

VIII. B. Fellowship Research Time and Distribution

Year 1

The Fellowship is designed so that the Year 1 is focused on clinical MFM with a 75 percent effort so that only 25 percent (weighted average) time is reserved for Research. This translates into one ½ - five ½ days each week depending on the clinical rotation. Research focus is on research preparation/planning: reading, thinking/brainstorming, formulating a research question, IRB training, Human subjects/ Ethics training, technical writing, research meetings and identification of a mentor and committee. Call expectation is for 3-4 units monthly. One unit is defined as a 12-hour shift on the weekend (8am-8pm or 8pm-8am) or a week night.

Metric:

1. Complete IRB training/HIPPA/Ethics training
2. Research Mentor and Committee identified
3. Hypothesis formulated
4. IRB application (encouraged)
5. Apply for K-30 (encouraged)
6. Project proposal for funding

Year 2

Fellowship Year 2 is 90 percent research. Clinical expectation is ½ day High Risk Clinic weekly and 3-4 units of in-house call monthly. Research is now focused on coursework, basic science bench work, and/or clinical study implementation.

Metric:

1. Implementation of Research project by fall: lab work, patient enrollment, collection of specimens/data
2. Research meetings with research team and MFM faculty
3. Completion of K-30 requirements as the year progresses
4. If independent: Completion of at least two courses by end of second year
5. Manuscript writing: case reports, reviews with MFM faculty

6. Attend UK sponsored Grant writing workshops and/or completion of the online module

Year 3

Year 3, Part 1 (first 6 months) is 90 percent research for the first 6 months following the same outline as Year 2. Clinical expectation is for ½ day High Risk Clinic weekly and 3-4 units of in-house call monthly. Research is now focused on the completion of the research project, preparation for presentation and manuscript writing.

Metric:

1. Research data analysis/interpretation
2. Regular research meetings with mentor and research committee
3. Completion of research project that will meet the requirements for the thesis for MFM Oral Boards
4. Preparation for presentation of research at a national Meeting: ex SMFM, SGI, AIUM
5. Presentation of research at Grand Rounds
6. Preparation of research in manuscript form
7. Completion of coursework or added coursework
8. Participation in K-30 (if applicable)
9. Continuing attendance at UK workshops.

Year 3, Part 2 (second six months) Focus has returned to clinical rotations (both MFM and electives) at a 78 percent effort. The 23 percent research time (one ½ - four ½ days each week depending on the clinical rotation) will be used to complete manuscript writing. If the Fellow has elected the K-30, completion of all requirements will be the priority.

**V. B. Clinical/Educational Rotation for Fellowship
YEAR 1**

Inpatient MFM - 5 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	7:30am Teaching Rounds Labor & Delivery/Antepartum	Education 10am-11am Fellowship Seminar	7:30am Teaching Rounds Labor & Delivery/Antepartum	7:30am Teaching Rounds Labor & Delivery/Antepartum	7:30am Teaching Rounds Labor & Delivery/Antepartum
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
	PM 5:00pm Board Sign-Out	Research Planning ↓	5:00pm Board Sign Out	5:00pm Board Sign Out	5:00pm Board Sign Out

Research Effort: 10%
Supervising Faculty:
Maternal-Fetal Medicine
Neonatology Faculty
Dr. Regina Fragneto

Outpatient MFM - 2 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	High Risk Clinic	Education 10am-11am Fellowship Seminar	High Risk Clinic	Research Planning ↓	Research Planning ↓
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
	PM High Risk Clinic / Diabetes	Research Planning ↓	High Risk Clinic		

Research Effort: 50%
Supervising Faculty:
Maternal-Fetal Medicine

Ultrasound - 3 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Prenatal Diagnosis	Education 10am-11am Fellowship Seminar	Prenatal Diagnosis	Prenatal Diagnosis	Research Planning ↓
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
	PM Prenatal Diagnosis	Research Planning ↓	Prenatal Diagnosis	Research Planning ↓	

Research Effort: 40%
Supervising Faculty:
Maternal-Fetal Medicine

Fetal Echo/Ultrasound - 1 month

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Prenatal Diagnosis	Education 10am-11am Fellowship Seminar	Prenatal Diagnosis	Fetal Echo/Ultrasound	Research Planning ↓
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
	PM Prenatal Diagnosis	Research Planning ↓	Prenatal Diagnosis	Fetal Echo/Ultrasound	

Research Effort: 30%
Supervising Faculty:
Maternal-Fetal Medicine
Dr. Louis Bezold

Cytogenetics/Ultrasound - 1 month

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Genetics/Prenatal Diagnosis	Education 10am-11am Fellowship Seminar	Genetics/Prenatal Diagnosis	Cytogenetics Lab	Research Planning ↓
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
	PM Genetics/Prenatal Diagnosis	Research Planning ↓	Genetics/Prenatal Diagnosis	Cytogenetics Lab	

Research Effort: 30%
Supervising Faculty:
Maternal-Fetal Medicine
Dr. Anjana Pettigrew

****Overall total research time Year 1 is 25%****

**V. B. Clinical/Education Rotation for Fellowship
YEAR 2**

Research - 12 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Research/Coursework	Research/Coursework 10am-11am Fellowship Seminar	Research/Coursework	Research/Coursework	Research/Coursework
	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		
PM	High Risk Clinic/Diabetes	Research/Coursework	Research/Coursework	Research/Coursework	Research/Coursework

Research Effort: 90%

Supervising Faculty:
Maternal-Fetal Medicine
Dr. Tom Curry
Research Mentor
Research Committee

****Overall total research time Year 2 is 90%****

**V. B. Clinical/Educational Rotation for Fellowship
YEAR 3**

Research - 6 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Research/Coursework	Research/Coursework 10am-11am Fellowship Seminar	Research/Coursework	Research/Coursework	Research/Coursework
PM	12pm-1pm High Risk Conference High Risk Clinic/Diabetes	Research/Coursework	12pm-1pm MFM Conference Research/Coursework	Research/Coursework	Research/Coursework

Research Effort: 90%
Supervising Faculty:
 Maternal-Fetal Medicine
 Dr. Tom Curry
 Research Mentor
 Research Committee

Inpatient - 3 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	7:30am Teaching Rounds Labor & Delivery/Antepartum	Education 10am-11am Fellowship Seminar	7:30am Teaching Rounds Labor & Delivery/Antepartum	7:30am Teaching Rounds Labor & Delivery/Antepartum	7:30am Teaching Rounds Labor & Delivery/Antepartum
PM	12pm-1pm High Risk Conference 5:00pm Board Sign-Out	Research ↓	12pm-1pm MFM Conference 5:00pm Board Sign Out	5:00pm Board Sign Out	5:00pm Board Sign Out

Research Effort: 10%
Supervising Faculty:
 Maternal-Fetal Medicine

Ultrasound - 2 Months

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Prenatal Diagnosis	Education 10am-11am Fellowship Seminar	Prenatal Diagnosis	Prenatal Diagnosis	Research ↓
PM	12pm-1pm High Risk Conference Prenatal Diagnosis	Research ↓	12pm-1pm MFM Conference Prenatal Diagnosis	Research ↓	

Research Effort: 40%
Supervising Faculty:
 Maternal-Fetal Medicine

Fetal Echo/Ultrasound - 1 month

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Prenatal Diagnosis	Education 10am-11am Fellowship Seminar	Prenatal Diagnosis	Fetal Echo/Ultrasound	Research ↓
PM	12pm-1pm High Risk Conference Prenatal Diagnosis	Research ↓	12pm-1pm MFM Conference Prenatal Diagnosis	Fetal Echo/Ultrasound	

Research Effort: 30%
Supervising Faculty:
 Maternal-Fetal Medicine
 Dr. Louis Bezold

****Overall total research effort Year 3 is 51%****

-First 6 months is 90%

-Second 6 months is 23%

V. B. Fellow Supervision

Inpatient MFM: Fellows will be closely supervised while on their clinical rotation. A Maternal Fetal Medicine faculty member is assigned to the inpatient service on a weekly basis. They will work closely with the fellow throughout the week. They will be present at 7:30am teaching rounds and at 5:00pm Board rounds. All clinical decisions will be made in discussion with the assigned MFM attending of the week. Weekends are rotated through the MFM faculty. MFM faculty are always present at Saturday and Sunday morning rounds where patient plans are made for the day.

Outpatient MFM: Outpatient MFM consists of two full days in the High Risk Clinic. One half day will have a heavy emphasis on diabetes management. Each clinic is assigned an MFM faculty that will be working jointly with the fellow. Residents are also assigned to the High Risk Clinic. All clinical management plans will be discussed with the MFM attending.

Ultrasound: A single MFM attending is assigned to the Ultrasound Unit on a half day basis. Mondays and Wednesdays are heavily concentrated with high risk patients and those needing genetic counseling. Dr. Pettigrew is also present all day on Monday and Wednesday. All ultrasounds, genetic counseling, and procedures will be supervised closely by the MFM attending assigned to that half day.

Fetal Echo Ultrasound: This rotation is a combination of prenatal diagnosis with a special emphasis on fetal echo and special cardiac imaging techniques. The fellow is expected to attend all day Monday and all day Wednesday in prenatal diagnosis where they will be supervised closely by the MFM faculty and Dr. Pettigrew. On Thursdays, they will be supervised by Dr. Louis Bezold and his team of pediatric cardiologists and sonographers with expertise in fetal cardiac imaging.

Cytogenetics / Ultrasound: This rotation is a combination of prenatal diagnosis with a special emphasis on genetics. The rotation is designed to give the fellow an introduction to the cytogenetics lab under the direction of Dr. Pettigrew. They will also be involved in genetics and prenatal diagnosis two other days of the week. Their supervision will be by the MFM attending that is assigned to that half day clinic and by Dr. Pettigrew.

Elective: Clinical electives are concentrated in the last half of the third year of fellowship. If the fellow chooses an elective, they will be supervised by Dr. Alice Thornton for Infectious Disease, Dr. Philip Chang for Critical Care in the Surgical Intensive Care Unit, and Dr. Henrietta Bada for Neonatology.

WEEKLY FELLOWSHIP CONFERENCES

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
AM		10am-11am Fellowship Seminar			
PM	12pm-1pm High Risk Conference		12pm-1pm MFM Conference		

High Risk Conference

Weekly discussion of complex patients in the outpatient setting

- * Review of Literature
- * Evidence for Management
- * Guest Consultants
- * Journal Club

MFM Conference

Alternating Weekly

- * Neonatal/Pathology
- * MFM Research
- * MFM Faculty Practice
- * MFM - Administrative Faculty/Fellow Meeting

* Neonatal Fellowship Conference Optional