

CURRICULUM VITAE

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PART I: General Information

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Place of Birth: Atlanta, GA

Education:

1979 B.S. (Biology), Cum laude, Tulane University
1983 M.D., Medical College of Georgia

Postdoctoral Training:

07/83-06/84 Intern in Obstetrics and Gynecology, Ochsner Foundation Hospital
07/84-06/87 Resident in Obstetrics and Gynecology, Ochsner Foundation Hospital
07/87-06/89 Clinical Fellow in Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Hospital of the University of Pennsylvania

Licensure and Certification:

1987 Pennsylvania Registered Physician
1989 Massachusetts Registered Physician
1990 American Board of Obstetrics and Gynecology
1991 Division of Reproductive Endocrinology, ABOG

Academic Appointments:

1987-1989 Postdoctoral Fellow in Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine, Philadelphia, PA
1989-1991 Instructor in Obstetrics, Gynecology and Reproductive Biology, Harvard Medical School, Boston, MA

- 1991-1998 Assistant Professor of Obstetrics, Gynecology and Reproductive Biology, Harvard Medical School, Boston, MA
- 1998- Associate Professor of Obstetrics, Gynecology and Reproductive Biology, Harvard Medical School, Boston, MA

Hospital or Affiliated Institution Appointments:

- 07/89-06/90 Obstetrical Attending Physician, Department of Obstetrics and Gynecology, Hospital of the University of Pennsylvania, Philadelphia, PA
- 07/90-06/93 Assistant Gynecologist, Department of Obstetrics and Gynecology, Massachusetts General Hospital, Boston, MA
- 07/93-06/95 Associate Gynecologist, Department of Obstetrics and Gynecology, Massachusetts General Hospital, Boston, MA
- 10/01- Medical Director, Minimally Invasive Gynecologic Surgery Center, Department of Obstetrics and Gynecology, Newton-Wellesley Hospital, Newton, MA
- 07/02- Attending Physician, Department of Obstetrics and Gynecology, Brigham and Women's Hospital, Boston, MA
- 07/06- Associate Chairman, Department of Obstetrics and Gynecology, Newton-Wellesley Hospital, Newton, MA

Other Professional Positions and Major Visiting Appointments:

- 2001- Attending Physician, Boston IVF, Waltham, MA

Hospital and Health Care Organization Clinical Service Responsibilities:

- 2005- Member, Surgical Executive Committee, Newton-Wellesley Hospital
- 2006- Associate Chair of OB/GYN Newton Wellesley Hospital, Partners - Newton Wellesley Hospital
- 2006- Chairman, Department of Obstetrics and Gynecology Quality Assurance Committee, Newton-Wellesley Hospital

Major Administrative Responsibilities:

- 1989-1998 Medical Director, Vincent Memorial Ambulatory Gynecology Clinic, Massachusetts General Hospital
- 1993-2001 Chief, Vincent Memorial Division of Reproductive Endocrinology and Infertility, Massachusetts General Hospital
- 2001- Administrative Director, Minimally Invasive Gynecologic Surgery and Infertility, Newton-Wellesley Hospital
- 2002- Director, Department of Obstetrics and Gynecology Residency Program, Newton-Wellesley Hospital
- 2004- Fellowship Director, Minimally Invasive Gynecologic Surgery (American Association of Gynecologic Laparoscopists/Society of Reproductive Surgeons), Newton-Wellesley Hospital

2012- Associate Director, NWH Center of Excellence in Minimally Invasive Gynecologic Surgery, Newton Wellesley Hospital

Major Committee Assignments:

Affiliated Inst

2005- Department of Obstetrics and Gynecology Quality Assurance Committee [Chairperson], Newton-Wellesley Hospital
2005- Surgical Executive Committee, Newton-Wellesley Hospital
2013- Surgical Chair Evaluation Committee, Newton Wellesley Hospital

National

2014 FDA - Committee on Morcellation , United States Government

Professional Societies:

1984-1991 American College of Obstetricians and Gynecologists, Junior Fellow
Fellow, 1991-
1986- American Society for Reproductive Medicine, Member
1987- American Association of Gynecologic Laparoscopists, Member
Chair, Committee on Publications, 2005-
Board Member, 2005-2007
Member, Practice Guideline Committee, 2005-
Member, Scientific Program Committee, 2006-2008
CME Committee Member, 2007-
Board Member, Fellowship Committee, 2007-
1989- Boston Fertility Society, Member
1991- New England Obstetrical and Gynecological Society, Member
1991- Society for the Study of Reproduction, Member
1992- The Endocrine Society, Member
1992- Society for Reproductive Surgeons, Member
1992- Massachusetts Medical Society, Member
1993- Society of Laparoendoscopic Surgeons, Member
1993- Suffolk District Medical Society, Delegate
1993- Obstetrical Society of Boston, Associate
2004- Society of Laparoscopic Surgeons, Division of American Society of Reproductive Medicine, Board Member
2005- Society of Reproductive Surgeons, Board Member
Secretary-Treasurer, 2006-2007
Vice President, 2007-2008
President, 2008-2009
Board member, 2009-2011
2005 Food and Drug Administration, Panel Member, Gynecologic Medical Devices
2005-2007 American Association of Gynecologic Laparoscopists , Board Member

- 2009-2011 American Association of Gynecologic Laparoscopy (AAGL),
Secretary/Treasurer
Vice President, Program Chair, 2010-2011
President , 2011-2012
Past President, Board Member, 2012-2013
- 2009-2010 AAGL, Secretary Treasurer, Member of the Board of Directors
2010 American College of Obstetric and Gynecology, Committee Member, Safety of
Office Based Procedures
- 2011-2014 AAGL Fellowship Board of Directors, Board Member
2012-2014 Fellowship Board of Directors, AAGL, President
2013-2014 American Society of Reproductive Medicine, Member, Scientific Program
Committee
2013-2017 Society of Laparoscopic Surgeons, Member, Board of Directors

Community Service Related to Professional Work:

- 1991-1994 Invited Lecturer, Resolve, Inc.
2002 Guest Lecturer, Auxillary Group, Newton-Wellesley Hospital
2005 Provider, General Medicine, Common Ground Relief, New Orleans, LA
2008 Guest Lecturer, Auxillary Group, Newton-Wellesley Hospital

Editorial Boards:

- 1991- Ad-Hoc Reviewer, Obstetrics and Gynecology
1991- Ad-Hoc Reviewer, New England Journal of Medicine
1991-2005 Ad-Hoc Reviewer, Fertility and Sterility
1995- Ad-Hoc Reviewer, Journal of the American Association of Gynecologic
Laparoscopists
1995- Ad-Hoc Reviewer, American Journal of Obstetrics and Gynecology
2001- Member, International Editorial Board, Reviews in Gynaecological Practice
2001-2007 Consulting Editor, Contemporary Obstetrics and Gynecology
2005- Member, Editorial Board, Fertility and Sterility
2007- Ad-Hoc Reviewer, Gynecologic and Obstetric Investigation
2008- Member, Editorial Board, Journal of Endometriosis
2008- Member, Editorial Board, Gynecological Surgery
2010- Ad-Hoc Reviewer, Journal of Clinical Endocrinology and Metabolism
2010- Member, Editorial Board, Journal of the Society of Laparoscopic Surgeons
2012- Editorial Board Member, Journal Minimally Invasive Gynecology

Awards and Honors:

- 1988 Special Recognition, President's Poster Session, The Endocrine Society
1989 Prize paper, Society of Reproductive Surgeons
1996 Prize paper, American Association of Gynecologic Laparoscopists
2001 Golden Hysteroscope Award, American Association of Gynecologic
Laparoscopists

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| 2005 | Golden Hysteroscope Award, American Association of Gynecologic Laparoscopists |
| 2013-2014 | Distinguished Surgeon Award, American Society of Reproductive Medicine - SRS |
| 2015 | Distinguished Fellow and Honorary Member, Middle Eastern Fertility Society |

Part II: Research, Teaching, and Clinical Contributions

A. Narrative report of Research, Teaching, and Clinical Contributions

My current professional passions include providing state of the art clinical care in the field of minimally invasive gynecologic surgery and infertility, teaching residents, fellows and post graduate students, and clinical research. In 1987 I developed a research interest in the pathophysiology of endometriosis. At that time I was investigating the production and regulation of secretory proteins from endometriotic tissue which are likely responsible for the pain and scar tissue present in patients with this disease. I began my academic practice in 1989 as the Director of the Gynecologic Residency Outpatient Service at Massachusetts General Hospital. My clinical practice included infertility patients who would benefit from minimally invasive reproductive surgery. In the early 1990's my research focus expanded from bench research to include clinical research. While participating in clinical trials testing new and novel adhesion barriers, I participated in the development of two minimally invasive surgical tools which were patented and sold for clinical use. At the same time, my teaching efforts expanded to include the training of post doctoral fellows in the field of reproductive endocrinology and infertility. I mentored these fellows not only in clinical care but also in basic science research involving new animal models for the study of endometriosis.

In 1995 I was a founding member of the Center for Innovative Technology in Medicine (CIMIT) at Massachusetts General Hospital. At its inception, this collaborative research group began with experts in a variety of medical and surgical disciplines coming together to discuss improvements in minimally invasive therapies. It has now grown into a multi institutional consortium with an annual budget of over \$10,000,000 supported by the Department of Defense. My commitment to CIMIT has enabled me to be involved in new areas of research including the development of surgical simulation and the study of novel processes and technology in the minimally invasive operating room suite which enhance patient safety and reduce costs.

My passion for teaching has continued throughout my career. I have edited two textbooks on topics related to minimally invasive gynecologic surgery while writing numerous textbook chapters on the same topic. I have served as a post graduate course director or faculty member for national and international organizations including the American College of Obstetrics and Gynecology, the American Society of Reproductive Medicine, the American Association of Gynecologic Laparoscopists, the European Society of Gynaecologic Laparoscopy, and the British Society of Gynaecologic Endoscopy as well as organizations in Italy, Israel, and Brazil. In 2004, I initiated a fellowship in minimally invasive gynecology at Newton-Wellesley Hospital sponsored by the American Association of Gynecologic Laparoscopists(AAGL)/Society of Reproductive Surgeons (SRS). My interest in teaching has motivated me to become involved in these educational organizations. I was a member of the Board of Directors for the AAGL and currently serve on the AAGL fellowship board. In addition, I serve as the current President of the Society of Reproductive Surgeons.

While expanding my interests in clinical care, clinical research and education, I have not lost my passion for basic research. I have recently received funding to start a Center for Gynecopathology Research at the Massachusetts Institute of Technology. My co-principal investigator in this effort, Dr. Linda Griffith, is a world renowned expert in the field of molecular and tissue engineering and systems biology. Our initial focus has been investigating the pathophysiology of endometriosis, the field in which I began my research over 20 years ago. Our first publication was recently accepted to PNAS and two additional manuscripts have been submitted for review. While at NWH, I have served as the director or minimally invasive gynecology and infertility as well as the Co-Chairman of the department of Obstetrics and Gynecology. I am the director of residency training in our department. As the director of infertility, I directed the first Partners Center for Reproductive Medicine from 2001-2008. This is a collaborative effort between the advanced reproductive technology departments of MGH, BWH and NWH. This clinically successful effort maintained successful pregnancy rates that were among the highest in the United States.

B. Funding Information

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| 1990-1993 | Co-P.I., N.I.H., NIH #RO1 HD 272256, Endometrial Antigen Involved in Autoimmunity in Endometriosis |
| 1992-1996 | P.I., Wyeth-Ayerst Corporation, Characterization of Macrophage Chemotactic Factor in Peritoneal Fluid of Women With and Without Endometriosis |
| 1994-1997 | P.I., TAP Pharmaceuticals, Lupron Depot in the Nonsurgical Treatment of Adenomyosis |
| 1995-1998 | Co-P.I., N.I.H., NIH/HD-31894, Activin and MOS in Oocyte Maturation |
| 1995-1998 | Collaborator, Columbia Research Laboratories, Protocol #COL1620-009US, A Parallel, Randomized, Open-Label Study of Transvaginal Administration of Natural Progesterone in Secondary Amenorrhea Using the Polycarbophil Base Sustained Release System, COL1620 |
| 1997-2000 | Investigator, Center for Innovative Minimally Invasive Therapy, Modeling and Testing a Prototype Remote Monitoring Telemedicine Consultant System for Minimally Invasive Surgery |
| 1998-2001 | Investigator, CryoGen, Inc., A Multi-Center Clinical Study to Evaluate the Effectiveness of the CryoGen Cryosurgical System for Intra-Uterine Ablation of the Endometrium in Women Diagnosed with Abnormal Uterine Bleeding |
| 1998-2001 | Co-P.I., Center for Innovative Minimally Invasive Therapy, Benign Uterine Conditions (BUC) Database and Preference Trial |
| 1999-2000 | P.I., Ortho Biotech, Inc., A Prospective, Open-Label Study Evaluating the Perioperative Administration of PROCRI (Epoetin alfa) as a Treatment for Anemia in Adult Patients Undergoing Myomectomy for the Treatment of Uterine Fibroids |
| 1999-2001 | P.I., Center for Innovative Minimally Invasive Therapy, New Initiatives: Minimally Invasive Options for Treatment of Large Uterine Fibroids |
| 1999-2003 | Co-P.I., Center for Innovative Minimally Invasive Therapy, Development of the Operating Room of the Future |
| 2001- | Other. Newton Wellesley Hospit, D.O.D., CIMIT, CIMIT Site Miner, Newton Wellesley Hospital |

2002-2006	P.I., Genosis, Ltd., Performing Fertell Female/Male Test Consumer Field Evaluation Study
2003-2004	P.I., N.I.H., NIH-SBIR Phase I Grant, Transplant Safety System Utilizing RFID
2003-2004	Investigator, Aadiana, Inc., A Multi-Center, Prospective Evaluation of the Aadiana System for Transcervical Sterilization Using Electrothermal Energy in Women Aged 18-45 - The Ease Trial
2004-2005	Investigator, N.I.H., IRO1 HD044870-01, Medical Treatment of Endometriosis-Associated Pelvic Pain
2005-2007	P.I., American Medical Systems, Evaluation of New Hysteroscopic Tubal Occlusion Device
2008-	Investigator, Center for Innovative Minimally Invasive Therapy, Ovarian Tissue Cryopreservation
2008-2009	Investigator, Confluent Surgical, Inc., N08-435, A Prospective Randomized Feasibility Study of the SP Hydrogel Adhesion Barrier System as an Adjunct to Good Surgical Technique Compared with Good Surgical Technique Alone when used for the Reduction of Postoperative Adhesion Formation Following Gynecological Laparoscopic Adnexal Adhesiolysis
2008-2010	Co-P.I., Anonymous Foundation, Engineering New Directions in Endometriosis
2011-2015	Project Director, Foundation, Designing mobile applications for clinical outcomes research

C. Report of Other (Non-Funded) Activities

Co-P.I.	Postoperative Therapy for Asherman's Syndrome
P.I.	A Randomized Controlled Trial of Paracervical Anesthesia versus No Anesthesia in Operative Office Hysteroscopy

D. Report of Teaching

1. Local contributions

a. Medical School Courses

1990	<u>Reproductive Pathophysiology</u>			
	Preceptor	10 Medical Students	<i>contact time</i> 12 hours/year for 1 year(s)	<i>prep time</i> 5 hours/year for 1 year(s)
2009-2010	<u>MIT 2.11</u>			
	Lecturer	6 Graduate Students	<i>contact time</i> 2 hours/year for 1 year(s)	<i>prep time</i> 10 hours/year for 1 year(s)
	Preceptor	6 Graduate Students	20 hours/year for 1 year(s)	20 hours/year for 1 year(s)

b. Graduate Medical Courses

2010-2013 HST 212

Lecturer

15 Graduate Students

contact time

1 hours/year
for 1 year(s)

prep time

10 hours/year
for 1 year(s)

c. Local Invited Presentations

Grand Rounds

- 1995 Management of Uterine Fibroids, St. Elizabeth's Hospital
Lecturer: 27 participants, 1.5 hours contact time per year,
9 hours prep time per year
- 1995 Office Hysteroscopy, Mount Auburn Hospital
Lecturer: 30 participants, 1 hour contact time per year,
4 hours prep time per year
- 1995 Endometriosis and Fibroids, Newton-Wellesley Hospital
Lecturer: 15 participants, 1 hour contact time per year,
6 hours prep time per year
- 2001 Minimally Invasive Gynecologic Surgery, Newton-Wellesley Hospital
Lecturer: 20 participants, 1 hour contact time per year,
5 hours prep time per year
- 2004 Laparoscopic Myomectomy, Brigham and Women's Hospital
Lecturer: 25 participants, 1 hour contact time per year,
5 hours prep time per year
- 2006 Office-Based Hysteroscopic Procedures, Brigham and Women's Hospital
Lecturer: 25 participants, 1 hour contact time per year,
10 hours prep time per year
- 2008 Update on Office and Operative Hysteroscopy, Metrowest Medical Center
Lecturer: 25 participants, 1 hour contact time per year,
4 hours prep time per year
- 2010 Avoiding and Managing Laparoscopic Complications, Roxbury VA General
Surgery Department
Lecturer: 30 participants, 1 hour contact time per year,
10 hours prep time per year
- 2010 Fertility Enhancing Hysteroscopy, Reproductive Science Center
Lecturer: 20 participants, 1 hour contact time per year,
5 hours prep time per year

- 2010 Hysteroscopy for infertility, Beth Israel Deaconess Medical Center
Lecturer: 15 participants, 1 hour contact time per year,
5 hours prep time per year
- 2010 Hysteroscopic complications, South Shore Hospital
Attending: 30 participants, 1.5 hours contact time per year,
5 hours prep time per year
- 2011 Complications of Hysteroscopy , MetroWest Hospital
Lecturer: 20 participants, 1 hour contact time per year, no prep time reported
: 20 participants, no contact time reported, 5 hours prep time per year

Laboratory Course

- 2005 Laparoscopic Anatomy, Newton-Wellesley Hospital
Tutor: 12 participants, 4 hours contact time per year, 4 hours prep time per year

Seminar

- 1990 Complement and Complement-3 and Endometriosis, Brigham and Women's
Hospital
Lecturer: 30 participants, 1 hour contact time per year,
8 hours prep time per year
- 1991 Endometriosis, Massachusetts General Hospital
Lecturer: 12 participants, 1 hour contact time per year,
6 hours prep time per year
- 1992 Introduction to Infertility, Massachusetts General Hospital
Lecturer: 22 participants, 1 hour contact time per year,
8 hours prep time per year
- 1992 Early Pregnancy Loss and Ectopic Pregnancy, Massachusetts General Hospital
Lecturer: 15 participants, 1 hour contact time per year,
5 hours prep time per year
- 1994 Endometriosis and Fibroids, Massachusetts General Hospital
Lecturer: 20 participants, 1 hour contact time per year,
7 hours prep time per year
- 1995 Ambulatory and Office Gynecology, Mount Auburn Hospital
Lecturer: 32 participants, 2 hours contact time per year,
12 hours prep time per year

- 2000 Menstrual Disorders, Brigham and Women's Hospital
Lecturer: 20 participants, 1 hour contact time per year,
7 hours prep time per year
- 2000 New Technologies in Minimally Invasive Gynecology, Massachusetts Medical
Device Industry Council
Lecturer: 75 participants, 2 hours contact time per year,
5 hours prep time per year
- 2001 Dysfunctional Uterine Bleeding, Massachusetts General Hospital
Lecturer: 20 participants, 1 hour contact time per year,
7 hours prep time per year
- 2001-2003 Beyond 2000:An International Conference on Architecture for Health, Harvard
University School of Architecture
Lecturer: 50 participants, 1.5 hours contact time per year,
10 hours prep time per year
- 2004 Evaluation of Abnormal Uterine Bleeding, Mount Auburn Hospital
Lecturer: 165 participants, 2 hours contact time per year,
5 hours prep time per year
- 2006 Endometrial Ablation, New England OB/GYN Society
Lecturer: 125 participants, 2 hours contact time per year,
6 hours prep time per year
- 2007 Office-Based Gynecologic Procedures, Center for Innovative Minimally
Invasive Technology/Massachusetts General Hospital
Lecturer: 30 participants, 1 hour contact time per year,
5 hours prep time per year
- 2010 Laparoscopic Complications, Harvard Vanguard Institution
Lecturer: 75 participants, 1 hour contact time per year,
10 hours prep time per year
- 2011 Office Based Hysteroscopic procedures, Brigham and Women's Hospital
Lecturer: 11 participants, 1 hour contact time per year,
3 hours prep time per year
- 2011 The gynecologist as an entrepreneur, Massachusetts Institute of Technology
Lecturer: 10 participants, 1 hour contact time per year,
5 hours prep time per year
- 2011- Clinical Medicine and Basic Science Research , Massachusetts Institute of
Technology

Lecturer: 30 participants, 3 hours contact time per year,
5 hours prep time per year

2012 Hysteroscopy for infertility , Reproductive Science Center
Lecturer: 8 participants, 1 hour contact time per year, 5 hours prep time per year

d. Continuing Medical Education Courses

1991 Complement 3 and Endometriosis
Preceptor: 10 participants, 12 hours contact time per year,
5 hours prep time per year

1992-1993 Primary Care of Women
Lecturer: 100 participants, 1 hour contact time per year,
5 hours prep time per year

1994 Reproductive Endocrinology in a Primary Care Setting
Lecturer: 100 participants, 1 hour contact time per year,
6 hours prep time per year

1994-1996 Postgraduate Course: Operative Laparoscopy and Hysteroscopy
Lecturer: 50 participants, 8 hours contact time per year,
6 hours prep time per year

1994-1997 Medical Reproductive Endocrinology
Lecturer: 20 participants, 1 hour contact time per year,
5 hours prep time per year

1995-1996 Endometriosis
Lecturer: 100 participants, 1 hour contact time per year,
7 hours prep time per year

1998 Gynecology '98
Lecturer: 100 participants, 1 hour contact time per year,
5 hours prep time per year

2004-2006 Reproductive Endocrinology Seminar Series
Lecturer: 20 participants, 1 hour contact time per year,
5 hours prep time per year

2008 Anesthesia in the Office-Based Setting: Safe, Simple, and Pain Free
Lecturer: 90 participants, 2 hours contact time per year,
8 hours prep time per year

- 2008 Annual Update in Obstetrics and Gynecology
Lecturer: 120 participants, 1 hour contact time per year,
5 hours prep time per year
- 2009 Partners Physician Day
Lecturer: 20 participants, 2 hours contact time per year, no prep time reported
- 2009 Update in Obstetrics and Gynecology
Lecturer: 65 participants, 1.5 hours contact time per day,
5 hours prep time per day
- 2009 Managing Complications in Obstetrics and Gynecology
Lecturer: 60 participants, 2 hours contact time per day,
10 hours prep time per day
- 2009 Harvard course on Minimally Invasive Gynecologic Surgery
Lecturer: 100 participants, 3 hours contact time per year,
15 hours prep time per year
- 2010 Hands On Hysteroscopy
Conference Leader: 15 participants, 10 hours contact time per year,
20 hours prep time per year
Lecturer: 15 participants, 5 hours contact time per year,
20 hours prep time per year
- 2010-2012 Update In Obstetrics and Gynecology
Lecturer: 200 participants, 5 hours contact time per year,
20 hours prep time per year
- 2010 AAGL Hands On Hysteroscopy
Conference Leader: 16 participants, 10 hours contact time per year,
20 hours prep time per year
Lecturer: 16 participants, 5 hours contact time per year,
20 hours prep time per year
- 2010 Trends and Technology in GYN Surgery
Lecturer: 150 participants, 2 hours contact time per year,
10 hours prep time per year
- 2010 Laparoscopic suturing
: 50 participants, 8 hours contact time per year, 2 hours prep time per year
- 2010 Harvard Medical School MIGS course
Lecturer: 300 participants, 2 hours contact time per year,
10 hours prep time per year

- 2010-2014 Update in Minimally Invasive Gynecologic Surgery
Lecturer: 125 participants, 4 hours contact time per year,
16 hours prep time per year
- 2010 2010 PriMed
Lecturer: 5000 participants, 1 hour contact time per year,
10 hours prep time per year
- 2011-2014 Annual Harvard Gynecology Course
Lecturer: 300 participants, 4 hours contact time per year, no prep time reported
- 2011 18th Annual Gynecologic Seminar
Lecturer: 175 participants, 2 hours contact time per year,
10 hours prep time per year
- 2012-2015 Hands On Hysteroscopy
Conference Leader: 15 participants, 7 hours contact time per year,
20 hours prep time per year
- 2013-2016 Annual Collaborative Symposium: Update in Minimally Invasive Gynecologic Surgery
Lecturer: 200 participants, 2 hours contact time per week,
5 hours prep time per month

e. Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting

- 1989-1993 50 Residents for 500 hrs/year, Director of Ambulatory Gynecology Clinic,
Harvard Medical School
- 1995- 10 Fellows for 1000 hrs/year, Director of Fellowship Program, Harvard
Medical School and Newton Wellesley Hospital
- 2001- 60 Residents for 1000 hrs/year, Director of PGY-3 residency rotation in
Minimally Invasive Gynecologic Surgery at Newton Wellesley Hospital,
Harvard Medical School

f. Leadership Roles

- 1989-2001 Supervisor, Massachusetts General Hospital
Responsibility: Supervision of Harvard Medical students rotating through
Ambulatory Gynecology Service
- 1992 Course Director, Massachusetts General Hospital
Responsibility: Organization of course agenda, syllabus, and lecturer: "Flexible
Hysteroscopy"

- 1992 Course Director, Massachusetts General Hospital
Responsibility: Organization of course agenda, syllabus, and lecturer: "Advanced Pelviscopy"
- 1992-1997 Course Director, Harvard Medical Laser Center
Responsibility: Organization of course agenda, syllabus, and lecturer: "An Update in Technology and Clinical Applications of Laser Medicine/Surgery"
- 1993 Course Director, Massachusetts General Hospital
Responsibility: Organization of course agenda, syllabus, and lecturer: "Advanced Gynecologic Laparoscopy"
- 1995 Course Co-Director, Medical Education Collaborative
Responsibility: Organization of course agenda, syllabus, and lecturer: "Medical and Surgical Management of Women with Leiomyomata"
- 1995 Course Director, Harvard Community Health Plan
Responsibility: Organization of course agenda, syllabus, and lecturer: "Office Flexible Hysteroscopy"
- 1997 Course Co-Director, American College of Obstetricians and Gynecologists
Responsibility: Organization of course agenda, syllabus, and lecturer: District One Meeting, American College of Obstetricians and Gynecologists
- 2000 Invited Participant, "The Apri Project" (Advanced Procedure Room and Innovation Laboratory), Center for Innovative Minimally Invasive Therapy
Responsibility: Lecturer
- 2002 Laboratory Director, Mount Auburn Hospital
Responsibility: Preceptor of cadaver course
- 2004 Course Director, Newton-Wellesley Hospital Minimally Invasive Gynecologic Surgery (MIGS) Unit
Responsibility: Organization of course agenda, syllabus, and lecturer: "Operative Hysteroscopy for Operating Room Nurses"
- 2004 Course Director, Diagnostic and Operative Hysteroscopy, Newton-Wellesley Hospital Minimally Invasive Gynecologic Surgery (MIGS) Unit
Responsibility: Organization of course agenda, syllabus, and lecturer: "Diagnostic and Operative Hysteroscopy"
- 2010-2013 Fundamental skills of hysteroscopy - Course Director, Partners (Newton Wellesley Hospital)
Responsibility: Design the course, set agenda, lecture and teach hands on skills

- 2015-2017 Course Director of The Open Endoscopy Forum, Massachusetts Institute of Technology
Responsibility: Developed the curriculum and organized the forum which featured national and internationally known speakers in the fields of gynecology and biologic engineering.
Special Accomplishments: Initiated a collaborative novel format course in collaboration with the Massachusetts Institute of Technology.
- 2016 Course Director Open Endoscopy Forum, Massachusetts Institute of Technology
Responsibility: Develop curriculum and organized the entire conference
Special Accomplishments: Hosted a very successful second annual Endoscopy forum featuring national and international speakers on gynecologic surgery and bioengineering

g. Advisees/Trainees

<i>Training Duration</i>	<i>Name</i>	<i>Current Position</i>
1991-1992	Lehka Bhatta	Private Practice
1992-1994	Johnny Awwad	Associate Professor, American University of Beirut
1994-1995	Louise LaPensee	Private Practice
1995-1997	Lubna Pal	Private Practice
1995-1999	X.J. Tao	Private Practice
2000-2003	Toufic Nakad	Private Practice
2004-2005	James K. Robinson	Assistant Professor, George Washington University School of Medicine
2005-2006	Stephanie N. Morris	Assistant Professor, Harvard Medical School
2006-2007	Aarathi Cholkeri	Private Practice
2007-2008	Mandi Furlow	Private Practice
2008-2009	Gretchen E. H. Makai	Assistant Professor
2009-2010	Amanda Bush	Private practice
2010-2011	Lydia Garcia	Current fellow
2011-2012	Kelly Wright	Assistant Professor
2012-2014	Michelle Park	Assistant Professor
2013-2015	Megan Loring	Other
2014-	Nyia Noel	Other
2015-	Christina Salazar	Other

2. Regional, national, or international contributions

a. Invited Presentations

Regional

- 1990 New Concepts in Endometriosis, Baystate Medical Center, Springfield, MA[*Invited Lecture*]
- 1992 Lecture: Office Flexible Hysteroscopy (District One Meeting), American College of Obstetricians and Gynecologists[*Invited Lecture*]
- 1994 Surgical Management of Endometriosis, Brockton Hospital, Brockton, MA[*Invited Lecture*]
- 1996 Junior Fellows Meeting, Region 1, American College of Obstetricians and Gynecologists[*Invited Lecture*]
- 1997 Postgraduate Course: Office-Based Laparoscopy and Hysteroscopy, American College of Obstetricians and Gynecologists[*Invited Lecture*]
- 1998 Lecture: Management of Uterine Fibroids, Women and Infants Hospital/Brown University School of Medicine[*Grand Rounds*]
- 2001 Lecture: Laparoscopic Myomectomy, Salem Hospital, Salem, MA[*Invited Lecture*]
- 2001 Lecture: Laparoscopic Myomectomy, St. Francis Hospital, Hartford, CT[*Grand Rounds*]
- 2006 Operative Hysteroscopy, University of Massachusetts Medical Center, Worcester, MA[*Invited Lecture*]
- 2006 Complications of Operative Hysteroscopy, Baystate Medical Center, Springfield, MA[*Invited Lecture*]
- 2006 Lecture: Endometrial Ablation, Salem Hospital, Salem, MA[*Invited Lecture*]
- 2009 Lecture to the Indiana section Of ACOG, American College of Obstetrics and Gynecology[*Invited Lecture*]
- 2011 Diagnostic and operative procedures in office hysteroscopy, New England Ob Gyn Society[*Plenary Presentation*]
- 2012- Hands on Laparoscopic surgery , Tufts Medical School [*Seminar*]

National

- 1989 Lecture: New Concepts in Endometriosis, Hospital of the University of Pennsylvania, Philadelphia, PA[*Invited Lecture*]

- 1990 Lecture: New Concepts in Endometriosis, Fort Lauderdale OB/GYN Society, Fort Lauderdale, FL[*Invited Lecture*]
- 1990 Lecture: Immunology and Endometriosis (John C. Weed Seminar), Ochsner Foundation Hospital, New Orleans, LA[*Seminar*]
- 1991 Lecture: Complement 3 and Endometriosis (Workshop on Basic Pathophysiology of Endometriosis), National Institutes of Health, Bethesda, MD[*Invited Lecture*]
- 1992 Lecture: Complications of Office Hysteroscopy, Louisiana State University School of Medicine, Baton Rouge, LA[*Grand Rounds*]
- 1994 Lecture: Office Hysteroscopy, Brooklyn HIP Hysteroscopy Symposium, Brooklyn, NY[*Invited Lecture*]
- 1994-1996 Postgraduate Course: Operative Laparoscopy and Hysteroscopy, American College of Obstetricians and Gynecologists[*Invited Lecture*]
- 1995 Lecture: Office Hysteroscopy, Johns Hopkins Hospital, Baltimore, MD[*Grand Rounds*]
- 1995 Lecture: The Surgical Marketplace 1995-2000, American College of Surgeons[*Invited Lecture*]
- 1996 Biomedical Technology Roadmap Workshop, Sandia National Laboratories, Albuquerque, NM[*Invited Lecture*]
- 1999 Lecture: Diagnostic and Operative Hysteroscopy, G.A.T.E. Institute of Holy Cross, Silver Spring, MD[*Invited Lecture*]
- 1999 Annual Meeting and Educational Program, Alabama Section, American College of Obstetricians and Gynecologists, Birmingham, AL[*Invited Lecture*]
- 2000 Lecture: Understanding Laser Therapy (John C. Weed Seminar), Ochsner Foundation Hospital, New Orleans, LA[*Invited Lecture*]
- 2000 Lecture: Update on Hysteroscopic Techniques, McGee Women's Hospital, Pittsburgh, PA[*Invited Lecture*]
- 2000 Lecture: Reproductive Surgery in the New Millenium, American Society for Reproductive Medicine[*Postgraduate Faculty*]
- 2000 Lecture: Modern Management of Uterine Fibroids, Society of Interventional Radiology[*Invited Lecture*]

- 2002 Lecture: Office Hysteroscopy and Endometrial Ablation (Global Congress of Gynecologic Endoscopy), American Association of Gynecologic Laparoscopists[*Invited Lecture*]
- 2002 Lecture: Office Hysteroscopy: You Could and Should Do It, American Association of Gynecologic Laparoscopists[*Invited Lecture*]
- 2003 The President's Symposium on the Future of Medicine, Scott & White[*Invited Faculty*]
- 2003 Lecture: Office Hysteroscopy, Washington University School of Medicine, St. Louis, MO[*Invited Lecture*]
- 2003 Annual Meeting and Educational Program, Alabama Section, American College of Obstetricians and Gynecologists[*Invited Lecture*]
- 2003 Lecture: Optimal Diagnosis of Submucous Myomata, American Association of Gynecologic Laparoscopists[*Invited Lecture*]
- 2003 Lecture: Minimally Invasive Solutions for Symptomatic Uterine Fibroids (Global Congress of Gynecologic Endoscopy), American Association of Gynecologic Laparoscopists[*Invited Lecture*]
- 2005 Fellows Course: Operative Hysteroscopy, American Association of Gynecologic Laparoscopists/Society of Laparoendoscopic Surgeons[*Invited Lecture*]
- 2005 Postgraduate Course: Office and Operative Hysteroscopy, American College of Obstetricians and Gynecologists[*Conference Leader*]
- 2005 Global Congress of Gynecologic Endoscopy: Hysteroscopy and Abnormal Uterine Bleeding, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2005 53rd Annual Meeting: "Complications of Hysteroscopy", "Complications of Hysteroscopic Myomectomy", American College of Obstetrics and Gynecology[*Conference Leader*]
- 2005 Current Management of Abnormal Uterine Bleeding, Innovations In Medical Education And Training[*Invited Lecture*]
- 2005 Office of Research on Women's Health Advances in Uterine Leiomyoma Research; 2nd NIH International Congress, National Institutes of Health[*Invited Faculty*]
- 2005-2013 Hands on hysteroscopy lab and lectures for AAGL fellows , AAGL [Seminar]

- 2006 Postgraduate Course: "Hands-On" Operative Hysteroscopy, American Association of Gynecologic Laparoscopists[*Invited Lecturer*]
- 2006 Postgraduate Course: Update on Office and Operative Hysteroscopic Techniques, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2006 Fellows Course: Operative Hysteroscopy, Laparoscopic Suturing, and Hysterectomy, American Association of Gynecologic Laparoscopists/Society of Laparoendoscopic Surgeons[*Conference Leader*]
- 2006 Lecture: Laparoscopic Hysterectomy, Gyrus Medical/ACMI[*Invited Lecture*]
- 2006 Annual Meeting and Educational Program, Pacific Northwest Obstetrics and Gynecologic Association[*Invited Lecture*]
- 2006 "Hands On" Hysteroscopy, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2006 Postgraduate Course: Update on Office and Operative Hysteroscopic Techniques, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2006 "Hands On" Experience and Technology Update on Hysteroscopy, Endometrial Ablation, and Hysteroscopic Tubal Occlusion, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2006 Lecture: Complications of Hysteroscopy, Washington University School of Medicine, St. Louis, MO[*Visiting Professorship*]
- 2007 "Hands On" Hysteroscopy, American Association of Gynecologic Laparoscopists[*Conference Leader*]
- 2007 Outpatient Gynecologic Procedures, Professional Medical Education Association[*Conference Leader*]
- 2007 Fellows Course: Operative Hysteroscopy, Laparoscopic Suturing, and Hysterectomy, American Association of Gynecologic Laparoscopists[*Invited Lecture*]
- 2007 Lecture: Office-Based Gynecologic Procedures: Changing the Face of Gynecology (John C. Weed Seminar), Ochsner Clinic Foundation, New Orleans, LA[*Invited Lecture*]
- 2007 Lecture: Office-Based Gynecologic Procedures, Philadelphia OB/GYN Society, Philadelphia, PA[*Visiting Professorship*]

- 2008 Two lectures: Validation of Surgical Simulation, New Technologies in Office and Operative Hysteroscopy Lab Instructor: New Technologies, American Society of Reproductive Medicine*[Invited Lecture]*
- 2008 17th Annual Comprehensive Workshop on Minimally Invasive Gynecology for Residents and Fellows, American Association of Gynecologic Laparoscopists*[Invited Lecture]*
- 2008 Two lectures: Laparoscopic Suturing in the Vertical Zone, Complications of Operative and Office Hysteroscopy, Society of Laparoscopic Surgeons*[Invited Lecture]*
- 2008 Master's Class on A Hands On Course on Laparoscopic Suturing in the "Vertical Zone" Master's Class on Multidisciplinary Approach to Gynecologic Endoscopic Surgery , Society of Laparoendoscopic Surgeons 17th Annual Meeting and Endo Expo 2008*[Conference Faculty]*
- 2008 "Hands On" Hysteroscopy, American Association of Gynecologic Laparoscopists*[Conference Leader]*
- 2009-2013 Course faculty for laparoscopic suturing , Society of Laparoscopic Surgeons *[Seminar]*
- 2009 Update on Endometrial Ablation Complications of Operative Hysteroscopy Hands-on laboratory instructor, American College of Obstetrics and Gynecology *[Invited Lecture]*
- 2010 Office hysteroscopy, Complications of hysteroscopy, Hands on hysteroscopic skills education , American College of Obstetrics and Gynecology *[Invited Lecture]*
- 2011 Systems biology applied to endometriosis, Endometriosis Foundation of America*[Invited Lecture]*
- 2011 The role of hysteroscopy in patients with adenomyosis, World congress on Endometriosis*[Invited Lecture]*
- 2011- Program Chair, AAGL annual clinical meeting , AAGL *[Plenary Presentation]*
- 2011- Course faculty for laparoscopic suturing and hands on hysteroscopy , American Society of Reproductive Medicine*[Seminar]*
- 2012 Hysteroscopy for Infertility, Imaging of the uterine cavity, Obtaining a fellowship in Minimally Invasive Gyn Surgery , AAGL *[Invited Lecture]*
- 2013- Diagnostic and Operative Hysteroscopy , Cleveland Clinic of Florida*[Invited Lecture]*

- 2013- Adenomyosis , Endometriosis Foundation of America *[Invited Lecture]*
- 2013- Resident Education in Minimally Invasive Surgery , AAGL*[Invited Lecture]*
- 2013- Modern Hysteroscopy , ASRM and IFFS*[Plenary Presentation]*
- 2014 Controversy of Power Morcellation, American Society of Reproductive Medicine*[Invited Lecture]*
- 2014 Faculty for the Hysteroscopy post graduate course, American Society of Reproductive Medicine*[Invited Lecture]*
- 2015 Mathers Lecture Power Morcellation Concerns, American College of Obstet Gynecol*[Plenary Presentation]*
- 2015 Operative and office hysteroscopy, St Mary's Hospital *[Invited Lecture]*
- 2015 Hysteroscopic treatment of uterine fibroids, AAGL *[Invited Lecture]*
- 2016 Endometriosis therapy prior to surgery , MIGS Collaborative Harvard medical school*[Invited Lecture]*
- 2016 Gynecologic use of the laparoscopic morcellator, Louisiana State University*[Visiting Professorship]*
- 2016 Operative and Office Hysteroscopy, American Society of Reproductive Medicine - SRS*[Invited Lecture]*
- 2016 Signal Transduction by Engineered Extracellular Matrices Gordon Research Conference. The need for clinical and basic science collaboration in the field of endometriosis and adenomyosis , Gordon Research Conference*[Seminar]*
- 2016 Hysteroscopic treatment of Adenomyosis, Northside Hospital, Atlanta GA*[Invited Lecture]*
- 2016 Three lectures in the ASRM post graduate course on Reproductive Surgery , ASRM*[Invited Lecture]*
- 2016- Adenomyosis , AAGL*[Invited Lecture]*
- 2017 Treatment of Endometriosis for the Reproductive Endocrinologist, SRS - ASRM*[Invited Lecture]*
- 2017 Adenomyosis Office Hysteroscopic Procedures , St Mary's Hospital St.Louis MO*[Visiting Professorship]*

International

- 1998 Lecture: Risks and Complications of Endometrial Ablation Techniques (7th Congress of the European Society for Gynaecological Endoscopy), European Society for Gynaecological Endoscopy [*Invited Lecture*]
- 2000 Lecture: The Operating Room of the Future, American Institute of Architects [*Invited Lecture*]
- 2000 Lecture: Office Hysteroscopy, International Society for Gynecologic Endoscopy [*Invited Lecture*]
- 2000 Lecture: Office Hysteroscopy, World Congress on Gynecologic Endoscopy [*Invited Lecture*]
- 2002 Global Congress of Gynecologic Endoscopy: Office Hysteroscopy and Endometrial Ablation, American Association of Gynecologic Laparoscopists [*Invited Lecture*]
- 2002 Global Congress of Gynecologic Endoscopy: The Case for Office Hysteroscopy, American Association of Gynecologic Laparoscopists [*Invited Lecture*]
- 2002 Lecture: Complications of Hysteroscopy, Congress of Gynecological Endoscopy and Innovative Surgery [*Course Faculty*]
- 2003 Global Congress of Gynecologic Endoscopy: Minimally Invasive Solutions for Symptomatic Uterine Fibroids, American Association of Gynecologic Laparoscopists [*Invited Lecture*]
- 2003 Beyond Hysterectomy: The Contemporary Management of Uterine Fibroids - An International Congress, American Association of Gynecologic Laparoscopists [*Invited Lecture*]
- 2003 Lecture: Operating Theatre of the Future, International Congress on Gynaecological Endoscopic Surgery [*Keynote Speaker*]
- 2004 Global Congress of Gynecologic Endoscopy: Surgical Tutorials, American Association of Gynecologic Laparoscopists [*Invited Lecture*]
- 2005 Lecture: The Operating Room of the Future (14th Annual Congress), European Society for Gynaecological Endoscopy [*Plenary Speaker*]
- 2006 Lecture: Computer-Based Methodology to Evaluate Surgical Learning Curve in Resident Education, European Society for Gynaecologic Endoscopy [*Invited Lecture*]

- 2008 Three lectures: New Techniques in Office Hysteroscopy, New Techniques in Operative Hysteroscopy, Asherman's Syndrome, Brazilian Society of Gynecologic Endoscopy and Endometriosis [*Invited Lecture*]
- 2008 Three lectures: Hysteroscopic Management of Congenital Uterine Anomalies and Asherman's Syndrome, Complications of Hysteroscopy, New Useful Instruments for Hysteroscopy, American Association of Gynecologic Laparoscopists/Congresso Brasileiro da SOBENGE [*Invited Lecture*]
- 2008 Advances in Hysteroscopic Surgery, American Association of Gynecologic Laparoscopists, 2nd International Congress [*Invited Lecture*]
- 2009 Fertility Enhancing Uterine Surgery, European Society Human Reproduction and Endocrinology [*Plenary Presentation*]
- 2009 Laparoscopic suturing, Society of laparoscopic surgeons [*Invited Lecture*]
- 2009 Lecturer and Visiting Surgeon , University of Lagos, Nigeria [*Visiting Professorship*]
- 2010-2015 Expert Meeting In Gynecologic Surgery , University of Tubingen [*Visiting Professorship*]
- 2010 Seminar presentation and live surgery education, Universitäts-Frauenklinik Tübingen, Tubingen Germany [*Visiting Professorship*]
- 2010 The future of gynecologic minimally invasive surgery and live surgery presentation as invited surgeon , Universitat-Fraunklinik Tubingen Germany [*Visiting Professorship*]
- 2010 Lecture in post graduate course and live telesurgery presentation on operative hysteroscopy, III Simposio International de Endoscopia Ginecologica [*Visiting Professorship*]
- 2010 Office Hysteroscopic Surgery, Operative Hysteroscopy and Live hysteroscopic surgical procedures as the visiting surgeon, Congreso de Colombia Marzo, Pereira Columbia [*Plenary Presentation*]
- 2010 Course director for Hysteroscopy post graduate course and two lectures. , Croatian Society for Gynecologic Endoscopy/ International AAGL meeting [*Seminar*]
- 2010 Presentation on the current state of hysteroscopic surgery, IX Latin American Congress of Endoscopic Surgery 2010 ALACE and XV Videosurgery Brazilian Congress - SOBRACIL [*Plenary Presentation*]

- 2010 Surgical Therapy for Endometriosis , European Society for Gynecologic Endoscopy [*Invited Lecture - Barcelona Spain*]
- 2011- Office hysteroscopy , Italian Society of Hysteroscopy [*Seminar*]
- 2011- Systems Biology in Gynecologic Research , European Society of Gynecologic Endoscopy [*Invited Lecture*]
- 2011 Lectures, hands on course participation and performing live surgery, Tel Aviv University [*Visiting Professorship*]
- 2011 Adenomyosis and See and Treat Hysteroscopy, Israeli Endoscopy Society Annual Clinical Meeting [*Plenary Presentation*]
- 2011 New Directions in Gynecologic Endoscopy, University of Tübingen [*Seminar*]
- 2011 Hysteroscopic complications and Endometrial ablation , Turkish Society of Gynecological Endoscopy [*Plenary Presentation*]
- 2011 Performed live surgery and lectured on new technology for office hysteroscopy, 1st World Congress on Office Hysteroscopy and Resectoscopy. Bari Italy [*Plenary Presentation*]
- 2011 Uterine Anomalies and their impact on IVF success Sero Symposia Copenhagen Denmark, Sero Symposia International [*Plenary Presentation*]
- 2011- Office Hysteroscopy , Japan Society of Gynecologic Endoscopy and AAGL [*Plenary Presentation*]
- 2012- Hysteroscopic complications. Course director for operative hysteroscopy , Argentine Society for Gynecologic Endoscopy and AAGL [*Invited Lecture*]
- 2012- Hysteroscopic procedures and complications, Romanian Society of Gynecologic Endoscopy and the AAGL [*Invited Lecture*]
- 2012- Update on Robotics in Gynecology , European Society of Gynecologic Endoscopy [*Plenary Presentation*]
- 2012- Live surgery demonstration , German Society of Gynecologic Surgeons [*Visiting Professorship*]
- 2013- Endometriosis Research and surgery, Adenomyosis, Hysteroscopy , South African Society of Gynecologic Surgery and AAGL [*Invited Lecture*]
- 2013- Endometriosis research and therapy , Nigeria Society of Gynecologic Surgery [*Visiting Professorship*]

- 2013- Surgical case presentation, University of Tübingen Medical School, Frauenklinik *[Visiting Professorship]*
- 2013- Live surgical presentation and lectures on Endometriosis Research , Ministry of Health of the Russian Federation *[Visiting Professorship]*
- 2013 Live Surgery Presentation for the German Society of OB/Gyn, German Society of OB/Gyn *[Visiting Professorship]*
- 2014 Lectures and live surgery presentation on Office Hysteroscopy for the Tel Aviv Medical School at the Sheba Medical Center, Ramat Gan Israel, Sheba Medical Center *[Visiting Professorship]*
- 2014 Patient preference on laparoscopic incisions, European Society of Gynecologic Endoscopy *[Plenary Presentation]*
- 2015 Live surgery demonstration for the German Society of OB/Gyn, German Society of OB/Gyn *[Visiting Professorship]*
- 2015 Hysteroscopic complications - Prague, Gynecologic Endoscopy Club *[Invited Lecture]*
- 2015 Lecturer - Complications of hysteroscopy, Laparoscopy Club of Europe *[Invited Lecture]*
- 2015 Lecturer on Hysteroscopy and Laparoscopic complications. European Fellows from the European Society of Gynecologic Endoscopists, ESGE *[Visiting Professorship]*
- 2015 Lecturer at the American Association of Gynecologic Laparoscopy and Israeli Society of Gyn Endoscopy , AAGL and Israeli Society for Gyn Endoscopy *[Plenary Presentation]*
- 2015 Is there a real place for robotic surgery in gynecology?, European Society for Gynecologic Endoscopy *[Plenary Presentation]*
- 2016 Update on Adenomyosis , Portuguese Medical Society *[Plenary Presentation]*
- 2016- Office Hysteroscopic procedures, Society of Uterine and Endometrial Disease SUED *[Invited Lecture]*
- 2016 Live surgery presentation and PG course participant Mumbai India, AAGL *[Plenary Presentation]*
- 2016 Update on Adenomyosis therapy, European Society for Gynecologic Endoscopy *[Plenary Presentation]*

2016 Adenomyosis Overview, German Society for Gynecology (DGGGE)[*Plenary Presentation*]

b. Professional Leadership Roles related to Teaching

2001 International Karolinska Institute
Director of a seminar series on operative hysteroscopy and preceptor of live surgical cases

2003 National American Society for Reproductive Medicine
Organization of course syllabus, agenda, and presentation of two lectures: "Update on Uterine Fertility Surgery"

2003 National American Society for Reproductive Medicine
Organization of course syllabus and agenda and presentation of three lectures: "Update on Uterine Fertility Surgery"

2004 National Baptist Hospital
Organization of course agenda, syllabus, and lecturer: "Office Hysteroscopy"

2005 National American Association of Gynecologic Laparoscopists
Organization of course syllabus, agenda, and presentation of two lectures: "Hysteroscopy" and "Abnormal Uterine Bleeding"

2005 National American Association of Gynecologic Laparoscopists
Organization of course agenda, syllabus, and lecturer: "Hysteroscopy and Abnormal Uterine Bleeding"

2006 National American Association of Gynecologic Laparoscopists
"Hands On" Experience and Technology: Update on Hysteroscopy, Endometrial Ablation and Hysteroscopic Tubal Occlusion

2006 National American Association of Gynecologic Laparoscopists
Organization of course agenda, syllabus, and presentation of two lectures: "Hands-On Experience & Technology Update on Hysteroscopy", "Endometrial Ablation & Hysteroscopic Tubal Occlusion"

2006 National Celebration Hospital
Organization of course agenda, syllabus, and lecturer: "Diagnostic and Operative Hysteroscopy"

2006 International World Congress of Minimally Invasive Gynecologic Surgery
Organization of course agenda, syllabus and lecturer: "Operative Hysteroscopy"

2006 National American Society for Reproductive Medicine
Three lectures: "Evaluation of Leiomyomas: Imaging and Office Hysteroscopy", "Hysteroscopic Management of Myomas: Limitations and

Techniques", "Non-Excisional Surgical Therapy for Myomas (Ablation Techniques and Surgical Uterine Occlusion)"

- 2006 National American Association of Gynecologic Laparoscopists/Society of Reproductive Surgeons
Fellows Course: Operative Hysteroscopy, Laparoscopic Suturing, and Hysterectomy
- 2006 National American Association of Gynecologic Laparoscopists
Postgraduate Course: "Hands On" Hysteroscopy
- 2006 National American Association of Gynecologic Laparoscopists
Postgraduate Course: "Update on Office and Operative Hysteroscopic Techniques"
- 2006 National American Association of Gynecologic Laparoscopists
Organization of course syllabus, agenda, and presentation of three lectures: "Hands-On and Technological Update on Hysteroscopy", "Endometrial Ablation" and "Tubal Occlusion and Hysterectomy"
- 2007 Regional American Association of Gynecologic Laparoscopists
Postgraduate Course: "Hands On" Hysteroscopy
- 2007 National American Society for Reproductive Medicine
Lecture: "Office Hysteroscopy"
- 2007 International Society Italiana Endoscopia Gynecologica
Organization of course agenda, syllabus and Director of Laboratory Programs
- 2007 International German Society of Obstetrics and Gynecology
Live surgery demonstration
- 2007 National Professional Medical Education Association
Postgraduate Course: "Outpatient Gynecologic Procedures"
- 2008 National American Association of Gynecologic Laparoscopists
Postgraduate Course: "Hands On" Hysteroscopy
- 2008 National 37th Global Congress of Minimally Invasive Gynecology
Organization of agenda, syllabus, and lecturer
- 2008 International University of Tel Aviv, Sheeba Hospital
Design and presentation of the first "hands-on" lecture and laboratory course for hysteroscopy training in the State of Israel. Two day course in the Simulation Center at the University of Tel Aviv.

- 2009 National AAGL/SRS
Responsible for creating and implementing curriculum in diagnostic and operative hysteroscopy
- 2009 National American Association of Gynecologic Laparoscopy (AAGL)
Designed the agenda and skills lab, lectured and taught the skills lab to 80 gynecologist.
- 2010 National AAGL/ASRM
Organize lectures, present lectures and teach in hands-on laboratory
- 2010 National ASRM/AAGL
Setting course agenda, lecture and teaching hands on laparoscopic suturing and hysteroscopic skills to REI and AAGL fellow.
- 2010 National ASRM annual clinical meeting
Organize and lecture during the half day seminar on reproductive surgery.
- 2011- National AAGL
Designed the scientific program content for the AAGL annual clinical meeting including plenary lectures, debates, post graduate courses and abstract presentations
- 2013- International Nigerian Society of Gynecologic Surgery
Design the content for the one day seminar in Lagos Nigeria
- 2013- National American Society of Reproductive Medicine
Design lecture and hands on content for members of the ASRM attending the PG course
- 2015 National GlobalCastMd
This is a one day webinar CME course sponsored by GlobalCastMd
- 2017 International University of Rwanda
Created and taught a course for medical students, residents and attendings at the University of Rwanda, Kigali Rwanda at the Military Hospital of Rwanda
- 2017 National Philadelphia Medical Society
Create the half day course curriculum and taught the hands on lab sessions as well as the lectures

3. Description of Teaching Award(s) Received

1992 Resident Training Award, Department of Obstetrics and Gynecology,
Massachusetts General Hospital
Harvard Medical School

E. Report of Clinical Activities

1989-2001 Obstetrics and Gynecology, Reproductive Endocrinology Massachusetts
General Hospital

Clinical Activity Description: During my 12 years working only at
Massachusetts General Hospital (MGH), I was director of the resident
ambulatory service, director of reproductive endocrinology and director of
minimally invasive gynecologic surgery. My practice was 70% surgical and
30% nonsurgical related to infertility and advanced reproductive technologies.

Patient Load: 60-70 patients per week; Complex surgical cases primarily
referred from practicing gynecologists

Clinical Contributions: I helped develop a strong clinical program in minimally
invasive gynecologic surgery at the MGH. In the early 1990's I helped pioneer
laser excision of extensive endometriosis. In the mid 1990s I performed the first
laparoscopic sub total and total hysterectomy as well as the first laparoscopic
myomectomy at MGH. Beginning in 1998, I helped design the operating room
of the future project at MGH which is still being utilized as a working
laboratory for innovative minimally surgical procedures. I was involved in the
development of the assisted reproductive technology program at MGH.

Other Relevant Information: As a leader in the field of hysteroscopy and
hysteroscopic training, I have been invited to perform hands-on training in
London, England, Paris, France, Hamburg and Tubingen Germany, Jerusalem
and Tel Aviv, Israel, Mexico City, Mexico and Guatemala City, Guatemala. I
have been responsible for live telesurgery which was broadcast at the national
ASRM meeting in Washington DC in 2007.

2001- Obstetrics and Gynecology, Reproductive Endocrinology Newton Wellesley
Hospital

Clinical Activity Description: I began a clinical division, MIGS Unit
(Minimally Invasive Gynecologic Surgery), within the Gynecology
Department at Newton-Wellesley Hospital. This was the first division within
New England to focus solely on minimally invasive therapies for benign
gynecologic conditions in women. Our mission is to provide state-of-the-art
care, teaching of residents and fellows, and clinical research. The unit has been
successful in all three areas. The unit has two full-time faculty, one PGY-3
resident and one full-time fellow sponsored by the American Association of
Gynecologic Laparoscopists/Society of Reproductive Surgeons.

Patient Load: 60 patients per week; Complex due to 90% referred practice
pattern

Clinical Contributions: We have developed novel office-based procedures
including the hysteroscopic resection of polyps, myomata, intrauterine scar
tissue and uterine septae. We pioneered the placement of hysteroscopic tubal

occlusion devices and office- based endometrial ablation. We have also pioneered surgical simulation as a teaching tool for residents and fellows as well as the use of telestration for real-time surgical education.

Other Relevant Information: The MIGS Center at Newton-Wellesley Hospital was designed for state-of-the-art patient care and education. We have offered over 25 post graduate courses for physicians in the New England area interested in learning office-based procedures. I have been invited to be a surgical preceptor in all the New England states as well as Canada, Germany, France, England, Israel, and Mexico.

Part III: Bibliography

Original Articles

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