

# Kevin R. O'Neill, MD, MS

O'NeillSpine.com

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## Experience

### **OrthoIndy, Inc.**

*Spine Surgeon*

Indianapolis, IN

1/2016-present

- Elected member of Medical Executive Committee and Board of Directors (2019-2023)
- Official Spine Surgeon of the Indiana Pacers (2023-present)

### **Vanderbilt University Medical Center**

*Assistant Professor, Department of Orthopaedic and Neurological Surgery*

Nashville, TN

9/2013 - 12/2016

### **Washington University**

*Spine Fellow, Department of Orthopaedic Surgery*

St. Louis, MO

8/2012 - 8/2013

- Presented clinical research at international IMAST, SRS, and CSRS meetings

### **Vanderbilt University Medical Center**

*Resident Physician, Department of Orthopaedic Surgery*

Nashville, TN

5/2007 - 7/2012

- Wrote and secured resident grants for basic science research from the OREF (\$14,000) and OTA (\$10,000)
- Presented basic science and clinical research at national AAOS, NASS, CSRS, LSRS, and OTA meetings
- Selected by faculty as Administrative Chief Resident of Class of 2012
- Nominated by faculty to attend AOA Resident Leadership Conference
- Nominated by faculty as representative to Resident Education Committee

### **Massachusetts General Hospital**

*Research Assistant, Biomedical Engineering*

Boston, MA

11/2000 - 6/2003

- Developed system to determine lung parameters and radioactive blood concentrations using functional P.E.T. imaging

## Education

### **Indiana University School of Medicine**

*Medical Doctor*

Indianapolis, IN

5/2007

- Honors in Orthopaedics, Anesthesia, Pharmacology, Physiology, Genetics
- Research Project: Role of Anterior Fixation in the Stability of Titanium Cage Spinal Constructs

### **Massachusetts Institute of Technology**

*Master of Science in Mechanical Engineering*

Cambridge, MA

5/2002

- Thesis Title: Quantification of Pulmonary Physiological Parameters for use with Functional P.E.T.
- Courses completed in Respiratory Pathophysiology, Biomaterials, and Strategic Management
- GPA: 5.0/5.0

### **University of Notre Dame**

*Bachelor of Science in Mechanical Engineering*

Notre Dame, IN

5/2000

- Completed Pre-Medical Curriculum, including Advanced Biology and Organic Chemistry
- GPA: 3.9/4.0

## Honors and Awards

- The Spine Journal Editor's Choice Award (2012)
- Dr. Kathryn Cramer Outstanding Resident Paper Award (2012)
- Massachusetts Institute of Technology Ascher H. Shapiro Fellowship (2000)
- University of Notre Dame Valedictorian Nomination (2000)
- University of Notre Dame Reverend Thomas A. Steiner Award (2000)
- Excellence in Mechanical Engineering Design Award (2000)
- Tau Beta Pi and Pi Tau Sigma Engineering Honor Societies (1999)

## Professional Memberships

- American Academy of Orthopaedic Surgeons
- AOA Emerging Leaders
- North American Spine Society
- Cervical Spine Research Society
- Indiana Orthopaedic Society

## Licensure

- State of Tennessee (#0000045905)
- State of Indiana

## Publications

- Coscia A, Coscia M, Coscia E, Hostetter M, O'Neill K, Ramsey C, Coscia M. Transverse Pedicle Angle is Associated with Pelvic Incidence and is Increased in Isthmic Spondylolisthesis. *Spine J*, 2019, 19(9): S80.
- O'Neill KR, Fehlings MG, Mroz TE, et al. A multicenter study of the presentation, treatment, and outcomes of cervical dural tears. *Global Spine J*, 2017, 7(IS): 58S-63S.
- Sielatycki JA, Armaghani S, Silverberg A, McGirt MJ, Devin CJ, O'Neill KR. Is more lordosis associated with improved outcomes in cervical laminectomy and fusion when baseline alignment is lordotic? *Spine J*, 2016, 16(8): 982-8.
- O'Neill KR, Lenke LG, Bridwell KH, Neuman BJ, Kim HJ, Archer KR. Factors associated with long-term patient reported outcomes following 3-column osteotomies. *Spine*. (*accepted 6/18/2015; published ahead of print*)
- Bible JE, Kay HF, Shau DN, O'Neill KR, Segebarth PB, Devin CJ. What patient characteristics could potentially affect patient satisfaction scores during spine clinic? *Spine*. (*accepted 4/2/2015; published ahead of print*)
- O'Neill KR, Neuman B, Peters C, Riew KD. Risk factors for dural tears in the cervical spine. *Spine*, 2014, 39 (17): E1015-20.
- O'Neill KR, Bridwell KH, Lenke LG, Chuntarapas T, Dorward I, Neuman B, Ahmad A, and Baldus C. Extension of spine fusion to the sacrum following long fusions for deformity correction. *Spine*, 2014, 39(14): 953-62.
- O'Neill KR, Neuman B, Peters C, Riew KD. Risk factors for postoperative retropharyngeal hematoma after anterior cervical spine surgery. *Spine*, 2014, 39(4): e246-52.
- O'Neill K, Lockney D, Bible J, Crosby C, and Devin C. Bupivacaine for pain reduction after iliac crest bone graft harvest : a prospective, randomized, placebo-controlled, and blinded trial. *Orthopaedics*, 2014, 37(5):e428-34.
- O'Neill KR, Lenke LG, Bridwell KH, Hyun SJ, Neuman B, Dorward I, and Koester L. Clinical and radiographic outcomes following 3-column osteotomies at a minimum 5-year follow-up. *Spine*, 2014, 39(5): 424-32.
- Godil, SS, Parker, SL, O'Neill KR, Devin CJ, and McGirt MJ. Comparative effectiveness and cost-benefit analysis of local application of vancomycin powder in posterior spinal fusion for spine trauma. *J Neurosurg Spine*, 2013, 19(3): 331-35.
- O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Anterior cervical discectomy and fusion for adjacent segment disease: clinical outcomes and cost-utility of surgical intervention. *Journal of Spinal Disorders and Techniques*. (*accepted 3/1/13; published ahead of print*)
- Anderson C, Nyman J, Song Y, Uppuganti S, O'Neill KR, Anderson A, Dunn W. Biomechanical evaluation of physeal sparing fixation methods in tibial eminence fractures. *Am J Sports Med*, 2013, 41(7): 1586-94.
- Bible JE, Crosby CG, O'Neill KR, Schoenecker JG, McGirt MJ, Devin CJ. Implant contamination during spine surgery. *Spine J*, 2013, 13(6): 637-40.
- Stutz C, O'Rear L, O'Neill K, Tamborski M, Crosby C, Devin C, and Schoenecker J. Coagulopathies in orthopaedics: links to inflammation and individualizing treatment strategies. *J Orthop Trauma*, 2013, 27(4): 236-41.
- O'Neill K, Stutz C, Mignemi N, Burns M, Murry M, Nyman J, and Schoenecker J. Fracture healing in protease-activated receptor-2 deficient mice. *J Orthop Res*, 2012, 30(8): 1271-76.
- O'Neill K, Stutz C, Mignemi N, Nyman J, Cole H, Murry M, Nyman J, Hamm H, and Schoenecker J. Micro-computed tomography assessment of the progression of fracture healing in mice. *Bone*, 2012, 50(6): 1357-67.
- Bible JE, Choemprayong S, O'Neill KR, Devin CJ, Spengler DM. Whole-body vibration: Is there a casual relationship to specific spinal disorders? *Spine*, 2012, vol. 37 (21): E1348-55.
- Shau DN, Bible JE, Samade R, Gadowski SP, Mushtaq B, Wallace A, O'Neill KR, Devin CJ. Utility of post-operative radiographs for cervical spine fusion: a comprehensive evaluation of operative technique, surgical indication, and duration since surgery. *Spine*, 2012, vol. 37 (24): 1994-2000.

- O'Neill KR, Stutz C, Duvernay M, and Schoenecker J. Supraclavicular nerve entrapment and clavicle fracture. *J Orthop Trauma*, 2012, 26(6): e63-5.
- Bible JE, O'Neill KR, Crosby CG, Schoenecker JG, McGirt MJ, and Devin CJ. Microscope sterility during spine surgery. *Spine*, 2012 vol. 37 (7): 623-7.
- O'Neill KR, Smith JG, Abtahi AM, Archer-Swygert KR, Spengler, DM, McGirt, MJ, and Devin CJ. Reduced surgical site infections in patients undergoing posterior spinal stabilization of traumatic injuries using vancomycin powder. *The Spine Journal*, July 2011, 11(7):641-6.
- Musch G, Harris RS, Vidal Melo MF, O'Neill KR, Layfield JD, Winkler T, and Venegas JG. Mechanism by which a sustained inflation can worsen oxygenation in acute lung injury. *Anesthesiology*. 100(2): 323-30, 2004 Feb.
- O'Neill K, Venegas JG, Richter T, Harris RS, Layfield JD, Musch G, Winkler T, and Melo MF. Modeling kinetics of infused 13NN-saline in acute lung injury. *Journal of Applied Physiology*. 95(6):2471-84, 2003 Dec.
- Vidal Melo MF, Layfield D, Harris RS, O'Neill K, Musch G, Richter T, Winkler T, Fischman AJ, and Venegas JG. Quantification of regional ventilation-perfusion ratios with PET. *Journal of Nuclear Medicine*. 44(12):1982-91, 2003 Dec.

### Book Chapters

- O'Neill K, Bible J, Devin C. Cervical Spine Fracture Dislocation. In Sethi MK, Jahangir AA, and Obremsky WT. *Orthopaedic Traumatology: An Evidence Based Approach* (2013, p. 41-53). New York, NY: Springer.
- O'Neill KR and Riew KD. Cervical Arthroplasty. In Perez-Cruz MJ, Khoo LT, and Fessler RG. *An Anatomic Approach to Minimally Invasive Spine Surgery*. Boca Raton, FL: CRC Press. (*in press*)

### Conference Presentations

- Coscia A, Coscia M, Coscia E, Hostetter M, O'Neill K, Ramsey C, Coscia M. Transverse Pedicle Angle is Associated with Pelvic Incidence and is Increased in Isthmic Spondylolisthesis. North American Spine Society Annual Meeting, October 2019, Chicago, IL.
- Sielatycki JA, O'Neill KR, Armaghani SJ, McGirt MJ, Devin CJ. Does cervical sagittal alignment correlate with outcomes following posterior laminectomy and fusion for cervical myelopathy? North American Spine Society Annual Meeting, October 14-17, 2015, Chicago, Illinois.
- Bible JE, Shau DN, Kay HF, O'Neill KR, Segebarth PB, Devin CJ. Are low patient satisfaction scores always due to the provider? Determinants of patient satisfaction scores during spine clinic visits. Podium Presentation. Cervical Spine Research Society Annual Meeting, December 3-6, 2014, Orlando, Florida.
- Bible JE, Shau DN, Kay HF, O'Neill KR, Segebarth PB, Devin CJ. What patient characteristics could potentially affect your patient satisfaction scores during spine clinic? Podium Presentation. Cervical Spine Research Society Annual Meeting, December 3-6, 2014, Orlando, Florida.
- Parker SL, Godil SS, McGirt MJ, Devin CJ, O'Neill KR. Thresholds for achieving substantial clinical improvements in pain, disability, and quality of life following adult deformity surgery. North American Spine Society Annual Meeting, November 12-15, 2014, San Francisco, California.
- O'Neill KR, Lenke LG, Bridwell KH, Neuman BJ, Kim HJ, Archer K. Factors associated with improved long-term outcomes following three-column osteotomies. North American Spine Society Annual Meeting, November 12-15, 2014, San Francisco, California.
- Kim HJ, Nemani VM, O'Neill KR, Neuman BJ, Boachie-Adjei O, Cunningham ME, Lenke LG. Distal fusion level selection in Scheuermann's kyphosis: a comparison of lordotic disc segment versus the stable sagittal vertebrae. Podium Presentation. Scoliosis Research Society Annual Meeting, September 10-13, 2014, Anchorage, Alaska.
- O'Neill KR, Lenke LG, Bridwell KH, Kim HJ, Neuman BJ, Archer KR. Factors associated with improved long-term outcomes following 3-column osteotomies. Podium Presentation. Scoliosis Research Society Annual Meeting, September 10-13, 2014, Anchorage, Alaska.
- Sugrue PA, Bridwell KH, Lenke LG, Ahmad A, Gum JL, Bumpass DB, Karikari I, O'Neill KR, Kim SD, Carreon LY. Major revision surgery as a result of pseudarthrosis or proximal junctional kyphosis is the most likely complication to negatively impact patient reported outcome scores in adult spinal deformity. Poster Presentation. Scoliosis Research Society Annual Meeting, September 10-13, 2014, Anchorage, Alaska.
- Gum JL, Bridwell KH, Lenke LG, Bumpass DB, Sugrue PA, Karikari I, Kim SD, O'Neill KR, Carreon LY. SRS appearance domain correlates the most with patient satisfaction after adult deformity surgery to the sacrum at five-year follow up. Poster Presentation. Scoliosis Research Society Annual Meeting, September 10-13, 2014, Anchorage, Alaska.

- O'Neill KR, Neuman B, Peters C, Riew KD. Cervical Dural Tears: Risk Factors and Outcomes. Podium Presentation. American Academy of Orthopaedic Surgeons Annual Meeting, March 11-15, 2014, New Orleans, Louisiana.
- O'Neill KR, Neuman B, Peters C, Riew KD. Post-Operative Hematoma after Anterior Cervical Spine Surgery: Risk Factors and Outcomes. Podium Presentation. American Academy of Orthopaedic Surgeons Annual Meeting, March 11-15, 2014, New Orleans, Louisiana.
- O'Neill KR, Lenke LG, Bridwell KH, Hyun SJ, Neuman B, Dorward I, and Koester L. Clinical and Radiographic Outcomes following 3-Column Osteotomies at a Minimum 5-Year Follow-Up. Podium Presentation. American Academy of Orthopaedic Surgeons Annual Meeting, March 11-15, 2014, New Orleans, Louisiana.
- O'Neill KR, Neuman B, Peters C, Riew KD. Cervical Dural Tears: Risk Factors and Outcomes. Podium Presentation. Cervical Spine Research Society, December 4-7, 2013, Los Angeles, California.
- Neuman BJ, Kim SD, O'Neill KR, Peters C, Riew KD. Methods to Eliminate Postoperative Posterior Cervical Wound Infections: No matter what the Case. Poster Presentation. Cervical Spine Research Society, December 4-7, 2013, Los Angeles, California.
- O'Neill KR, Neuman B, Peters C, Riew KD. Post-Operative Hematoma after Anterior Cervical Spine Surgery: Risk Factors and Outcomes. Podium Presentation. Cervical Spine Research Society, December 4-7, 2013, Los Angeles, California.
- Dorward IG, Lenke LG, Bridwell KH, McCoy KE, Holekamp TF, Neuman BJ, O'Neill K, Ray WZ, Sides BA, Koester L. Surgery for idiopathic scoliosis in adolescents versus young adults: a matched cohort analysis. North American Spine Society Annual Meeting, October 9-12, 2013, New Orleans, Louisiana.
- Dorward IG, Lenke LG, Bridwell KH, McCoy KE, O'Neill KR, Neuman BJ, Holekamp TF, Ray W, Sides BA, Koester L. Surgery for Idiopathic Scoliosis in Adolescents versus Young Adults: A Matched Cohort Analysis. Podium Presentation. Scoliosis Research Society Annual Meeting. September 18-21, 2013, Lyon, France.
- Kim SD, Bridwell KH, Lenke LG, Dorward IG, Neuman BJ, O'Neill KR, Baldus C, Koester L, Ahmad A. Minimum Five-Year Comparison of Different Age Groups Who Underwent Primary Long Instrumented Fusions to the Sacrum for Adult Spinal Deformity. Podium Presentation. Scoliosis Research Society Annual Meeting. September 18-21, 2013, Lyon, France.
- Dorward IG, Bridwell KH, Lenke LG, Neuman BJ, O'Neill KR, Holekamp TF, Ahmad A, Baldus C. Outcomes in Surgery for Adolescent Idiopathic Scoliosis: Drivers of Satisfaction and Durability of Results. Poster Presentation. Scoliosis Research Society Annual Meeting. September 18-21, 2013, Lyon, France.
- Holekamp TF, Lenke LG, Godzik J, Sun SQ, Dorward IG, O'Neill KR, Koester L, Kelly MP. Neurologic Risks Associated with Treating Myelopathy due to Severe Spinal Deformity with Vertebral Column Resection. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- Neuman BJ, Lenke LG, Sides BA, Bridwell KH, Dorward IG, O'Neill KR, Kim SD. Perioperative Morbidity and Mortality in High Risk Pediatric Patients with Severe Restrictive Lung Disease Undergoing Posterior-Only Spine Deformity Surgery. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- Dorward IG, Bridwell KH, Lenke LG, Neuman BJ, O'Neill KR, Holekamp TF, Ahmad A, Baldus C. Outcomes in Surgery for Adolescent Idiopathic Scoliosis: Drivers of Satisfaction and Durability of Results. Poster Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- O'Neill KR, Lenke LG, Bridwell KH, Hyun SJ, Neuman B, Dorward I, and Koester L. Clinical and Radiographic Outcomes following 3-Column Osteotomies at a Minimum 5-Year Follow-Up. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- O'Neill KR, Bridwell KH, Lenke LG, Kelly M, Chuntarapas T, Dorward I, Neuman B, Ahmad A, and Baldus C. Extension of Spine Fusion to the Sacrum Following Long Fusions for Deformity Correction. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- Holekamp TF, Lenke LG, Godzik J, Sun SQ, Dorward IG, O'Neill KR, Koester L, Kelly M. Neurologic Risks Associated with Treating Myelopathy due to Severe Spinal Deformity with Vertebral Column Resection. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, Vancouver, Canada, July 10-13, 2013. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.
- Neuman BJ, Lenke LG, Sides BA, Bridwell KH, Dorward IG, O'Neill KR, Kim SD. Perioperative Morbidity and Mortality in High Risk Pediatric Patients with Severe Restrictive Lung Disease Undergoing Posterior-Only Spine Deformity Surgery. Podium Presentation. International Meeting on Advanced Spine Techniques Annual Meeting, July 10-13, 2013, Vancouver, Canada.

- Mioton LM, O'Neill KR, Wilson RJ, Burns KM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Minimum Clinically Important Difference Assesses Health State After Repeat Cervical Spine Surgery. Podium Presentation. American Academy of Orthopedic Surgeons Annual Meeting, March 19-23, 2013, Chicago, Illinois.
- Anderson C, Nyman J, Anderson A, McCullough K, O'Neill K, Dunn W. Biomechanical evaluation of physcal sparing fixation methods in tibial eminence fractures. Podium Presentation. American Academy of Orthopedic Surgeons Annual Meeting, March 19-23, 2013, Chicago, Illinois.
- Crosby C, Stockin M, O'Neill K, Bible J, Devin C. The Prevalence of Endocrine Abnormalities in Patients with Pseudarthrosis after Spinal Fusion. Podium Presentation. American Academy of Orthopedic Surgeons Annual Meeting, March 19-23, 2013, Chicago, Illinois.
- Mioton LM, O'Neill KR, Wilson RJ, Burns KM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Utility Of Minimum Clinically Important Difference In Assessing Pain, Disability And Health State After Anterior Cervical Decompression And Fusion For Adjacent Segment Disease (ASD). Podium Presentation. Cervical Spine Research Society Annual Meeting, December 6-8, 2012, Chicago, Illinois.
- Wright BT, O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Adogwa O, McGirt MJ, and Devin CJ. Effects of Depression on Patient Reported Outcomes following Surgery for Cervical Adjacent Segment Disease. Podium Presentation. Cervical Spine Research Society Annual Meeting, December 6-8, 2012, Chicago, Illinois.
- Crosby C, Stockin M, O'Neill K, Bible J, Devin C. The Prevalence of Endocrine Abnormalities in Patients with Pseudarthrosis after Spinal Fusion. Podium Presentation. Cervical Spine Research Society Annual Meeting, December 6-8, 2012, Chicago, Illinois.
- Wright BT, O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Adogwa O, McGirt MJ, and Devin CJ. Effects of Depression on Patient Reported Outcomes following Surgery for Cervical Adjacent Segment Disease. Podium Presentation. North American Spine Society Annual Meeting, October 24-27, 2012, Dallas, Texas.
- Shau DN, Bible JE, Samade R, Gadomski SP, Mushtaq B, Wallace A, Oneill KR, Devin CJ. Utility of post-operative radiographs for cervical spine fusion: a comprehensive evaluation of operative technique, surgical indication, and duration since surgery. Podium Presentation. North American Spine Society Annual Meeting, October 24-27, 2012, Dallas, Texas.
- Burns KM, O'Neill KR, Bible JE, Mioton LM, Wright BT, Wilson RJ, McGirt MJ, Devin CJ. Patient Satisfaction after Revision Anterior Cervical Discectomy and Fusion (ACDF) for Adjacent Segment Disease: Relationship to Clinical Outcomes, Patient Characteristics, and Cost Effectiveness. Podium Presentation. North American Spine Society Annual Meeting, October 24-27, 2012, Dallas, Texas.
- O'Neill K, Lockney D, Bible J, Crosby C, and Devin C. A Prospective, Randomized, Placebo-Controlled, and Blinded Trial of Bupivacaine for Long-Term Pain Reduction after Iliac Crest Bone Graft Harvest for Spine Surgery. Poster Presentation. Scoliosis Research Society Annual Meeting, September 5-8, 2012, Chicago, Illinois.
- Crosby C, Stockin M, O'Neill K, Bible J, Devin C. The Prevalence of Endocrine Abnormalities in Patients with Pseudarthrosis after Spinal Fusion. Podium Presentation. Scoliosis Research Society Annual Meeting, September 5-8, 2012, Chicago, Illinois.
- O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Cost-effectiveness analysis of surgery for adjacent segment disease after anterior cervical discectomy and fusion (ACDF). Podium Presentation. American Academy of Orthopedic Surgeons Annual Meeting, February 7-11, 2012, San Francisco, California.
- O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Cost-effectiveness analysis of surgery for adjacent segment disease after anterior cervical discectomy and fusion (ACDF). Poster Presentation. Cervical Spine Research Society Annual Meeting, December 8-10, 2011, Scottsdale, Arizona.
- O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Wright BT, Adogwa O, McGirt MJ, and Devin CJ. Outcomes following revision surgery for adjacent segment disease after anterior cervical discectomy and fusion (ACDF). Poster Presentation. Cervical Spine Research Society Annual Meeting, December 8-10, 2011, Scottsdale, Arizona.
- O'Neill K, Smith J, Abtahi A, Archer-Swygert K, Spengler D, McGirt M, and Devin C. Reduced surgical site infections in patients undergoing posterior spinal stabilization of traumatic injuries using vancomycin powder. Podium Presentation. North American Spine Society Annual Meeting, November 2-5, 2011, Chicago, Illinois.
- O'Neill K, Smith J, Abtahi A, Archer-Swygert K, Spengler D, McGirt M, and Devin C. Reduced surgical site infections in patients undergoing posterior spinal stabilization of traumatic injuries using vancomycin powder. Podium Presentation. Lumbar Spine Research Society Annual Meeting, May 5-6, 2011, Chicago, Illinois.
- Bible J, O'Neill K, Crosby C, Schoenecker J, McGirt M, and Devin C. Microscope Sterility during Spine Surgery. Podium Presentation. Lumbar Spine Research Society Annual Meeting, May 5-6, 2011, Chicago, Illinois.

- O'Neill K, Stutz C, Mignemi N, Nyman J, Mencio G, Obremsky WT, Lynch CC, and Schoenecker J. Delayed Fracture Healing in Protease Activated Receptor-2 Deficient Mice. Poster Presentation. American Society of Bone and Mineral Research Annual Meeting, October 15-19, 2010, Toronto, Ontario, Canada.
- O'Neill K, Stutz C, Mignemi N, Nyman J, Schoenecker J, and Obremsky WT. Quantitative Micro-CT Compared to Biomechanics in a Mouse Fracture Model. Podium Presentation. Orthopaedic Trauma Association Annual Meeting, October 13-16, 2010, Baltimore, Maryland.
- Hunt B, Corona E, Mason JJ, O'Neill K, Turner C, and Groff M. Role of Anterior Fixation in the Stability of Titanium Cage Spinal Constructs. Proceedings of the SEM XI International Congress and Exposition on Experimental and Applied Mechanics, June 7-9, 2004, Portland, Oregon.
- Musch G, Bellani G, O'Neill K, Harris RS, Vidal Melo MF, Winkler T, and Venegas JG. Functional PET Imaging of the Effect of PEEP on Regional Gas Exchange in Acute Lung Injury. American Thoracic Society Annual Meeting, 2004, Orlando, Florida.
- Musch G, Harris RS, Vidal Melo MF, O'Neill K, Layfield J, Venegas JG. Mechanism by Which a Recruitment Maneuver (RM) Can Worsen Oxygenation in Acute Lung Injury. American Thoracic Society Annual Meeting, 2003, Seattle, Washington.
- O'Neill K, Vidal Melo MF, Richter T, Harris RS, Layfield J, Musch G, Winkler T, Venegas JG. Modeling Arterial Kinetics of Infused <sup>13</sup>NN in Acute Lung Injury. American Thoracic Society Annual Meeting, 2003, Seattle, Washington.
- Venegas JG, O'Neill K, Fischman AJ, Harris RS, Musch G, and Vidal Melo MF. Lung Inflammatory Response to Cigarette Smoking Measured by Positron Emission Tomography (PET). American Thoracic Society Annual Meeting, 2003, Seattle, Washington.
- Vidal Melo MF, Layfield D, O'Neill K, Harris RS, Musch G, and Venegas JG. Quantification of Regional Ventilation-Perfusion Ratios with Positron Emission Tomography. Fall Annual Meeting of the Biomedical Engineering Society, 2003, Nashville, Tennessee.
- O'Neill K, Vidal Melo MF, Richter T, Harris RS, Layfield J, Musch G, Winkler T, Venegas JG. Modeling Arterial Kinetics of Infused <sup>13</sup>NN in Acute Lung Injury. American Thoracic Society Annual Meeting, 2002, Atlanta Georgia.

### Grants Awarded

- Orthopaedic Trauma Association Resident Research Grant 2010 (\$10,000)  
O'Neill K, Stutz C, Nyman J, Schoenecker J, and Obremsky WT.  
Quantitative Axial Micro-CT as a Surrogate for Biomechanics in a Mouse Fracture Model.  
Role: Primary Investigator
- Orthopaedic Research Education Fund Resident Clinician Scientist Training Grant 2010 (\$14,000)  
O'Neill K, Stutz C, Nyman J, Obremsky WT, Nazaria A, Schoenecker J, Snyder B.  
Axial Quantitative Micro-CT as a Surrogate for Biomechanics in a Mouse Fracture Model.  
Role: Primary Investigator
- Orthopaedic Research Education Fund Resident Clinician Scientist Training Grant 2010 (\$5,000)  
Anderson CN, McCullough KA, O'Neill KR, Song Y, Murry MR, and Nyman JS.  
Biomechanical evaluation of physeal sparing fixation methods in ACL avulsion fractures.  
Role: Co-Investigator