled: 0
Stipend: $65,000
Full-time Trauma Faculty: Timothy Bray, MD; Peter Althausen, MD/MBA; Timothy O'Mara, MD; Justin Walker, MD
Trauma Admissions/Year: 3754 trauma activations/year = 1410 orthopaedic trauma consults/year; 5234 total orthopaedic consults
Emergency Dept. Visits/Year: 106,210

Orthopaedic Trauma Procedures/Year: 2914
Acetabular/Pelvic Cases/Year: 77
Femur Fractures/Year: 225

Qualifications of Applicant: MD/DO who has completed approved North American Orthopaedic Surgical Residency, letters of recommendation from Residency Director & Trauma Director.

Research Opportunities: Fellows are actively involved in clinical and financial research projects. One paper required for completion of fellowship.

Brief Description of Program: One year clinical Fellowship in orthopaedic trauma which combines acute fracture care, delayed reconstruction, post traumatic deformity, arthroplasty and business education. This is currently the only trauma fellowship in the United States that provides a formal business educational program in addition to high volume clinical training. Our fellows average over 1000 cases per year; 2.5 times greater than the OTA requirements while working with three fellowship-trained orthopaedic trauma surgeons in a community-based trauma system. Because there are no residents at our facility, there is no competition for cases. Business education involves a core curriculum with hospital and practice administrators to instill the successful business management principles of large group practices and the financial considerations of hospital trauma systems. This comprehensive educational experience provides the fellow with a unique opportunity to learn the clinical, surgical, and business skills necessary to learn the clinical, surgical, and business skills necessary to navigate the political, bureaucratic, and financial obstacles present in both private and academic practices. Combined with a robust and active research program that produces multiple publications per year, we feel this is one of the most well-rounded fellowship opportunities available.

Call responsibility as primary staff? Primary call with back-up from faculty traumatologist

Any away rotations from primary institution? No

Subspecialty training offered:
Pediatric Trauma: Yes
Ilizarov/Post Traumatic Deformity: Yes (off-site rotation)

Meeting Opportunities: 3 paid meetings: Annual OTA and OTA Fellows Meeting, and additional meeting of fellow's choice.

OTA Membership: Provided (One year). JOT subscription included

Licensing restrictions for International Surgeons: No international candidates

ACGME Accredited: No
Peter L. Althausen, M.D., M.B.A.

Dr. Althausen received his medical degree from Tufts University School of Medicine in Boston, Massachusetts. While in medical school, he also received an MBA in healthcare administration from the same institution. His orthopaedic residency was completed at the University of California Davis Medical Center. After residency, Dr Althausen completed a fellowship in Orthopaedic Trauma at Carolinas Medical Center in Charlotte, North Carolina. He has been practicing at the Reno Orthopaedic Clinic.

Dr. Althausen is subspecialty trained in trauma and focuses on both pediatric and adult fracture care. Special areas of interest include pelvis and acetabular fractures, periarticular fractures, and complex polytraumatic injuries. Dr. Althausen remains committed to teaching and research. He currently serves as a Clinical Assistant Professor at the University of Nevada School of Medicine where he teaches and mentors both medical and college students. Dr. Althausen presents annually at multiple national meetings and routinely teaches the latest techniques in fracture care to physicians, nurses, and other medical personnel. He has published a variety of scientific articles and textbook chapters concerning many aspects of orthopaedic trauma care. Dr. Althausen is Board Certified by the American Board of Orthopaedic Surgery.

Justin A. Walker, M.D.

Dr. Walker, a Baton Rouge, Louisiana native, received his medical degree from Louisiana State University Health Sciences Center – New Orleans. He completed his orthopaedic residency at the Mayo Clinic. During his residency, he also completed a Master’s of Science in Orthopaedics at the Mayo Graduate School. Dr. Walker completed his orthopaedic fellowship at the Reno Orthopaedic Clinic before accepting a full time position here in August 2015.

Dr. Walker’s practice focuses on the treatment of fractures and deformity, as well as lower extremity joint replacement. Using the most advanced orthopedic treatment techniques, Dr. Walker provides care for acute fractures including pelvic and acetabular fractures, as well as nonunions, deformity, malunions, surgical treatment of musculoskeletal infections, and hip and knee arthritis, particularly post-traumatic arthritis.

Dr. Walker currently serves as a Clinical Assistant Professor at the University of Nevada School of Medicine, and mentors both medical and college students. He is a member of the Orthopaedic Trauma Association, the Nevada Orthopedic Society, and the American Academy of Orthopaedic Surgeons.
Timothy J. Bray, M.D.

Timothy J. Bray was educated at the University of California, Irvine, San Diego and San Francisco. He completed an Orthopaedic Trauma Fellowship at the University of California Davis Medical Center and joined the full time Davis faculty for 6 years prior to joining the Reno Orthopaedic Clinic in 1987. He was Director of Orthopaedic Trauma at University of California at Davis (UCD) from 1983 to 1987. He currently is a Clinical Professor of Orthopaedic Surgery at UCD Medical Center and maintains a clinical affiliation with the University of Nevada School of Medicine. Dr. Bray is active in multiple national and international orthopaedic surgery organizations, he teaches orthopaedic residents and students, and is an examiner for the American Board of Orthopaedic Surgery. Dr. Bray is currently the Director of Orthopaedic Trauma Services at Renown Regional Medical Center in Reno, Nevada. He has multiple peer reviewed scientific publications including the article describing the development of Northern Nevada's trauma system.

He is past President (2010-2011) of the Orthopaedic Trauma Association which promotes excellence in care for the injured patient, through provision of scientific forums and support of musculoskeletal research and education of Orthopaedic Surgeons. He still serves as a leader in the economic, political and social discussions surrounding the provision of trauma care in the United States.

Dr. Bray’s clinical interests are in fracture surgery and adult reconstruction including joint replacement of the shoulder, hip and knee. He has voluntarily recertified for the American Board of Orthopaedic Surgery.

Timothy J. O’Mara, M.D.

Dr. O’Mara received his medical degree from the University of Nevada School of Medicine. He completed his Orthopaedic Trauma Fellowship at the Harborview Medical center in Seattle, Washington in 2006. Dr. O’Mara finished his Pediatric Orthopaedic Fellowship in Sydney, Australia in 2007. He joined Reno Orthopaedic Clinic in August 2007. He is subspecialty trained in trauma and orthopaedic pediatric care.

Dr. O'Mara is Board Certified by the American Board of Orthopaedic Surgery. Dr O’Mara dedicates his trauma practice to both adult and pediatric trauma and is uniquely trained in the correction of both pediatric and adult post traumatic deformity. He currently serves as a member of AO teaching faculty and attends multiple courses as a director or instructor throughout the year.
Kenneth Thomas MD – 2010-2011
Medical School – University of Colorado
Residency – Hamut Medical Center, Erie, PA
Current Position – Private Practice – Anchorage Fracture & Orthopaedic Clinic, Anchorage, AK

Justin Kauk MD – 2011-2012
Medical School – University of Missouri - Columbia
Residency – University of North Carolina-Chapel Hill
Current Position – Structure Orthopaedics in Plano, TX

Austin Hill MD MPH – 2012-2013
Graduate School – University of Texas – Houston School of Public Health
Medical School University of Texas – Houston Medical School
Residency – University of South Carolina – Greenville Hospital Systems
Current Position – Texas Orthopedics in Round Rock, TX

Annie Knierim MD – 2013-2014
Medical School – Creighton University Medical Center
Residency – University of Nebraska
Current Position – Alegent Creighton Health, Omaha, NE

Justin Walker MD – 2014-2015
Medical School – Louisiana State University School of Medicine
Residency – Mayo Clinic
Current Position – Reno Orthopaedic Clinic, Reno, NV

Austin McPhilamy MD – 2015-2016
Medical School – Wayne State University, Detroit, Michigan
Residency – Indiana University School of Medicine
Current Position – Bay Street Orthopaedics in Petoskey, MI

David Swanson MD – 2016-2017
Medical School – University of Texas Medical Branch
Residency – University of Arizona - Phoenix
Current Position – Sonoran Orthopaedic Trauma Surgeons in Scottsdale, AZ

Kyle Lybrand, MD – 2017-2018
Medical School – University of Rochester School of Medicine and Dentistry
Residency – Boston University Medical Center
Position as of 8/1/18 – Ortho Montana

Ryan Nielsen, DO – 2018-2019
Medical School – Des Moines University
Residency – Beaumont Hospital, Michigan State University
Position as of 8/1/18 – Reno Orthopaedic Trauma Fellow
### Recent Fellowship Case Log Summary

#### 2016-17 David Swanson, MD with Trauma Team

<table>
<thead>
<tr>
<th>Injury Type</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clavicle, Proximal Humerus, Humeral Shaft</td>
<td>69</td>
</tr>
<tr>
<td>Complex Elbow (distal humerus, olecranon, triad)</td>
<td>36</td>
</tr>
<tr>
<td>Forearm and Wrist</td>
<td>30</td>
</tr>
<tr>
<td>Pelvis</td>
<td>25</td>
</tr>
<tr>
<td>Acetabulum, Femoral Head</td>
<td>27</td>
</tr>
<tr>
<td>Hip</td>
<td>111</td>
</tr>
<tr>
<td>Femoral Shaft</td>
<td>56</td>
</tr>
<tr>
<td>Tibia shaft</td>
<td>27</td>
</tr>
<tr>
<td>Plateau/Pilon</td>
<td>51</td>
</tr>
<tr>
<td>Nonunion</td>
<td>14</td>
</tr>
<tr>
<td>Calcaneus/Talus/Other Foot</td>
<td>40</td>
</tr>
<tr>
<td><strong>Total Cases</strong></td>
<td><strong>896</strong></td>
</tr>
<tr>
<td><strong>Total OTA Approved Trauma cases</strong></td>
<td><strong>651</strong></td>
</tr>
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</table>

#### 2015-16 Austin McPhilamy, MD with Trauma Team

<table>
<thead>
<tr>
<th>Injury Type</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clavicle, Proximal Humerus, Humeral Shaft</td>
<td>58</td>
</tr>
<tr>
<td>Complex Elbow (distal humerus, olecranon, triad)</td>
<td>32</td>
</tr>
<tr>
<td>Forearm and Wrist</td>
<td>50</td>
</tr>
<tr>
<td>Pelvis</td>
<td>34</td>
</tr>
<tr>
<td>Acetabulum, Femoral Head</td>
<td>35</td>
</tr>
<tr>
<td>Hip</td>
<td>116</td>
</tr>
<tr>
<td>Femoral Shaft</td>
<td>67</td>
</tr>
<tr>
<td>Tibia shaft</td>
<td>41</td>
</tr>
<tr>
<td>Plateau/Pilon</td>
<td>64</td>
</tr>
<tr>
<td>Nonunion</td>
<td>30</td>
</tr>
<tr>
<td>Calcaneus/Talus/Other Foot</td>
<td>26</td>
</tr>
<tr>
<td><strong>Total Cases</strong></td>
<td><strong>830</strong></td>
</tr>
<tr>
<td><strong>Total OTA Approved Trauma cases</strong></td>
<td><strong>565</strong></td>
</tr>
</tbody>
</table>

#### 2017-18 Kyle Lybrand, MD with Trauma Team

<table>
<thead>
<tr>
<th>Injury Type</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clavicle, Proximal Humerus, Humeral Shaft</td>
<td>69</td>
</tr>
<tr>
<td>Complex Elbow (distal humerus, olecranon, triad)</td>
<td>20</td>
</tr>
<tr>
<td>Forearm and Wrist</td>
<td>65</td>
</tr>
<tr>
<td>Pelvis</td>
<td>42</td>
</tr>
<tr>
<td>Acetabulum, Femoral Head</td>
<td>22</td>
</tr>
<tr>
<td>Hip</td>
<td>228</td>
</tr>
<tr>
<td>Femoral Shaft</td>
<td>52</td>
</tr>
<tr>
<td>Tibia shaft</td>
<td>40</td>
</tr>
<tr>
<td>Plateau/Pilon</td>
<td>66</td>
</tr>
<tr>
<td>Nonunion</td>
<td>21</td>
</tr>
<tr>
<td>Calcaneus/Talus/Other Foot</td>
<td>33</td>
</tr>
<tr>
<td><strong>Total Cases</strong></td>
<td><strong>1256</strong></td>
</tr>
<tr>
<td><strong>Total OTA Approved Trauma cases</strong></td>
<td><strong>658</strong></td>
</tr>
</tbody>
</table>
Schedule and Responsibilities

**Weekly Conference Schedule**

**August 2018**
- No conference
- No conference
- No conference
- Adult femoral shaft fractures

**September 2018**
- Open fracture management
- Damage control/spanning external fixation
- Life threatening pelvic ring injury – emergent mgmt
- Journal club
- Pediatric femur fractures

**October 2018**
- OTA – no conference
- Open pelvic fixation techniques/pelvic ring injuries
- Quarterly meeting
- Journal club

**November 2018**
- Acetabular fractures
- Percutaneous pelvic/acetabulum fixation techniques
- Pilon Fractures
- Journal Club

**December 2018**
- Complex ankle fractures (osteoarthritis, diabetes)
- Proximal humerus and scapula fractures
- Humeral shaft fractures
- No meeting - Christmas
- Journal Club

**January 2019**
- Terrible triad, Monteggia, Transolecranon fx
- Non-union/bone defects
- Quarterly meeting
- Calcaneus fractures

**February 2019**
- Clavicle fractures, AC/SC injuries
- Distal humerus fractures
- Journal Club
- Tibial shaft fractures

**March 2019**
- Tibial plateau fractures
- Patella fractures, extensor mechanism injuries
- Hip fractures in young patients
- Journal club
- Femoral head fractures

**April 2019**
- Talus fractures
- Lisfranc and other foot injuries
- Quarterly meeting
- Both bone forearm fractures

**May 2019**
- Pediatric forearm and elbow fractures
- Orthopedic infections, orthobiologics
- Journal club
- Adult distal femur fractures

**June 2019**
- Mangled extremity – salvage v. amputation
- Pelvic ring injuries - revisited
- Acetabular fractures - revisited
- Journal club
- Periprosthetic femur fractures

**July 2019**
- Quarterly Meeting
- Case review only
- No meeting
- No meeting
**Call Responsibilities:** Average one call night per week, one weekend call night per month. Call is always with Trauma staff as back up or primary, no un-supported call.

**Moonlighting Opportunities:** The fellow can choose to take additional calls the second half of the year at lower level hospitals in Reno already covered by the practice.

**Continuity Clinic:** Patients from inpatient and ER consultations as well as post-op patients are seen weekly. The clinic also serves a high percentage of fracture patients that are new outpatient and ER referrals, particularly underinsured patients who may have been denied care at other orthopedic practices. Patient volume is typically 12 – 20 patients.

**Educational Conferences:**
- Monthly Orthopaedic Trauma Panel Meeting
- Quarterly Orthopaedic Trauma M&M conference
- Quarterly General Trauma M&M conference
- Monthly Practice Board Meeting
- Monthly Practice Partners Meeting
- Monthly Case Review Conference
- Quarterly Journal Club

**Off-Campus Educational Opportunities:**
- Required: Annual OTA meeting
- Optional: Stryker Cadaver Pelvis Course
- Optional: AO Fellows Cadaver Course
- Required: OTA Fellows Course
- Optional: Taylor Spatial Frame Course
- Optional: Orthopaedic for the Primary Care Provider

**Business Curriculum:** The ROC Trauma Fellowship business curriculum is designed to provide the fellow with a graduate level business practicum and research experience. The time commitments in a typical twelve month trauma fellowship are significant, rendering a traditional didactic master’s in business administration difficult to complete during this short time. An organized, structured, practical business education can provide the trauma leaders of tomorrow with the knowledge and experience required to effectively navigate the convoluted and constantly changing healthcare systems.

The underlying principle throughout the curriculum is to provide the fellow with the practical knowledge to participate in cost efficient improvements in health care delivery. Through the ROC Trauma Fellowship Business curriculum, the fellow will learn that delivering health care in a manner that provides better outcomes for equal or lower costs is not only possible but a professional and ethical responsibility. However, instilling these values without providing actionable knowledge and programs would be insufficient and ineffective. For this reason, the core of the curriculum is based on individual teaching sessions with a wide array of hospital and private practice administrators.

Upon completion of the curriculum, the fellow should be able to:
- Participate in strategic planning at both the hospital and practice level based on analysis of financial and clinical data
- Understand the function of healthcare systems at both a macro and micro level
- Possess the knowledge and skills to be strong leaders and effective communicators in the business lexicon of healthcare
- Be a partner and innovator in the improvement of the delivery of orthopaedic services
- Combine scientific and strategic viewpoints to provide an evidence-based strategy for improving quality of care in a cost-efficient manner
- Understand the political, economic and strategic basics of private practice orthopaedics
Recent Publications


Althausen PL, Mead L. Bundled Payments for Care Improvement (BPCI): Lessons Learned in the First Year. *J Orthop Trauma*. 2016 Dec;30 Suppl 5:S50-S53


Anderson TJ, Althausen PL. The Role of Dedicated Musculoskeletal Urgent Care Centers in Reducing Cost and Improving Access to Orthopaedic Care. *J Orthop Trauma*. 2016 Dec;30 Suppl 5:S3-S6


Hiking, kayaking, biking, skiing, Lake Tahoe, Truckee River, and the Sierras