Improving lives by supporting excellence in orthopaedic research . . .

. . . ONE GRANT AT A TIME
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OUR VISION
OREF will be the leader in supporting orthopaedic research to improve function, eliminate pain and restore mobility.

OUR MISSION
Improving lives by supporting excellence in orthopaedic research.

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Joshua A. Gordon, MD

www.oref.org
Standing on the shoulders of giants

As you may remember, in last year’s Annual Report, I wrote about that old saying, “Success has many parents,” and its application to orthopaedics. This year, I’d like to share an equally appropriate thought. All of us who are privileged to call ourselves orthopaedic surgeons are standing on the shoulders of those who came before us and paved the way for our opportunities and successes.

No doubt, we’ve all worked hard to achieve our professional success. But we didn’t do it alone, and today’s new investigators, whether young in age or new in experience, can’t do it alone either. They are also standing on the shoulders of giants, namely the thousands of generous donors who have made possible the work OREF does to advance orthopaedics, one grant at a time. Our donors allow us to support the investigators who are committed to answering the most urgent questions in orthopaedics today.

In this year’s report, as we look back on 2013, it is my honor and privilege to recognize you! On behalf of the OREF Board of Trustees, CEO Sharon Mellor, committee members, volunteers, staff and, of course, our grateful grant recipients, I extend sincere thanks for your generosity and commitment to advancing the field of orthopaedics. We recognize you as the giants upon which the future of orthopaedics stands.

On a personal note, as my term as president ends, and OREF approaches its 60th anniversary, I am more encouraged than ever that OREF, under the leadership of its new president, John J. Callaghan, MD, and through the unwavering support of its donors, will be providing critical early funding to new investigators far into the future.

I hope that you enjoy reading this year’s report and, as always, I invite your feedback and questions. Please feel free to contact me at president@oref.org.

Sincerely,

Ramon L. Jimenez, MD
2012 & 2013 President
OREF Board of Trustees
OREF financial statements are presented on an accrual accounting basis with 2013 grants expense being funded by 2012 contribution revenues. Donations received in 2013 will be used for 2014 grants.

OREF received 2013 funding from more than 1,992 individuals and 35 corporate partners. OREF’s enhanced focus on research resulted in more than $1.4 million in gifts directed to the new research fund. Annual giving also increased 48% to $1.8 million. OREF secured support from 10 new, increased or re-engaged corporate supporters, thereby increasing corporate support by 28% more than 2012.

OREF received 2013 funding from more than 1,992 individuals and 35 corporate partners. OREF’s enhanced focus on research resulted in more than $1.4 million in gifts directed to the new research fund. Annual giving also increased 48% to $1.8 million. OREF secured support from 10 new, increased or re-engaged corporate supporters, thereby increasing corporate support by 28% more than 2012.

OREF has a strong balance sheet reflecting increased financial health.

**STATEMENT OF ACTIVITIES**

**YEAR ENDED DECEMBER 31, 2013**

**Audited**

**REVENUES:**
- Contributions: $5,871,665
- Contributions to partner endowments: $330,536
- Insurance premiums for major gifts: $167,875
- Change in value of charitable remainder trusts: $(143,554)
- Change in cash surrender value of life insurance policies: $129,995
- Investment return: $2,288,850

**Total revenues:** $8,645,367

**EXPENSES:**
- Program expenses – grants and awards: $4,296,693
- Program expenses – grants and awards administration: $592,081
- Fundraising – development expenses: $1,454,770
- Special programs expenses: $76,628
- General and administrative expenses: $997,642
- Bad debt loss: $113,850

**Total expenses:** $7,531,664

**Change in net assets:** $1,113,703

**STATEMENT OF FINANCIAL POSITION**

**DECEMBER 31, 2013**

**Audited**

**ASSETS:**
- Cash and cash equivalents: $5,467,304
- Pledges receivable, net: $2,945,409
- Prepaid expenses and other assets: $317,549
- Marketable securities: $27,475,298
- Deferred assets: $4,745,936
- Property and equipment, net: $19,977

**Total assets:** $40,971,473

**LIABILITIES AND NET ASSETS:**
- Grants and awards payable: $4,377,547
- Accounts payable and accrued expenses: $313,465
- Due to orthopaedic partners: $1,771,768

**Total liabilities:** $6,462,780

- Net assets – unrestricted: $(1,894,543)
- Net assets – temporarily restricted: $4,178,154
- Net assets – permanently restricted: $32,225,082

**Total net assets:** $34,508,693

**Total liabilities and net assets:** $40,971,473

Investment earnings were 9.43%, a strong showing in light of general investment markets.

**MANAGEMENT COMMENTARY | YEAR END DECEMBER 31, 2013**

Fundraising and general administrative expenses were lower than prior years as a result of focused cost-controls and efficiencies realized as OREF transitions out of programs not aligned with its mission.

OREF has a strong balance sheet reflecting increased financial health.
OREF CAREER DEVELOPMENT GRANT
Wellington K. Hsu, MD
Northwestern University
A Therapeutic Approach to Prevent Smoking-Mediated Bone Healing Inhibition
In honor of Ms. Jean McGuire

OREF PROSPECTIVE CLINICAL RESEARCH GRANTS
John H. Healey, MD
Sloan Kettering Institute for Cancer Research
A Randomized Trial to Assess Patient Quality of Life and Function
After Alternative Surgeries for Pathologic Fractures of the Femur
B. Wolf, MD
University of Iowa
Outcome of Surgery for Anterior Shoulder Instability:
A Prospective Multi-Center Cohort Study

OREF CLINICAL RESEARCH AWARD
James N. Weinstein, DO
Dartmouth-Hitchcock Medical Center
The Spine Patient Outcomes Research Trial (SPORT)

OREF/MTF RESEARCH GRANT
Abhijit S. Dighe, PhD
University of Virginia
Interaction Between Mesenchymal Stem Cells and T Cells During Osteogenesis

OREF/GOLDBERG RESEARCH GRANT IN ARTHRITIS
Allan L. Bucknell, MD
University of Colorado, Denver
Identification of Therapeutic Targets to Improve Arthroplasty Outcomes
in the Presence of Co-Morbid Diabetes Mellitus
Funding made possible by the Dr. Victor and
Mrs. Harriet Goldberg Endowment Fund

OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE
Eric T. Ricchetti, MD
Cleveland Clinic
Postoperative Three-Dimensional Computed Tomography
Analysis of Implant Position and Outcome at Minimum
Two-Year Follow-Up Following Total Shoulder Arthroplasty
Funding made possible by the
Dr. and Mrs. Charles Rockwood Family Endowment Fund

OREF RESEARCH GRANT IN REVISION RELATED TO TOTAL ANKLE ARTHROPLASTY
Robin M. Queen, PhD
Duke University
Assessment of Physical Performance, Walking Mechanics, and the Cost-Effectiveness
of Revision Total Ankle Replacement
Funding made possible by Wright Medical

OREF/MSTS CLINICAL RESEARCH GRANT IN ORTHOPAEDIC ONCOLOGY
Ginger E. Holt, MD
Vanderbilt University Medical Center
Real Time In Vivo Tumor and Tumor Bed Assessment After
Soft Tissue Sarcoma Excision Using Optical Spectroscopy

OREF MENTORED CLINICIAN SCIENTIST GRANT
Robert A. Magnussen, MD
Ohio State University
Can Physical Examination Predict
Patient-Reported Outcomes of ACL Reconstruction?

OREF NEW INVESTIGATOR GRANTS
Charla R. Fischer, MD
Columbia University Medical Center
The Effect of Calregulin on Osteoclastogenesis and
Ovariectomy-Induced Bone Loss in Mice
Funding made possible by Stryker

Carolyn M. Hettrich, MD
University of Iowa
Scapular Notching in Reverse Shoulder Arthroplasty with Medialized
Versus Lateralized Implants: A Clinical and Finite Element Study
Funding made possible by Zimmer Holdings, Inc.
Rowena McBeath, MD, PhD
Thomas Jefferson University
Engineering Human Fibrocartilage Using Transdifferentiated Tenocytes
Funding made possible by Wright Medical

Addisu Mesfin, MD
University of Rochester
Defining the Role of BMP Signaling in the Development of Degenerative Disc Diseases
Funding made possible by the Mahendra Patel, MD Research Fund

OREF/AAHKS RESIDENT CLINICIAN SCIENTIST TRAINING GRANT IN TOTAL JOINT ARTHROPLASTY
Brian P. Gladnick, MD
Hospital for Special Surgery
Quantification of Mid-Flexion Laxity After Total Knee Replacement
Funding made possible by Zimmer Holdings, Inc.

OREF RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS
Brandon S. Beamer, MD
Beth Israel Deaconess Medical Center
Biomechanical Analysis of Tibiofemoral Contact Pressures After Novel Repair of Meniscus Horizontal Cleavage Tears
Funding made possible by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

Jon-Michael E. Caldwell, MD
Columbia University Medical Center
Matrix Stiffness and Sarcoma Growth: Scientific Implication of Compartments
Funding made possible by the Ira A. Roschelle Family Foundation

Eric J. Feuchtbaum, MD
Washington University
Randomized Trial of Alvimopan for the Reduction of Ileus After Long Posterior Spinal Fusion

Alexia Hernandez-Soria, MD
Hospital for Special Surgery
Evaluation of Simvastatin-Containing Nanomedicine in Bone Fracture Healing in Old and Young Mice
Funding made possible by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

Andrew J. Pugely, MD
University of Iowa
Development of a Multi-Center Quality Improvement Tool After Hip Fracture Surgery: A Hospital-Based, Risk-Adjusted Pilot Study
Funding made possible by Thomas P. Sculco, MD

Nathan W. Skelley, MD
Washington University
Biomechanical Analysis of Tensile Properties and Fiber Alignment in the Anterior Cruciate Ligament to Map Ligament Bundle Design
Recipient of an MTF/Charles H. Herndon Resident Clinician Scientist Training Grant
Funding made possible by the Musculoskeletal Transplant Foundation

Minal D. Tapadia, MD
University of California, Irvine
Schwann Cell-Derived Desert Hedgehog as a Therapeutic Adjunct for Compressive Neuropathies
Funding made possible by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

Alexander A. Theologis, MD
University of California, San Francisco
The Effect of the Endocrine Disrupting Chemical Bisphenol A (BPA) on Endochondral Ossification in Fracture Repair
Recipient of an MTF/Charles H. Herndon Resident Clinician Scientist Training Grant
Funding made possible by the Musculoskeletal Transplant Foundation

Adam M. Wegner, MD, PhD
University of California, Davis
The Role of Nox4 as a Mediator of Osteoarthritis and a Potential Target for Treatment
Funding made possible by the Ira A. Roschelle Family Foundation

OREF RESIDENT RESEARCH PROJECT GRANTS
Hoyt Randall Beard, MD
Wake Forest University Health Sciences
TeleOrtho: The Design, Implementation and Analysis of a Telemmedicine Orthopaedic Consultation and Referral Network

Wesley F. Frevert, MD
University of Florida, Gainesville
Evaluation of Biofilms on Orthopaedic Prostheses Using PCR, Electron Microscopy and Functional Biofilm Assay

Christina G. Kane, MD
University of Massachusetts
Challenging the Traditional Methods of Intra-Operative Learning: Comparing the Effectiveness of a Computer-Based Video Tutorial with One-on-One Expert Teaching for Zone II Flexor Tendon Repairs

Eren O. Kuris, MD
University of Kansas
Post-Operative Drainage and Serum Vancomycin Levels After Topical Adjunctive Application of Vancomycin Powder in Patients with Posterior Instrumented Spine Surgery
OREF RESIDENT RESEARCH
PROJECT GRANTS (continued)

Brian C-F. Lau, MD
University of California, San Francisco
Preoperative MRI (T, Rho) Findings to Predict 1-Year Post-ACL Reconstruction Outcomes

Marco C. Mendoza, MD
Northwestern University
Evaluation of the Effect of Vancomycin Powder on Bone Healing in a Rat Spinal Arthrodesis Model
Funding made possible by Mr. James G. Borovsky
In memory of Harry N. Herkowitz, MD

Karthikeyen E. Ponnusamy, MD
Johns Hopkins University
Factors Affecting Readmission and Discharge Disposition for Total Joint Arthroplasty Patients

Matthew D. Riedel, MD
Boston Children’s Hospital (Harvard)
Development of a Risk Severity Score for Pediatric Spine Surgical Site Infection

Cory M. Stewart, MD
The University of Chicago
Role of Bone Morphogenic Proteins in Rotator Cuff Degeneration and Healing

Robert W. Westermann, MD
University of Iowa
Finite Element Analysis of Biomechanics in a Single-Bundle Anterior Cruciate Ligament Reconstructed Knee Model

Jeffrey Wilde, MD
University of Michigan
Improving the Recovery of Rotator Cuff Tears by the Targeted Inhibition of p38 MAPK

Ernest Y. Young, MD
Mayo Clinic
Long-Term Follow-Up of Pelvic Osteotomy for Developmental Hip Dysplasia

OREF/DEPUY RESIDENT RESEARCH
PROJECT GRANTS

Bryan G. Beutel, MD
New York University
Characterization of a Novel and Translational Measurement of Fracture Toughness in Human Bone

Gregory L. Cvetanovich, MD
Rush University Medical Center
Gait Biomechanics in Patients with Femoroacetabular Impingement

Daniel J. Fuchs, MD
Northwestern University
Ultrasound-Mediated Gene Therapy for Bone Formation in Spinal Fusion

Elizabeth R. Inkellis, MD
University of California, San Francisco
Epidemiology of Severe Forearm Fractures
Within the Major Extremity Trauma Research Consortium

Matthew C. Kinney, MD
University of California, San Diego
Determining the Role Satellite Cells Play in Regulating the Serial Sarcomere Adaptation to Chronic Muscle Stretch and the Development of Muscle Contracture

Natalie L. Leong, MD
University of California, Los Angeles
In Vitro Characterization of Three Unique Cell Populations from the Anterior Cruciate Ligament for Use in Ligament Tissue Engineering

Venu M. Nemani, MD, PhD
Hospital for Special Surgery
MicroCT Analysis of Bone Microarchitecture in Patients with Bisphosphonate-Associated Atypical Femur Fractures

Joshua A. Parry, MD
Mayo Clinic
A Bioactive Porous Interference Screw for Improved Graft Fixation

Sara M. Putnam, MD
Washington University
Redefining the False Profile Radiograph and the Correlation with Anterolateral Hip Coverage

Marcus A. Rothermich, MD
Washington University
A Comparative Molecular Analysis of Gene Expression in Anterior Cruciate Ligament Injuries With and Without a Concomitant Meniscus Tear

Lindsey C. Sheffler, MD
University of California, San Francisco
Radiation Exposure to Breast Tissue in Female Orthopaedic Surgeons

Beverlie L. Ting, MD
Massachusetts General Hospital
25-Hydroxy-Vitamin D and Bone Turnover Marker Levels in Premenopausal Patients with Distal Radius Fractures

Kenneth M. Vaz, MD
University of California, San Diego
Effects of Immobilization on Tibial and Sural Nerve Biomechanics in a Rat Diabetic Neuropathy Model
OREF PROGRAM AWARDS
Funded for 2014

Dean Wang, MD
University of California, Los Angeles
Preconditioning of Hamstring Tendon Grafts for Anterior Cruciate Ligament Reconstruction

Anthony Lee Yu, MD
Loyola University Chicago
The Effect of Early Versus Delayed Wound Cleaning on Surgical Site Bacterial Recolonization Following Total Knee Arthroplasty

OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS
Ananth Eleswarapu, MD
The University of Chicago
Lumbar Interbody Fusion Using Percutaneously Delivered Synergistic Bone Morphogenetic Proteins

Harold A. Fogel, MD
Loyola University Chicago
All-Inside vs. Transtibial Anterior Cruciate Ligament Reconstruction: A Biomechanical Analysis of Tibial Fixation

Andrew G. Geeslin, MD
Western Michigan University
Coracoclavicular Ligament Reconstruction: Biomechanical Analysis of Clavicle Fracture Risk

Emily C. Harnden, MD
University of Washington
Does the Radius of Curvature of the Lateral Tibial Plateau Affect ACL Strain? A Biomechanical Study

HHMI/OREF MEDICAL RESEARCH FELLOWS GRANT
Vinicius Ladeira Craveiro
Hospital for Special Surgery
Molecular Regulation of Cartilage and Bone in Two Novel Mechanical Loading Mouse Models with Osteoarthritis-Like Pathology

Funding made possible in part by the
Douglas E. Ramsey, MD Endowment Fund

EDUCATIONAL GRANTS AND OREF PROGRAMS
American Academy of Orthopaedic Surgeons
Aaos/OREF/ORS Clinician Scholar Career Development Program

Eastern Orthopaedic Association/OREF Resident Travel Grant Awards
To be selected July 2014

ORS/OREF Annual Grant Writing Workshops
March and May 2014

Southern Orthopaedic Association/OREF Resident/Fellow Awards

Brian E. Etier Jr., MD
University of Alabama at Birmingham
Fracture Displacement And Neurological Injury In Supracondylar Humerus Fractures in Children

R. Andrew Henderson, MD, MSc
Duke University Medical Center

Gregory S. Van Blarcum, MD
Walter Reed National Military Medical Center
Does Curve Magnitude/Deformity Correction Correlate with Pulmonary Function after Adult Deformity Surgery?

Western Orthopaedic Association/OREF Young Investigator Awards

Julius A Bishop, MD
Stanford University School of Medicine
Conventional Versus Virtual Radiographs of the Injured Pelvis and Acetabulum

Reza Firoozabadi, MD, MA
Harborview Medical Center
Risk of Spermatic Cord Injury During Anterior Pelvic Ring and Acetabular Surgery: An Anatomical Study

Ran Schwarzkopf, MD, MSc
University of California, Irvine School of Medicine
Patients’ Willingness to Contribute to Cost of Novel Implants in Total Joint Arthroplasty

ORS/OREF TRAVEL AWARDS IN ORTHOPAEDIC RESEARCH TRANSLATION
Matthew P. Abdel, MD
Mayo Clinic

Yohei Kawakami, MD, PhD
University of Pittsburgh

Denis Nam, MD
Washington University

Danyal H. Nawabi, MD
Hospital for Special Surgery

Shankar Thiagarajah, MD
University of Sheffield

ORS/OREF DISTINGUISHED INVESTIGATOR AWARD
Regis J. O’Keefe, MD, PhD
University of Rochester

OREF/CCJR CLINICAL PRACTICE AWARDS
Gregory A. Brown, MD, PhD
Park Nicollet Clinic–Meadowbrook
Optimizing Venous Thromboembolism Prophylaxis After Total Joint Arthroplasty: A Risk-Stratified Multi-Modal VTE Prophylaxis Protocol Reduces 30-Day All-Cause Re-Admissions and 90-Day Venous Thromboembolic Events

Michael B. Cross, MD
Hospital for Special Surgery
Diagnosis of Periprosthetic Joint Infection in Revision Hip Arthroplasty with a Metal-on-Metal Bearing or Corrosion
OREF Research Grants Committee
James D. Heckman, MD, Chair
R. Tracy Ballock, MD
J. Sybil Biermann, MD
Matthew B. Dobbs, MD
Farshid Guilak, PhD
Shepard R. Hurwitz, MD

OREF Research Grants Committee Senior Advisors
Thomas A. Einhorn, MD
Victor M. Goldberg, MD
Randy R. Rosier, MD, PhD
Kristy L. Weber, MD

OREF Career Development Grant
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Keith Baldwin, MD
Nicholas M. Bernthal, MD
Robert J. Esther, MD
Young-Jo Kim, MD, PhD
Mininder S. Kocher, MD
Kenneth M. Kozloff, PhD
Alfred C. Kuo, MD, PhD
Francis Y. Lee, MD, PhD
Brett D. Owens, MD
Jonathan G. Schoenecker, MD, PhD
James D. Slover, MD
Matthew C. Stewart, PhD
Jennifer M. Wolf, MD
Chao Xie, MD

OREF Prospective Clinical Research Grants
Randy R. Rosier, MD, PhD, Chair
Antonia F. Chen, MD
Roger Cornwall, MD
Adam S. Hacking, PhD
Wellington K. Hsu, MD
Riyaz H. Jinnah, MD
Michael J. Monument, MD

OREF Clinical Research Award
James D. Heckman, MD, Chair
Matthew B. Dobbs, MD
John H. Healey, MD
Frank B. Kelly Jr., MD
William C. McMaster, MD

OREF/MTF Research Grant
Farshid Guilak, PhD, Chair
Danielle S. W. Benoit, PhD
Chitra L. Dahia, PhD
Chao Xie, MD

OREF/Goldberg Research Grant in Arthritis
Victor M. Goldberg, MD, Chair
Donald D. Anderson, PhD
Darryl D’Lima, MD, PhD
Hannah J. Lundberg, PhD

OREF/ASES/Rockwood Clinical Research Grant in Shoulder Care
Matthew B. Dobbs, MD, Chair
Brian T. Feeley, MD
Robert G. Marx, MD

RJOS/OREF/DePuy Research Grant in Women’s Musculoskeletal Health
Kristy L. Weber, MD, Chair
Michelle S. Caird, MD
Gloria R. Gogola, MD

OREF Research Grant in Revision Related to Total Ankle Arthroplasty
James D. Heckman, MD, Chair
Laura K. Dawson, DO
Andrew R. Hsu, MD
Anish R. Kadakia, MD
L. Daniel Latt, MD, PhD
Douglas E. Lucas, DO

OREF/MSTS Clinical Research Grant in Orthopaedic Oncology
R. Lor Randall, MD, Chair
Brian E. Brigman, MD, PhD
C. Parker Gibbs, MD
Hue H. Luu, MD
Robert E. Turcotte, MD

OREF Mentored Clinician Scientist Grant
James D. Heckman, MD, Chair
R. Tracy Ballock, MD
Shepard R. Hurwitz, MD

OREF New Investigator Grants
R. Tracy Ballock, MD, Chair
Gunnar B. J. Andersson, MD, PhD
Michelle S. Caird, MD
Samuel K. Cho, MD
Christopher J. Dy, MD
Michelle A. James, MD
Cato T. Laurencin, MD, PhD
Weiping Ren, MD, PhD
Marvin E. Steinberg, MD
Laura L. Tosi, MD

OREF Resident Clinician Scientist Training Grants
Shepard R. Hurwitz, MD, Chair
Jaimo Ahn, MD, PhD
Christopher T. Chen, PhD
Gloria R. Gogola, MD
Annamarie Horan, PhD
Jason E. Lang, MD
Cato T. Laurencin, MD, PhD
Binyun Li, MD
Mandi J. Lopez, DVM, PhD
Hannah J. Lundberg, PhD
Ryan McLemore, PhD
R. Michael Meneghini, MD
Nancy H. Miller, MD
Jose A. Morcuende, MD, PhD
Lauren H. Redler, MD
Tamara D. Rozental, MD
Katherine R. Saul, PhD

Chitra L. Dahia, PhD
On how the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) supports orthopaedic research and education: Part of the National Institutes of Health (NIH), the NIAMS supports research into the causes, treatment, and prevention of arthritis and musculoskeletal and skin diseases; the training of basic and clinical scientists to carry out this research; and the dissemination of information on research progress in these diseases. Roughly 84% of our budget goes to extramural research, mostly in the form of investigator-initiated or training grants. We are committed to funding the best scientific projects as determined by a rigorous, two-stage peer review process (see http://csr.nih.gov/).

On how OREF grants can help clinician scientists obtain NIH funding: As NIH funding is highly competitive, it is important for researchers to have access to multiple sources of support. Even a small grant can facilitate collection of preliminary data, which may help a good application become a great application, and thereby get funded by the NIH. For those who already have NIH funds, programs such as the OREF Mentored Clinician Scientist Grant (for NIH career development awardees), provide supplemental support that better enables the grantee for the next level of NIH funding.

On how, in addition to providing training and career development opportunities, OREF can help orthopaedic surgeons become more competitive for NIH funding: An important NIAMS goal is to identify and fund trials that are as timely and informative as possible, and that will lead to improvements in clinical practices for disease prevention, diagnosis, and treatment. Professional foundations such as OREF can play an essential role by helping researchers form teams that can identify the key research questions relevant to clinical practice, and develop the highly meritorious investigator-initiated proposals to answer them. More information about the grants process, including NIAMS Clinical Research Policies, is available through http://www.niams.nih.gov/Funding/.
OREF RESEARCH GRANTS & AWARDS | FUNDED FOR 2013

OREF CAREER DEVELOPMENT GRANTS
Roger Cornwall, MD
Cincinnati Children’s Hospital Medical Center
The Role of Muscle Satellite Cells in Contracture Formation Following Neonatal Brachial Plexus Injury

Brian T. Feeley, MD
University of California, San Francisco
The Molecular Pathophysiology of Muscle Atrophy and Fatty Infiltration After Massive Rotator Cuff Tears

OREF PROSPECTIVE CLINICAL RESEARCH GRANTS
Andrew C. Hecht, MD
Mount Sinai School of Medicine
The Effect of Esomeprazole Magnesium on Incidence of Dysphagia Following Anterior Cervical Spine Surgery: A Prospective, Randomized, Double-Blinded, Placebo-Controlled Study

Javad Parvizi, MD
Rothman Institute, Thomas Jefferson University
Serum Molecular Markers: A Potential Guide for Re-Implantation After Resection Arthroplasty for Periprosthetic Joint Infections

OREF CLINICAL RESEARCH AWARD
Robert F. LaPrade, MD, PhD
Steadman Philippon Research Institute
Improving Outcomes for Posterolateral Knee Injuries

OREF/MTF RESEARCH GRANT
Mark Lee, MD
University of California, Davis
Bioengineering Implantable Bone Tissue Using Allogenic and Autologous Mesenchymal Stem Cells

OREF/GOLDBERG RESEARCH GRANT IN ARTHRITIS
Cristin M. Ferguson, MD
Wake Forest University Health Sciences
BMP Receptors and GDF5 in Osteoarthritis
Funding made possible by the Dr. Victor and Mrs. Harriet Goldberg Endowment Fund

OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE
Joseph A. Abboud, MD
Rothman Institute, Thomas Jefferson University
The Effect of Elevated Synovial Cholesterol Levels in Rotator Cuff Tendon Injury
Funding made possible by the Dr. and Mrs. Charles Rockwood Family Endowment Fund

RJOS/OREF/DEPUY RESEARCH GRANT IN WOMEN’S MUSCULOSKELETAL HEALTH
Lauren H. Redler, MD
Columbia Presbyterian Medical Center
Intra- and Inter-Observer Reliability of the Video-Assisted Drop Vertical Jump Screening Test for ACL Injury Risk

AAHKS/OREF RESEARCH GRANT IN ADULT RECONSTRUCTION
Weiping Ren, MD, PhD
Wayne State University
A New Implant Surface with Doxycycline-Doped Nanofiber Coating

POSNA/OREF RESEARCH GRANTS IN PEDIATRIC ORTHOPAEDICS
Mininder S. Kocher, MD
Boston Children’s Hospital
Development and Validation of a Pediatric Activity Scale

Katherine R. Saul, PhD
Wake Forest University Health Sciences
Identifying Muscular Contributions to Bone Deformity of the Shoulder Following Brachial Plexus Birth Palsy
OREF YOUNG INVESTIGATOR GRANTS

Samuel B. Adams, MD
Duke University Medical Center
Improving Osteoarthritis Pain and Function Through Intra-Articular Depot Delivery of Small Molecule Therapeutics
Funding made possible by the Mahendra Patel, MD Research Fund

Oke A. Anakwenze, MD
Columbia University
Effect of Nicotine on Rotator Cuff Structure and Healing

Nicholas M. Bernthal, MD
University of California, Los Angeles
Protecting Implants from Infection: Implant Coatings and Their Effects on Osteointegration
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Notochordal Cells Release Anti-Neural and Anti-Vascular Factors that Can Be Used to Treat Discogenic Pain

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Evaluation of Tissue-Engineered Composites for Bone Regeneration Using Stem Cell Molecular and Gene Analysis
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Discovering Novel Small Molecules for Treating Synovial Sarcoma in the Orthopaedic Oncology Patient

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Biomechanical Assessment of a Novel Humeral Head Anterior-Offsetting Technique for Difficult Shoulder Arthroplasty with Posterior Instability
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A Novel Xenograft-Derived Bone Scaffold for Improved Treatment of Critical Bone Defects
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The Effect of Early Mobilization After Surgical Repair of an Achilles Tendon Rupture in a Rat Model
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Smad4 Effects on Physis Morphogenesis and Chondrocyte Polarity
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Scapular Kinematics of Healthy Controls and Individuals with Asymptomatic Rotator Cuff Tears
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Novel Decellularization Process of Peripheral Nerve Allograft and Outcomes Following Implantation into a Rat Sciatic Nerve Injury Model

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Acetabular Prosthesis Protrusion After Medial Acetabular Wall Breach in Total Hip Arthroplasty: A Cadaveric Biomechanical Study

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Three-Dimensional Analysis of the Growth Plate and Intervertebral Cellular Responses to Spinal Growth Modulation in the Fusionless Treatment of Scoliosis: A Pilot Study in an Immature Porcine Model

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Real-Time Detection of Infection in a Critical Bone Defect Model in Mice

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Adipokines in Spinal Fusion: Do They Play a Role?

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The Effect of Unicompartmental Knee Arthroplasty on the Expression of Inflammatory Markers in Osteoarthritis

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Hamstring Activity in the ACL-Injured Patient: Injury Implications and Comparison to Quadriceps Activity

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Incisional Vacuum-Assisted Closure Therapy After Posterior Spinal Fusion for Pediatric Neuromuscular Scoliosis

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The Effect of Computer-Assisted Surgery Training in the Placement of Iliosacral Screws

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Platelet-Rich Plasma vs. Corticosteroid Injection in the Treatment of Partial Thickness Rotator Cuff Tears: A Randomized, Prospective, Double-Blinded Trial

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Hofstra North Shore–LIJ School of Medicine
Evaluation of Amniotic-Derived Membrane Biomaterial as an Adjunct for Repair of Critical-Sized Bone Defects

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Incidence of and Risk Factors for Failing Dental Clearance Prior to Hip and Knee Arthroplasty

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Southern Orthopaedic Association/OREF Resident/Fellow Awards

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A Biomechanical Comparison between All-Arthroscopic Knotless and Outside-In/Trangular Fibrocartilage Complex Repairs

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On what drew him to orthopaedics: I became interested in orthopaedics because of my own high school injuries. I tore my meniscus and had a wonderful orthopaedic surgeon who was a clinician scientist and very inspirational.

On how he first learned about OREF: When I was a resident, I was fortunate to work with clinical researchers who were very involved with OREF. They suggested I apply for the OREF Health Services Research Fellowship, which I did successfully. That support allowed me to go to the Harvard School of Public Health, earn a master’s degree in epidemiology, and it stimulated an interest in clinical trials, outcome instruments, and cost effectiveness decision analysis, which has really has set the tone for my career.

On the importance of orthopaedic research: I trained at multiple hospitals so I learned different techniques for the same surgery—for example, several different ways to do a knee or hip replacement. What was frustrating was that there weren’t good data to support one technique over another. Finding those answers is important and it’s what interested me in clinical research.

On being a peer review committee member: My goal as a peer reviewer was to identify promising investigators who could benefit from research funding and career mentorship in order to become established orthopaedic researchers. I think that many promising orthopaedic researchers or clinician-scientists get off track early in their careers because of a lack of funding, support, and mentorship. This is a big loss for our field. Programs such as the OREF Career Development Award support these investigators and can make a tremendous impact on establishing their careers.
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On what drew him to orthopaedics: I was drawn to the personalities of residents and attending staff (Drs. J. Paul Harvey and Mike Patzakis) at LA County USC Hospital, and to the range of clinical problems addressed within the specialty—trauma, infection, tumor, hand, etc.

On how he first learned about OREF: During residency at the University of Washington, Dr. Dan Spengler, our spine attending, pointed out to me OREF’s resident research grant program.

On why he supports OREF: I support OREF because it has supported my career development, because it is our collective responsibility to support our own research to advance the care of our patients, and because OREF is critical for our specialty to compete for federally sponsored research support.

On the importance of orthopaedic research: Without high-quality research we cannot improve the care of patients with musculoskeletal problems.

On becoming a member of OREF’s Visionary Research Society: I became a member of the Visionary Research Society because I want to foster the notion that, in terms of us behaving in a professionally responsible manner, it is important for the specialty of orthopaedics to be the number-one specialty supported by research and education.
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<td>Dr. Bill and Mrs. Betty Petty</td>
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<td>Dr. and Mrs. E. Anthony Rankin</td>
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<td>Dr. Aaron and Mrs. Iris Rosenberg</td>
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<td>Dr. and Mrs. Samuel R. Rosenfeld</td>
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<td>Dr. Kenneth and Mrs. Kenda Singer</td>
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<td>Peter J. Stern, MD</td>
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<td>Dr. Mark Weidenbaum and Lisa Berke-Weidenbaum</td>
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Jeffrey T. Adams, MD (20) ★
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Dr. James and
Mrs. Janelle House (20) ★★★★★
What drew him to orthopedics? Orthopaedics gives me the ability to use my mechanical and surgical skills to help people by easing their pain and restoring their function.

On how he first learned about OREF: I first heard of OREF during residency but did not have any meaningful sense of OREF until I met Dr. Ramon Jimenez. He enlightened me as to the value of basic science research in furthering our ability to achieve our professional and humanitarian goals.

On why he supports OREF: Unfortunately, basic science research is not often glamorous. However, this does not diminish its importance. Basic science research is the foundation upon which we build our clinical research and, subsequently, our treatment of patients.

On becoming a member of OREF’s Visionary Research Society: When I spoke with Dr. Jimenez, he mentioned that if not for basic science research, orthopaedics would be limited to skeletal traction and debridement of osteomyelitis. I realized the importance of basic science research and wanted to do my part to support it.

On how he encourages colleagues to support research: Isaac Newton once said, “If I have seen so far, it is because I have stood upon the shoulders of giants.” Orthopaedics stands out among other specialties for its giants and for how far they have seen. We have seen much and yet have miles to go. Without support for OREF, continued progress in our ability to treat patients, ease suffering, restore function, and uphold our Hippocratic oath is greatly diminished.
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W. Timothy Brox, MD (4) ★
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Dr. and Mrs. John J. Callahan Jr. (10) ★
David L. Cannon, MD (4) ★
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David T. Dellaero, MD (7) ★
Robert S. Derkash, MD (15) ★
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David B. Fagan, MD (8) ★
Dr. Thomas and Mrs. Barbara Florack (6) ★
Drs. Terence and Nancy Goe (8)
A. Seth Greenwald, D.Phil.(Oxon) (4)
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Numbers in ( ) denote years contributed at Order of Merit Level ($1,000+)
■ Emerald Order of Merit Society (10+ years at the Order of Merit Level)
★ Sustaining Order of Merit Donor ($1,000 or more directed to OREF)
 ● Ambassador
 ● Deceased

Tribute and Memorial contributions are recognized on pages 54-59.
On why he became a clinician scientist: One role of the surgeon-scientist is to find ways to integrate new basic science ideas into clinical opportunities. One of the exciting things about being both a researcher and clinician is investigating fundamental problems in tumor biology to see if we can translate that into therapeutic interventions for patients.

On how he first learned about OREF: I learned about OREF through my residency program, which is devoted to integrating surgical training with research opportunities. Our department chairman, Charles Saltzman, MD, has been a longtime advocate of resident research and has a demonstrated commitment to advancing orthopaedics through innovation. He suggested applying for OREF funding to support some of our anti-cancer drug discovery projects.

On the importance of orthopaedic research: We need to look to the future and ask where the greatest challenges are. We’re constantly going to be faced with providing better care for our patients and to have better outcomes. One way to achieve this will be through innovation and translational research. It’s absolutely critical that, as a profession, a commitment is made to recognize and financially support these research efforts.

On the importance of OREF funding: I knew receiving an OREF grant would be critical to the success of the research project, but what I did not anticipate is how much of a profound influence it would have on my career selection. I think there is a small, critical window in a career where a surgeon can be influenced to pursue the surgeon scientist track. By supporting surgeon scientist research projects, OREF gives us a chance to investigate scientific questions that can potentially significantly change our surgical practice for the better. In the long term, I hope this translates to discoveries that help our patients live longer and better lives.

Patrick A. Holt, MD, PhD

Resident
Department of Orthopaedics
University of Utah School of Medicine
Salt Lake City

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<td>Richard E. Grant, MD</td>
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<td>Michael J. Grecula, MD</td>
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<td>Daniel W. Green, MD</td>
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| Dr. and Mrs.  
  Gerald Q. Greenfield Jr. | (18) |
| Thomas F. Gregg, MD | (17) |
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On what drew him to orthopaedics: Youth-related injuries made orthopaedics one of my first experiences in medicine. Mentors made me interested in orthopaedics and continue to play a significant role in my decision process and enthusiasm in my daily and long-term thinking. I found that the orthopaedic surgical world can often achieve results that lead to visible improvement and make a difference to patients.

On how he first learned about OREF: I heard about OREF from members of the American Academy of Orthopaedic Surgeons in leadership roles. I was drawn to them for inclusion, since many were enthusiastic, positive thinkers involved in education and volunteering for our common benefit.

On the importance of orthopaedic research: Research is important to seek the best solutions to orthopaedic problems. There needs to be recognition of a problem and questions asked to gain an understanding of the pathology or injury and to find pathways that will improve our techniques to manage the problem.

On the importance of OREF funding: To me, OREF funding is the fuel that supports the engine of change and improvement of our delivery of health care. We boast that there is new information that improves our specialty as we provide surgical education to our peers and co professionals. We need to support this growth and anticipate the needs of a profession that is dynamic and will continue to look for the best solutions.

On being co-chair of OREF's mentor campaign: The co-chairs of the mentor campaign aimed to create an opportunity to recognize a mentor and significant leader who has “moved the needle” and made a significant difference in how we practice. My role was to communicate with individuals with similar training and share my belief that by contributing to OREF we recognize the importance of people who have devoted their lives to making this a more noble profession and helping the science of orthopaedics at the same time.
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Dr. Edmund Eliezer, OREF grant recipient Dr. David Shearer’s co-principal investigator at the Muhimbili Orthopaedic Institute in Dar es Salaam, Tanzania
On what drew him to orthopaedics: Sports and working with Athletic Trainers drew me to orthopaedics. I am an honorary member of the National Athletic Trainers’ Association.

On the importance of orthopaedic research: Our country is facing a health care crisis in the sheer number of people impacted by osteoarthritis and the costs of orthopaedic care. We need continued research for finding economical and clinically effective alternatives for this tidal wave of patients facing inactivity because of pain and lack of function.

On why DJO Global supports OREF: OREF’s mission of supporting orthopaedic research to improve function, eliminate pain and restore mobility matches very closely with DJO Global efforts for Motion is Medicine and our mission: helping people’s lives through the continuum of musculoskeletal care.
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Katherine R. Saul, PhD
Associate Professor
Department of Mechanical & Aerospace Engineering North Carolina State University
Raleigh, N.C.

On what drew her to orthopaedics: My work in graduate school was with a lab that was broadly interested in musculoskeletal modeling. Most of the applications were orthopaedic in nature. We were all using mechanical engineering strategies to understand abnormal movement and disorders of the musculoskeletal system.

On how she first learned about OREF: A number of sources at my institution suggested OREF to me. Thomas L. Smith, PhD, one of my collaborators from the Department of Orthopaedic Surgery & Rehabilitation at Wake Forest School of Medicine, had worked closely with OREF in the past and he’d had really good experiences with OREF support.

On the importance of OREF funding: Receiving funding from OREF was critical. My research on brachial plexus birth palsy is a new collaboration between our group, which has expertise in neuromuscular biomechanics and computational modeling of neuromuscular skeletal systems, and our collaborator in orthopaedics who is not only a clinical expert in the treatment of brachial plexus birth palsy, but also brings experience with the animal model we’re using for the research. By working together, we can tackle this in a more comprehensive way than we would be able to working independently. We would not have been able to get all of this off the ground without the Pediatric Orthopaedic Society of North America/OREF Research Grant.

On the value of applying for an OREF grant: The grant funding we received was for a resubmission proposal. When you submit a grant to OREF, you get thorough reviews that give you very good, specific feedback. It’s worth your time to submit a grant to OREF because the feedback you get can improve the science. I’m very appreciative of OREF’s process and the time that the reviewers spend because their input is really valuable.
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CELEBRATING GRANT RECIPIENTS

In 2013, OREF provided $1.6 million in funding. In total, OREF has provided $140 million for more than 4,660 grants and awards since its founding in 1955. Below is just a sampling of the research made possible by your gift to OREF.

Benjamin C. Bengs, MD, studied the role implant design plays in achieving fixation for total hip arthroplasty patients who have sustained proximal bone loss.

Reuben Gobezie, MD, determined the pathways involved in the development of osteoarthritis and rheumatoid arthritis, which will help identify pharmacologic interventions that will allow patients to enjoy a more active life.

Bang H. Hoang, MD, explored the molecular mechanisms that allow osteosarcoma tumors to progress. Understanding these mechanisms will make possible new treatments that result in smaller and less invasive tumors, increased limb salvage and better patient outcomes.

MaCalus V. Hogan, MD, investigated methods for improved healing, repair, and regeneration of tendons following tendon injury.

Sevan Hopyan, MD, PhD, identified human mutations and mechanisms that underlie congenital femoral and tibial deficiency in order to develop genetic screens for limb deficiency and future regenerative strategies.

Michelle A. James, MD, is laying the groundwork for the development of clinical tests that allow children with hand differences to be assessed for treatment options.

Christopher K. Kepler, MD, MBA, researched the molecular mechanisms associated with intervertebral disk degeneration and diskogenic pain in order to develop noninvasive treatments that can be targeted to individual disks.

James P. Lawrence, MD, studied whether nimodipine can increase nutrient diffusion to intervertebral disks and thereby slow the progression of degenerative disk disease.

Amanda D. Marshall, MD, investigated particle-induced osteolysis on mesenchymal stem cell replication in an effort to develop alternatives to revision surgeries associated with bone loss and subsequent aseptic loosening.

David W. Shearer, MD, MPH, compared re-operation rates for femoral fracture patients in Dar es Salaam, Tanzania who are treated with intramedullary nailing to those who are treated with open reduction and internal fixation with a dynamic compression plate. Results will help determine the most effective, locally appropriate treatment for femoral shaft fractures.

Austin V. Stone, MD, PhD, explored the molecular pathways activated by meniscal injury that can lead to meniscal degeneration and osteoarthritis, a precursor to developing inhibitors that could be locally administered to prevent degenerative changes.

Brian C. Werner, MD, looked into the ability of human adipose tissue stem cells to create a bone allograft that has the potential to eliminate the need for autograft harvesting and its associated complications.
On what drew him to orthopaedics: As a physics major in college, I was interested in mechanical relationships. In addition, while an undergraduate at Yale, I had contact with Dr. Wayne Southwick, and he was largely responsible for my decision to go into medicine. As a medical student, I was further influenced by Dr. Harold Snedden, father of one of my best friends and an orthopaedic surgeon. He asked me as a student to go with him on several emergency cases.

On how he first learned about OREF: As chair of the Tripler Army Medical Center orthopaedic residency program, I recognized that someone in the program needed to have expertise in basic sciences. To increase my own expertise, I began attending the annual meetings of the Orthopaedic Research Society (ORS). There, I saw firsthand the results of OREF’s work. I have continued my association with the ORS and OREF ever since.

On why he has supported OREF for more than 20 years: I recognize the value of OREF to our practices and to our patients. Without OREF, the massive expansion of orthopaedics as a profession would not have occurred. Money given to OREF, in my view, is the best leveraged money you can give, in terms of contributing to happiness for the largest number of people.

On why orthopaedic research is important: When I became an orthopaedic surgeon, total joint replacements were in their infancy; the MRI, CAT scan, and image intensifier had not been invented; the arthroscope was brand new; fracture fixation was archaic; and spinal fixation was limited to Harrington rods. Without research, 90% of what we do for our patients today would not be possible. OREF contributions are essential for the growth of our profession because orthopaedic research does not compete well against research into cancer, cardiovascular disease, and neurological disease. OREF provides a vital jump-start to orthopaedic research and education. By doing so, it benefits every orthopaedic surgeon and every patient who seeks orthopaedic care—about 100% of people, I would guess.