

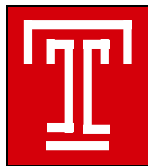
*ANNUAL REPORT*

**TEMPLE UNIVERSITY SCHOOL OF MEDICINE**

**DEPARTMENT OF OBSTETRICS, GYNECOLOGY & REPRODUCTIVE SCIENCES**

*JULY 1, 2007 THROUGH JUNE 30, 2008*

**“EXCELLENCE IN SERVICE”**



*SUBMITTED BY Enrique Hernandez, M.D.*

*PROFESSOR & CHAIR*

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During FY08 Temple's Department of Obstetrics, Gynecology and Reproductive Sciences continued to fulfill our vision that by doing our best we will be recognized as leaders in our community, city and region in clinical care, teaching and research.

We received over 400 applications to our residency program. We interviewed 80 candidates and filled all of our five categorical first-year residency positions through the residency matching program. Our one preliminary position was also filled by a candidate that was in the top one-half of our residency match program rank list.

Dr. Wadia Mulla rejoined the Division of Maternal Fetal Medicine after a one and one-half year hiatus. Dr. Mulla is board certified in both Maternal Fetal Medicine and Medical Genetics. Dr. Shaliz Dolan joined the Division of General Obstetrics and Gynecology. Dr. Dolan received her medical degree from the New York Medical College in Valhalla, New York. She completed a residency in Obstetrics and Gynecology at the University of Massachusetts Medical Center in Worcester. She is interested in minimally invasive gynecologic surgery.

Dr. Sunita Katari, one of our former residents and faculty, has been working in the laboratory of Dr. Carmen Sapienza studying epigenetic changes in the placentas and cord blood of pregnancies conceived through advanced reproductive technologies. She will rejoin our faculty on a part-time basis in FY09.

Our obstetrical research laboratory continues to be productive. The research laboratory is directed by Dr. Ossie Geifman-Holtzman. Dr. Geifman and her post-doctoral fellow, Dr. Yali Xiong, collaborate with Professors Dan Lieberman and Barbara Hoffman of the Fels Institute. This team again presented their findings at the annual meetings of the Society of Maternal Fetal Medicine and the Society of Gynecologic Investigation.

Members of the department continue to be co-investigators in several NIH-funded research studies and are applying for other grants. Dr. Deborah Nelson of the Department of Public Health of Temple's College of Health Professions in collaboration with our department received NIH funding to study the association of subtypes of bacterial vaginosis with premature labor. We continue to be a research site for several pharmaceutical industry-sponsored clinical trials with 6 active trials in FY08. The total research dollars expended in FY08 was \$381,731, which is \$80,000 more than in the previous year.

We continue to have a busy clinical practice with Relative Value Units (RVUs) in FY08 higher than in FY07. Our clinical practice revenue in FY08 was 66% higher than in FY04 and 10% higher than in FY07. When compared to FY07 there were 700 more patient visits to our private practice, 500 of them being new patients; and there were 100 more gynecologic oncology visits.

The obstetrical service remains stable. In FY08, 2,693 babies were delivered at Temple University Hospital, and 7674 visits to the obstetrical triage unit. The complexity of the obstetrical cases continues to be high with 2474 visits to our high-risk obstetrical service. In May 2007 Jeanes Hospital (one of Temple University Health System hospitals) closed its obstetrical unit. Since then the number of deliveries at Northeastern Hospital (another TUHS hospital) has almost doubled. Our division of maternal-fetal medicine provides obstetrical ultrasound services at Northeastern Hospital and mothers with high-risk pregnancies are transferred to Temple University Hospital for specialized care and delivery. In FY08 we performed over 5,000 obstetrical ultrasounds, 1848 biophysical profile/non-stress fetal tests, and 126 amniocenteses. In addition, there were 1459 visits/tests or procedures at our Maternal Fetal Medicine satellites.

In FY08, 799 major and 567 minor gynecologic procedures were performed at Temple University Hospital. This includes 188 procedures for suspected or documented gynecologic malignancies and 172 abdominal hysterectomies. We continue to be recognized for our expertise in vaginal and pelvic reconstructive surgery. There were 81 procedures for urinary incontinence and/or pelvic reconstructive surgery performed at Temple University Hospital in FY08.

Our midlevel residents spend a 5-week block each at the nearby Temple's Jeanes Hospital. In FY08 the gynecologists at Jeanes Hospital performed 584 major and 639 minor surgical procedures. This includes 54 operative laparoscopic procedures, 83 abdominal and 11 vaginal hysterectomies. Our residents continue to rotate to Holy Redeemer Hospital where they gain experience in reproductive endocrinology and infertility. At Holy Redeemer Hospital there were 165 abdominal and 51 vaginal hysterectomies performed in FY08. Dr. Martin Freedman and Dr. Arthur Castelbaum, who are based at Holy Redeemer Hospital Medical Office Building, are the co-directors of our Reproductive Endocrinology and Infertility Division. In addition to being responsible for the training of our residents in their subspecialty, they give eight grand rounds lectures per year and one lecture per block to the junior medical students. They also offer an elective in reproductive endocrinology and infertility to our senior medical students. They provide outpatient consultation services at our private practice at Temple University Hospital.

In the months, years and decades to come we will continue to strive to completely fulfill our mission:

TO BE A LEADER IN OUR COMMUNITY, CITY AND REGION IN OB/GYN  
CLINICAL CARE, TEACHING AND RESEARCH

We are guided by our values: Service, Excellence, Teamwork and Respect.

## II. FACULTY

### A. SUMMARY

#### 1. *Full-Time Faculty*

##### Division of Gynecologic Oncology

Enrique Hernandez, M.D., Director  
M. Bijoy Thomas, M.D.

##### Division of Maternal-Fetal Medicine

Dimitrios Mastrogiannis, MD, PhD, Director  
Claro Floro, M.D., Director OB Ultrasound  
Ossie Geifman-Holtzman, M.D., Director Research and Reproductive  
Genetics  
Wadia Mulla, M.D.

##### Division of Gynecology & General Obstetrics

Ashwin Chatwani, M.D., Director  
Bruce Mabine, M.D., Director Episcopal Clinic  
Carol Allen, M.D.  
Raymond Brown, M.D.  
Bruce Carnivale, D.O.  
Vani Dandolu, M.D.  
Shaliz Dolan, M.D.  
Claro Floro, M.D.  
Stacey Jeronis, M.D.  
Abegael Lorico, M.D.  
Marisa Rose, M.D.

##### Research

Sarmina Hassan, M.D., PhD

**Subtotal: 18**

#### 2. *Part-Time Faculty*

##### Division of Reproductive Endocrinology and Infertility

Arthur Castelbaum, M.D., Co-director  
Martin Freedman, M.D., Co-director

##### Obstetrics and Gynecology

Robert Filosa, M.D.  
Gerard Remé, M.D.

**Subtotal: 4**

3. *Joint Appointments*

Epidemiology

Deborah Nelson, PhD

Research

Carol Homko, PhD

Danny Dhanasekaran, PhD

**Subtotal: 3**

4. *Adjunct Faculty*

Abington Memorial Hospital  
Crozer Chester Medical Center  
Geisinger Medical Center  
Holy Redeemer Hospital  
Jeanes Hospital  
St. Luke's Hospital  
West Penn Hospital

**Subtotal: 91**

**4. Total Number of Faculty:**

B. NEW FACULTY

- Wadia Mulla, MD  
August 2008  
Assistant Professor of OB/GYN,  
Division of Maternal Fetal Medicine
- Shaliz Dolan, M.D.  
August 2008  
Assistant Professor of OB/GYN  
Division of Gynecology and General Obstetrics

C. FACULTY DEPARTURE - FY 2007

- Vijaya Vella, M.D. (moved to private practice in Georgia)  
July 2008

D. HONORS/PRIZES

**Ashwin Chatwani, MD**

1. Listed in Best Doctors 2008-2009
2. Association of Professors of Obstetrics and Gynecology Excellence in Teaching Award

**Claro Floro, MD**

1. Listed in Best Doctors 2008-2009

**Enrique Hernandez, MD**

1. Governor-At-Large American College of Surgeons (2006-2010).
2. Corporate Member Highmark (Blue Cross/Blue Shield).
3. President American Cancer Society Pennsylvania Division (2006-2008)
4. Delegate to the National Assembly American Cancer Society
5. Trustee, Board of Trustees Pennsylvania Medical Society (2007-2010)

**Dimitrios Mastrogiannis, MD, PhD**

1. Council of Resident Education in Obstetrics and Gynecology Teaching Award.



*Dr. Hernandez presenting at the 2007 Society of Gynecologic Oncologists business meeting*

## II. RESEARCH

### A. Research Grants

#### 1. Peer-Reviewed

##### **Enrique Hernandez, M.D.**

1. **Principal Investigator** at Temple for Gynecologic Oncology Group clinical trials (per capita funding), July 2000 to present.
2. **Site Principal Investigator.** Facilitating follow-up adherence for abnormal pap smears (NIH #1R01 CA104979) Fox Chase Cancer Center sub-contract (Suzanne Miller, PhD, Principal Investigator). (\$938,533 total to Temple University School of Medicine, 7/04 – 6/09).

##### **Ossie Geifman-Holtzman, M.D.**

1. Improving outcomes in underserved women with gestational diabetes mellitus. In collaboration with Drs. Homko and Santamore. Funded by NIH (\$412,500 total to Temple University School of Medicine, 7/2005 – 4/2008).
2. **Geifman-Holtman O: Site Principal Investigator.** Preterm delivery prevention. In collaboration with Dr. Culhane of Drexel University-Pennsylvania Tobacco Settlement Grant- \$12,000/year.

##### **Deborah Nelson, PhD**

1. BV-associated bacteria and adverse pregnancy. Funded by NIH (\$1,347,980 in direct costs to Temple University, 4/2008 -3/2012).
2. Commercial/Industrial/Governmental

##### **Raymond Brown, M.D.**

1. A Multicenter, Open-Label, Phase II Study of the Pharmacokinetics and Safety of the 100 mcg Misoprostol Vaginal Insert (MVI 100) in Women Requiring Cervical Ripening and Induction of Labor. Cytokine Pharmasciences, Inc.

##### **Ashwin Chatwani, M.D.**

1. A Clinical Study of the Treatment of Recurrent Bacterial Vaginosis with the Waterworks Douching Device. Abbott Research Group

2. A Randomized, Prospective, Double-Blinded, Multicenter Comparison Study of the Experimental/Investigational Douching Device Versus a Commercially Available Over the Counter Douching Device for the Reduction or Abatement of Perceived Vaginal Odor with or without Complaints of Discharge in Women with no Infectious Cause of Vaginitis. Abbott Research Group

B. TOTAL RESEARCH DOLLARS EXPENDED: \$ 380,731 (FY2008)

C. New Research Programs

**Ashwin Chatwani, M.D.**

- 1 A multi-center, randomized, controlled study to investigate the safety and tolerability of intravenous ferric carboxymaltose (FCM) vs. standard medical care in treating iron deficiency anemia in heavy uterine bleeding and postpartum patients. Luitpold
2. Rapid vaginal yeast infection test. Savyon

**Ossie Geifman-Holtzman, M.D**

1. Premature Rupture of membranes in HIV pregnant patients – balancing Prematurity and risk of HIV transmission (\$25,000). March of Dimes
- 2.. Support of research for prenatal birth defects (\$30,736). The Philadelphia Foundation

D. DEPARTMENT MEMBERS SERVING AS GRANT/AWARDS REVIEWERS

Enrique Hernandez, MD, American Cancer Society Southeast Pennsylvania Scientific Award

E. Journal Reviewers/Editorial Board

American Journal Obstetrics and Gynecology  
Obstetrics and Gynecology  
Journal of Reproductive Medicine  
Gynecologic Oncology  
Journal National Medical Association  
Cancer  
Prenatal Diagnosis Journal  
Journal of Maternal-Fetal Medicine

International Journal of Gynecology and Obstetrics  
 International Journal of Urogynecology  
 European Journal of Obstetrics, Gynecology and Reproductive Biology  
 Obstetrics and Gynecology Journal International (Editorial Board)

**IV. TEACHING PROGRAM**

A. Professional Students

1. Medical Students Program

This program is directed by Dr. Bruce Mabine. The site program directors contribute to program development, and other related matters. The final examination is given in the standardized format (shelf-exams). There is also a mid-term exam. Questions for this examination have been revised. The students' performance in OB/GYN in the USMLE is satisfactory, and residency placement is excellent.

**Clinical Affiliates Used for Teaching Medical Students**

Stephen Smith, M.D. Course Director Department of OB/GYN <b>Abington Memorial Hospital</b> 1235 Old York Road Abington, PA 19001	Anne Raunio, M.D. Course Director Department of OB/GYN <b>Crozer-Chester Medical Center</b> 1 Medical Center Boulevard, Suite 332 Pearl Hall Upland, PA 19013
James Anasti, M.D. Program Director Department of OB/GYN <b>St. Luke's Hospital</b> 801 Ostrum Street Bethlehem, PA 18015	Christann Jackson, M.D. Course Director <b>West Penn Hospital</b> 4800 Friendship Avenue Pittsburgh, PA 15224
Paul Swanson, M.D. Course Director <b>Geisinger Medical Center</b> 100 N. Academy Ave. Danville, PA 17822	

a. Program Accomplishments:

1. Four students from the class of 2008 applied for an Ob/Gyn residency.

2. FY08 is the sixth consecutive year of a successful OB/GYN sub-internship.
  3. Self-study computer programs in colposcopy & obstetrics.
- b. Several faculty members have 3<sup>rd</sup> year students observe during their private office hours.
  - c. Lunch sessions are held with the 3rd year students every Wednesday at Temple University Hospital.
  - d. Faculty members from Temple University School of Medicine, Temple University Hospital, Crozer-Chester Hospital and Abington Memorial Hospital participate in the core lecture series every Friday afternoon and all Temple students in their OB/GYN block who are in Southeast Pennsylvania attend.

The following Temple University School of Medicine students were accepted into an Obstetrics and Gynecology residency in 2008:

Karina Menconi	Thomas Jefferson University, PA
Katrina Daley	University of Maryland, MD
Mitchell Linder	University of Rochester/Strong Memorial Hosp., NY
Charlotte Paz-Pabon	Temple University, PA

The following electives are available at Temple University Hospital and other Temple University School of Medicine affiliates:

Temple University Hospital:

- Women's Health
- Outpatient Gynecology
- Outpatient Obstetrics and Gynecology
- Gynecologic Oncology
- Maternal Fetal Medicine
- Urogynecology
- Obstetrics and Gynecology Sub-internship

Abington Memorial Hospital:

- Obstetrics and Gynecology
- Maternal Fetal Medicine
- Gynecologic Oncology
- Reproductive Endocrinology

Crozer-Chester Medical Center:

- Obstetrics and Gynecology
- Gynecologic Oncology
- Outpatient Obstetrics and Gynecology
- Reproductive Endocrinology
- Perinatology

Holy Redeemer Hospital:  
Reproductive Endocrinology & Infertility

St. Luke's Hospital:  
Maternal Fetal Medicine  
Obstetrics and Gynecology Sub-internship

West Penn Medical Center:  
Gynecologic Oncology  
Maternal Fetal Medicine  
Reproductive Endocrinology  
Obstetrics and Gynecology Sub-internship

2. Department of OB/GYN/RS's Involvement with Other Professional Programs

- a. Temple University Undergraduate Pre-medicine Program  
Shadowing Program for Pre-Med Students

Dr. Mabine represents the department in the Temple University undergraduate "shadowing" program. Pre-med students from Temple University spend one half-day a week during clinical hours with Dr. Mabine and several other Ob/Gyn faculty members. This program is directed by Dr. Bill Nathan, Premed Advisor at Temple University Main Campus.

- b. Nurse Practitioner students from Temple University College of Allied Health graduate program in nursing. Program Director: Lori Martin-Plank, PhD (c), MSPH, MSN, APRN.
- c. Internal medicine residents of Temple University Hospital residency program spend time in our clinics. Emergency Department and Family Practice residents from Abington Hospital and Temple University Hospital spend time in the labor and delivery unit and/or our clinics.
- d. Training site for Arcadia University Master of Genetic Counseling program.



### 3. Residency Program

Dr. Vani Dandolu directs the Residency Program, and Dr. Stacey Jeronis is the Associate Director. It is a fully approved 4-year program with five residents at each level plus a 6<sup>th</sup> non-categorical (preliminary) intern. In addition, family practice and emergency medicine residents rotate through our department. The Accreditation Council for Graduate Medical Education (ACGME) conducted a scheduled site visit of our program in June 2007. The program continues to be accredited. The next program review will occur in 2011.

#### Clinical

At Temple University Hospital, the OB/GYN residents rotate through obstetrics, maternal-fetal medicine, gynecology, urogynecology, gynecologic oncology, emergency medicine, internal medicine, and the surgical intensive care unit. At Holy Redeemer Hospital, they gain additional experience in gynecologic surgery (with emphasis in laparoscopy), gynecologic ultrasonography, and reproductive endocrinology and infertility. Additional experience in general gynecology and diseases of the breasts is obtained at Jeanes Hospital. Exposure to pregnancy terminations occurs at the South Jersey Women's Center, as well as at Temple University Hospital.

#### Education and Research

We continue to hold formal education presentations on Wednesday mornings from 7:30 AM to 10:30 AM to include Grand Rounds, Morbidity and Mortality Review, Journal Club, Case Presentations and Book Chapters review. The Gynecology Tumor Board meets every Wednesday from 10:30 AM to noon. Chairman rounds are on Tuesdays at 7:00AM.

On December 12, 2007, we held our 47<sup>th</sup> Annual Isador & Rose Forman Symposium funded by the Forman family. Our visiting lecturer was Dr. Victoria Handa, associate professor of gynecology and obstetrics (urogynecology) at The Johns Hopkins School

of Medicine. Our senior residents presented their research theses, which are listed below, at this meeting:

Ichchha Madan, MD

ICU admissions amongst pregnant patients

Gayatri Maniar, MD

A randomized, prospective, double-blind study of the experimental/investigational douching device versus a commercially available over the counter douching device for the reduction or abatement of perceived vaginal odor with or without complaints of discharge in women with no infectious cause of vaginitis

Christopher S. Sliwinski, MD

Obstetrical outcomes based on gestational weight gain: reevaluation of IOM guidelines

Marina Milli, MD

Self-perception of body size in females at an inner city family planning clinic

Future Plans

The Residency Review Committee last reviewed our residency program in June 2007. Our program was fully accredited. The next site visit will be in 2011. We are in compliance with the work hour rules mandated by the ACGME. We closely monitor the residents' schedule and make necessary adjustments. We continue to closely monitor the residents' clinical experience and competency. Educational objectives based on the general ACGME competencies, by PGY level and by clinical rotation have been developed.

<u>Residency Program:</u>	ACGME Full Accreditation.
<b>PGY-IV</b>	5
<b>PGY-III</b>	5
<b>PGY-II</b>	5
<b>PGY-I</b>	6
<b>TOTAL</b>	<b>21</b>

*Graduating Residents June 2007*

Ichchha Madan, MD Academic Medicine Saginaw, WI	Gayatri Maniar, MD Private Practice London, KY
Christopher Sliwinski, MD Private Practice Bucks County, PA	Marina Milli, MD Private Practice Argentina
Reginald Peek, MD Will complete residency in January 2009	

## V. GRAND ROUNDS PROGRAM

**Marisa Rose, MD**

**FY08 Director**

### **Continuing Medical Education Program 2007-2008**

July 11, 2007

7:30 OB M&M

*Fatty Liver in Pregnancy*

Gayatri Maniar, MD

Department OB/GYN & RS

Temple University Hospital

8:30 Fibroids

Raymond D. Brown, MD

Department OB/GYN & RS

Temple University Hospital

July 18, 2007

7:30 Journal Club

*The feasibility, success and patient satisfaction associated with outpatient hysteroscopic sterilization.*

Use of Selective Serotonin-Reuptake Inhibitors in Pregnancy and the Risk of Birth Defects

Sushma Potti, MD

Marina Milli, MD

Department OB/GYN & RS

Temple University Hospital

8:30 GYN Chemotherapy

Enrique Hernandez, MD

Department OB/GYN & RS

Temple University Hospital

July 25, 2007

7:30 GYN M&M – *Gastrointestinal Stromal Tumor*

Marina Milli, MD

Department OB/GYN & RS

Temple University Hospital

8:30 Diagnostic Challenges and Treatment Expectations in the Gynecology Practice

Mitesh Parekh, MD

Department of OB/GYN, Section of Urogynecology

Geisinger Medical Center

Danville, PA

August 1, 2007

7:30 Intimate Partner Violence

Anuradha Paranjape, MD  
Department of Internal Medicine  
Temple University Hospital  
8:30 Pain Management  
Rachel Clark-Vetri, PhD  
Clinical Associate Professor  
Temple University School of Pharmacy

August 8, 2007

7:30 HIV and Pregnancy  
Ellen Tedaldi, MD  
Department of Medicine  
Temple University Hospital  
8:30 Counseling and Testing of the Pregnancy Woman  
Dr. David Rubenstein  
AIDS Education and Training Center  
Drexel University College of Medicine HIV  
Debra D'Alessandro  
Pennsylvania/MidAtlantic AIDS Education and Training Center  
Health Federation of Philadelphia

August 15, 2007

7:30 Journal Club  
*“Prepregnancy Weight, Inappropriate Gestational Weight Gain, and Smoking: Relationships to Birth Weight”*  
*“Magnitude and Economic Impact of Inappropriate Use of Stress Ulcer Prophylaxis in Non-ICU Hospitalized Patients”*  
Chris Sliwinski, MD  
Madelyn Gonzalez, MD  
Department OB/GYN & RS  
Temple University Hospital  
8:30 OB M&M *Peripartum Cardiomyopathy*  
Karla Bermudez Wagner, MD  
Department OB/GYN & RS  
Temple University Hospital

August 29, 2007

7:30-9:00  
Radiation Biology and Physics  
Enrique Hernandez, MD  
Department OB/GYN & RS  
Temple University Hospital  
Kurt Bodison  
Radiation Safety Department  
Temple University Hospital

Sept 5, 2007

7:30 GYN/ONC M&M “*Ifosfamide Toxicity*”  
Ichchha Madan, MD  
Department OB/GYN & RS  
Temple University Hospital

Sept. 12, 2007

7:30 Technological Advances in the Detection of Human Papillomavirus  
Stephen P. Day, PhD  
Director, Medical Affairs  
Third Wave Technologies

8:30 GYN M&M “*Post Operative Small Bowel Obstruction*”  
Chris Sliwinski, MD  
Department OB/GYN & RS  
Temple University Hospital

Sept. 19, 2007

7:30 What’s New in Contraception  
Kurt Barnhart, MD  
Hospital of the University of Pennsylvania  
Department of OB/GYN

8:30 Journal Club  
“*Complications of labor induction among multiparous women in a community-based hospital system*”  
“*Risk factors for primary and subsequent anal sphincter lacerations: a comparison of cohorts by parity and prior mode of delivery*”  
Gayatri Maniar, MD  
Jose DeLaMota, MD  
Temple University Hospital  
Department of OB/GYN & RS

Oct. 10, 2007

7:30 Urodynamics for Evaluation of Female Voiding Dysfunction  
William Jaffe, MD  
Department of Urology  
Temple University Hospital

8:30 GYN/ONC M&M “*Recurrent Pleural Effusions in a Patient with Recurrent Ovarian Cancer*”  
Chris Sliwinski, MD  
Department of OB/GYN & RS  
Temple University Hospital

Oct. 17, 2007

7:30 Journal Club  
“*Outcomes at 2 years of age after repeated doses of antenatal corticosteroids*”  
“*Long term outcomes after repeat doses of antenatal corticosteroids*”

8:30 Update on Pharmacologic Treatment Options for Nausea and Vomiting in Pregnancy  
Robert W. Rossi, RPH – CDE  
Matria Healthcare

Oct. 24, 2007

7:30 Obstetric Hemorrhage  
Ashwin Chatwani, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Professional Liability and Risk Management: Records and Documentation  
Marisa Rose, MD  
Department of OB/GYN & RS  
Temple University Hospital

Oct. 31, 2007

7:30 OB M&M “*CMV Infection*”  
Ichchha Madan, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 GYN M&M “*Rectovaginal Fistula*”  
Gayatri Maniar, MD  
Department of OB/GYN & RS  
Temple University Hospital

Nov. 7, 2007

7:30 Pelvic Organ Prolapse  
Vani Dandolu, MD  
Department of OB/GYN & RS  
Temple University Hospital

Nov. 14, 2007

7:30 Geriatrics Overview for Sub-Specialty Physicians  
John D. Cacciamani, MD, MBA  
Chief of Clinical Operations and Informatics – Temple University Hospital  
Associate Director of the Temple School of Medicine’s Institute on Aging

8:30 OB M&M “*Holoprosencephaly and Dandy Walker Malformations – Sonographic Presentations*”  
Marc Jean-Gilles, DO  
Department of OB/GYN & RS  
Temple University Hospital

Nov. 28, 2007

7:30 Diagnosis and Management of Open Neural Tube Defects  
Dimitrios Mastrogiannis, MD  
Department of OB/GYN & RS  
Temple University Hospital

Dec. 5, 2007

7:30 Ultrasound Evaluation of Twin Gestation  
Dimitrios Mastrogiannis, MD  
Department of OB/GYN & RS  
Temple University Hospital

Dec. 19, 2007

7:30-9:30  
Care of the Sexual Assault Victim and Evidence Collection Procedures  
Patricia Roussel, RN  
Ari Schwell, MD  
Emergency Department, TUHE

Jan. 9, 2008

7:30 Gestational Trophoblastic Neoplasia  
Enrique Hernandez, MD  
Department of OB/GYN & RS  
Temple University Hospital

Jan. 16, 2008

7:30 Amenorrhea  
Art Castelbaum, MD  
Northern Fertility, Abington, PA  
Division Reproductive Endocrinology & Infertility  
Temple University School of Medicine  
8:30 Evidenced Based Infertility  
Art Castelbaum, MD  
Northern Fertility, Abington, PA  
Division Reproductive Endocrinology & Infertility  
Temple University School of Medicine

Jan. 23, 2008

7:30 Vaginal Atrophy  
Jackie Gutmann, MD  
Division of REI  
Thomas Jefferson School of Medicine

Feb. 6, 2008

7:30 Current Topics in Breast Surgery  
Kathleen Reilly, MD  
Temple University Hospital  
Department of Surgery

Feb. 20, 2008

7:30 Interstitial Cystitis  
Mark Toglia, MD

Department of OB/GYN  
Thomas Jefferson University Medical College  
8:30 Journal Club  
Marisa Rose, MD  
Department of OB/GYN & RS  
Temple University Hospital

Feb. 27, 2008

7:30 TUP Compliance  
Jan Donaghy  
Temple University Physicians  
Compliance & Privacy Department  
8:30 OB M&M “*Preterm Labor at 35 weeks*”  
Chris Sliwinski, MD  
Department of OB/GYN  
Temple University Hospital

Mar. 5, 2008

7:30-9:30  
Identifying and Managing Hereditary Breast and Ovarian Cancer Syndrome  
Harvey S. Marchbein, MD  
Department of OB/GYN  
NYU

Mar. 12, 2008

7:30 Journal Club – *PCOS*  
Madelyn Gonzalez, MD  
Department of OB/GYN & RS  
Temple University Hospital  
8:30 Menopause – Part One  
Abegael Lorico, MD  
Department of OB/GYN & RS  
Temple University Hospital

Mar. 19, 2008

7:30 OB M&M “*Digitalis in Pregnancy from Botched Abortion*”  
Reginald D. Peek, MD  
Department of OB/GYN & RS  
Temple University Hospital  
8:30 Physiology and Prevention of Postmenopausal Osteoporosis  
Suzanne Kavic, MD  
Division of REI  
Western Pennsylvania Hospital

Mar. 26, 2008

7:30 Can We Predict or Prevent Preterm Delivery?  
Anthony Vintzelos, MD  
Department OB/GYN

8:30 Winthrop University Hospital  
Antepartum Testing and IUGR  
Anthony Vintzelos, MD  
Department OB/GYN  
Winthrop University Hospital

Apr. 2, 2008

7:30 Ultrasound in Obstetrics  
Dimitrios Mastrogiannis, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Oncology M&M  
Gayatri Maniar, MD  
Department of OB/GYN & RS  
Temple University Hospital

Apr. 9, 2008

7:30 Hysterectomy  
Vani Dandolu, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 GYN M&M “*Cervical Ectopic Pregnancy*”  
Karla Wagner, MD  
Ichchha Madan, MD  
Department of OB/GYN & RS  
Temple University Hospital

Apr. 16, 2008

7:30 Journal Club  
“*Management of miscarriage: expectant, medical, or surgical? Results of randomized controlled trial (miscarriage treatment (MIST) trial)*”  
“*A trial of 17 alpha-hydroxyprogesterone caproate to prevent prematurity in twins*”

Lea Tuzovic, MD  
8:30 Approach to the Adolescent Patient  
Joan Adler, MD  
Associate Professor  
Temple University Children’s Medical Center  
Pediatric Primary Care

Apr. 30, 2008

7:30 PID  
Ashwin Chatwani, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Ovarian Germ Cell Tumors  
Enrique Hernandez, MD

Department of OB/GYN & RS  
Temple University Hospital

May 7, 2008

7:30 Onc M&M “*Vaginal Evisceration*”

Gayatri Maniar, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Pelvic Anatomy

M. Bijoy Thomas, MD  
Department of OB/GYN & RS  
Temple University Hospital

May 14, 2008

7:30 GYN M&M “*Pulmonary embolism*”

Ichchha Madan, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 OB M&M “*Shortness of breath and hypertension at 31 weeks*”

Chris Sliwinski, MD  
Department of OB/GYN & RS  
Temple University Hospital

May 21, 2008

7:30 Journal Club

“*Preimplantation genetic testing: a practice committee opinion*”  
“*In vitro fertilization with preimplantation genetic screening*”

Susma Potti, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Fertility Preservation

Art Castlebaum, MD  
Northern Fertility, Abington, PA  
Division Reproductive Endocrinology & Infertility  
Temple University School of Medicine

May 28, 2008

7:30 Pelvimetry

Dimitrios Mastrogiannis, MD  
Department of OB/GYN & RS  
Temple University Hospital

8:30 Abnormal Uterine Bleeding

Vani Dandolu, MD  
Department of OB/GYN & RS  
Temple University Hospital

June 4, 2008

- 7:30 Bacterial Vaginosis and SPTB  
Deb Nelson, PhD  
Department of OB/GYN & RS  
Temple University Hospital
- 8:30 Menopause Part II  
Abegael Lorico, MD  
Department of OB/GYN & RS  
Temple University Hospital

June 11, 2008

- 7:30 Oncology M&M  
Reginald Peek, MD  
Department of OB/GYN & RS  
Temple University Hospital
- 8:30 Hepatitis vaccines  
Joan Adler, MD  
Pediatrics / Primary Care  
Temple University Children's Hospital

June 18, 2008

- 7:30 Forceps / Vacuum Delivery  
Dimitrios Mastrogiannis, MD  
Department of OB/GYN & RS  
Temple University Hospital
- 8:30 HIPAA  
Annemarie Martin-Boyan  
Office of Counsel, Temple University Health System

June 25, 2008

- 7:30 Journal Club – “How to Read the Medical Literature”  
Amy Lyons, MD  
Department of OB/GYN & RS  
Temple University Hospital
- 8:30 OB M&M -  
Jennifer Cox, MD  
Department of OB/GYN & RS  
Temple University Hospital

## VI. CLINICAL PROGRAMS

### A. DIVISIONS REPORT

#### 1. Gynecologic Oncology

The Division of Gynecologic Oncology counts with two gynecologic oncologists: Enrique Hernandez, MD, FACOG, FACS who directs the Division and Dr. M. Bijoy Thomas. The Division counts with two oncology nurses and one nurse assistant. In addition to the gynecologic oncologists an Ob/Gyn colposcopist and a nurse colposcopist staff the Division's colposcopy clinic. The mission of the Division is to provide comprehensive care to women with malignant and premalignant gynecologic conditions within the Temple Health Care System. The gynecologic oncologists perform surgery ranging from minimally invasive to radical surgery (including intestinal and urological). Difficult or high-risk surgery for benign gynecologic pathology is also performed, as well as laser surgery of the lower genital tract.

#### Clinical

The Division continues to use two full days (Tuesdays and Thursdays) in the operating room. On occasions the overflow of cases is scheduled on Mondays or Fridays. The Division of Gynecologic Oncology provides outpatient and inpatient chemotherapy for women with gynecologic cancers. The average number of patients receiving chemotherapy has increased from less than 10/month in 1998 to over 30/month. The Division of Gynecologic Oncology cooperates with the radiation oncologists in providing radiation therapy to women with gynecologic malignancies. We perform all radioactive implants for gynecologic cancers in conjunction with the radiation oncologists. Two to four radioactive implants are done every month. We perform difficult intrauterine implants under ultrasound guidance.

The Division has separate Colposcopy and Tumor Clinics. The Colposcopy Clinic meets on Monday afternoon in the Hudson Building (at Carlisle St.). Over 20 patients are seen at each clinic session. The clinic is staffed by the gynecologic oncologists and by an obstetrician/gynecologist experienced in colposcopy. A nurse practitioner who specializes in the management of HIV seropositive patients and who is certified in colposcopy sees HIV infected patients. Many of these patients she also follows in the general medicine clinic for their HIV-related issues. A weekly multidisciplinary conference directed by Dr. Hernandez reviews colposcopy clinic cases. We also have a Wednesday afternoon session where the chief resident on the oncology service discusses with the patients the pap smear, biopsy results, and treatment plans as established by the Division faculty. Cryocautery continues to be used in the clinic to treat

cervical dysplasia when appropriate. However, the residents are exposed to all the modern diagnostic and treatment modalities to include laser, LEEP, and conization. The Tumor Clinic meets on Friday afternoon at the Temple Cancer Center (4<sup>th</sup> floor Ambulatory Care Center). This provides the patients who are undergoing cancer therapy with on-site laboratory, pharmacy, social work support, nutritionist and infusion capabilities. Through a team approach and the efforts of the Hudson Clinic and Cancer Center personnel, the Division is able to provide excellent care to over 50 patients each week.

Dr. Thomas and Dr. Hernandez also see patients in the Outpatient Building of Temple University Hospital, one-half day session a week. Even though the bulk of the clinical efforts of the Division are at Temple University Hospital, consultation services continue to be provided at Jeanes Hospital and at Holy Redeemer Hospital. At each one of these sites, the Division faculty sees patients one half day per week. We also provide surgical consultation services at Montgomery Hospital. Over 180 major surgical procedures were performed at Temple University Hospital in 2007-08 for gynecologic cancer or suspected gynecologic malignancy. Over two dozen cases were performed at the other sites we serve.

### Education

All third-year medical students assigned to Temple University Hospital spend two weeks in the Gynecologic Oncology Service. Teaching/work rounds by the attending staff with the residents and the students are consistently done every day. The students are assigned patients to follow. They present and discuss their patients on rounds. The Division's faculty gives at least one formal lecture to the third-year medical students during each block. The Division Faculty gives at least one grand rounds lecture per quarter. The Division continues to have a weekly multidisciplinary gynecologic tumor board. All active cases are discussed and presented including patients receiving chemotherapy or radiation therapy. This is a teaching/working conference with participation of residents and students.

Our residents participate not only in the surgical management of women with gynecologic malignancies, but also are involved in the administration of chemotherapy, the placement of intracavitary Cesium implants and the surgical and medical management of complications due to the malignancy or its therapy.

### Research

We continue to actively participate in Gynecologic Oncology Group (GOG) clinical trials. Five GOG protocols are currently approved by our IRB and open for patient entry. The Division is a subcontractor on one Fox Chase Cancer Center NIH-funded grant that studies barriers to adherence

with clinical management recommendations in patients with abnormal pap smears in minority populations. Several retrospective studies have been completed and presented at national meetings. These include outcome analysis of our patients with uterine malignant mixed mesodermal tumors, locally-advanced cervical cancer, stage IB1 squamous cell carcinoma of the cervix and clinical stage I endometrial carcinoma. We also looked at the colposcopic findings in pregnant women with minimally abnormal pap smears.

### Other

The Division members have been active publishing and lecturing. In addition, Dr. Hernandez continues to be a reviewer for several specialty journals and editor of the online Journal of Obstetrics and Gynecology International. He was recently elected to the Board of Trustees of the Pennsylvania Medical Society. He is the president of the Pennsylvania Division of the American Cancer Society and is a delegate to the National Assembly. He is on the American Cancer Society Pennsylvania Southeastern region awards committee. He is governor-at large of the American College of Surgeons and a member of the committee that studies the fiscal affairs of the College. He is an active member of several medical societies to include past president of the Philadelphia County Medical Society, past president of the Obstetrical Society of Philadelphia, past-president Philadelphia Colposcopy Society, past-president of the Philadelphia Chapter of the American College of Surgeons, past-president of the Society of Ibero-Latin American Medical Professionals, past-president Mid-Atlantic Gynecologic Oncology Society, member of the House of Delegates of the Pennsylvania Medical Society, chair of the Society of Gynecologic Oncologists Bylaws committee, past-president of the Pfahler Foundation of the Philadelphia County Medical Society, member of the Development Working Group of the Health Leadership Partnership of the City of Philadelphia, and member of the Advisory Council Pennsylvania Section of the American College of Obstetricians and Gynecologists.

### Future Plans

Maintain and grow our clinical practice and our clinical trials portfolio.

## **2. Maternal-Fetal Medicine**

In the academic year of 2007-2008, the Division of Obstetrics and Maternal Fetal Medicine continued to fulfill its mission of providing prenatal care to women with high-risk pregnancies and to oversee the prenatal and obstetrical care of all patients at Temple University Hospital. The division

provided perinatal services through two board-certified perinatologists and an obstetrician with expertise in perinatal ultrasound. The MFM team also included two clinical nurse coordinators (one in the high-risk outpatient offices and the other in the Perinatal-Fetal Center). Genetic counseling was covered by one board-certified genetic counselor and genetic counseling interns through Arcadia University. Three full-time sonographers performed ultrasounds. The MFM service includes a PGY-3 resident.

### Clinical Activities

The Maternal Fetal Medicine division provides high-risk obstetrical services in an out-patient and inpatient setting. The Maternal Fetal Medicine specialists staff a high-risk pregnancy clinic and a high-risk diabetes clinic on a weekly basis. The combination of broad and deep knowledge in the field of maternal fetal medicine and the available advanced technology enables the team to provide the most up-to-date medical management.

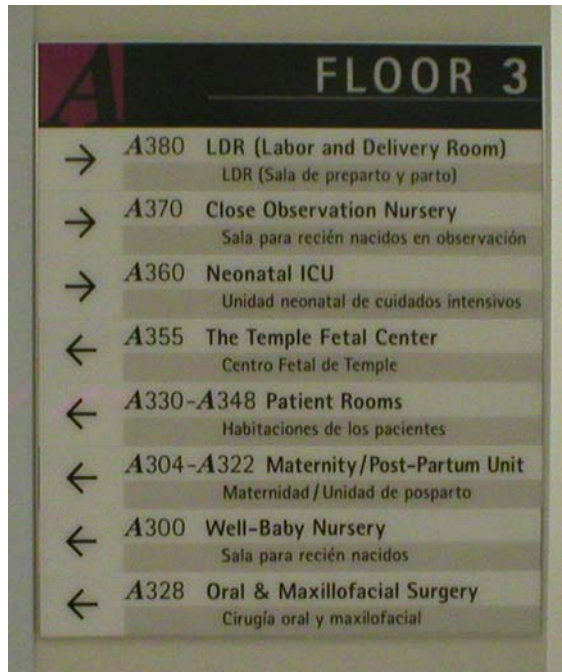
Through the use of ultrasonography, MFM physicians have been performing fetal diagnosis and fetal therapy. The perinatologists provided inpatient and out-patient consultation at Temple University Hospital, Northeastern Hospital, and Central Montgomery Medical Center. Through a very active transfer service, high-risk pregnancies that cannot be managed in other facilities are transported to Temple University Hospital under the care of the MFM service.

Pregnant patients with various medical, surgical, and obstetrical complications including diabetes, hypertensive disorders, poor obstetrical history, history of pregnancy losses, multifetal pregnancies, surgical problems, or cancer have been taken care of at Temple University Hospital.

### Prenatal Genetics

Genetic counseling is an integral part of the Division of Obstetrics and Maternal Fetal Medicine. The division has provided advanced genetic services and testing to all inpatients and out-patients as clinically indicated. The services are currently provided by a board-certified genetic counselor and two board-certified perinatologist/clinical geneticists. The most frequent genetic problems encountered include advanced maternal age, abnormal maternal serum screening, history of genetic syndromes, and abnormal ultrasound findings. Eight hundred and three patients received genetic counseling through Temple University Hospital's services in 2007-2008. Genetic services have been supplemented to cover underinsured patients through a grant from the Commonwealth of Pennsylvania Department of Health.

The fetal treatment program includes procedures such as cordocentesis, fetal transfusion, fetal paracentesis, amniocentesis, and chorionic villus sampling. Additional services include selective reduction. The traditional second trimester prenatal diagnosis screening test has been augmented through a first trimester screen, which is now encouraged for all pregnant patients. Paternity testing has also been performed in collaboration with the DNA Diagnostic Laboratory. (**Charts 1 and 2** at the end of this document summarize our genetic services).



### MFM Activities

#### Temple Perinatal Center-Fetal Center

At Temple University Hospital there has been a long standing Perinatal-Fetal Center, which provides comprehensive prenatal diagnosis, treatment, and antepartum fetal testing in the high-risk pregnant patients. The Fetal Center operates 5 days per week and is staffed by the attending perinatologist and attending obstetrician with ultrasound specialization. It is supplemented by a full-time perinatal nurse, three ultrasonography technicians and support staff. The Fetal Center provides comprehensive maternal fetal medicine and genetic consultations for the high-risk patients of Temple University Health Care System and a number of other referring centers. The available equipment includes a GE Voluson 730 3D/4D ultrasound machine, an ATL, and an Acuson.

During 2007-2008, we performed a total of 4,924 ultrasound examinations and procedures at Temple's Perinatal-Fetal Center. We performed 1,848 biophysical profiles and non-stress tests. There were 126 amniocentesis

performed for genetic indications or to determine fetal lung maturity. The procedures performed are summarized in **Chart #3**.

#### Perinatal Genetics

Perinatal genetics is an integral part of the Maternal Fetal Medicine division. It is under the direction of Ossie Geifman-Holtzman, MD and Ms. Janet Ober Berman, MS, CGC. The program provides and disseminates genetic information, coordinates screening for genetic disorders of the mother and fetus, and provides genetic counseling to the obstetric and preconceptional patients as needed. Its educational activities include training of medical students, OB/GYN residents and genetic counseling interns. Temple's perinatal genetic program is a clinical training site for Arcadia University's Masters of Genetic Counseling program. The genetics program provides genetic consultation to other affiliated hospitals in the Philadelphia area, such as Central Montgomery Medical Center and Northeastern Hospital.

#### MFM Satellite Activities

The Temple University Hospital perinatologists provide maternal fetal medicine and genetic services to affiliated hospitals in the Philadelphia area. Hospitals that have been served include Northeastern Hospital and Central Montgomery Medical Center (see **Chart #4**). The services include consultations, ultrasound examinations, prenatal diagnosis and antenatal fetal surveillance. In addition to the satellite consultations, there is an active transfer system that provides tertiary care service to obstetric patients who cannot be taken care of at satellite hospitals.



#### Obstetrics Service

The Maternal Fetal Medicine division supervises the high-risk patients of the obstetrical service. The total number of deliveries in 2007-2008 was

2693 with a cesarean rate of 30%. **Chart #5** demonstrates the total number of deliveries for 2007-2008 and for recent fiscal years. **Chart #5** shows the mode of delivery. In FY08 Temple faculty members provided routine prenatal care at five sites: Hudson Clinic, Temple University Hospital out-Patient Building, City of Philadelphia Health District 6 Clinic, Episcopal Hospital and at Roxborough Hospital Medical Office Building. **Charts 7-9** demonstrate the number of new and return obstetric visits to Temple's Center for Women's Health (Hudson Clinic, Temple University Hospital out-Patient Building) and to the City of Philadelphia Health District 6 Clinic, with a comparison to recent fiscal years. **Charts 10 and 11** demonstrate the referral pattern to Temple University Hospital and compare it to the previous year.

The inpatient laboring patients are taken care in the Temple University Hospital Labor and Delivery unit, which consists of 12 LDRs. In these labor and delivery beds, antepartum high-risk patients requiring intensive care are also treated. A number of these LDRs are occupied on a daily basis by undelivered high-risk patients. In these beds, the patients receive close monitoring, intensive care management, and appropriate obstetrical care. These patients include patients with preterm labor, premature rupture of membranes, preeclampsia, diabetes, and other medical or obstetrical conditions. These patients are taken care of by specialized nurses familiar with monitoring and managing high-risk obstetrical patients.



#### Obstetrics and MFM Education

*Medical students*-All third year medical students rotating through Temple University Hospital spend two weeks on the obstetrics service. They are exposed to the maternal fetal medicine service through rotations to the high-risk clinics and inpatient rounds. While on this rotation, they are expected to integrate themselves with the health care teams with

assignments in the inpatient and out-patient care areas. The medical students are expected to follow patients, write comprehensive notes, and participate in procedures including deliveries. Their educational experience is through formal and informal didactics from MFM faculty and residents, morning rounds, chapter reviews, journal clubs, and grand rounds. Fourth year medical students can also choose to spend time on an elective MFM rotation. The fourth year MFM elective includes exposure to prenatal ultrasound examinations, high-risk patients with a variety of medical or obstetrical complications, procedures including deliveries, and didactics. The students upon the completion of their rotation are expected to be familiar with the most common high-risk conditions such as preterm labor, premature rupture of membranes, hypertensive disorders of pregnancy, basic prenatal diagnosis, and principles of management.

*Resident education-*The residents are required to rotate through the Maternal Fetal Medicine service. A PGY3 is assigned to the Maternal Fetal Medicine Service and is responsible for the admission, follow-up, and management of high-risk inpatients under the direction of the MFM specialist covering the service. The PGY3 is also responsible for attending the high-risk pregnancy clinic and the high-risk diabetes clinic. Through these services, the PGY3 is expected to be able to manage the high-risk inpatient and continue their care as an out-patient. Also, the PGY3 is expected to be familiar with the procedures specific to MFM, such as amniocentesis or fetal blood sampling and participate in those activities. The PGY3 is expected to be able to interpret antenatal fetal surveillance tests, which include but are not limited to biophysical profile, non-stress test, and contraction stress test. By the end of the rotation the third year resident is expected also to be able to perform basic ultrasound evaluation and biophysical profile of high-risk patients. The Maternal Fetal Medicine faculty provides formal and informal lectures in the field of high-risk obstetrics and perinatology through grand rounds and division meetings. Morbidity and mortality is discussed along with the neonatology services on a bimonthly basis.

#### Research Activities

Each Maternal Fetal Medicine attending has her particular area of research interest. The medical students and residents are encouraged to participate in the many clinical and basic science research activities in the division. The diverse field of interest is illustrated below:

Dr. Dimitrios Mastrogiannis:

- Recurrence risks and risk factors of intrauterine fetal demise (IUFD)
- Premature labor prevention with 17-hydroxy progesterone caproate and its association with abnormal glucose tolerance test
- Gestational diabetes
- Amniotic fluid embolism

Dr. Ossie Geifman-Holtzman:

- Prenatal diagnosis
- Molecular applications in prenatal diagnosis and the use of fetal cells from maternal blood for prenatal diagnosis
- Medical complications of pregnancy, in particular hypertension and pre-term labor

Dr. Wadia Mulla:

- Gestational diabetes
- Clinical genetics

Dr. Deborah Nelson of the Department of Public Health of Temple's College of Health Professions in collaboration with our department received NIH funding to study the association of subtypes of bacterial vaginosis with premature labor. This study was funded by NIH (\$1,347,980 in direct costs) from April 2008 to March 2012. Subject recruitment started in July 2008. Pregnant women at 16 weeks of gestation or earlier are eligible for enrollment. The study personnel collect baseline questionnaires, a buccal swab for genotyping of three inflammatory genes, and two vaginal swabs to determine BV status and to measure the concentrations of selected vaginal bacteria. Repeat vaginal swabs are collected between 20 and 24 weeks of gestation to evaluate the change in these bacteria and the role of consistently high levels of BV-associated bacteria in premature birth.

This is a case-cohort study that will enroll and classify 2200 pregnant women over a three year period. The study aims are:

1. evaluate if *Gardnerella vaginalis*, *Mobiluncus curtisii*, *Atropobium vaginae*, *Leptotrichia amnionii*, and the clostridiales bacteria designated bacterial vaginosis-associated bacterium (BVAB) 1,2 or 3 measured in the first trimester of pregnancy are important, independent predictors of spontaneous premature birth, and
2. evaluate if consistently elevated levels *Gardnerella vaginalis*, *Mobiluncus curtisii*, *Atropobium vaginae*, *Leptotrichia amnionii*, and BVAB 1,2 or 3 measured at two points during pregnancy are important, independent predictors of spontaneous premature birth.

#### *The future of Maternal Fetal Medicine at Temple*

During the fiscal year of 2007-2008, new plans have been formulated for the Maternal Fetal Medicine service. A new director, Dimitrios Mastrogiannis, MD, PhD, was hired in July 2007 and Dr. Wadia Mulla returned to Temple in 2008. A third full-time sonographer was hired for the Fetal Center. The ultrasound equipment and the physical plant are expected to be updated. With these changes, a bright and exciting future is expected for Maternal Fetal Medicine at Temple University Hospital.

### **3. Gynecology & General Obstetrics**

This division is directed by Ashwin Chatwani, M.D.

The Members of the Division of General Gynecology and Obstetrics are: Dr. Raymond Brown, Dr. Vani Dandolu, Dr. Claro Floro, Dr. Stacey Jeronis, Dr. Abegael Lorico, Dr. Marisa Rose and Dr. Shaliz Dolan. The Episcopal section faculty is: Dr. Bruce Mabine, Dr. Carol Allen, and Dr. Bruce Carnivale. Part-time faculty include Dr. Robert Filosa and Dr. Gerard Remé. The faculty of General Gynecology and Obstetrics is actively involved in the education and training of medical students and residents. They also continue to be involved in clinical research. A large number of industry-sponsored clinical trials are undertaken by members of the Division. These trials have resulted in several peer-reviewed publications authored by our faculty.

The members of this Division see patients at multiple sites, to include: Family Planning Clinic (8th Floor, Out Patient Building), Episcopal Continuing Health Care Center, 7th Floor Out-Patient Building Private Practice, Hudson Building Obstetrics Clinic, Roxborough (Jamestown Medical Office Building) and Jeanes Hospital private practice sites. Dr. Dandolu directs the Urogynecology and Pelvic Reconstructive Surgery Section of this Division. She holds a Women's Pelvic Health Clinic in conjunction with Dr. Michel Pontari of the Department of Urology.

They bring gastroenterologists and colo-rectal surgeons with expertise in this field when the patient's situation requires it. The Section of Urogynecology and Pelvic Reconstructive Surgery is very active in research. Their work has been presented at national meetings and published in our specialty journals.

Our Family Planning/ Clinic had over 11,000 patient visits in FY08.

One of the members of the Division is licensed in medical acupuncture. We use acupuncture for the treatment of chronic pelvic pain. It has also been used in the treatment of hyperemesis gravidarum.

### **4. Reproductive Endocrinology and Infertility**

PGY –3 residents rotate in the Operating Room at Holy Redeemer Hospital (HRH) and Medical Center, spending the majority of their time with the doctors from the practice of Northern Fertility and Reproductive Associates, the Division of Reproductive Endocrine and Infertility. Approximately 300 outpatient surgeries are performed annually by the REI division at HRH. The large majority of these cases are operative laparoscopy in conjunction with diagnostic hysteroscopy.

Operative laparoscopic experience is quite varied and includes surgical treatment of pelvic endometriosis, lysis of adhesions, laparoscopic tuboplasty and laparoscopic myomectomy. Residents can identify typical and atypical endometriotic implants, and gain experience in its surgical ablation and/or resection. Presacral neurectomy is often performed as an adjuvant treatment of endometriosis and severe pelvic pain. Residents also have significant exposure to hysteroscopic treatment of uterine polyps, myomata and division of uterine septae. PGY -3 residents also scrub on laparotomies for myomectomies and microsurgical tubal anastomoses.

The PGY-4 resident spends two days each week in the outpatient office of Drs. Freedman and Castelbaum. Residents gain proficiency in performing vaginal ultrasonography for the evaluation of ovarian follicles, endometrial thickness, and uterine anomalies. Residents also gain experience with first trimester pregnancy ultrasounds, and evaluation and non-surgical treatment of ectopic pregnancies. They are also exposed to office carbon dioxide hysteroscopies performed prior to In Vitro Fertilization (IVF) or for evaluation of abnormal pelvic ultrasound findings.

PGY-4 residents participate in the initial evaluation of infertile couples. The resident integrates history, physical findings, ultrasonographic images and laboratory data in formulating a differential diagnosis and establishing a treatment plan.

PGY-4 residents are exposed to cutting edge ovulation induction protocols including clomiphene citrate, gonadotropins, gonadotropin agonists, and gonadotropin antagonists. They become proficient in interpreting ultrasound and hormonal data in order to maximize pregnancy rates while minimizing the risks of high order multiple gestations and ovarian hyperstimulation syndrome.

Residents are actively involved in the evaluation of patients undergoing in vitro fertilization and embryo transfer. They gain experience in pre-IVF assessment including clomiphene citrate challenge testing, office hysteroscopy, mock embryo transfer, semen analysis, and sperm penetration testing. They also are exposed to IVF ovulation induction regimens. Residents attend oocyte retrievals and embryo transfers. They also can observe IVF laboratory procedures including ICSI, embryo biopsy, assisted hatching and embryo cryopreservation.

At the conclusion of their office rotation, it is expected that PGY-4 Resident will be capable of managing all aspects of the initial infertility work-up of infertile patients. They should also be proficient in managing ovulation with oral medication, and performing transvaginal ultrasonography and hysterosalpingograms.

Drs. Freedman and Castelbaum give a total of eight Grand Round lectures annually for the Department of Obstetrics and Gynecology. Drs. Freedman and Castelbaum also lecture third year medical students during their Obstetrics and Gynecology rotation. Fourth-year medical students have the opportunity of doing a 4-week elective in Reproductive Endocrinology and Infertility (REI) with Drs. Freedman and Castelbaum. Their experience mirrors that of the 3<sup>rd</sup> and 4<sup>th</sup> year residents. The students taking this elective are required to prepare and give one formal presentation on a REI topic.

During FY07, Drs. Freedman and Castelbaum initiated consultation services at Temple University Hospital. They project increasing the number of new patient visits during the coming academic year. It is hoped that junior level obstetrics and gynecology residents will have the opportunity to participate in the evaluation of these patients as well, providing them with an earlier exposure to the field of reproductive Endocrinology.



## 5. Administration

### Revenue/Expenses:

The Department continues to experience a growth in revenue. We ended the year with a 10% increase over actual FY 2007 revenue. This was due primarily to overall improvement in collection practices. Total expenses remained on budget.

### Staffing:

20	Clerical/secretarial staff
20	Nursing staff
8	Administrative staff
2	Research staff
1	Genetic Counselor
1	Billing Analyst
<u>.5</u>	<u>Social Worker</u>

52.5 *Total staff*

### New Staff Recruitment:

Tujuwana Dillard	Clerical support	Hudson Building
Molly McKendry	HIV Program Coordinator	Family Planning, 8 <sup>th</sup> OPB

### Accomplishments:

- We received new Urodynamic and Biofeedback equipment for our urogynecology service in the faculty private practice as well as to allow for expansion of the service to the Jeanes Hospital Campus. Staff and faculty were trained on use of the new equipment.

- Developed new OB/GYN Request for Service form to expedite ordering and the return of test results such as for mammography, pelvic ultrasonography, colonoscopy and other laboratory testing.
- Consolidated the OB and the GYN medical records in the faculty private practice to improve continuity of care and review of the patient's prior medical history.
- Hired a full-time staff member, fully funded by a grant, to coordinate HIV testing integration in 6 family planning clinics. This included tripling the number of staff certified to provide HIV testing and counseling services from 7 to 21.
- Provided HIV/Safer Sex Education to North Philadelphia neighborhoods through 8 community events and 3 events in the hospital
- Initialed the enrollment of patients across the department in Project Babies, a prospective cohort study designed to examine the role of first trimester bacterial vaginosis and the risk of spontaneous abortion and preterm labor among pregnant women receiving prenatal care. This study is funded by NIH.

#### **B. PROGRAMS UNDER DEVELOPMENT**

Offering fetal ultrasound services in the faculty private practice.

#### **C. DISCONTINUED PROGRAMS**

Our participation in the Philadelphia City Health District #6 Clinic ended in July 2008.

## VII. SERVICE

- A. The Department of Obstetrics, Gynecology and Reproductive Sciences is involved in a variety of community service activities, and resident participation is integral to this effort. A few of these activities are described below:

1. **Neighborhood Health Fairs**

Periodically, our department participates in health fairs either in the community or at the hospital site where individuals in the community are invited to come for education on contraception, sex health education and sexually transmitted diseases prevention.

2. Several faculty members have been showcased in a number of mass media (TV, magazines, newspaper) productions in collaboration with Temple's office of Public Affairs.

B. **FAMILY PLANNING:**

1. Family Planning Council Grant – more than 29,000 visits in FY 2008 at all sites combined (2,000 more than in FY07).

2. The Healthy Women Program is in the 10th year of a continuing grant. The program is designed to screen uninsured women for breast and cervical cancer. In FY 2002, the Breast and Cervical Cancer Prevention and Treatment program was introduced as a funding source for women whose cancer screenings show breast or cervical cancer or pre-cancerous conditions. The BCCPT program provides a fast track Medical Assistance application approval, providing the patient full coverage for all treatment within five days of the application date. Temple Center for Women's Health Gynecology Clinic is one of the few sites in the city that provide this service. This grant also supports other departments in the Temple Health System, including Diagnostic Imaging, Surgery and Colposcopy Clinic.

Temple Healthy Woman Program continues to be the largest program in the Tri-State area providing cervical and breast cancer screening to uninsured women 30 year of age and older.

3. HIV Expansion Program

Temple Family Planning continued its HIV Expansion Program in North Philadelphia, The objective is to ensure that uninsured patients have the same access to HIV services as those who have public or private insurance or have the ability to pay. The Family

Planning/Gyn Clinic received a CLIA-2 license, enabling the clinic to offer rapid HIV testing to every patient. The clinic has also established a partnership with St. Christopher Hospital for Children to refer adolescents who test positive for HIV. HIV rapid testing campaigns are held semi-annually to coincide with World AIDS Day (December) and National HIV Testing Day (June). For National HIV Testing Day, we produced an educational workshop at the Den, an after school center for adolescents in North Philadelphia. We provided information and condoms to teens and informed them of free HIV testing at our clinic. This year, we were fortunate to have two interns from Temple Department of Public Health, who did research on HIV/AIDS, created informational brochures and promotional material for patients, and assisted in HIV rapid testing campaigns.

4. Satellites operating under the Family Planning umbrella:
  - a) Student Health Services- operated by Student Health, this satellite provides family planning services and gynecology examinations to University students.
  - b) Midwifery Woman to Woman Program – this site cares for steady stream of Family Planning patients.
  - c) Temple Physicians at Northeastern Hospital – started 3/99.
  - d) Temple Adolescent Clinic provides Family Planning services to the many adolescents receiving care at Temple’s Pediatric Practice.
  - c) Episcopal Hospital Ob/Gyn –This Temple Physicians office provides family planning services to their surrounding community.

C. **COMMUNITY OUTREACH EVENTS:**

1. Information booth in hospital lobby on National HIV Testing Day

## VIII. PUBLICATIONS AND PRESENTATIONS

### A. PUBLICATIONS

1. Newmark J, **Dandolu V**, Milner R, Grewal H, Harbison S, **Hernandez E**. Correlating virtual reality and box trainer tasks in the assessment of laparoscopic surgical skills. *Am J Obstet Gynecol* 2007;197:546.e1-546.e4.
2. Zhang Z, Borecki I, Nguyen L, Ma D, Smith K, Huettner PC, Muthc D, Herzog TJ, Gibb RK, Powell MA, Grigsby PW, Massad LS, **Hernandez E**, Judson PL, Swisher EM, Crowder S, Li J, Gerhard DS, Rader JS. CD83 gene polymorphism increase susceptibility to human invasive cervical cancer. *Cancer Res* 2007;67:11202-11208.
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underserved women with gestational diabetes mellitus. *Diabetes Technol Therap* 2007;9:297-306.

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13. **Thomas MB**, Mariani A, Cliby WA, Keeney GA, Podratz KC, Dowdy SC. Role of systematic lymphadenectomy and adjuvant therapy in stage I uterine papillary serous carcinoma. *Gynecol Oncol* 2007;107:186-189.
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16. **Thomas MB**, Wright JD, Leiser AL, Chi DS, Mutch DG, Podratz KC, Dowdy SC. Clear cell carcinoma of the cervix: a multi-institutional review in the post-DES era. *Gynecol Oncol* 2008;109:335-339.

B. PRESENTATIONS (SEMINARS, LECTURES PODIUM AND POSTER PRESENTATIONS GIVEN OUTSIDE OF TEMPLE UNIVERSITY)

1. Hernandez E. Human papillomavirus lower genital tract infection in women and colposcopy correlation. Postgraduate Advanced Practice Clinician Colposcopy Education Program, Philadelphia, PA, October 25, 2007.
2. Hernandez E. **Visiting Professor**. State of the Art Cervical Cancer. Annual Meeting District III American College of Obstetricians and Gynecologists. Santo Domingo, Dominican Republic, November 8-11, 2007.
3. Hernandez E. **Visiting Professor**. Gestational Trophoblastic disease – New understanding and therapies. Annual Meeting District III American College of Obstetricians and Gynecologists. Santo Domingo, Dominican Republic, November 8-11, 2007.
4. Hernandez E. Advances in the diagnosis and treatment of cervical cancer. Gynecologic Oncology Lecture Series, Department of Ob/Gyn Lankenau Hospital, Wynnewood, PA, December 7, 2007.

5. Hernandez, E: Human papillomavirus lower genital tract infection in women and colposcopy correlation. Postgraduate Advanced Practice Clinician Colposcopy Education Program, Philadelphia, PA, April 17, 2008.
6. Hernandez E. **Invited Professor.** Surgical treatment of endometrial carcinoma: when to do a lymphadenectomy. 6<sup>th</sup> World Congress of gynecologic cancers and breast disease, Toluca, Mexico, May 28 and 29, 2008.
7. Hernandez E. **Invited Professor.** Conservative (medical) management of endometrial adenocarcinoma. 6<sup>th</sup> World Congress of gynecologic cancers and breast disease, Toluca, Mexico, May 28 and 29, 2008.
8. Hernandez E. **Visiting Professor.** Update on the prevention, diagnosis and treatment of cervical cancer. Department of Surgery, American British Cowdray Medical Center, Mexico City, Mexico, May 30, 2008.
9. Hernandez, E. **Visiting Professor.** A review and update on Gestational Trophoblastic Neoplasia. Residents' Research Day, Residency Program in Obstetrics and Gynecology St. Peter's Hospital (Drexel University College of Medicine), New Brunswick, NJ, June 11, 2008.
10. Gaur S, Dandolu V, Chatwani A, Frick K. A cost-effectiveness analysis of rapid yeast detection kits. Annual Clinical Meeting American College of Obstetricians and Gynecologists, New Orleans, LA May 2008.
11. Jeronis S, Geifman-Holtzman O, Hernandez E, Singh K, Cox J, Gaughan J. Paternal ethnicity associated with increased risk of preeclampsia. Annual Clinical Meeting American College of Obstetricians and Gynecologists, New Orleans, LO May 2008.
12. Vella V, Dandolu V, Jaffe W, Ligicker J, Kosaraju S, Hernandez E. Prevalence of urinary symptoms among morbidly obese and change subsequent to bariatric surgery. Annual Clinical Meeting American College of Obstetricians and Gynecologists, New Orleans, LA May 2008.
13. Jeronis S, Rose M, Singh K, Hanlon A, Hernandez E, Geifman-Holtzman O. Reevaluating renal function in diagnosing the severity of hypertensive disease in pregnancy. Annual Clinical Meeting American College of Obstetricians and Gynecologists, New Orleans, LA May 2008.
14. Madan I, Puri I, Jain N, Dandolu V. Intensive care unit admissions among pregnant women. Annual Clinical Meeting American College of Obstetricians and Gynecologists, New Orleans, LA May 2008.
15. Dandolu V. Ob/Gyn resident applicants' attitudes regarding lab based surgical skill training. Association of Professors of Obstetrics and Gynecology/Council on Resident Education in Obstetrics and Gynecology Annual Meeting, Lake Buena

Vista, FL, March 5-8, 2008.

16. Dandolu V. Can lab-based skills training to novice medical students improve their technical skill and satisfaction with surgical clerkship? 36<sup>th</sup> Annual Global Congress of Minimally Invasive Surgery (American Association of Gynecologic Laparoscopists), Washington, DC, November 13-17, 2007.
17. Spiliopoulos M, Dandolu V. Amniotic fluid embolism: risk factors, maternal and neonatal outcomes. 13<sup>th</sup> Annual Maternal and Child Health Epidemiology Conference, Atlanta, GA, December 12-14, 2007.
18. Dandolu V. Transobturator tape. Pelvic Floor Review Series Part I; Incontinence. Geisinger Medical Center CME Course, Danville, PA, October 24, 2007.
19. Jean-Gilles M, Rose M, Geifman-Holtzman O, Hernandez E, Jeronis S. LSIL and ASC-US with high-risk HPV in pregnancy: should we do colposcopy? Annual Meeting American Society for Colposcopy and Cervical Pathology. Orlando, FL March 19, 2008.
20. Jeronis S, Singh KK, Hanlon AL, Agaros O, Hernandez E, Geifman-Holtzman O. Revisiting uric acid controversy in hypertensive disease of pregnancy – should we check it or not? Annual Meeting Society of Maternal Fetal Medicine, Dallas, TX, January 28-February 2, 2008.
21. Xiong Y, Lieberman D, Hoffman B, Holtzman EJ, Tront J, Jeronis S, Hernandez E, Geifman-Holtzman O. The GADD45-p38 stress response pathway in preeclampsia. Annual Meeting Society of Maternal Fetal Medicine, Dallas, TX, January 28-February 2, 2008.
22. Tront J, Xiong Y, Lieberman D, Hoffman D, Hpltzman EJ, Huang Y, Hernandez E, Geifman-Holtzman O. GADD45A expression is found in trophoblast and endothelial cells of preeclamptic and eclamptic placentas, which co-localizes with SFLT1. Annual Meeting Society of Maternal Fetal Medicine, Dallas, TX, January 28-February 2, 2008.
23. Jeronis S, Singh KK, Hanlon AL, Ober J, Kinsler K, Hernandez E, Geifman-Holtzman O. Elevated values of serum AFP are predictive of different categories of hypertensive disorder of pregnancy. Annual Meeting Society of Maternal Fetal Medicine, Dallas, TX, January 28-February 2, 2008.
24. Xiong Y, Tront JS, Lieberman D, Hoffman B, Holtzman EJ, Huang Y, Hernandez E, Geifman-Holtzman O. Stress inducible gene Gadd45a regulates sFlt-1 secretion via p38 pathway activation in preeclampsia. Annual Meeting Society for Gynecologic Investigation, San Diego, CA, March 26-29, 2008.
25. Xiong Y, Lieberman D, Holtzman EJ, Hoffman B, Hernandez E, Geifman-Holtzman O. Localization and expression of human telomerase reverse

transcriptase (hTERT) in placentas from patients with progressive manifestations of preeclampsia. Annual Meeting Society for Gynecologic Investigation, San Diego, CA, March 26-29, 2008.

26. Jeronis SL, Averbuch L, Hanlon AL, Holtzman EJ, Hernandez E, Geifman-Holtzman O. Gestational prehypertension – A new predictor of pregnancy complications. Annual Meeting Society for Gynecologic Investigation, San Diego, CA, March 26-29, 2008.
27. Grotegut CA, Jeronis SL, Gaughan JP, Hernandez E, Geifman-Holtzman O. Fetal Rh D, Cc and Ee genotyping using fetal DNA from maternal blood is not impaired by the presence of maternal alloimmunization. Annual Meeting Society for Gynecologic Investigation, San Diego, CA, March 26-29, 2008.
28. Winterhoff BJ, Konecny GE, Mariani A, Keeney G, Thomas B, Richie D, Murphey L, Neuper C, Jones M, Dowdy S, Wang H, Morin P, Podratz KC. Caludin-3 and caludin-4 expression in serous papillary, clear cell, and endometrioid endometrial cancer. Annual Meeting Society of Gynecologic Oncology, Tampa, FL, March 12, 2008.

## IX. CONTACT INFORMATION

**Department:**

**Chairman's Office**  
(215) 707-3002

**Practice Locations:**

**Faculty OB/GYN Practice**  
Temple University Hospital 7<sup>th</sup> floor Outpatient Building  
Broad and Tioga Streets  
Appointments: (215) 707-3008  
Appointments for **Reproductive Endocrinology and Infertility**: 215-938-1515

**GYN/Family Planning Clinic**  
Temple University Hospital 8<sup>th</sup> floor Outpatient Building  
Broad and Tioga Streets  
Appointments: (215) 707-3232

**OB/High-risk OB/Diabetes in Pregnancy Clinics**  
Temple Medical Sciences Campus, Hudson Building  
Ontario and Carlisle Streets  
Appointments: (215) 707-3050

**Acupuncture/Gynecology**  
Jeanes Hospital  
7604 Central Avenue, 101 Friends Building  
Appointments: (215) 728-7594

**Gynecologic Oncology**  
Temple University Hospital 7<sup>th</sup> floor Outpatient Building  
Broad and Tioga Streets  
Appointments: (215) 707-3015

Jeanes Hospital  
7604 Central Avenue, 101 Friends Building  
Appointments: (215) 707-3015

Holy Redeemer Hospital  
1648 Huntingdon Pike  
Meadowbrook, PA 19046  
Appointments: (215) 707-3015

Temple Cancer Center  
3401 N. Broad Street Zone D  
Appointments: (215) 707-8050

**Colposcopy Clinic**  
Temple Medical Sciences Campus, Hudson Building  
Ontario and Carlisle Streets  
Appointments: (215) 707-3050

**Maternal-Fetal Medicine Consultation**  
Temple University Hospital 7<sup>th</sup> floor Outpatient Building  
Broad and Ontario Streets  
Appointments: (215) 707-3008

Northeastern Hospital  
2301 E. Allegheny Avenue  
Appointments: (215) 291-3289

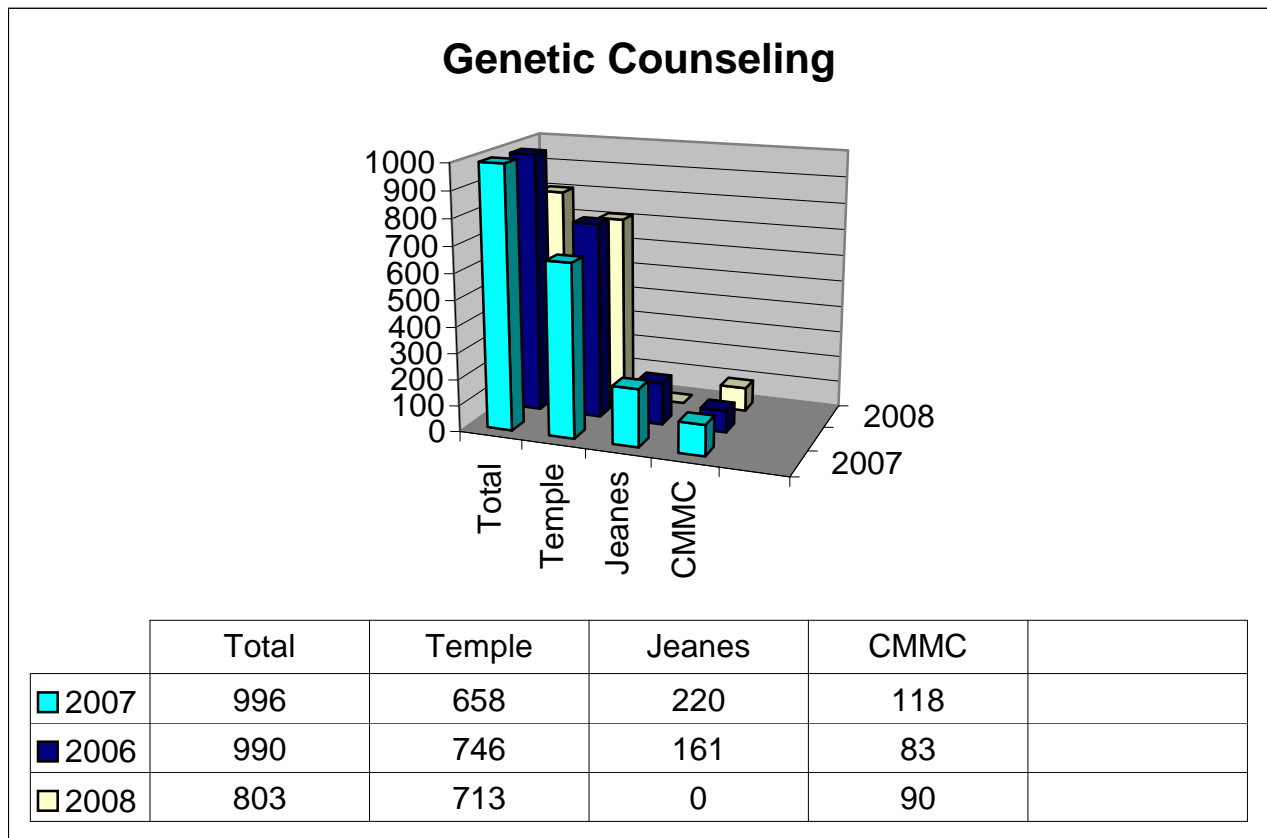
Central Montgomery Medical Center  
100 Medical Campus Drive  
Lansdale, PA 19446  
Appointments: (215) 361-4652

**Fetal-Maternal Center**  
Temple University Hospital 3<sup>rd</sup> floor Rock Pavilion  
Broad and Ontario Streets  
Appointments: (215) 707-3648

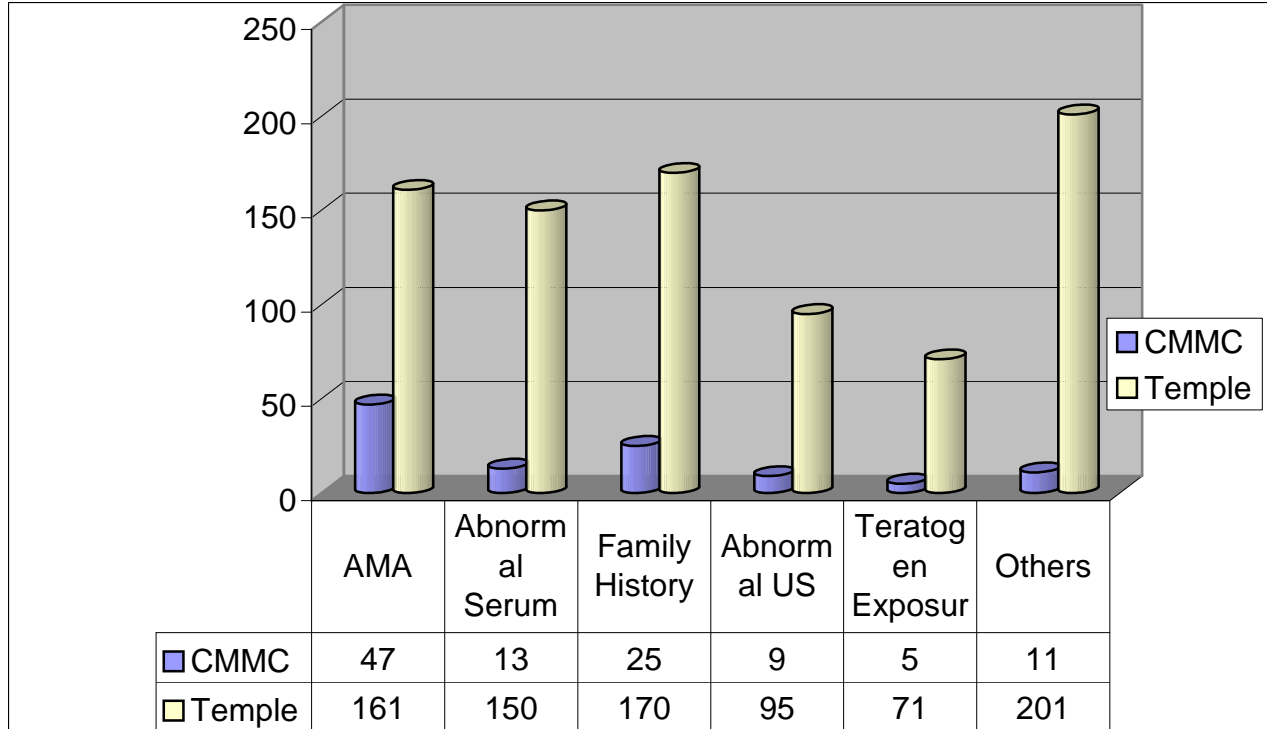
**Obstetrics & Gynecology**  
Epsicopal OB/Gyn Practice  
100 E. Lehigh Avenue  
Appointments: (215) 427-6239  
Roxborough OB/Gyn Practice  
Jamestown Medical Building, Suite 201  
525 Jamestown Avenue  
Appointments: (215) 483-7700

## X. Illustrations and Charts

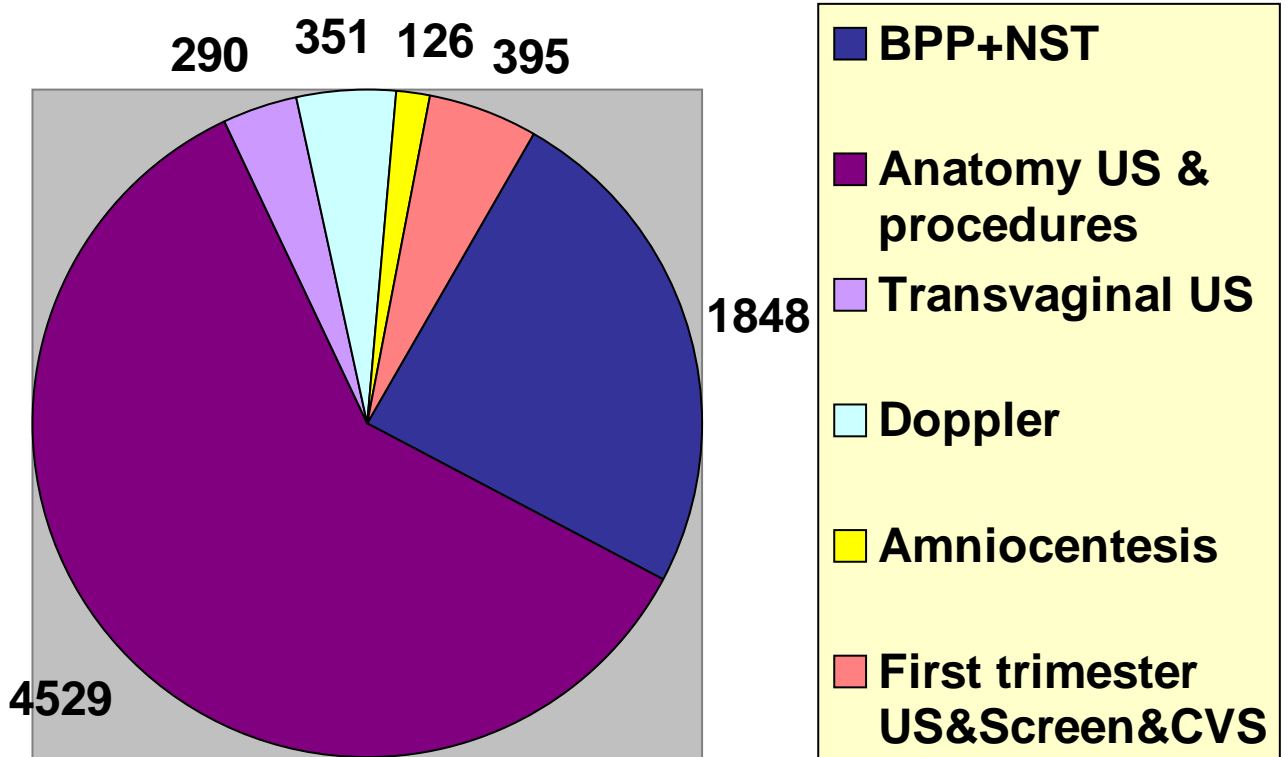
**Chart 1- Genetic counseling by site (The Jeanes Hospital Obstetrical unit closed in May 2007)**



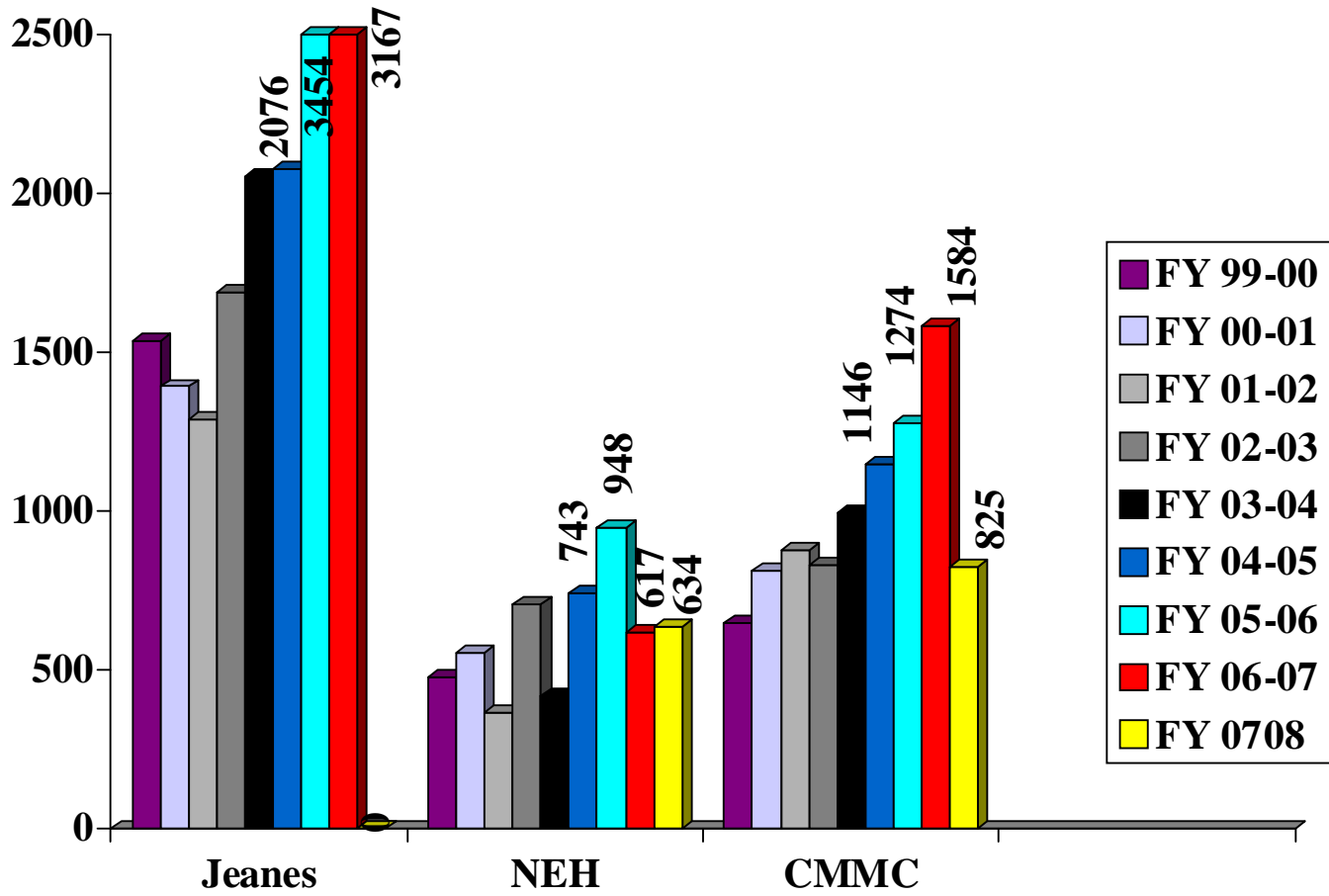
**Chart 2- Genetic Counseling FY08**



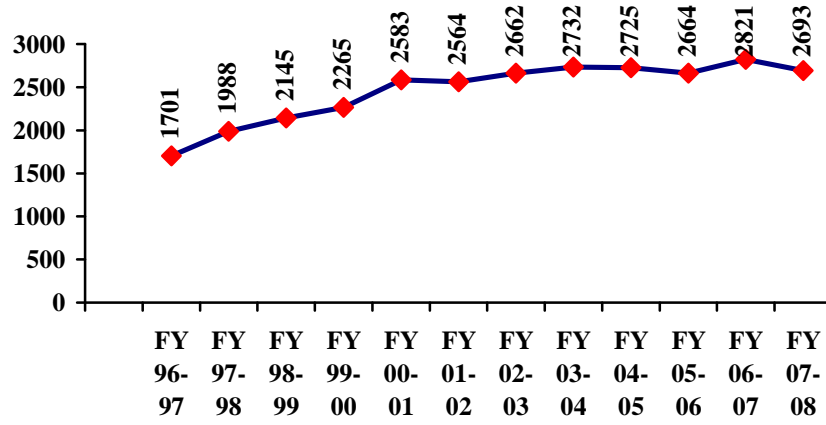
**Chart 3- Procedures Performed at Temple's Fetal Center FY07**



**Chart 4- Satellite MFM Activities**

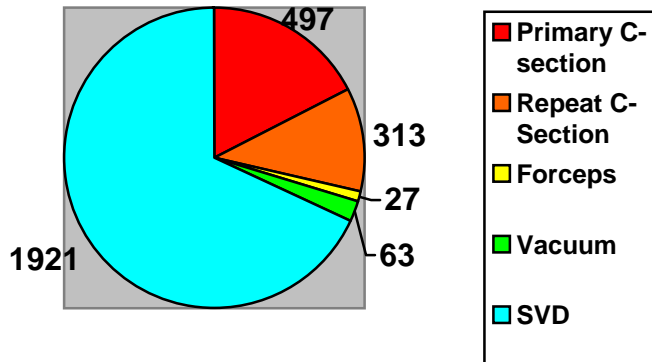


**Chart 5- Deliveries at Temple University Hospital/Fiscal Year**

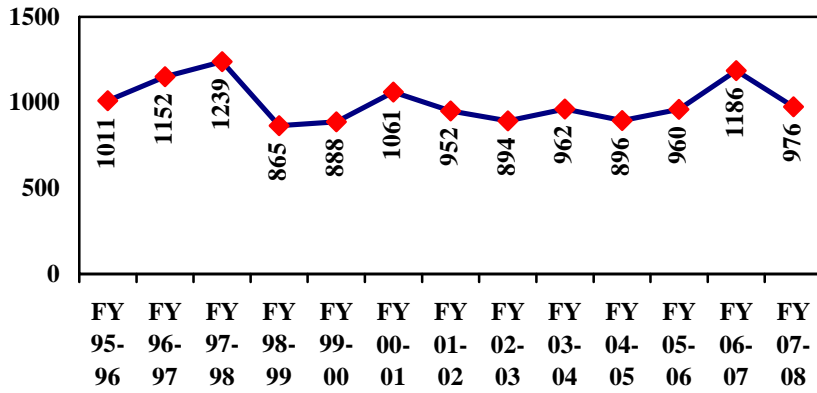


**Chart 6-Mode of Delivery at Temple University Hospital FY08**

**Total Deliveries: 2693**



**Chart 7- new OB patients (low risk) seen at the Hudson Clinic (TUSM) and Philadelphia Health District 6 Clinic**



**Chart 8- All Visits of OB Patients at the Hudson Clinic (TUSM) and Philadelphia Health District 6 Clinic**

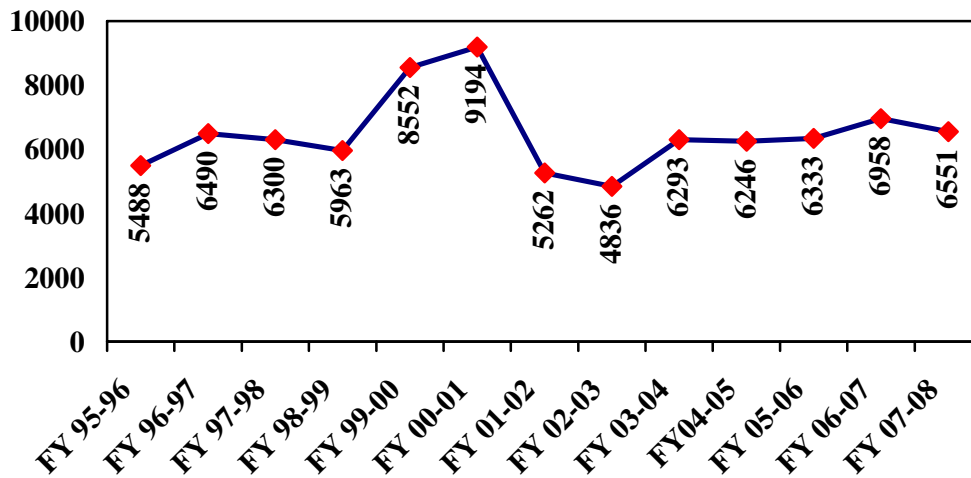
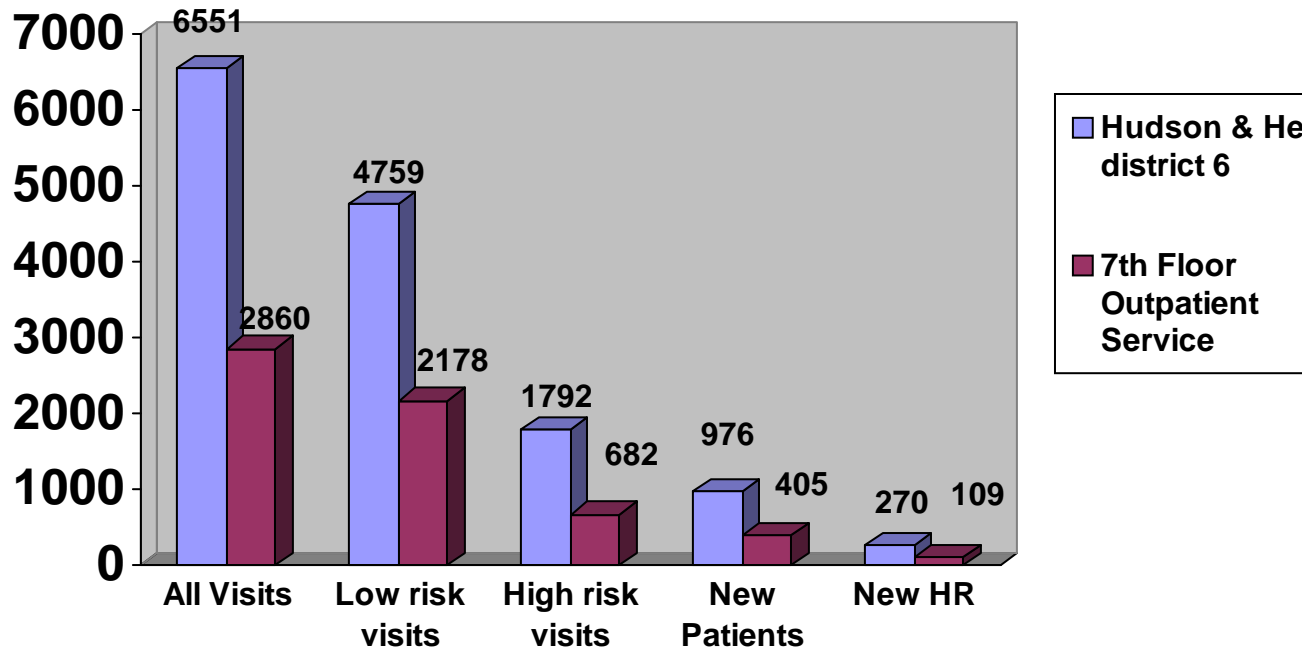
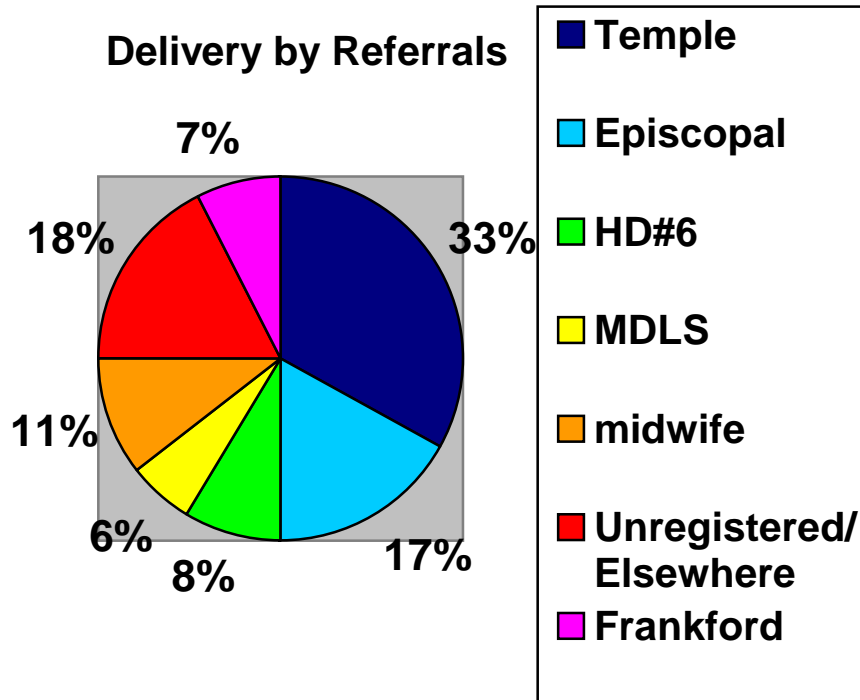


Chart 9-Outpatient obstetrics: High Risk (HR), Low risk at Temple (TUSM) and Philadelphia Health District 6 Clinic FY08

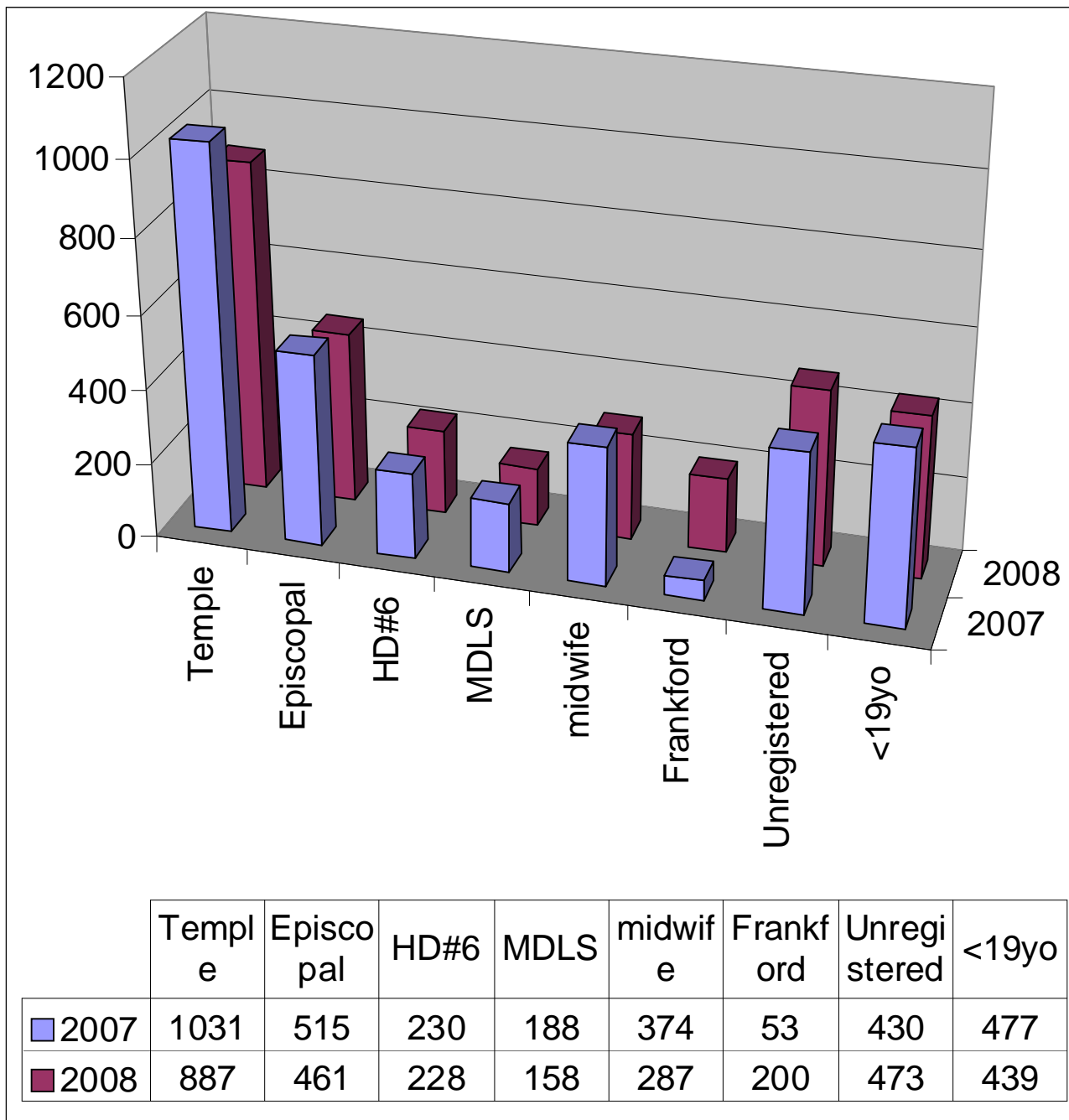
## Outpatient Obstetrics Services



**Chart 10- Deliveries at Temple University Hospital by referral source FY08**



**Chart 11. Comparisons of Referrals and Demographics between 07-08 and 06-07**



# Department of Obstetrics, Gynecology and Reproductive Sciences Organization Chart – January 2009

