



*New Models of Care
Innovating to help meet the challenges
of how women's healthcare
is delivered in the future*

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DEPARTMENT OF OB/GYN/RS



Message from Dr. Hogge

For a chair of any department, one of the best times of the year is that transition from one academic year to the next. It provides the

opportunity to reflect on the past year and to envision the coming year. In this newsletter, which focuses on our world-class ultrasound division, we will give you a brief taste of our accomplishments and a look to the future.

We are proud that our clinical programs in gynecology are ranked among the best in the country – now 4th in the recent U.S. News & World Report rankings. Equally important, U.S. News ranks the University of Pittsburgh 4th among U.S. medical schools for its education in women's health.

We now have over 50 million dollars of grant support bolstering the cutting-edge research for which our investigators have gained national and international recognition. This level of grant funding makes us the number one funded OB/GYN department in the country.

Some key grants received during this last year were 5 million dollars from the Gates Foundation for Sharon Achilles to study the effect of various contraceptive methods and the response of the vagina to HIV-target cells, 2.5 million dollars to Yoel Sadovsky from NICHD to investigate how human trophoblasts confer viral resistance, and 1.5 million dollars to Judy Yanowitz from NIGMS to characterize the systems necessary for normal meiotic cross-over.

Honoring this success, we have no plans to rest on our laurels. We continue to actively recruit new academic faculty to strengthen and grow our research and education missions. At the same time, we are recruiting outstanding clinicians to continue to provide world-class care to patients throughout Western Pennsylvania and beyond.

Finally, as we look to the future, we recognize the need to develop new models of care to meet the challenges of healthcare reform. Our ultrasound division, as well as maternal-fetal

medicine, has been leaders in this arena. Their tele-imaging and tele-medicine programs are the types of innovations that will help us meet the challenges of how women's healthcare is delivered in the future.

In addition, members of the Department are leading initiatives to develop hysterectomy clinical pathways, protocols for instituting the new Pap smear guidelines, and bundled care packages.

As a department that integrates community practices with traditional academic specialists, we are seeking ways to provide the best care in the most efficient and timely way to our patients.

I hope you enjoy this snapshot of the Department and I invite all of you to Alumni Day activities, October 3 and 4. I look forward to having you back in Pittsburgh.

W. Allen Hogge, MD

Milton Lawrence McCall Professor & Chair
Department of Obstetrics, Gynecology &
Reproductive Sciences

Magee Alumnus Reminisces About the Dawn of Diagnostic Ultrasounds in OB/GYN

Rudy E. Sabbagha, MD, was thoroughly intrigued with the unprecedented idea of using diagnostic ultrasound imaging in obstetrics and gynecology.

Born in Beirut, Lebanon, Dr. Sabbagha traveled to Magee-Womens Hospital to perform his residency from 1965 to 1968. He chose Magee because of his special 'soft spot' for Pittsburgh. His grandfather started the first Greek Orthodox Church in Pittsburgh. And his very good friend from the American University of Beirut did his oncology fellowship at Magee and highly recommended the residency program.

While preparing for his oral board examinations, Dr. Sabbagha read an article written by Professor Ian Donald from the University of Glasgow about the fascinating concept of using diagnostic ultrasound imaging in oby/gyn patients. Dr. Sabbagha was intensely interested with this concept. He wrote a letter to Professor Donald asking him if he could join him in Glasgow to work with him in this revolutionary field.

To his surprise, Dr. Sabbagha learned that Professor Donald had been a visiting professor at Magee in the early 1960s and was quite impressed with the hospital and its residency program. Dr. Sabbagha was elated when Drs. Hayashi and Hutchinson arranged the funding for him to perform his postgraduate fellowship at the University of Glasgow under the direction of Professor Donald.

After completing his fellowship, Dr. Sabbagha accepted an offer to serve as Assistant Professor at Magee in 1970. He remained affiliated with Magee for five years.



Rudy E. Sabbagha, Resident Class of 1968

Intrigued

The fascination of ultrasound imaging stems back to Dr. Sabbagha's early days in medicine. While serving as senior resident at Magee, Dr. Sabbagha encountered some frustrations in obstetric and gynecologic practices.

One of those frustrations was the inability to determine a pregnant woman's exact number of gestation weeks. Dr. Sabbagha recalls, "One particular case involved a pregnant woman who was between 38 and 42 weeks gestation. As was

routinely done during the 1960s and 1970s, an amniocentesis had to be performed to make a determination. However, it was not the best scenario since amniocenteses posed risks to the fetus. Also frustrating was the inability to determine if a pregnant woman presenting with a larger than normal uterus had a multiple pregnancy, or if there was an abnormal increase in the amniotic fluid or if she had a large ovarian cyst, or multiple myomas." Little did he know at that time that a breakthrough would soon be on the horizon.

Pursuing the Dream

As Dr. Sabbagha learned during his fellowship in Glasgow, the idea of using ultrasound came to Professor Donald while serving in the British Navy and using SONAR to determine the location of submarines. He believed this same concept could be used in pregnant woman to locate and view the unborn baby.

His dream and vision became his passion. Because his idea was viewed as 'overreaching', he was denied funding to pursue his dream to develop the first ultrasound machine.

Continued on page 7

Division of Obstetric and Gynecologic Ultrasound

The Division of Obstetrical and Gynecologic Ultrasound has expanded its reach from multiple locations in Allegheny County to locations in Butler, Washington, and Erie. The challenges in medical practice have provided us with the opportunity to develop a new model for patient care that seeks to expand our patient base, while improving ultrasound services in the community.

The current model for ultrasound services includes a program of sonographer training either at Magee or on-site; the establishment of specific protocols for each exam; installation and training in our robust Ultrasound Information System; Stentor transmission of images to Magee; and around-the-clock availability for the interpretation and preliminary report generation by our staff.

Current Service Locations

- Magee-Womens Hospital and affiliates, Pittsburgh, PA
- Mercy Hospital, Pittsburgh
- Private practice location in Butler, PA
- Hamot Medical Center, Erie, PA
- Washington Hospital, Washington, PA
- Women's Imaging North, Pittsburgh

Patient Satisfaction

Improving patient satisfaction with their ultrasound experience has been a major goal for the division over the past two years. Despite our increasing volumes, we have managed to markedly improve the percent of patients whose exam is started within 30 minutes of the patient's arrival in the department.



Smiling fetus at 33 weeks.

Education Programs

At Magee, we have created extensive educational opportunities for the following professionals:

- Maternal Fetal Medicine fellows
- Obstetrics, Gynecology and Reproductive Sciences residents
- Radiology residents
- Family Planning fellow
- Women's Imaging fellow
- Genetics fellow
- Sonographer students from Sanford Brown and CCAC

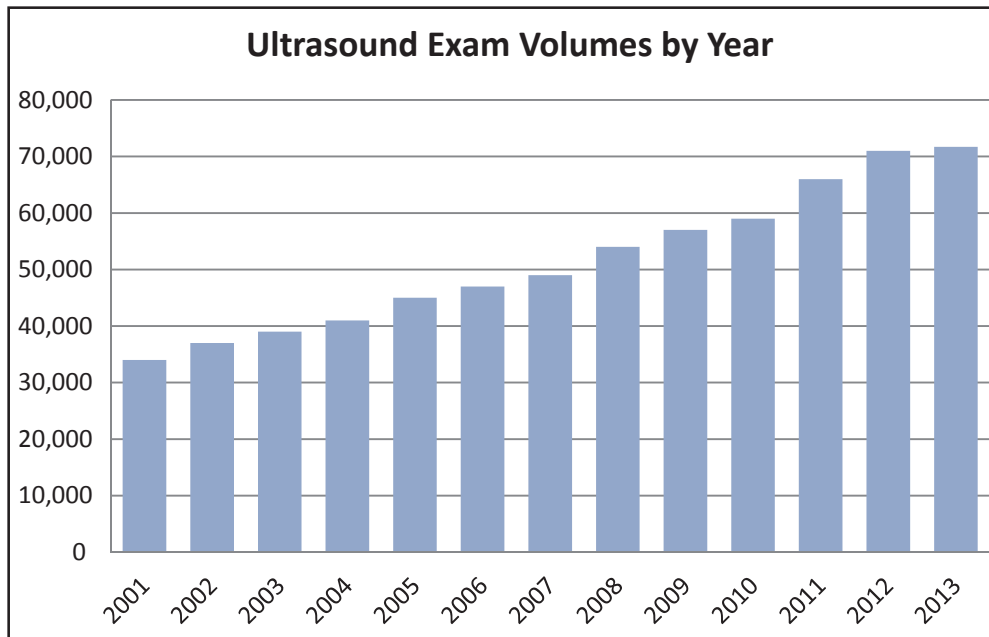
"The division has a wide range of educational opportunities that spans the breath of obstetrical and gynecologic ultrasound—from a hands-on-scanning experience to the review of complex cases with our staff in one-on-one-sessions."

Quality Improvement

The department has identified a need for a tool to assist with quality improvement. Currently, division members evaluate a large number of patients, but only sporadically receive feedback on the accuracy of their diagnosis.

This is a problem because appropriate follow-up information plays a critical role in developing a physician's diagnostic acumen and connecting diagnosis accuracy with clinical outcomes is important for creating teaching material. The integration of outcomes is also vital for sonographically based research.

To that end, the division is working with Magee-Womens Hospital to establish a web-based, case-tracking system with an electronic medical record aggregation and search tool. It is hoped that if such a tool becomes operational, it will provide systematic, continuous qualitative monitoring of the division's performance.



Clinical Volume

- 70,000 patients
- Oakland and 8 centers – 65,500
- 5 affiliates – 6,500

"The maintenance, rather than a decline, in our volume over the past year is due to the addition of the affiliated sites.

The continued expansion of this service will be critical for the long term financial health of the division."
 –Dr. Lyndon "Mike" Hill

Division Faculty:

- Lyndon M. Hill, MD, *Director*
- Timothy Canavan, MD
- Noe Copley-Woods, MD
- Bonnie Coyne, MD
- David Kauffman, MD
- Marta Kolthoff, MD
- Jerry G. Martin, MD
- Devereux Saller, MD
- Paul Speer, MD
- Isabelle Wilkins, MD

Research Day Presentation and Awards

On May 31, Magee-Womens Research Day showcased the newest data from Magee's faculty researchers as well as selected presentations by clinical fellows, residents, and graduate trainees in the Department of Obstetrics, Gynecology & Reproductive Sciences and postdoctoral fellows at Magee-Womens Research Institute.



In addition, Magee was honored to host internationally renowned researcher and educator **Jerome F. Strauss, III, MD, PhD** as visiting professor this year.

Dr. Strauss is Dean of the Virginia Commonwealth School of Medicine and Executive Vice President for Medical Affairs of the VCU Health System.

Dr. Strauss delivered two lectures during his visit, including the **Margaret Prine Joy Lecture in Reproductive Sciences** titled "The Genetics of Polycystic Ovary Syndrome: From Genome-Wide Association to Molecular Medicine" and the **Celebration of Life: A Lecture Honoring Mothers** titled "The Future Ain't What It Used To Be: Medicine and Biomedical Research in the Information Age."

Research Day Awardees

Trainees

- **Best fellow/graduate student oral presentation:** **Pawan Puri, PhD**
The Transition From Stem Cell to Progenitor Spermatogonia and Male Fertility Requires the SHP2 Tyrosine Phosphatase
Research Advisor: William Walker, PhD

- **Best fellow/graduate student poster presentation:** **Yu Ren, PhD**
Lhx8 Regulates Primordial Follicle Activation Through a FOXO3a and rpS6 Independent Way
Research Advisor: Aleksandar, MD, PhD
- **Best resident oral presentation (Dr. Marvin C. Rulin Resident Research Award):** **Michelle Rowland, MD, PhD, MPH**
Neoadjuvant Chemotherapy is Less Costly than Primary Debulking Surgery for Treatment of Advanced Stage Ovarian Cancer in Patients ≥65 Years Old
Research Advisor: Thomas Krivak, MD
- **Best resident poster presentation:** **Katarzyna Bochenska, MD**
Maternal Lower Urinary Tract Injury at the Time of Cesarean Section
Research Advisor: Halina Zyczynski, MD
- **Dr. Paul M. Rike Fellowship Award:** **Mainpal Rana, PhD**
Advisor: Judith Yanowitz, PhD
- **Amy Roberts Health Promotion Research Award:** **Kyle Freese, MPH, CPH**

Philanthropist Recognized

- Sylvia Bernassoli, CRNA

Magee Alumnus Reminisces...(cont. from page 2)

This, however, did not stop him. Using his own personal money, and with the assistance of one engineer and one physicist, the first ultrasound prototype was built.

Upon Dr. Sabbagha's return to Magee as assistant professor in 1970, he noticed that the hospital had purchased one ultrasound machine. However, because no one at that time knew how to use it, the machine was tucked away in a storage room.

With Dr. Sabbagha's knowledge and experience, he was bestowed one room on the hospital's second floor to set up the machine and perform ultrasound procedures.

Within just a short time, the area expanded to five ultrasound rooms. As Dr. Sabbagha reflects, "In the early 1970s, Magee-Womens Hospital became one of only a few university hospitals to offer women diagnostic ultrasound imaging."

Advancements in Imaging

Fetal images were visible with early stage ultrasound imaging, but with a low resolution. Because of its popularity, ultrasound engineers quickly followed the crusade for sharper, more advanced imaging.

"The progress in ultrasound imaging has gone from a single transducer, to a real time curvilinear transducer employing multiple transducer elements, to trans-vaginal imaging, to 3D and 4D ultrasound. The latter has allowed us to improve the accuracy in the diagnosis of entities such as agenesis of the corpus callosum, cleft palate, abnormal uterine shape, spina bifida, and uterine submucous myomas," explains Dr. Sabbagha.

About Dr. Sabbagha

Dr. Sabbagha currently serves as medical director of the Obstetric & Gynecologic Ultrasound Center in Chicago, Illinois, and is professor emeritus at Northwestern University, Feinberg School of Medicine.

He has authored numerous books, abstracts, and publications, and has lectured both nationally and internationally. In addition, he has led

many post-graduate courses and fulfilled several visiting professorships. In 1989, Dr. Sabbagha was the recipient of the Association of Professors of Gynecology and Obstetrics Public Recognition Award.

Dr. Sabbagha and his wife, Asma, a psychologist, reside in Lake Forest, Illinois. Their children followed them into the health care field. Their son, Elias, is assistant professor of gynecology and obstetrics at Northwestern University Feinberg School of Medicine in Chicago; and their daughter, Randa, is a clinical neuropsychologist associated with the Northwestern Brain Tumor Institute in Chicago. Drs. Rudy and Asma Sabbagha are the proud grandparents of two grandchildren.

Incoming and Outgoing Trainees, Faculty

Incoming Fellows

Maternal Fetal Medicine

- Sami Makaroun, MD – Yale New Haven Hospital
- Laura Colicchia, MD – University of Chicago Hospitals
- Tina Dumont, MD – Pennsylvania Hospital – Philadelphia PA

Female Pelvic Medicine and Reconstructive Surgery

- Craig Mayr, MD – University of California San Francisco

Family Planning

- Catherine Chappell, MD – was here at Magee as an Infectious Disease Fellow

Minimally Invasive Gynecologic Surgery

- Amanda Ecker, MD – Magee OB/GYN resident

Gynecologic Oncology

- Michelle Boisen, MD – Magee OB/GYN resident
- Karyn Hansen, MD – Magee OB/GYN

Reproductive Endocrinology and Infertility

- Meredith Snook, MD – Magee OB/GYN resident

Infectious Diseases

- Claire Danby, MD – Maine Medical Center (Affiliate of Tufts University School of Medicine)

Incoming Residents

- Sadie Wachter Ackerman, MEd, MD – Temple U. SOM
- Amy Alexander, MD – U. of NC at Chapel Hill SOM
- Grace P. Ferguson, MD – Jefferson Med. Col. of Thomas Jefferson U.
- Megan E. Klocek, MD – Pennsylvania State U. COM
- Ann Peters, MD – U. of Virginia SOM
- Erin L. Rhinehart, MD – U. of Pittsburgh SOM
- Jessica Rose, MD – George Washington U. SOM & HS
- Jessica Sassani, MD – SUNY Upstate Medical U.
- Shereen A. Singer, MD – UMDNJ/R.W. Johnson Medical School
- Xu Xu, MD – Boston U. SOM

New Faculty Hires for the Department of Obstetrics, Gynecology & Reproductive Sciences

Faculty

Susan Lareau, MD	7-1-13
Scott Kauma, MD	7-1-13
Shweta Nayak, MD	8-1-13
Marilyn Huang, MD	8-1-13
Madeleine Courtney-Brooks, MD	8-1-13
Shannon McCabe, CNM	8-1-13
Audrey Lance, MD	8-19-13
Suzanne Chappell, CNM	9-1-13
Colleen Krajewski, MD	9-15-13

Graduating Fellows

Maternal Fetal Medicine

- Shareece Davis, MD – Faculty, Loma Linda University Medical Center
- Christina Pisani, MD – Perinatologist, Dubois Regional Medical Center

Female Pelvic Medicine and Reconstructive Surgery

- Sallie Oliphant, MD – Assistant Professor, Division of Urogynecology, Dept. OB/GYN, University of Arkansas for Medical Sciences

Family Planning

- Rachel Rapkin, MD – Assistant Professor, University of South Florida

Minimally Invasive Gynecologic Surgery

- Deirdre Lum, MD – Clinical Assistant Professor at Stanford University

Medical Genetics

- Pankaj Thakur, MD – Faculty, Centerville Clinics

Gynecologic Oncology

- Ashlee Smith, MD – Gynecologic Oncologist, Dept. OB/GYN Oncology Geisinger Medical Center

Reproductive Endocrinology and Infertility

- Shweta Nayak, MD – Faculty, MWH

Infectious Diseases

- Catherine Chappell, MD – staying on for Family Planning Fellowship, MWH



Congratulations to the resident class of 2013.

Upcoming Events

8th Annual Savor Pittsburgh

August 29/VIP Area 5:30-10 p.m.

General Admission 6:30-10 p.m.

SouthSide Works, Corner of Sydney Street & 26th Street

2013 Title Sponsor: C. Hackett Motors



This under-the-stars event will fill the SouthSide Works with aromas of appealing appetizers, enticing entrees, delightful desserts, exciting music and copious cocktails. The Culinary Competition is a collection of Pittsburgh's

finest chefs sharing their recipes as they compete for "Dish of the Year", accompanied by the sounds of No Bad JuJu. Proceeds benefit the fight against prematurity at Magee.

VIP tickets are \$120 and general admission is \$65 and can be purchased at www.savorpgh.com or by calling 412-641-8950.

2nd Annual Fly Fishing Classic

September 12 & 13

Homewaters Club, Spruce Creek, PA

The competition will take place on private waters on Spruce and Penns Creeks. Each team will be accompanied by a guide/judge and will fish Thursday afternoon and Friday morning, with additional fishing available. Teams who register will be provided the rules of the competition. Proceeds benefits the Women's Cancer Research Center.

For more information or to enter a team, contact Arthur Scully at 412-641-8973.

Alumni Reception

October 3/4:30 -6:30 p.m.

Pittsburgh Golf Club

On the evening before Alumni Day, plan to join your alumni residents, fellows and others for a social reception. Please RSVP to this event by contacting Colleen Gaughan, Magee-Womens Foundation, cgaughan@magee.edu or 412.641.8978.

38th Annual Alumni Day

October 4

Magee-Womens Hospital

The classes of '88, '93, '03 & '08 are celebrating their reunion years but all graduates, former faculty and current faculty should plan to attend this special day. Class reunion lists:

1988

Linda Chan
Anthony DelConte
John M. Fisch
John K. Fong
Marilyn J. Gage
Stephen K. Hasley
Kris E. Kennedy
Lydia F. Sims
Laura E. Tsakiris
Luis Vaccarello

1993

Fadi Bsar
Kristine K. Charles
Julie Gluck Laifer
Lisa M. Keder
Stephanie L. Nicholas
Sandra G. Rygg
Malay C. Sheth
Kevin D. Stocker
John F. Turocy
Yvonne A. Yao
Catherine Yeagley

2003

Brenna L. Anderson
Richard H. Beigi
Amy Y. Cai
Susannah Copland
Hilary Seglin Gammill
Arundhathi Jeyabalan
Michel Makhoulouf
Suketu M. Mansuria
William J. Mitsos
Vivian W. Sung
Andrew J. Sword

2008

Marianna Alperin
Amanda Alvelo-Malina
Jennifer L. Baumbach
Kathleen A. Bunge
Kathleen A. Carroll
Beatrice A. Chen
David Hackney
Catherine G. Hilliker
Heather Hohmann
Susan M. Lareau
Carol Lin
Gina Mantia Smaldone
Stephanie M. Owens
Nina Powell
Scott Richard
Stephen W. Tobia
John F. Turocy

Alumni Day – Friday, October 4, 2013

Morning Program

Welcome

Daniel I Edelstone, MD

The Future of Informatics in OB/GYN

Steve Hasley, MD

Mortimer and Cohen Lectur

The Future of Surgical Treatment for
Gynecologic Cancers

Luis Cassarello, MD, FACOG

McCall Lecture

The OB/GYN as Chief Medical Officer –
The View from the University of Minnesota

Levi S. Downs Jr., MD, MS

Szulman Lecture

The Genetics of Hydatidiform Moles:
New Light on an Ancient Disease

Rima Slim, PhD

The Magee OB/GYN Department:
Circa 2013 and Beyond

W.Allen Hogge, MD

OB/GYN Legacy Lecture

Gynecological Surgery Training:
What is Was Like in the 1970s

Marvin Rulin, MD

Katz Minimally Invasive Lecture

The Future of Gynecology Surgery
Training: “How Minimal Can Minimally
Invasive Be?”

Gabriella Gosman, MD

Afternoon Program

Lunch, Guided Tours of Hospital/Research
Institute, Dessert Reception, 1-4 p.m.

To register or see more details, visit
<https://ccehs.upmc.com/liveFormalCourses.jsf>
Program schedule is subject to change.



Magee Receives High Rankings at the Local, State and National Levels

Magee-Womens Hospital National Rankings

- Gynecology – 4th
- Orthopaedic Surgery – 35th
- Diabetes and Endocrinology – 46th
- Magee is also ranked as high-performing for cancer, gastroenterology and GI surgery, and urology

Magee is ranked #2 in the Pittsburgh Metro area and #7 in Pennsylvania among **ALL** hospitals.

ALUMNI DAY



MAGEE-WOMENS
**RESEARCH
 INSTITUTE**
 & FOUNDATION
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- Magee-Womens Hospital National Rankings
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 - Magee is also regionally ranked as high-performing in cancer, gastroenterology and GI surgery, and urology

Magee Rises Again in National Rankings



Chairman, Department Of Obstetrics, Gynecology & Reproductive Sciences
 University of Pittsburgh

AN UPDATE FROM W. ALLEN HOGGE, MD

