



CURRICULUM VITAE

Richard A. Berger

EDUCATION AND TRAINING

- Undergraduate 1981-1985
Massachusetts Institute of Technology
Bachelor of Science, Mechanical Engineering
Pi Tau Sigma (Honors in Engineering)
- Graduate 1985-1989
Tufts University
School of Medicine
Doctor of Medicine
- Postgraduate 1989-1990
Internship
Department of General Surgery
University Health Center Hospitals
Pittsburgh, Pennsylvania
- 1990-1991
Research Fellow
University of Pittsburgh
Department of Orthopaedic Surgery
Pittsburgh, Pennsylvania
- 1990-1994
Orthopaedic Resident
University of Pittsburgh
Department of Orthopaedic Surgery
University Health Center Hospitals
Pittsburgh, Pennsylvania
- 1994-1995
Clinical Instructor
University of Pittsburgh
Department of Orthopaedic Surgery
University Health Center Hospitals
Pittsburgh, Pennsylvania
- 1995-1996
Adult Reconstruction Fellow
Dr. J. Galante, D. J. Jacobs, and Dr. A. Rosenberg

Rush University
Department of Orthopaedic Surgery
Rush-Presbyterian-St. Luke's Medical Hospital
Chicago, IL

LICENSURE

Pennsylvania
Illinois

HONORS AND AWARDS

- 1981 Westinghouse National Science-Talent Search Award
- 1982-1985 Pi Tau Sigma (M.I.T. Engineering Honors Society)
- 1990 Charles A. Moore Teaching Award: "Given to that member of the surgical house staff adjudged the most able surgical teacher."
- 1990 Upjohn Young Investigator Award
- 1992 Resident/Fellow Award: Eastern Orthopaedic Association Award for "Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint." Eastern Orthopaedic Association 23rd Annual Meeting, Dorado, Puerto Rico, October 1992.
- 1993 First Place Award: Pennsylvania Orthopaedic Society Award, "The Benefits of A Centralizing Device in Total Hip Arthroplasty." Spring meeting of the Pennsylvania Orthopaedic Society, South Hampton, Bermuda, April 1993.
- 1994 Founder's Award: Eastern Orthopaedic Association Award for "The Etiology of Isolated Patellofemoral Complications Following Total Knee Arthroplasty." Eastern Orthopaedic Association 25th Annual Meeting, South Hampton, Bermuda, October 1994.
- 1995 Pittsburgh Residents Research Award: Clinical research award for "The Effects of Rotation the Patellofemoral Joint Following Total Knee Arthroplasty," 3rd Annual Pittsburgh Residences Research Day, Pittsburgh, PA, May 1995.

PUBLICATIONS

Refereed Articles:

Berger, R.A., Rubash, H.E., Seel, M.J., Thompson, W.H., and Crossett, L.S.: Determining the Rotational Alignment of the Femoral Component During Total Knee Arthroplasty Using the Epicondylar Axis. Clin. Orthop. 286:40, 1993.

Berger, R.A., Seel, M.J., Schleiden, M., and Rubash, H.E.: Preventing Distal Voids During Cementation of the Femoral Components in Total Hip Arthroplasty. Journal of Arthroplasty, Vol. 8(3): 323, 1993.

Rubash, H.E., Berger, R.A., Britton, C.A., Nettrour, W.S., and Seel, M.J.: Avoiding Neurologic and Vascular Injury with Screw Fixation of the Tibial Component in Total Knee Arthroplasty. Clin. Orthop. 286:56, 1993.

Warner, JJP, Caborn, D.N.M., Berger, R.A., F.U., F.H. and Seel, M.J.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Journal of Shoulder and Elbow Surgery. Vol. 2(3): 115, 1993.

Fu, F.H., Seel, M.J., and Berger, R.A.: Relevant Shoulder Biomechanics. Operative Techniques in Orthopaedics. 1(2): 134, 1991.

Schenkman, M.L., Berger, R.A., Riley, P.O., and Hodge, W.A.: Whole Body Movements During Rising to Standing from Sitting. Journal of Physical Therapy, Vol. 70(10): 638, 1990.

Refereed Articles Accepted for Publication:

Berger, R.A., Seel, M.J., Wood, K., D'Antonio, J., and Rubash, H.E.: The Effect of a Centralizing Device on Cement Mantle Deficiencies and Initial Prosthetic Alignment in Total Hip Arthroplasty. Accepted for publication in Journal of Arthroplasty, 1996.

Miles, P., Kreashko, R.G., Pontior, J.P., and Berger, R.A.: Tensile Strength of a Ceramic Bracket: Mechanical Versus Chemical Preparation. Accepted for publication in Journal of the ADA, 1996.

Berger, R.A., Fletcher, F., Donaldson, T., Ray Wasielewski, R., Peterson, M., and Rubash, H.E.: A Dynamic Test to Diagnose Loose Uncemented Femoral Total Hip Components. Accepted for publication in Clin. Orthop., 1996.

Berger, R.A., Kull, L.R., Rosenberg, A.G., Galante, J.O.: Hybrid Total Hip Arthroplasty: Seven to Ten Year Results. Accepted for publication in Clin. Orthop., 1996.

Refereed Articles in Submission:

Berger, R.A., Crossett, L.S., Seel, M.J., and Rubash, H.E.: The Etiology of Isolated Patellofemoral Complication Following Total Knee Arthroplasty. Submitted to J. Bone Joint Surg., 1995.

Berger, R.A., Dowd, J.E., Doehring, T., and Rubash, H.E.: Improving Femoral Component Alignment and the Cement Column in Total Hip Arthroplasty Using Centralizing Devices. Submitted to Clin. Orthop., 1995.

Berger, R.A., Sotereanos, N.G., and Rubash, H.E.: Cementless Revision Total Hip Arthroplasty Using a Titanium Femoral Component With a Long Curved Stem and Non-Circumferential Proximal Fiber Mesh. To be Submitted Clin. Orthop., 1995.

Berger, R.A., Seel, M.J., Bonidie, M., Caborn, D.N.M., Harner, C.D., Fu, F.H.: The Effect of Cortical Burring on Suture Fixation Strength in Shoulder Repairs. To be Submitted to The American Orthopaedic Society for Sports Medicine.

Published Thesis:

Berger, R.A.: The Calibration and Use of a Real-Time Acquisition System for the Study of Human Kinematics. Massachusetts Institute of Technology: Thesis Publications, Department of Mechanical Engineering, 1985.

Invited Articles:

Petrera, P., Berger, R.A., Yaw, K., and Rubash, H.E.: Osteolysis in Aseptic Loosened Uncemented Total Hip Arthroplasty. American Academy of Orthopaedic Surgeons: "Orthopaedic Grand Rounds Case." Nov. 1993.

Fu, F.H., Seel, M.J., and Berger, R.A.: Normal Patellofemoral Biomechanics. In "The Patellofemoral Joint." Fox, J.M. (ed.), McGraw-Hill, New York, P49-62, 1993.

Fu, F.H., and Berger, R.A.: Anatomy, Biomechanics, and Diagnostic Methods in Glenohumeral Instability. Current Opinion in Orthopaedics, 2(5):607, 1991.

Berger, R.A., and Jacobs, J.J.: The "DRG" Hip Stem. Bulletin of the American Academy of Orthopaedic Surgeons, Vol. 44(1), 1996.

Other Articles:

Berger, R.A., Seel, M.J., Bonidie, M., and Rubash, H.E.: Improving Rotational Alignment of the Femoral Component in Revision Total Knee Arthroplasty. Pittsburgh Orthopaedic Journal. 2: 119, 1991.

Berger, R.A., Haines, T., Wood, K.B., Rudert, J., D'Antonio, J.A., and Rubash, H.E.: Improving the Femoral Alignment and Cement Uniformity in Total Hip Arthroplasty Using a Centralizing Device. Pittsburgh Orthopaedic Journal. 2: 112, 1991.

Berger, R.A., Seel, M.J., and Hodge, W.A.: Biomechanical Compensations Following Total Knee Replacement Surgery. Pittsburgh Orthopaedic Journal. 2: 116, 1991.

Seel, M.J., Berger, R.A., Britton, C.A., Nettrour, W.S., and Rubash, H.E.: Avoiding Neurologic and Vascular Injury with Screw Fixation of the Tibial Component in Total Knee Arthroplasty. Pittsburgh Orthopaedic Journal. 2: 25, 1991.

Caborn, DNM, Warner, J.J.P., Berger, R.A., Seel, M.J., and Fu, F.H.: The Dynamic Inter-Relationship of the Glenohumeral Ligaments. Pittsburgh Orthopaedic Journal. 3: 118, 1992.

Zhang, X, Berger, R.A., Miller, M.C., Doehring, T.C., Navalgund, Y.A., Crossett, L.S., and Rubash, H.E.: Patellofemoral Dynamics Before and After Total Knee Arthroplasty. Pittsburgh Orthopaedic Journal. 4: 90, 1993.

Sotearnos, N.G., Berger, R.A., Sotearnos, D.G., Rubash, H.E., Yaw, K.M., Schoedel, K.E., Thompson, W.H., and Herndon, J.H.: Orthotopic Osteochondral Transplantation of the Canine Proximal Femur. Pittsburgh Orthopaedic Journal. 4: 90, 1993.

Dowd, J.E., Berger, R.A., and Rubash, H.E.: A Clinical Comparison of Porosity Reduction Techniques in Cemented Total Hip Arthroplasty: Centrifugation Versus Vacuum Mixing. Pittsburgh Orthopaedic Journal. 4: 87, 1993.

Published Abstracts:

Berger, R.A., Riley, P.O. Mann, R.W., and Hodge, W.A.: Total Body Dynamics in Ascending Stairs and Rising from a Chair Following Total Knee Arthroplasty. Orthopaedic Transactions, Volume 12(2):419, 1988.

Berger, R.A., Schenkman, M.L., Riley, P.O., and Hodge, W.A.: The Chair Model and Its Advantages for Quantifying Human Functional Performance. Orthopaedic Transactions, Volume 13(2):275, 1989.

Berger, R.A., Elbaum, L.H., and Hodge, W.A.: Advantages in Total Body Performance of Unicompartamental Knee Replacement Over Total Knee Replacement. Orthopaedic Transactions, Volume 14(2):406, 1990.

Berger, R.A., Elbaum, L.H., and Hodge, W.A.: Clinically Predicting Dynamic Knee Performance Following Total Knee Replacement. Orthopaedic Transactions, Volume 14(2):504, 1990.

Berger, R.A., Elbaum, L.H., Riley, P.O., and Hodge, W.A.: Functional Performance Differences Between Unicompartamental and Total Knee Replacement. Orthopaedic Transactions, Volume 14(3):578, 1990.

Berger, R.A., Elbaum, L.H., Seel, M.J., Anderson, G.A., and Hodge, W.A.: The Effect of Unicompartamental Knee Replacement on Human Motion: Transactions of the Combined Congress of the International Arthroscopy Association and the International Society of the Knee Meeting, Toronto, Ontario, 1991.

Foucher, J.J., Kreashko, R.G., Pontior, J.P., and Berger, R.A.: Tensile Strength of a Ceramic Bracket: Bonding Versus Rebonding. Transactions of the Annual Meeting of the American Denial Association. Seattle, WA, 1991.

Berger, R.A., Seel, M.J., Crossett, L.S., Thompson, W.H., and Rubash, H.E.: Use of the Epicondylar Axis as a Reference for Rotation of the Femoral Component in Total Knee Arthroplasty. Orthopaedic Transactions, Volume 16(3):680, 1992.

Berger, R.A., Seel, M.J., Thompson, W.H., Nettrour, W.S., Britton, C.A., and Rubash, H.E.: Safe and Danger Zones for Screw Fixation of the Tibial Component in Total Knee Arthroplasty. Orthopaedic Transactions, Volume 16(3):755, 1992.

Segal, R., Saito, R., Berger, R.A., Cook, E., and Wolfson, S.: Spinal Constructs with Visible Light Curing Resin. Transactions of the 8th Annual Meeting of the Joint Section on Disorders of the Spinal and Peripheral Nerves, 1992.

Berger, R.A., Seel, M.J., Schleiden, M., Britton, C.A., and Rubash, H.E.: Avoiding Neurologic and Vascular Injury with Screw Fixation of the Tibial Component During Total Knee Arthroplasty. Orthopaedic Transactions, Volume 17(1):134, 1993.

Caborn, D.N.M., Warner, J.J.P., Berger, R.A., Seel, M.J., and Fu, F.H.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Orthopaedic Transactions, Volume 17(1):140, 1993.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: Determining the Rotational Alignment of the Femoral Components in Total Knee Arthroplasty Using of the Epicondylar Axis. Orthopaedic Transactions, Volume 17(2):427, 1993.

Dowd, J.E., Berger, R.A., and Rubash, H.E.: A Clinical Comparison of Cement Preparation Techniques: Centrifugation Versus Vacuum Mixing. Orthopaedic Transactions, Volume 17(2):427, 1993.

Berger, R.A., Seel, M.J., Schleiden, M., Britton, C.A., and Rubash, H.E.: Distal Femoral Cement Voids in Total Hip Arthroplasty: Causes and Prevention. Orthopaedic Transactions, Volume 17(30):1200, 1993.

Berger, R.A., Seel, M.J., Schleiden, M., Britton, C.A., Crossett, L.S., and Rubash, H.E.: Determination of Femoral Component Rotation in Total Knee Arthroplasty Using Computer Tomography. Orthopaedic Transactions, Volume 17(3):1174, 1993.

Berger, R.A., Seel, M.J., Schleiden, M., Britton, C.A., Crossett, L.S., and Rubash, H.E.: Computerized Tomographic Determination of the Normal Tibiofemoral Rotational Angle: A Guide to Tibial Component Rotational Alignment in TKA. Orthopaedic Transactions, Volume 17(3):1135, 1993.

Berger, R.A., Dowd, J.E., and Rubash, H.E.: The Benefits of Using a Polymethylmethacrylate Centralizing Device in Cemented Total Hip Arthroplasty. Orthopaedic Transactions, Volume 17(3):1175, 1993.

Berger, R.A., Seel, M.J., Britton, C.A., Crossett, L.S., and Rubash, H.E.: Component Malrotation Causing Patellofemoral Complications in Total Knee Arthroplasty. Orthopaedic Transactions, Volume 18(1):183, 1994.

Berger, R.A., Seel, M.J., Schleiden, M., Britton, C.A., Crossett, L.S., and Rubash, H.E.: Component Malrotation and Patellofemoral Complication After Total Knee Arthroplasty. Orthopaedic Transactions, Volume 18(4):1129, 1994.

Sotereanos, N.G., Berger, R.A., Sotereanos, D.G., Rubash, H.E., and Schoedel, K.E.: Vascularized Orthotopic Osteochondral Transplantation of the Canine Proximal Femur. Orthopaedic Transactions, Volume 18(4):1169, 1994.

Zhang, X., Berger, R.A., Miller, M.C., Seel, M.J., and Rubash, H.E.: Optimizing the Thickness of the Patella in Total Knee Arthroplasty. Orthopaedic Transactions, Volume 18(4):1236, 1994.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: The Etiology of Isolated Patellofemoral Failures Following Total Knee Arthroplasty. Orthopaedic Transactions, Volume 19(1):27 1995.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: The Role of Component Malrotation in Tibial Polyethylene Wear and Failure After TKA. Orthopaedic Transactions, Volume 19(2):527 1995.

Berger, R.A., Seel, M.J., and Rubash, H.E.: Clinical Advantages of Mounted Proximal and Distal Centralization. Orthopaedic Transactions, Volume 19(2):527 1995.

PRESENTATIONS

National and International Presentations:

Berger, R.A., Riley, P.O., Mann, R.W., and Hodge, W.A.: Total Body Dynamics in Ascending Stairs and Rising from a Chair Following Total Knee Arthroplasty. Presented at the 34th Annual Meeting of the Orthopaedic Research Society, Atlanta, Georgia, 1988.

Berger, R.A., Schenkman, M.L., Riley, P.O., and Hodge, W.A.: Advantages of Rising from a Chair to Quantify Human Performance. Presented at the 35th Annual Meeting of the Orthopaedic Research Society, Las Vegas, Nevada, 1989.

Berger, R.A., Schenkman, M.L., Riley, P.O. and Hodge, W.A.: Functional Performance Differences Between Unicompartamental and Total Knee Replacement. Presented at the 57th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1990.

Berger, R.A., Elbaum, L.H., Krebs, D.E., Riley, P.O., and Hodge, W.A.: Predicting Functional Performance from Clinical Measures Following Total Knee Arthroplasty Presented at the 36th Annual Meeting of the Orthopaedic Research Society. New Orleans, Louisiana, 1990.

Berger, R.A., Elbaum, L.H., Schenkman, M.L., and Hodge, W.A.: Functional Differences Following Unicompartamental and Total Knee Replacement. Presented at the 36th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, 1990.

Berger, R.A., Seel, M.J., Bonidie, M., Doyle, J.S., and Fu, F.H.: Strength of the Mitek Anchor in Shoulder Repairs. Presented at the Combined Congress of the International Arthroscopy Association and the International Society of the Knee Meeting, Toronto, 1991.

Berger, R.A., Elbaum, L.H., Seel, M.J., Anderson, G.A., and Hodge, W.A.: The Effect of Unicompartamental Knee Replacement on Human Motion. Presented at the Combined Congress of the International Arthroscopy Association and the International Society of the Knee Meeting, Toronto, Ontario, 1991.

Foucher, J.J., Kreashko, R.G., Pontior, J.P., and Berger, R.A.: Tensile Strength of a Ceramic Bracket: Bonding Versus Rebonding. Presented at the Annual Meeting of the American Dental Association. Seattle, WA, 1991.

Berger, R.A., Seel, M.J., Bonidie, M., Harner, C.D., and Fu, F.H.: Mitek Anchor Strength Characteristics Following Routine Cortical Burring. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, 1992.

Berger, R.A., Klein, A.H., Rodosky, M.W., Seel, M.J., Anderson, G.A., and Rubash, H.E.: The Mechanical and Histological Effects of Plasma Sprayed Hydroxyapatite Coating in a Canine Femoral Endoprosthesis Model. Presented at the 38th Annual Meeting of the Orthopaedic Research Society, Washington, D.C., 1992.

Caborn, D.N.M., Warter, J.J.P., Berger, R.A., Seel, M.J., and Fu, F.H.: Dynamic Capuloligamentous anatomy of the Glenohumeral Joint. Presented at the 38th Annual Meeting of the Orthopaedic Research Society, Washington, DC, 1992.

Warner, J.J.P., Caborn, D.N.M., Berger, R.A., and Fu, F.H.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, 1992.

Berger, R.A., Seel, M.J., Crossett, L.S., Thompson, W.H., and Rubash, H.E., Determining Rotational Alignment of the Femoral Component During Total Knee Arthroplasty Using the Transepicondylar Axis. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, 1992.

Berger, R.A., Seel, M.J., Thompson, W.H., Nettrour, W.S., Britton, C.A., and Rubash, H.E.: Safe and Danger Zones for Screw Fixation of the Tibial Component in total Knee Arthroplasty. Presented at the Annual Meeting of the Knee Society, Washington, D.C., 1992.

Berger, R.A., Seel, M.J., Nettrour, W.S., Britton, C.A., and Rubash, H.E.: Neurologic and Vascular Structures at Risk with Screw Fixation of the Tibial Component in Total Knee Arthroplasty. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, 1992.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: The Transepicondylar Axis as a Reference for Rotational Alignment of the Femoral Component in Total Knee Arthroplasty. Presented at the Annual Meeting of the Knee Society, Washington, DC, 1992.

Warner, J.J.P., Caborn, D.N.M., Berger, R.A., and Fu, F.H.: Capuloligamentous Anatomy of the Glenohumeral Joint: A Dynamic Model Using Arthroscopy and Radiography. Presented at the Annual Meeting of the American Shoulder and Elbow Surgeons, Washington, DC, 1992.

Segal, R., Saito, R., Berger, R.A., Cook, E., and Wolfson, S.: Spinal Constructs with Visible Light Curig Resin. Presented at the 8th Annual Meeting of the Joint Section on Disorders of the Spinal and Peripheral Nerves, Miami, FL, 1992.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: Determining the Rotational Alignment of the Femoral Component During Total Knee Arthroplasty Using the Transepicondylar Axis. Presented at the 23rd Annual Eastern Orthopaedic Society Meeting, Dorado, Puerto Rico, 1992.

Berger, R.A., Haines, T., Wood, K.B., Ruder, J., D'Antonio, J.A., and Rubash, H.E.: The Benefits of Using a Polymethylmethacrylate Centralizing Device in Total Hip Arthroplasty. Presented at the 23rd Annual Eastern Orthopaedic Society Meeting, Dorado, Puerto Rico, 1992.

Berger, R.A., Seel, M.J., Britton, C.A., Nettrour, W.S., and Rubash, H.E.: Avoiding Neurologic and Vascular Injury with Screw Fixation of the Tibial Component in total Knee Arthroplasty. Presented at the 23rd Annual Eastern Orthopaedic Society Meeting, Dorado, Puerto Rico, 1992.

Caborn, D.N.M., Warner, J.J.P., Berger, R.A., Seel, M.J., and Fu, F.H.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Presented at the 23rd Annual Eastern Orthopaedic Society Meeting, Dorado, Puerto Rico, 1992.

Berger, R.A., Dowd, J.E., Seel, M.J., Wood, K.B., D'Antonio, J.A., and Rubash, H.E.: The Benefits of Using a Polymethylmethacrylate Centralizing Device in Total Hip Arthroplasty. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 1993.

Berger, R.A., Seel, M.J., Britton, C.A., Leit, M., Crossett, L.S., and Rubash, H.E.: Computerized Tomographic Determination of the Normal Tibiofemoral Rotational Angle: A Guide to Tibial Component Rotational Alignment in Total Knee Arthroplasty. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 1993.

Berger, R.A., Seel, M.J., Britton, C.A., Crofford, T.W., Crossett, L.S., and Rubash, H.E.: The Determination of the Femoral Component Rotation in Total Knee Arthroplasty Utilizing Computerized Tomography. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 1993.

Berger, R.A., Seel, M.J., D'Antonio, J.A., and Rubash, H.E.: Distal Femoral Cement Voids in Total Hip Arthroplasty: Causes and Prevention. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 1993.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: Determining the Rotation Alignment of the Femoral Component in Total Knee Arthroplasty Using the Epicondylar Axis. Presented at the American Orthopaedic Association 26th Annual Resident's Conference, Seattle, WA, 1993.

Dowd, J.E., Berger, R.A., and Rubash, H.E.: A Clinical Comparison of Cement Preparation Techniques: Centrifuged Versus Vacuum Mixing. Presented at the American Orthopaedic Association 26th Annual Resident's Conference, Seattle, WA, 1993.

Fu, F.H., Caborn, D.N.M., Warner, J.J.P., and Berger, R.A.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Presented at the Combined Congress of the International Arthroscopy Association and the International Society of the Knee Meeting, Copenhagen, Denmark, 1993.

Warner, J.J.P., Caborn, D.N.M., Berger, R.A., Seel, M.J., and Fu, F.H.: Dynamic Capuloligamentous Anatomy of the Glenohumeral Joint. Presented at the Fifth International Conference on Shoulder Surgery, Paris, France, 1993.

Berger, R.A., Schleiden, M., Crossett, L.S., and Rubash, H.E.: Component Malrotation Causing Patellofemoral Complications in Total Knee Arthroplasty. Presented at the 1993 Annual Meeting of the Eastern Orthopaedic Association, Lake Buena Vista, FL, 1993.

Zhang, X., Miller, M.C., Berger, R.A., Crossett, L.S., Woo, S.L.-Y., and Rubash, H.E.: Accuracy in Establishment of Anatomical Coordinate System by Videography. Presented at the American Society of Mechanical Engineers' International Congress, Chicago, IL 1994.

Berger, R.A., Seel, M.J., Schleiden, M., Crossett, L.S., and Rubash, H.E.: Component Malrotation Causing Patellofemoral Complications in Total Knee Arthroplasty. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1994.

Berger, R.A., Zhang, X., Seel, M.J., Crossett, L.S., Miller, M.C., and Rubash, H.E.: Optimizing the Thickness of the Patella in total Knee Arthroplasty: An In Vitro Analysis. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1994.

Dowd, J.E., Berger, R.A., and Rubash, H.E.: Clinical Comparison of Cement Preparation Technique in Total Hip Arthroplasty: Centrifugation Versus Vacuum Mixing. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1994.

Berger, R.A., Seel, M.J., Britton, C.A., Crossett, L.S., and Rubash, H.E.: Component Malrotation Causing Patellofemoral Complications in Total Knee Arthroplasty. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1994.

Sotereanos, N.G., Sotereanos, D.G., Rubash, H.E., Berger, R.A., Schoedel, K.E., and Yaw, K.M.: Vascularized Orthotopic Osteochondral Transplantation of the Canine Proximal Femur. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, 1994.

Miller, M.C., Zhang, X., Berger, R.A., Doehring, T.C., Navalgund, Y.A., Crossett, L.S., and Rubash, H.E.: Patella Tracking Before and After Total Knee Arthroplasty. Presented at the 40th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, 1994.

Sotereanos, N.G., Sotereanos, D.G., Rubash, H.E., Berger, R.A., Schoedel, K.E., and Yaw, K.M.: Vascularized Orthotopic Osteochondral Transplantation of the Canine Proximal Femur. Presented at the 40th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, 1994.

Zhang, X., Miller, M.C., Berger, R.A., Crossett, L.S., and Rubash, H.E.: The effect of Patella thickness on patella loads before and after Total Knee Arthroplasty. Presented at the World Congress of Biomechanics, 1994.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: The Etiology of Isolated Patellofemoral Complications Following Total Knee Arthroplasty. Presented at the Eastern Orthopaedic Association 25th Annual Meeting. South Hampton, Bermuda, October 1994.

Zhang, X., Miller, M.C., Berger, R.A., Crossett, L.S., Woo, S.L.-Y, and Rubash, H.E.: The Effect of Patella Thickness on A-P Motion of the Tibia after Total Knee Arthroplasty. Presented at the 18th Annual Meeting of the American Society of Biomechanics, Columbus, OH, 1994.

Zhang, X., Miller, M.C., Berger, R.A., Crossett, L.S., Woo, S.L.-Y, and Rubash, H.E.: Effects of Scaled Body Weight on the Patellofemoral Forces and Patella Tracking. Presented at the 13th Annual Meeting of the Southern Biomechanical Engineering Society, Washington, DC, 1994.

O'Malley, D.F., Berger, R.A., and Conti, S.F.: A Retrospective Analysis of the Safety and Efficacy of Distal Tibial Bone Grafting. Presented at the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, 1995.

Berger, R.A., Seel, M.J., and Rubash, H.E.: Improving the Cementing Technique of the Femoral Stem in Total Hip Arthroplasty: A Comparison of Centralization Methods. Presented at the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, 1995.

Berger, R.A., Seel, M.J., Crossett, L.S., and Rubash, H.E.: The Role of Component Malrotation in Tibial Polyethylene Wear and Failure After Total Knee Arthroplasty. Presented at the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, 1995.

Regional Presentations:

Berger, R.A., Dowd, J.E., and Rubash, H.E.: The Benefits of a Centralizing Device in Total Hip Arthroplasty. Pennsylvania Orthopaedic Society Meeting, Bermuda, April 1993.

Berger, R.A., Seel, M.J., and Rubash, H.E.: Distal Femoral Cement Voids in Total Hip Arthroplasty: Causes and Prevention. Pennsylvania Orthopaedic Society Meeting, Pittsburgh, PA, November 1992.

Berger, R.A., Seel, M.J., Britton, C.A., Netteur, W.S., and Rubash, H.E.: Neurovascular Structures at Risk with Screw Fixation of the Tibial Component in Total Knee Arthroplasty. Pennsylvania Orthopaedic Society Meeting, Naples, FL, May 1992.

Seel, M.J., Berger, R.A., Bonidie, M., Crossett, L.S., and Rubash, H.E.: Using the Posterior Condylar Angle to Determine Rotation of the Femoral Component in Total Knee Arthroplasty. Pennsylvania Orthopaedic Society Meeting, Philadelphia, PA, November 1991.

Berger, R.A., Schenkman, M.L., Riley, P.O., and Hodge, W.A.: Kinematics of Rising from Sit to Stand. Presented at the Annual Meeting of the Massachusetts Chapter of the American Physical Therapy Association, Boston, MA, October 1988.

RESEARCH GRANTS

- 1990 Principal Investigator, "Avoiding Neurologic and Vascular Injury with Screw Fixation of the Tibial Component in Total Knee Arthroplasty." Upjohn, Inc.: \$1,500.
- 1991-1992 Principal Investigator, "Normal Patellofemoral Dynamics and the Role of the Patellofemoral Joint in Total Knee Arthroplasty." The Ferguson Foundation for Orthopaedic Research; \$10,000.
- 1992 Co-Investigator, "Normal Patellofemoral Dynamics and the Role of the Patellofemoral Joint in Total Knee Arthroplasty." Zimmer, Inc.; \$12,900.
- 1992 Co-Investigator, "Normal Patellofemoral Dynamics and Patellar Prosthesis Placement," Western Pennsylvania Arthritis Foundation; \$10,000.
- 1993 Principle Investigator, "The Patellar Prosthesis in Total Knee Arthroplasty," Awarded by University Orthopaedics Inc.; \$5,000.
- 1994 Co-Investigator, "Placement of the Patellar Prosthesis in Total Knee Arthroplasty: An In Vitro Analysis Using a Mechanical Knee Simulator," Zimmer, Inc.: \$19,800.
- 1994 Co-Investigator, "Effect of Component Placement on the Patellofemoral Joint in Total Knee Arthroplasty: VA Merit Review, Rehabilitation and Development Services; \$180,900.

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONAL ACTIVITIES

- 1985-Present American Medical Association
- 1989 Massachusetts Medical Society
- 1989-1995 Pennsylvania Medical Society