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Department of Plastic Surgery
2012 Annual Report

July 1, 2011 — June 30, 2012

Department of Plastic Surgery
Wexner Medical Center at The Ohio State University
Columbus, OH

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Plastic Surgery

Michael J. Miller, MD
Chair, Department of Plastic Surgery

The past year continued the trends started in 2007 of significantly increased productivity and growth for the Department of Plastic Surgery at the Wexner Medical Center at The Ohio State University. The introduction of new surgical techniques and development of state-of-the-art technologies, designed to provide the best care for our patients, has led to success measured in business growth and expansion of our faculty, staff, and services. Clinical success coupled with improvements in teaching and research has caused the Department’s reputation to grow stronger in every area of endeavor.

Outstanding patient care is the foundation of our mission to improve people’s lives by restoring disorders of physical appearance and function. In addition to restorative surgery for deformities caused by cancer, trauma, birth defects, and degenerative processes, we continue to offer state-of-the-art aesthetic surgery and non-surgical methods to help manage and control physical changes due to aging. Our guiding principle is to provide high quality, unique services that are fully integrated into a multidisciplinary environment within the Wexner Medical Center, including the University Hospital, University Hospital East, Ross Heart Hospital, James Cancer Hospital and Nationwide Children’s Hospital. Our surgical volumes, billings and revenues reached record levels again in fiscal year 2012. Patient satisfaction scores for both in-patient and out-patient care were at all-time highs. Some surgical techniques were performed this year for the first time ever at The Ohio State University. One example is robotic surgery. Our surgeons are among the first to use the surgical robotic for reconstructive surgical procedures in the operating room. We also established a comprehensive, multidisciplinary inpatient wound service to complement our well-established services in outpatient wound care and research. We have cooperative roles with the Division of Trauma and Critical Care in conducting the Burn Program and with the Department of Orthopedics in the Hand and Upper Extremity Center. Finally, our participation in the cancer program continues to be a foundation of our clinical, research, and educational programs. Our program at Nationwide Children’s Hospital continued to grow and obtained national recognition for pediatric plastic surgery. We are tightly integrated into the multidisciplinary effort to treat breast cancer in the Stephanie Spielman Comprehensive Breast Center. We participate actively in the sarcoma service and have an active role in helping to establish the new Comprehensive Skin Cancer Center. In short, by every measure the past year has been successful.
We successfully recruited two new members to the full-time faculty this year, increasing the number of faculty in our department to fifteen:

- Dr. Albert Chao joined our microsurgery team following his fellowship at MD Anderson.
- Dr. Sonu Jain was recruited to join our Hand and Upper Extremity Center.
- We are in the process of recruiting two more physicians, a burn specialist and an aesthetic director, further expanding the expertise and capability of Ohio State Plastic Surgery.

The OSU Department of Plastic Surgery is a full-service academic plastic surgery group of twelve practicing clinicians making it one of the largest plastic surgery programs in the nation. Our success in recruiting additional faculty members will help us realize our potential as a department at The Ohio State University Wexner Medical Center.

In order to support this growth in faculty, we have added several key staff members in administration and clinical to our organization. We will also be finalizing the addition of a new Clinic Manager and Human Resources Generalist.

Our mission remains to “restore, repair and make whole those parts which nature had given but fortune has taken away.” Our program’s primary objective is restoring wholeness to people suffering from physical deformities through integrated programs in patient care, education and research in the field of plastic surgery. Our vision is to foster and build partnerships with other academic disciplines and hospitals as well as our patients and the community to develop our program to become nationally and internationally renowned. Our faculty and staff have initiated outreach efforts all over the world, with travels to countries such as India, Taiwan, Kenya and Mexico.

As a result of our significant academic and clinical growth this year, we established our reconstructive breast surgery clinic at the Stephanie Spielman Comprehensive Breast Center. We also conduct outpatient care at our locations at Gowdy Field, Nationwide Children’s Hospital and Easton Town Center. The formalization of our Department status at the Ohio State University Wexner Medical Center makes us one of a handful of such programs in the country, and one of the largest. Department status has several advantages, not the least of which is enhanced recognition as an innovator in our field- regionally, nationally and internationally. We look to continue this momentum and represent the Ohio State University as a leader in the field of plastic surgery…moving from excellence to eminence.

Our priorities for the upcoming year include:

- Expand and improve our full range of services at The Ohio State University Wexner Medical Center. In particular, the new in-patient wound program will be a priority.
- Continuing to refine and innovate in our clinical care processes and strengthen our financial position.
- Actively recruit key faculty members, especially in burn and wound care, aesthetic surgery and medicine, and regenerative medicine research.
- Establish a multi-disciplinary effort to study the role of human appearance in psychosocial health. This center will study questions related to this topic and provide a full range of clinical services in aesthetic surgery and medicine.
- Strengthen our visibility in the community with an enhanced marketing program including maximizing multi- and social media resources.
• Establishing and formalizing collaborative clinical and research relationships with other institutions—nationally and internationally. A principal example is cooperative regenerative medicine research with Rice University in Houston, the University of Texas School of Dentistry, and Wake Forest Institute of Regenerative Medicine.

• Continue to work with our faculty at Nationwide Children’s Hospital to develop a leading program in pediatric plastic surgery and research.

• Expanding our basic and translational research programs in wound healing, biocomputation, regenerative medicine, and clinical science.

• Fostering academic development of each one of our current faculty.

Clinical services

Our clinical services continue to expand both in volume and scope.

Dr. Gregory Pearson continues to have a very active practice in General Plastic Surgery, particularly in facial trauma and Pediatric Plastic Surgery. He assumed all responsibility for performing surgery on patients through the Craniofacial Clinic at Nationwide Children’s Hospital upon Dr. Ruberg’s retirement and served well in this position. Dr. Pearson has accepted the position of Residency Program Director in 2012.

Dr. Pankaj Tiwari completed his fourth year here at Ohio State and he has continued to perform beyond our expectations. His clinical practice volume has grown such that he is at the top of our department. He has also grown in his management and leadership skills and has been an effective Clinical Affairs Director. Dr. Tiwari also acts as the lead advisor for our Communication and Marketing projects which includes our departmental website. At the University level, Dr. Tiwari represents the Department on the Faculty Council. He has also represented the Department and University internationally, with several trips to India.

Our Easton office location has become very successful under the leadership of Dr. Anne Taylor, who has now been a part of the Department’s faculty for four years. Dr. Taylor serves as the Aesthetic Director of our program as well as the Director of the Resident Cosmetic Clinic. Dr. Taylor also represents our Department and the University by serving on many different committees and leadership positions in local and national Plastic Surgery professional organizations. This year, Dr. Taylor led the effort to create an Aesthetic Fellowship, the first of its kind here at the University and we graduated our first Aesthetic Fellow, Dr. Myla Bennett.

Dr. James Boehmler has completed his third year with in the Department of Plastic Surgery. Dr. Boehmler is one of our five reconstructive microsurgeons and his clinical volumes have grown tremendously over this past year. Dr. Boehmler has contributed greatly to the Department by establishing our microsurgery laboratory and by serving as the Department’s Finance Director. In addition, he serves on several critical committees including OpTime and Epic which are crucial roles as these two systems were implemented in our Department in August 2009. Dr. Boehmler also serves the department as Vice Chair of Operations, as well as serving as our physician champion in coordinating the successful IHIS transition.

The Department has continued our strong alliance with Nationwide Children’s Hospital Plastic Surgery, which is under the direction of Dr. Richard Kirschner. Over the past year, nearly all of our full-time faculty members have provided general plastic surgery and clinical services at Children’s. OSU Plastic Surgery continues to work with Children’s Hospital to conduct two major multidisciplinary clinical programs. The Craniofacial Clinic has been staffed primarily this year by Dr. Gregory Pearson who has been assisted by Dr. Robert
Ruberg. This program has been very successful and continues to grow in patient volume. In addition, Dr. Gayle Gordillo has continued to direct the multidisciplinary Vascular Malformations Clinic that serves as a center for patient care as well as clinical and basic translational research.

We continued our collaboration with The Department of Orthopedics to operate the Microsurgery Training Center based at the multidisciplinary Hand & Upper Extremity Center. We also added an additional plastic surgery hand specialist. This will continue the tradition of collaboration that is encouraged here at Ohio State.

Research

Mirroring our achievements in clinical care, our talented faculty are expanding their activities in clinical, basic, and translational research.

Dr. Gayle Gordillo has been appointed as Vice Chair of Research for our Department, coordinating all basic, translational, and clinical research for Plastic Surgery. She has continued to develop her successful translational research programs in wound healing through the Comprehensive Wound Center at OSUWMC and hemangiomas through the Hemangioma and Vascular Malformations Clinic at Nationwide Children’s Hospital. She has completed the first year as principal investigator on her R01 grant from the National Institutes of Health and is recruiting human subjects at Nationwide Children’s Hospital as part of her R01 activities. Dr. Gordillo received a new award from NIH to study mastectomy reconstruction outcomes as part of a multicenter trial. She is mentoring Dr. James Boehmler, an Assistant Professor in the Department, who is included as a co-investigator on this project. Patients for the mastectomy reconstruction outcomes study are recruited through the James Cancer Center. Dr. Gordillo has received funding in collaboration with researchers in the Department of biomedical informatics from Academy Health, a subsidiary of the Agency for Healthcare Research and Quality (AHRQ), to disseminate their findings with regard to data integration and knowledge management in comparative effectiveness research. She also is part of a group of investigators who received funding from the Department of Defense to study alginate oligomers to treat infectious microbial biofilms. She serves as Director of Clinical Research in the Comprehensive Wound Center that currently has 5 active sponsored clinical trials, including 1 NIH sponsored translational research protocol. Dr. Gordillo has also been an integral part of the development of the new OSU Center for Regenerative Medicine.

Dr. Gordillo had her work presented at 4 national conferences over the past year. The presentation, “Wound Closure Rate Over Time in a Prospective, Randomized, Double-Blinded, Sham-Controlled, Multicenter Study of Shockwave Technology for the Treatment of Non-Healing Diabetic Foot Ulcers,” based on the results of a sponsored clinical trial was selected as best paper at the American Society of Plastic Surgeons national meeting in 2011. She served as an ad hoc reviewer for the Bioengineering, Technology, and Surgical Sciences study section for NIH. She also served on the scientific advisory board for O2 Insights, a company with OSU licensed technology, and played a critical role in getting the technology sold for commercial development.

Alok Sutradhar Ph.D. completed his first year as Assistant Professor in the Department. He specializes in computational biomechanics, mathematical modeling and surgery simulation also serves as a graduate faculty in the Department of Mechanical Engineering at OSU. He currently serves as co-PI on a grant from the National Science Foundation. His research group consists of: Diana Carrau, a Med 1 and Roessler Fellow for 2012,
Jaejong Park and Hyo Joon Bang, graduate students in mechanical engineering, and Nigma Mustafa, a senior undergraduate majoring in mechanical engineering.

He has been working on a number of projects which includes i) Breast Biomechanics, morphometry symmetry and reconstruction engineering, ii) Craniofacial Reconstruction Tissue Engineering using Topology Optimization, iii) Multi-scale modeling of blood flow and oxygen transfer in surgical flaps, iv) Origami folding, v) Cancer and Tumor Morphogenesis Modeling and vi) FEM Modeling of trachea stenosis. He has been collaborating with researchers from the Mathematical Bioscience Institute, the Department of Physics, Advanced Computing Center for the Arts and Design (ACCAD), Ohio Supercomputing Center (OSC), and OSU lung center.

He presented his research on biomedical design of segmental bone replacement as the invited keynote speaker in the 11th US National Congress on Computational Mechanics, in July 2011. He has given 4 other conference presentations. His work was featured in Live Science (NSF Media) and the Biomedical Computational Review (Published by Simbios, the NIH National Centers for Physics-Based Simulation of Biological Structures). He gave a one-day short course on Symmetric Galerkin Boundary Element Method in University of Minnesota, Twin Cities in the NSF workshop on Boundary Element Methods. He has served in 3 National Science Foundation proposal review panels this year and has organized symposiums as part of the American Society of Mechanical Engineers (ASME) Applied Mechanics and Materials Conference 2011 and American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress & Exposition 2011 meetings.

Dr. Sutradhar has also initiated an outreach activity with a local elementary school to promote science, technology, engineering and mathematics among school kids through interesting projects. He organized a “Spaghetti tower” competition for Grade 2 students in a local elementary school.

Dr. Ergun Kocak is an Assistant Professor and reconstructive microsurgeon in the Department of Plastic Surgery. Dr. Kocak has proven to be a tremendous asset to our Department as he is a capable clinician and a promising researcher. He is currently the principal investigator for a K12 Mentored Career Development Award from the National Institutes of Health that focuses on developing methods and applications for gene-modified plastic surgical flaps. Methodology developed from Dr. Kocak’s laboratory has been submitted to The Ohio State University Office of Technology and Licensing and a provisional patent application has been filed. These data were presented at the Annual Meetings of the American Society of Gene and Cell Therapy, Plastic Surgery Research Council, and the American Society of Reconstructive Microsurgery. A manuscript detailing this technology was recently published in Annals of Plastic Surgery.

Dr. Kocak is also PI for a human trial to compare CT angiograms to intraoperative perforator vessel anatomy in autologous DIEP flap breast reconstruction cases. A novel method to use armless navigation systems to facilitate the identification of perforator vessels has been developed as part of this work. This has been presented at the Ohio Valley Society of Plastic Surgery and was recently published in Plastic and Reconstructive Surgery Journal. As a result of this work, Dr. Kocak has been invited to author an editorial in the journal Expert Reviews of Medical Devices.
Dr. Kocak is enrolled as a participant in the OSU COM Center for Education and Scholarship’s Faculty Teaching and Scholarship Program. As part of this 15 month certificate program, he has recently begun a study to assess patient attitudes toward resident participation in outpatient consultations. This project is in the data collection phase at this time.

Dr. Kocak is also engaged in several collaborative projects. One is a recently IRB approved project that will use abdominoplasty and panniculectomy surgical specimens to develop a tissue perfusion technology based on radio-labeled nuclide imaging. Preliminary cadaver studies have shown great promise for this technology which has been submitted to the OSU Technology and Licensing Office for patent consideration. Dr. Kocak is also engaged in clinical, chart-review based projects with Dr. James McMahan, who is an OSU Department of Plastic Surgery Community Faculty member. One of these projects is focused on at the effects of breast augmentation on breast cup sizes and breast-based measurements and is the data-accrual phase. The second of these projects is a survey-based study to look at the relationship between cosmetic abdominoplasty surgery and urinary incontinence. Data collection for this study has been completed and the data is currently being analyzed.

Education

We made significant advances in our education program.

Under the direction of Dr. Gregory Pearson as Program Director, the Department initiated the 4th year of 6-year integrated residency program. The program has experienced unprecedented success in recruiting the very best match candidates from around the country and world.

The Department now offers four plastic surgery related fellowships per year. Two microsurgery fellows are joined by fellowships in aesthetics, pediatrics and hand.

Our education program’s reputation is getting national and international attention as a result of the positively reviewed presentations and participation of our residents and fellows in national and international conferences. Our trainees have visited and impacted practices around the country and the world, with outreach trips from Cleveland to Taiwan.

Closer to home, we have continued to enhance our communication with the community faculty through social events, a monthly community faculty meeting and a city-wide M&M conference as well as establishing a local professional society, Columbus Society of Plastic Surgeons.

Our internationally renowned visiting professors this year offered broad and diverse insights for our students through our weekly didactic resident conference. We also encourage our visitors to speak at the Columbus Society of Plastic Surgeons meeting, which highlights Ohio State and what our Department has to offer to the community.

In addition, Dr. Robert Ruberg served as the interim Vice Dean of Education for the Ohio State College of Medicine.
Mission

The mission of the Department of Plastic Surgery at the Ohio State University Wexner Medical Center is to restore wholeness to people suffering from physical deformities through integrated programs in patient care, education, and research in the field of Plastic Surgery.

Vision

We will be the world’s leading center for the practice, training, and advancement of Plastic Surgery.

Research

Basic Science Research

- Kocak, Ergun (Principle Investigator). Gene Directed Enzyme Prodrug Therapy in Gene Modified Muscle Flaps using a Syngeneic Tumor in an Immunocompetent Rat Model. Seed Grant from The American Cancer Society, $30,000.
- Kocak, Ergun (Principal Investigator). Gene Delivery Through the Use of Plastic Surgical Flap Procedures for Cancer Therapy. ACS/CCTS.

Clinical Research

- Gordillo, Gayle M. (Principal Investigator) A multicenter randomized, controlled trial examining cellular and tissue oxygenation levels related to various wound healing therapies- KCI USA, Inc. $124,878.
- Gordillo, Gayle M. (Principal Investigator) A Prospective, Multi-Center, Double Blind, Randomized Placebo Controlled Trial to Evaluate the Safety and Efficacy of ICXP007 in a Phase III trial with Four-Layer Therapeutic Compression, for the Treatment of Non-Infected Skin Leg Ulcers due to Venous Insufficiency. FDA Phase III, $195,304.
- Gordillo, Gayle M. (Co-investigator) Efficacy of Natural Vitamin E Tocotrienol on the Treatment of Surgical Scars – Randomized Double-Blinded Placebo Controlled Trial Designed to Assess the Qualitative Effects of Tocotrienol on Scar Healing Outcomes in Plastic Surgery Patients, $600,000.
- Gordillo, Gayle M. (Principal Investigator) Use of dermaPACE (Pulsed Acoustic Cellular Expression) device in conjunction with standard of care in the treatment of diabetic foot ulcers – SanuWave; FDA phase II; $73,506.
- Gordillo, Gayle M. (Principal Investigator) Macrophage-derived oxidants promote hemangioma growth; NIH; $633,043.
• Kocak, Ergun (Co-investigator). Distal Interphalangeal Joint Arthrodesis with the Herbert Headless Compression Screw: Outcomes and Complications in 67 Consecutively Treated Joints, Department Supported.

• Kocak, Ergun (Co-investigator). A Reliable Method for the Preoperative Estimation of Tissue to be Removed during Reduction Mammaplasty, Department Supported.

• Kocak, Ergun (Principle Investigator). Intraoperative Image-guided Navigation for Determining the Accuracy of Preoperative CT Angiography Used to Locate Perforators for DIEP Flap Breast Reconstruction, Department Supported.

• Kocak, Ergun (Principle Investigator). Breast Aesthetics: Objective Measures Based on 3-D Imaging, Department Supported.


**Translational Research**

• Baylis, Adriane (Principal Investigator) Predictors of Hypernasal Speech in 22q11.2 Deletion Syndrome, Nationwide Children’s Hospital Intramural, $24,989.

• Baylis, Adriane (Principal Investigator) Vocalizations in Infants with Cleft Palate, Cleft Palate Foundation, $5,000.

• Baylis, Adriane (Principal Investigator) Validity and Reliability of Visual Analog Scaling for Assessment of Speech Outcomes in Children with Repaired Cleft Palate, Ohio Speech-Language Hearing Association, $1,000.

• Gordillo, Gayle M. (Principal Investigator) Gene Expression Profiles in Healing and Non-Healing Wounds, Department Supported.

• Gordillo, Gayle M. (Co-Investigator) Mechanisms Regulating Wound Vascularization – a Pilot study for the Program Project Initiative Grant. Davis Heart and Lung Research Institute, $400,000.

• Gordillo, Gayle M. (Co-Investigator) Mechanisms Underlying Impaired Diabetic Wound Healing (R01). NIH/NIDDK, $1,200,000.

• Gordillo, Gayle M. (Co-Investigator) Extension of a Biobank Data Management Platform for Wound Healing, NIH, $1,906,250.

• Gordillo, Gayle M. (Co-Investigator) Human tissue distribution of orally supplemented natural Vitamin E Tocotrienol, Carotech, $384,000.

• Gordillo, Gayle M. (Co-Investigator) Mechanisms regulating wound angiogenesis, Davis Heart and Lung Research Institute, $100,000.

• Gordillo, Gayle M. Isolation of cells and proteins from wound fluid in patients treated with VAC dressings, Department Supported.

• Kocak, Ergun (Co-Investigator) Translational Training Grant in Experimental Therapeutics, NCI K12 Grant, $835,412.

• Miller, Michael and Sutradhar, Alok (Co-Principal Investigators) EAGER: Topological Optimization Methods for Designing Patient-Specific Large Craniofacial Segmental Bone Replacements, NSF CMMI Award # 1032884. $158,407

• Sutradhar, Alok (Principal Investigator) 3D Computer Simulation of Breast Reconstruction Surgery, Department Supported.
• Sutradhar, Alok (Principal Investigator) Mathematical Analysis of Breast Shape, Department Supported.
• Sutradhar, Alok (Principal Investigator) Measuring Viscoelastic Properties of Breast Skin, Department Supported.
• Sutradhar, Alok (Principal Investigator) Modeling Oxygen Transport in Surgical Flap, Department Supported.
• Sutradhar, Alok (Principal Investigator) Objective Evaluation of Breast Asymmetry, Department Supported.

**Accomplishments in Research**

• Gayle Gordillo, M.D. (Principal Investigator) Awarded: Mechanisms Regulating Hemangioendothelioma: A Plastic Surgeon’s Challenge (R01), NIH/NIGMS, $1,900,000.
• Gayle Gordillo, M.D. and James Boehmler, M.D. (Co-Investigators) Mastectomy Reconstruction Outcomes Consortium (MROC) - The primary goal of the study is to collect relevant, up-to-date information from the patient’s point of view on the relative advantages and disadvantages of the common options for breast reconstruction following mastectomy. Study results will help patients, providers, payers, and policy makers in determining which procedures work best for women recovering from breast cancer.
• Ergun Kocak, M.D. served as a grant reviewer on a national committee of the PSF for the 2011 funding cycle.
• Ergun Kocak, M.D. (Co-Investigator) Paul Cabresi Scholar for K12 Translational Training Grant in Experimental Therapeutics, NCI, $835,412.

**Clinical**

• **Hemangioma and Vascular Malformation Clinic** – established and directed by Dr. Gayle Gordillo. Provides comprehensive care to patients with hemangiomas and vascular malformations. This clinic is staffed by 4 physician providers which includes a dermatologist and 3 plastic surgeons. The volume of patients seen has also doubled in size and exceeds 400+ patient visits per year.

• **Inpatient Wound Consult Service** – established and directed by Dr. Gayle Gordillo and staffed by Drs. Melissa Kinder and Brian Porshinsky. This service provides expertise in the evaluation and management of inpatients with pressure ulcers, venous stasis ulcers or diabetic foot ulcers. This service sees about 200 patients per year.

• **The Craniofacial Clinic at Nationwide Children’s Hospital** is serviced by Dr. Gregory Pearson and Dr. Richard Kirschner.

• **Comprehensive Wound Center (CWC)** – Recognized by OSU Board of Trustees in 10/04. This center was developed by Dr. Gordillo and Dr. Chandan Sen to: 1) accelerate the translation of basic science
findings to clinical application. 2) encourage novel partnerships and multidisciplinary approaches to investigate complex problems related to wound repair and regeneration, and 3) use data to develop clinical best practices and become leaders in the field of tissue repair and wound management. The objectives and activities of the CWC adhere to NIH Roadmap guidelines. The CWC was used as a centerpiece in the recently funded OSU proposal for a Clinical and Translational Science award from NIH ($35,000,000).

Accomplishments in Clinical Care

- OSU Department of Plastic Surgery is now a full-service, comprehensive Plastic Surgery Program of thirteen physicians making it one of the largest Plastics Surgery Programs in the nation.

- Dr. James Boehmler performed the first lymphovenous bypass procedure at Ohio State.

- Plastic Surgery Inpatient Wound Consult Service is providing active inpatient service to the University and James patients.

- Plastic Surgery has played a leadership role in the establishment of the Stephanie Spielman Comprehensive Breast Center.

Education

Department Programs

- Plastic Surgery Residency Training Program is now in the 4th year of our integrated 6-year program. In 2011-2012 the department continued with the new program format. This is an exciting process for our program and is adding great deal of knowledge and experience for our residents. All our residents in the program passed their written exams. It is also consistent with changes in training which are mandated by the ACGME starting in 2010.

- The Plastic Surgery Fellowship Program grew to include fellowships in microsurgery, aesthetics, pediatrics and hand specialties.

- The OSU Department of Plastic Surgery hosted the Third Annual Ruberg Symposium in September 2011. This year’s symposium honored Dr. Robert Ruberg as well as focused on the emerging healthcare environment, relevant economic and business concepts pertaining to plastic surgery, and improving outcomes in plastic surgery of breast and aging faces. A highlight of this year’s program was a live surgery, simulcast directly to the conference and featuring live Q & A between program participants and the surgeons.
Accomplishments in Education

- OSU Plastic Surgery Residency Program was fully accredited with zero citations at the last ACGME site visit.
- Drs. Anne Taylor, James Boehmler and Michael Miller served as examiners for the American Board of Plastic Surgery examinations in 2011.
- OSU Plastic Surgery successfully supported four fellowships for the upcoming year: two microsurgery fellowships, a pediatric fellowship, an aesthetic fellowship and a hand fellowship in collaboration with the multidisciplinary Hand and Upper Extremity Center.
- Department successfully presented the 3rd Annual Ruberg Symposium, which offered up to 9 CME Credits.

List of Community Outreach Programs

- Dr. Pankaj Tiwari was a visiting Clinical Professor at Ganga Hospital in Coimbatore, India, 2011
- Dr. Michael Miller was a visiting professor and lecturer at Kijabe Hospital in Kenya, Africa, 2011
- Dr. Michael Miller was a visiting professor and lecturer at Chang Gung Memorial Hospital in Taipei, Taiwan, 2011
- Dr. Gayle Gordillo hosted a conference for the Comprehensive Wound Center at The Ohio State University.

Accomplishments in Community Outreach

- Cindy Koutz, PA spoke at a Breast Cancer Survivor meeting in Findlay, OH in 2011 and 2012
- Brian Porshinsky, M.D., “Burn Reconstruction” In the proceedings of the 37th Annual Meeting of the American Society of Plastic Surgical Nurses, Denver, Co, September 25, 2011
- Michael Miller, M.D., “Breast Reconstruction Offers More Choices for Breast Cancer Patients”. WDNU TV (NBC, South Bend, IN)- broadcast and online
- Gayle Gordillo, M.D., “Industrial Burn & Electrical Injury Management” – AES Webinar (Columbus, OH)
- Ergun Kocak, M.D., “Burn Management for the Combat Zone” – Society of Military Orthopedic Surgeons (San Diego, CA)
Faculty

Michael J. Miller, MD
Professor of Plastic Surgery; Chair, Department of Plastic Surgery
BS: University of Massachusetts, Boston, MA, 1978
MD: University of Massachusetts, Boston, MA, 1982
Specialty Training: General Surgery, Berkshire Medical Center, Pittsfield, MA; Plastic Surgery, The Ohio State University, Columbus, OH; Reconstructive Microsurgery, Tulane University, New Orleans, LA
Appointment: 2007
Specialty Interests: Reconstructive surgery for cancer patients
Research Interests: Tissue repair and regeneration and applications of advanced technology in clinical surgery

Adriane L. Baylis, PhD, CCC-SLP
Assistant Professor of Plastic Surgery
BS: Marquette University, Milwaukee, WI, 2001
PhD: University of Minnesota, Minneapolis, MN, 2007
Specialty Training: Speech, Hearing, Language Sciences
Appointment: 2011
Specialty Interests: Resonance disorders, 22q11 deletion syndrome

James H. Boehmler, IV, MD
Assistant Professor of Clinical Plastic Surgery
BA: University of Chicago, Chicago, IL, 1997
MD: University of Rochester, Rochester, NY, 2001
Specialty Training: Plastic Surgery, Georgetown University, Washington, D.C., 2007; Reconstructive Microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, TX, 2008
Appointment: 2008
Specialty Interests: Oncologic reconstructive surgery

Albert Chao, MD
Assistant Professor of Clinical Plastic Surgery
BS, University of Michigan, Ann Arbor, MI 2001, Biochemistry
MD, University of Chicago, Pritzker School of Medicine, Chicago, IL, 2005
Specialty Training: Residency in Plastic Surgery, Washington University, St. Louis, MO; Fellowship in Microvascular Reconstructive Surgery, M.D. Anderson Cancer Center, Houston, TX.
Appointment: 2011
Specialty Interests: Cancer and trauma reconstruction, microsurgery, free flap (DIEP, TRAM, SIEA) and implant based breast reconstruction.
Research Interests: Patient outcomes, technology in plastic surgery
Gayle M. Gordillo, MD
Associate Professor of Plastic Surgery
**BA:** Stanford University, Stanford, CA, 1984  
**MD:** The Ohio State University, Columbus, OH, 1990  
**Specialty Training:** Plastic Surgery, The Ohio State University, Columbus, OH, 1999  
**Appointment:** 1999  
**Specialty Interests:** Burns, complex wounds  
**Research Interests:** Angiogenesis

Richard Kirschner, MD
Professor of Clinical Plastic Surgery  
**BA:** University of Miami, FL, 1985  
**MD:** University of Miami School of Medicine, FL, 1989  
**Appointment:** March, 2010  
**Specialty Interests:** Craniofacial Disorders and Cleft Lip  
**Previous Appointment:** Director of Cleft Palate Program and Director of Research for Plastic Surgery, The University of Pennsylvania School of Medicine and The Children’s Hospital of Philadelphia, Philadelphia, PA

Ergun Kocak, MD
Assistant Professor of Plastic Surgery  
**BA:** University of Michigan, 1996  
**MD:** The Ohio State University College of Medicine, Columbus, OH, 2000  
**Specialty Training:** Plastic Surgery, The Ohio State University, Columbus, OH, 2008; Fellowship in Reconstructive Microsurgery, MD Anderson Cancer Center, 2009  
**Appointment:** August, 2009  
**Specialty Interests:** Oncologic Reconstructive Surgery

Gregory D. Pearson, MD
Assistant Professor of Clinical Plastic Surgery  
**BS:** University of Illinois, Chicago, IL, 1994  
**MD:** The Ohio State University, Columbus, OH, 1998  
**Specialty Training:** Plastic Surgery, The Ohio State University, Columbus, OH, 2004; Fellowship in Craniofacial Surgery, IUPUI, Indianapolis, IN, 2005  
**Appointment:** July 2005  
**Specialty Interests:** Craniofacial Disorders
Robert L. Ruberg, MD
Professor of Plastic Surgery

BA: Haverford College, 1963;
Specialty Training: Hospital of the University of Pennsylvania
Appointment: 1975
Specialty Interests: breast surgery; children’s plastic surgery
Research Interests: plastic surgery education, curriculum development

Michael Ruff, MD
Clinical Associate Professor of Orthopedics
BA: The Ohio State University, Columbus, OH, 1974
MD: The Ohio State University, Columbus, OH, 1979
Specialty Training: Plastic Surgery, The Ohio State University, Columbus, OH, 1984; Hand/Microsurgery, University of Louisville, Louisville, KY, 1985
Appointment: 2009

Maya Spaeth, MD
Assistant Professor of Clinical Plastic Surgery
BSc: University of British Columbia, 1990–92, 1993–95
MD: University of Calgary, 1997 – 2000
Specialty Training: Plastic Surgery at Ohio State University Hospital, July 2002-June 2007; Hand fellowship at Baylor College of Medicine, July 1st, 2007-June 30th, 2008
Appointment: May, 2010
Specialty Interests: Microsurgery, Pediatric Hand Surgery

Alok Sutradhar, PhD.
Assistant Professor of Plastic Surgery
BS: Bangladesh University of Engineering and Technology, Bangladesh, 1995
MS: Bangladesh University of Engineering and Technology, Bangladesh, 1999
PhD: University of Illinois at Urbana-Champaign, 2005
Specialty Training: Postdoctoral Research Fellow: MD Anderson Cancer Center, 2006; Postdoctoral Researcher: Ohio State University, 2007-2010
Appointment: 2011
Specialty Interests: Patient-specific modeling for bio-mechanical problems, topology optimization for designing craniofacial bone replacements, breast biomechanics
Research Interests: Modeling of oxygen transport and blood flow in reconstructive surgery, breast biomechanics, morphometry and aesthetics, cancer modeling
Anne Taylor, MD
Associate Professor of Clinical Plastic Surgery
**BS:** Dennison University, Granville, OH, 1986  
**MD:** The Ohio State University College of Medicine, Columbus, OH, 1990  
**Specialty Training:** Plastic Surgery, The Ohio State University, Columbus, OH, 1996  
**Appointment:** May, 2006  
**Specialty Interests:** Aesthetic Surgery  
**Previous Appointment:** Founder, Anne Taylor Plastic Surgery Inc., Columbus, OH

Pankaj Tiwari, MD
Assistant Professor of Clinical Plastic Surgery  
**BA:** Harvard University, Boston, MA, 1995  
**MD:** New York University School of Medicine, 2000  
**Specialty Training:** Plastic Surgery, Baylor College of Medicine, Houston, TX, 2006; Fellowship in Reconstructive Microsurgery, MD Anderson Cancer Center Houston, TX, 2007  
**Appointment:** August, 2007  
**Specialty Interests:** Aesthetics and Reconstructive Microsurgery

**Faculty Departures**

- Brian Janz, M.D., Assistant Professor of Clinical Plastic Surgery  
- Melissa Kinder, M.D., Assistant Professor of Plastic Surgery  
- Brian Porshinsky, M.D., Assistant Professor of Plastic Surgery

**Emeritus Faculty**

Ronald B. Berggren, M.D., Professor Emeritus of Plastic Surgery  
**B.A.:** Johns Hopkins University, 1953;  
**M.D.:** University of Pennsylvania School of Medicine, 1957.
Clinical Faculty

Haroon A. Aziz, M.D., Clinical Assistant Professor of Plastic Surgery
F.Sc.: Forman Christian College, West Pakistan, 1965
M.B.B.S.: King Edward Medical College, West Pakistan, 1970.

Arthur G. Bing, M.D., Clinical Assistant Professor of Plastic Surgery
M.D.: Pajaran University Bandung, Indonesia, 1965

James W. Ferraro, M.D., Clinical Associate Professor of Plastic Surgery
B.S.: Western Reserve, 1961
D.D.S.: Western Reserve, 1963
M.D.: The Ohio State University, 1967

Greg Holland, M.D., Clinical Instructor of Plastic Surgery
B.S.: Ohio University, 1983
M.D.: The Ohio State University, 1987

Robert S. Houser, D.O., Clinical Instructor of Plastic Surgery
B.S. The Ohio State University, 1993
D.O. Ohio University, 1997

Jason Lichten, M.D., Clinical Assistant Professor of Plastic Surgery
B.A.: Brandeis University, 1993
B.S.: University of Pennsylvania, 1994
M.D.: Jefferson Medical College, 1998

James D. McMahan, M.D., Clinical Instructor of Plastic Surgery
B.S.: University of Oregon, 1979
M.D.: Oregon Health Sciences University, 1983

Gregory E. Morrison, M.D., Clinical Assistant Professor of Plastic Surgery
B.A.: Princeton University, 1976
M.D.: Duke University Medical School, 1979
David S. Postlewaite, M.D., Clinical Assistant Professor of Plastic Surgery  
B.A.: Williams College, 1963  
M.D.: The Ohio State University, 1967

Timothy A. Treece, M.D., Clinical Instructor of Plastic Surgery  
B.S.: The Ohio State University, 1979  
M.D.: The Ohio State University, 1982

Susan D. Vasko, M.D., Clinical Instructor of Plastic Surgery  
B.S.: The Ohio State University, 1979  
M.S.: The Ohio State University, 1980  
M.D.: The Ohio State University, 1986

Rafael E. Villalobos, D.O., Clinical Assistant Professor of Plastic Surgery  
B.S.: University of Maryland, 1985  
M.Sc.: University of Maryland, 1987  
D.O.: West Virginia School of Osteopathic Medicine, 1991

John K. Wakelin, M.D., Clinical Instructor of Plastic Surgery  
B.A.: Xavier University, Cincinnati, OH 1996  
M.D.: The Ohio State University, Columbus, OH 2000
Residents

Jonathan Yang, M.D.
Resident PGY5
B.A.: University of California, Berkeley, Berkeley, CA, 2002
M.D.: Drexel University, Philadelphia, PA, 2007

Maakan Taghizadeh, M.D.
Resident PGY5
B.S.: James Madison University, Harrisonburg, VA, 2000
M.D.: University of Maryland, Baltimore, MD, 2006

Allison McAnneny, M.D.
Resident PGY5
B.A.: Colby College, Waterville, ME, 2003
M.D.: Penn State University, Happy Valley, PA, 2007

Theodore Nagel, M.D.
Resident PGY4
B.A.: St. Olaf College, Northfield, MN, 2004
M.D.: Northwestern University, Evanston, IL, 2008

Meghan Nadeau, M.D.
Resident PGY4
B.S.: University of Mississippi, Lafayette, MS, 2004
M.D.: University of Kentucky, Lexington, KY, 2008

Russell Hendrick, M.D.
Resident PGY4
B.S.: Louisiana State University, Baton Rouge, LA, 2001
M.D.: Louisiana State University, Baton Rouge, LA, 2008

Joseph Brown, M.D.
Resident PGY3
B.S.: West Virginia University, Morgantown, WV, 2004
M.D.: New Jersey Medical School, Newark, NJ, 2009

Tyler Angelos, M.D.
Resident PGY3
B.S.: Brigham Young University, Provo, UT, 2005
M.D.: Wright State University, Dayton, OH, 2009

John Hulsen, M.D.
Resident PGY2
M.D.: Southern Illinois University, Carbondale, IL, 2010

Justin Harper, M.D.
Resident PGY2
B.S.: Weber State University, Ogden, UT, 2006
M.D.: Ohio State University, Columbus, OH, 2010

Ibrahim Khansa, M.D.
Resident PGY1
B.S.: University of Wisconsin, Madison, WI, 2007
M.D.: Harvard University, Boston, MA, 2011

Michelle Coriddi, M.D.
Resident PGY1
B.S.: Syracuse University, Syracuse, NY, 2006
M.D.: University of Rochester, Rochester, NY, 2011
Fellows

Fred Durden, M.D., Fellow
Reconstructive Microsurgery
B.S.: Morehouse College,
Atlanta, GA, 2000
M.D.: Morehouse College,
Atlanta, GA, 2004

Matthew Talarczyk, M.D., Fellow
Reconstructive Microsurgery
B.S.: University of Wisconsin,
Madison, WI, 1990
M.D.: University of Wisconsin,
Madison, WI, 1998

Myla Bennett, M.D., Fellow
Aesthetic Surgery
B.S.: University of Michigan,
Ann Arbor, MI, 2001
M.D.: Ohio State University,
Columbus, OH, 2006

Peer Reviewed Articles


- Nosrati N, Chao AH, Chang DW, Yu P. Lower Extremity Reconstruction with the Anterolateral Thigh Flap. *J Reconstr Microsurg*. 2012 May;28(4):227-34; PMID: 22399252


Abstracts


Books


- Miller, SH; Gosain, A; Gurtner, GC; Gutowski, KA; Ruberg RL; Salisbury, RE; Smith, DJ Jr., The Yearbook of Plastic and Aesthetic Surgery. Philadelphia, PA, USA: Elsevier Mosby; 2011.

Book Chapters


Visiting Professorships

- Dr. Pankaj Tiwari was a Visiting Clinical Professor at Ganga Hospital in Coimbatore, India, 2011

- Dr. Michael Miller was a Visiting Professor for the Duke Flap Course, 2011

- Dr. Michael Miller was on faculty at the World Society of Reconstructive Microsurgeons meeting and pre-meeting in Romania and Hungary, 2011

- Dr. Michael Miller was a Visiting Professor and lecturer at Kijabe Hospital in Kenya, Africa, 2011

- Dr. Michael Miller was a Visiting Professor and lecturer at Chang Gung Memorial Hospital in Taipei, Taiwan, 2011
Dr. Michael Miller served on the faculty for the Mayo Symposium in Reconstructive Surgery, Mayo Clinic, Rochester, MN June, 2012

**International Presentations**

- Dr. Pankaj Tiwari was a Visiting Clinical Professor at Ganga Hospital in Coimbatore, India, 2011
- Dr. Michael Miller was a Visiting Professor and lecturer at Kijabe Hospital in Kenya, Africa, 2011
- Dr. Michael Miller was a Visiting Professor and lecturer at Chang Gung Memorial Hospital in Taipei, Taiwan, 2011
- Dr. Michael Miller was on faculty at the World Society of Reconstructive Microsurgeons meeting and pre-meeting in Romania and Hungary, 2011

**National Presentations**

Adrian Baylis, Ph.D., CCC-SLP and Richard Kirschner, M.D.
Motor Speech deficits in 22q11.1 Deletion Syndrome. July 2012
International 22q11.2 Deletion Syndrome Conference,
Orlando, FL

Adrian Baylis, Ph.D., CCC-SLP, Gregory Pearson, M.D., and Richard Kirschner, M.D.
Hypernasal Speech in the Presence of “adequate” Velopharyngeal July 2012
Closure in 22q11.2 Deletion Syndrome: A Case Report,
International 22q11.2 Deletion Syndrome Conference,
Orlando, FL

Adrian Baylis, Ph.D., CCC-SLP and Richard Kirschner, M.D.
Quantitative Nasopharyngoscopic Assessment of Velopharyngeal July 2012
Closure in 22q11.2 Deletion Syndrome: Paper Presentation,
International 22q11.2 Deletion Syndrome Conference,
Orlando, FL

Adrian Baylis, Ph.D., CCC-SLP and Richard Kirschner, M.D.
An Interdisciplinary Approach for a 22q Center: Paper Presentation, July 2012
International 22q11.2 Deletion Syndrome Conference,
Orlando, FL
Adrian Baylis, Ph.D., CCC-SLP and Richard Kirschner, M.D.
Cryptotia in 22q11.2 Deletion Syndrome: A Case Report and Review of Common External Ear Anomalies, International 22q11.2 Deletion Syndrome Conference, Orlando, FL

July 2012

Albert Chao, M.D.
The Effect of Neoadjuvant versus Adjuvant Irradiation on Microvascular Free Flap Reconstruction in Sarcoma Patients, American Society for Reconstructive Microsurgery Annual Meeting, Las Vegas, NV.

Jan 2012

Albert Chao, M.D.
Microsurgical Reconstruction of Composite Scalp and Calvarial Defects in Patients with Cancer: A 10-Year Experience, American Society for Reconstructive Microsurgery Annual Meeting, Las Vegas, NV.

Jan 2012

Gayle M. Gordillo, M.D
Reconstruction After Electrical Injury; AES Webinar to international offices “Industrial Burn & Electrical Injury Management” Workshop, Columbus, OH.

Nov 2011

Gayle M. Gordillo, M.D
“When to Use Flaps or Grafts”, Society for Advanced Wound Care Annual Fall Meeting, Las Vegas, NV.

Oct 2011

Gayle M. Gordillo, M.D
Wound Closure Rate Over Time in a Prospective, Randomized, Double-Blinded, Sham-Controlled, Multicenter Study of Shockwave Technology for the Treatment of Non-Healing Diabetic Foot Ulcers. American Society of Plastic Surgeons, Denver, CO – voted Best Paper at ASPS meeting.

Sept. 2011
Gayle M. Gordillo, M.D
From Strawberries to Blueberries: Translational Approaches to Hemangioma Management, Bench to Outcomes Seminar Series. Nationwide Children’s Hospital Columbus, OH.

Ergun Kocak, M.D.
Burn Management for the Combat Zone, Society of Military Orthopedic Surgeons, San Diego, CA

Alok Sutradhar, Ph.D.
Research on Biomedical Design of Segmental Bone Replacement (Keynote Speaker), 11th US National Congress on Computational Mechanics, Minneapolis, MN

## Miscellaneous Presentations

Ergun Kocak, M.D.
Microsurgical Breast Reconstruction, Nebraska Medical Center Grand Rounds

Michael J. Miller, M.D.
Lecturer, “Breast Survivorship Symposium” The Ohio State University Comprehensive Cancer Center, Arthur G. James Cancer Hospital & Solove Research Institute Columbus, OH

Brian Porshinsky, M.D.
Burn Reconstruction. In the proceedings of the 37th Annual Meeting of the American Society of Plastic Surgical Nurses Denver, Co

Anne Taylor, M.D.
“The Best of HOT Topics” 2011 Ruberg Symposium Course Director and Instructor Columbus, Ohio

Pankaj Tiwari, M.D. and Ergun Kocak, M.D.
“Live Surgery: Finesse in Fat Transfer” 2011 Ruberg Symposium Columbus, Ohio
Distinguished Visitors

**Foad Nahai, M.D.**
PSF Visiting Professor
“Facelifts”
“Complications of Facelifts”
“Neck Rejuvenation”
“The Dissatisfied Patient”
May 24 & 25, 2012

**Peter M. Nthumba, M.D.**
Visiting Professor from Kijabe Hospital, Kenya
January 18-20, 2012

**Warren Schubert, M.D.**
ASMFS Visiting Professor
“Mandibular Trauma and Reconstruction”
“Gunshot Wounds to the Face”
“Orbital Trauma and Reconstruction”
“Nasal-Orbital Ethmoid Fractures”
“Professionalism and Becoming Active in National Organizations”
October 13 & 14, 2011

**James Ferraro, M.D.**
Keynote Speaker, 2011 Ruberg Symposium
September 9 & 10, 2011