

**Program Director: Terry Tressler, DO, FACOOG**

**DME: Daniel Kambic, DO, F.A.C.F. P.**

**Nirmal Joshi, MD**

**Program Coordinator: Diane Shearer**

The Maternal Fetal Medicine Fellowship Training Program at PinnacleHealth Harrisburg Hospital is accredited by the American Osteopathic Association (AOA) and the American College of Osteopathic Obstetricians and Gynecologists (ACOG) for three fellowship positions.

**Mission:**

The Maternal Fetal Medicine Fellowship Program is dedicated to providing quality care to high-risk obstetrical patients, supporting and facilitating basic, clinical and research, and training and educating future osteopathic leaders in women's health who will do everything possible to affect positive outcomes on the mothers and babies they serve.

**Program Director:** The program director is board certified and meets the standards of the position as formulated in the Fellowship Training Requirements of the AOA

**Fellows:** Applicants for MFM fellowship training will

1. Have graduated from an AOA accredited college of osteopathic medicine
2. Have completed one-year in AOA approved internship
3. Completed an AOA residency program in Obstetrics & Gynecology
4. Be AOA members
5. Be licensed in Pennsylvania
6. Maintain and submit satisfactory work records
7. Conduct research and produce a paper approved for publication
8. Attend appropriate MFM conferences
9. Teach MFM residents

**Program Description:**

The program consists of three consecutive years maternal fetal medicine training designed to provide the fellow with ever-increasing patient care responsibilities and to achieve full competence in all aspects of diagnosis and management of women with conditions that fall within the limits of a high risk pregnancy. A high risk pregnancy is that pregnancy which has a greater than general population incidence for morbidity and mortality for both mother and infant as a result of influences that bear upon that pregnancy.

**Program goals:**

- Provide the fellow with didactic and clinical training regarding advanced knowledge in the medical and surgical complications of pregnancy and their effect on both mother and fetus
- Enable the fellow to develop expertise in the most current diagnostic and treatment modalities utilized in the care of patients with pregnancies at risk as well as advanced knowledge of the newborn adaptation so there will be a continuum of excellence of care from the fetal to newborn period

- Integrate the osteopathic philosophy, including principles and practice, as it relates to maternal and fetal medicine, throughout the entire program
- Provide the fellow with progressive experience and increasing responsibility in patient care
- Prepare the fellow for board certification in Maternal and Fetal Medicine

**Seven Core Competencies:**

The Curriculum of the Maternal Fetal Medicine fellowship focuses on the demonstration of the seven core competencies of the osteopathic profession:

- Osteopathic Philosophy and Osteopathic Manipulative medicine
- Medical Knowledge
- Patient Care
- Interpersonal and Communication Skills
- Professionalism
- Practice-Based Learning and Improvement
- Systems-Based Practice

The Pinnacle Health Harrisburg Hospital Maternal Fetal Medicine fellowship curriculum provides numerous instructional methods to develop the knowledge, skills, and attitudes of the seven core competencies. MFM provides weekly reading and lecture series. Each fellow will participate in all areas of the curriculum to develop their competencies. The fellow will demonstrate to the satisfaction of the fellowship faculty that he/she is competent in all seven core areas. Fellows will be evaluated on their Core Competencies annually using peer as well as faculty evaluators.

**Teaching Faculty:** Composed of perinatologists, pediatric cardiologists and other specialists engaged in the active practice of maternal fetal medicine who affirm and demonstrate their commitment to the residency training program. The Maternal Fetal Medicine osteopathic teaching faculty includes:

- Terry Tressler, DO – Maternal Fetal Medicine
- Francis Martinez, DO – Maternal Fetal Medicine
- Claudia Taboada, DO – Maternal Fetal Medicine

**Participating Members:**

- |                    |  |
|--------------------|--|
| Howard Weber, MD   | Pediatric Cardiology/Penn State Hershey Medical Center             |
| Margie Donahue, MD | NICU/Pinnacle Health   |
| Mark Dion, DO      | OB/GYN Anesthesia/Pinnacle Health                                  |
| James Piper, MD    | Pathology/Pinnacle Health  |
| Dr. Crombleholm    | Center for Molecular Fetal Therapy, Cincinnati Children's Hospital |
| Shama Jari, MD     | Obstetrical Genetics/Greater Baltimore Area Medical Center         |

**Training Institutional Requirements:**

- PinnacleHealth Hospital is approved by the AOA and ACOOG and is a member of an accredited OPTI – LECOM.
- The Maternal Fetal Medicine Fellowship Program shall be inspected according to the schedule established by AOA and ACOOG
- PinnacleHealth maintains an in-house library with state-of-the-art equipment that is staffed by a full time professional librarian. The Library Committee meets quarterly and is responsible for organizing,

updating, and developing the libraries maintained at all of the PinnacleHealth hospital locations. The library is accessible Monday through Friday 8-5 and via intranet 24 hours, 7 days a week. In addition to the Pinnacle library, fellows have access to the library maintained at Maternal Fetal Medicine which is specific to the specialty.

- The hospital has an adequately organized division of maternal fetal medicine. Maternal Fetal Medicine of Central PA (MFMCP) maintains staff privileges at PinnacleHealth Harrisburg hospital and provides the teaching faculty for MFM fellows.
  - A high risk pregnancy in-patient unit enables the fellow to develop expertise in managing these patients under the direction of the program director or supervising maternal fetal medicine specialist
  - A genetics dept at MFMCP enables the fellow to become familiar with the areas of genetic counseling and to develop expertise in cytogenetic analysis, including karyotyping and biochemical studies. A series of genetic lectures will be provided by MFMCP genetic counselors for fellows with an out-rotation at a genetics unit with CVS experience in their 2<sup>nd</sup> and 3<sup>rd</sup> years.
  - A level three neonatal intensive care unit provides a rotation under the direction of a neonatologist to enable the fellow to develop and appreciate neonatal disease and the problems encountered in neonatology after a high risk pregnancy is delivered. The fellow will follow one baby they delivered until the baby is discharged from the NICU unit and note the progress. If possible, the fellow will follow up with long-term care.
  - MFMCP is an AIUM certified maternal-fetal ultrasound unit capable of performing basic and advanced levels of ultrasound. The ultrasound unit is supervised in full by the program director in maternal fetal medicine.
  - PinnacleHealth hospital has an obstetrical anesthesia service to train the fellow in the subtleties of administering anesthesia and the choices of anesthesia appropriate for high risk obstetrical patients
  - A pathology service is available for postmortem exams of fetuses and placental examination.
  - The fellow must become NT certified and is available through the SMFM Conference which the fellow may attend his first year. NT certification is also available with on-line courses, along with various conferences that they may attend.
  - Fellows will receive Fetal Echo training by MFMCP staff.
- Pinnacle Health/Maternal Fetal Medicine admissions, referrals and consults exceed the minimum training requirements set forth by AOA and ACOOG.
- PinnacleHealth through the DME and the program director shall be responsible for seeing that the fellow receives the training outlined in the written program.
- PinnacleHealth/Maternal Fetal Medicine has a written policy & procedure for the selection of fellows. Our program and requirements are published on the AOA Opportunities Website.
- PinnacleHealth will provide a PinnacleHealth and AOA contract to the fellow listing annual salary, educational allowance, etc.
- Pinnacle Health will present fellow with certificate of completion of training.

**Program Requirements:**

The program shall include both didactic and clinical training which will provide the fellow with an in-depth knowledge of genetic disorders, teratologic disorders and metabolic disorders. A detailed study of advanced

ultrasonography shall be integrated throughout the entire program for diagnosing fetal health and disease. The general educational content of the program is designed by the program director and faculty of the program.

The teaching program consists of weekly and monthly lectures and conferences:

- Journal Club – Bi-Monthly
- Resident presentations – Monthly (when we have residents)
- Monday AM – High Risk Patient Review
- REACCH Counselors
- Monthly Morbidity & Mortality
- Regular readings & review by Teaching Facility
- Quarterly Fellow Forum with MFM Practice Manager and Program Coordinator to discuss fellow concerns
- Bi-Weekly SMFM Lectures via Web
- Monthly NICU Meetings
- Monthly OB/GYN Department Meetings

**Rotations:**

In order to provide the best training for the maternal fetal medicine fellow, this program has affiliations with the following institutions:

- Cincinnati Children's Hospital Medical Center – fetal surgery
- Greater Baltimore Area Medical Center – obstetrical genetics
- Pathology – Pinnacle Health Harrisburg
- NICU – Pinnacle Health Harrisburg
- CVS – (non-local Planned Parenthood)

Affiliation agreements are kept on file in the MFM Medical Education office. Electives and out-of-house rotations must be coordinated by the program director and DME.

**1<sup>st</sup> Year Fellow:**

1. Postgraduate course in statistics provided by GMEC .
2. One month of research of data collection from Viewpoint (the last month of first year)
3. Fetal echocardiography review course with MFMCP Fetal Echo certified sonographer and an out rotation with a pediatric cardiologist
4. Collect ultrasound pictures for Program Director's Review

**2<sup>nd</sup> Year Fellow**

1. NICU – Two week rotation at PinnacleHealth Level 3 NICU.
2. OB/GYN Anesthesia
3. Fetal echocardiography review course with MFMCP Fetal Echo certified sonographer and an out rotation with a pediatric cardiologist
4. Post graduate course related to biomedical information and dissemination
5. CVS Training at a local Planned Parenthood
6. Three months of research
7. Genetics Unit – Greater Baltimore Area Medical Center
8. Collect ultrasound pictures for Program Director's Review

**3<sup>rd</sup> Year Fellow:**

1. Pediatric/Fetal surgery: Cincinnati Fetal Center
2. CVS Training at a local Planned Parenthood
3. Six months of research (broken down in two month blocks)

**Evaluations:**

Fellow evaluations will include monthly log review, quarterly evaluations during first year, and semi-annual evaluations during second and third year. Along with program director reviews, MFMCP will use 360 degree evaluations as determined by the program director. Yearly fellow report shall be completed and submitted to ACOOG one month after year completion. Fellow will be responsible for yearly review of program, director and faculty.

**Procedure Competency Policy**

Review of ultrasound proficiency by review of invasive procedures. These procedures are kept in a booklet. Ultrasound scans are to be logged for the Program Director's review. Once the fellow has attained an appropriate amount of scans and the Program Director has reviewed them, he may be released from logging the procedures. Logging the scans is not an option and for the fellow to advance from year to year, must log the required scans.

**Maternal Fetal Medicine – Academic and Disciplinary Action and Dismissal (Pinnacle's GMEC Policy #15)**

Academic dismissals result from a failure to attain a proper level of scholarship or non-cognitive skills, including clinical abilities, interpersonal relations, and/or personal and professional characteristics. Institutional standards of conduct include issues such as cheating, plagiarism, falsifying records, stealing, alcohol and/or substance abuse, or any other inappropriate actions or activities. The MFM program will follow PinnacleHealth & MFMCP policy on actions and/or dismissal of a fellow.

**Fellowship Requirements for Graduation:**

1. Successful completion of all rotations and call responsibilities
2. Completion of evaluation forms for all rotations
3. Regular attendance of educational lectures and conferences
4. Completion of all inpatient and outpatient medical records.
5. Research Paper ready for Publishing
6. Completion of all required ultrasound procedural logs/certification

**Sample Curriculum**

FELLOW SCHEDULE			
		Hospital	Office
Monday	AM	High Risk Chart Review Hospital Scans & Consults	High Risk Chart Review Office
	PM	Rounds	Office
Tuesday	AM	Hospital Scans & Consults	Office
	PM	Rounds	Office
Wednesday	AM	Hospital Scans & Consults <b>GMEC - First Wednesday @12:00</b>	Office <b>(Research Morning only)</b> <b>GMEC - First Wednesday @ 12:00</b>
	PM	Rounds	Office
Thursday	AM	<b>All Fellows - OB/GYN Dept Meeting - 2nd Thursday 7:30 AM</b> Hospital Scans & Consults	<b>All Fellows - OB/GYN Dept Meeting - 2nd Thursday 7:30 AM</b> Office
	PM	Rounds	Office
Friday	AM	<b>1st Friday - NICU meeting at MFM Conf Room</b> Hospital Scans & Consults	<b>1st Friday - NICU meeting at MFM Conf Room</b> Office
	PM	Rounds	Office

**NOTES**

	HOSPITAL	OFFICE
<b>Post Call Person</b>	Does PP rounds and any immediate needs then goes home	Go Home in AM
<b>Research</b>	If no hospital scans or consults, AM hospital person does research	
<b>High Risk Clinic (HRC)</b>	If office fellow is on call Monday and goes home, hospital fellow covers HRC	
<b>High Risk Clinic</b>	Fellows choose which patients they are going to see during chart rounds. <b>1st year fellow</b> - Sees those patients and reviews with MFM doc while patient is there <b>2nd year fellow</b> - sees patient and reviews at end of clinic	
<b>Research</b>	<b>1<sup>st</sup> Year Fellow</b> – Last month is completely research – no clinic time <b>2nd year fellow</b> – Three full months is complete research – no clinic time <b>3<sup>rd</sup> Year Fellow</b> – Six months complete research – no clinic time	
<b>Call</b>	Call starts at 5PM on weekdays and 8AM on weekends <b>CALL "ALL NIGHT" WORK IS DEFINED AS 4 OR MORE HOURS IN HOUSE AFTER 8PM</b>	
<b>Consults</b>	<b>1st year fellow</b> - Sees patient and discusses that day with MFM doc <b>2nd year fellow</b> - Sees patient and reviews within 24 hours with MFM doc	