ECFMG PROGRAM Description

Program Demographics

<table>
<thead>
<tr>
<th>Host Institution:</th>
<th>UT Southwestern Medical Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Specialty/Subspecialty:</td>
<td>Obstetrics &amp; Gynecology / Reproductive Endocrinology &amp; Infertility</td>
</tr>
</tbody>
</table>
| Program Mailing Address: | 5323 Harry Hines Blvd  
Dallas, TX  75390-9032 |
| Program Phone Number: | (214) 648-4747 |
| Program Fax Number: | (214) 648-8066 |
| Program E-Mail: | reiadmin@utsouthwestern.edu; bruce.carr@utsouthwestern.edu |
| Program Director: | Bruce R. Carr, MD |
| Alternate Program Contact: | Briana Collins |

Introduction

**History:**
Since inception in 1974, we have trained 46 fellows

**Duration:**
3 years

**Prerequisite Training/Selection Criteria:**
Candidates must have completed an American Board of Obstetrics and Gynecology approved residency. Candidates are interviewed and decided on by REI faculty members and current fellows.

**Goals and Objectives for Training:**
Our Fellowship Program includes a broad spectrum of exposure to both basic and clinical science in Reproductive Endocrinology. The most important goal of this fellowship is to train academicians. We define an academician in Reproductive Endocrinology as one with broad expertise in clinical gynecologic and obstetric endocrinology and infertility; one who is an independent investigator with the ability to compete for research grant funding; one who can teach effectively in a conference or in a classroom setting and one who can present the results of their scientific or clinical investigations in a professional manner. The Fellows receive extensive instruction in the preparation of slides, writing of manuscripts, computers, public speaking, and grant application preparations.

**Program Certifications:**
American Board of Obstetrics and Gynecology

Resources

**Teaching Staff:**
Bruce Carr, MD (Fellowship Director), Orhan Bukulmez, MD (Division Director), Jianming Li, MD, Karen Bradshaw, MD, Patricia Jimenez, MD, Karla Saner, PhD, Ellen Wilson, MD, Kevin Doody, MD, Ann Word, MD, Samir Babayev, MD

**Facilities:**
Fertility and Advanced Reproductive Medicine - private University out-patient care center for patients referrals to the faculty; William P. Clements Jr. University Hospital - private hospitals, which offer state of the art facilities for operative laparoscopy, hysteroscopy, laser surgery, and microsurgery; Parkland Hospital; Children’s Medical Center; Lowe Foundation Center for Women’s Preventive Health; Aston Ambulatory Care Center; and Center for Advanced Reproduction.
Educational Program – Basic Curriculum

**Basic Curriculum:** The three major goals of the Postgraduate Training Program for physician fellows in the Division of Reproductive Endocrinology & Infertility of the Department of Obstetrics and Gynecology and in the Cecil H. and Ida Green Center for Reproductive Biology Science at the University of Texas Southwestern Medical Center include: 1) **Teaching:** Fellows, residents, and medical students; 2) **Research:** Clinical and basic science and 3) **Patient Care:** Private patients (Fertility & Advanced Reproductive Medicine Center, Center for Assisted Reproduction, William P. Clements Jr. University Hospital) and Parkland Memorial Hospital.

**Clinical**

The clinical experience for Fellows is designed to be comprehensive for both surgical and medical aspects of Reproductive Endocrinology and Infertility. Clinical services are provided at a variety of locations including:

1) Parkland Memorial Hospital
2) Fertility and Advanced Reproductive Medicine Center - private University outpatient care center for patients referred to the faculty.
4) Center for Assisted Reproduction - the Assisted Reproductive Technology Program, oocyte retrievals, GIFT, and ZIFT are performed in this Center.

Fellows also serve as consultants to the Departments of Pediatrics, Internal Medicine, Urology, and General Surgery for problems that involve endocrinopathies in women. Fellows, residents and Division faculty discuss consultations.

Along with managing medical and surgical aspects of a wide variety of clinical problems, Fellows will also participate in the Assisted Reproductive Technology (ART) Program (i.e. the In Vitro Fertilization Program). Fellows will become experienced in transvaginal ultrasonography, sonohysterography, office hysteroscopy, ovarian-controlled hyperstimulation protocols, transvaginal ultrasound-guided follicular aspiration for oocyte retrieval, intrauterine insemination (an embryo transfer technique) and laparoscopic tubal cannulation (as for GIFT, ZIFT, etc.). IVF laboratories and the Andrology laboratories are located in the Medical School within the Division. Fellows will have the opportunity for in-depth exposure to the workings of each of these labs. Fellows on the IVF service also will participate in weekly IVF meetings to discuss individual patients and new topics of ART.

**Research**

**Basic and Clinical** The faculty members of the Departments of Obstetrics and Gynecology, Biochemistry, Physiology, Internal Medicine, Pediatrics, and Urology are involved in a multi-disciplinary training program in reproductive biology. The training program is designed to provide research experience for physicians as well as basic scientists who plan a career in academic medicine.

The Fellows have the opportunity to be involved in one of many laboratory and clinical research projects and one is encouraged to develop his or her own research project in collaboration with members of the Reproductive Endocrinology & Infertility Division, or other sections involved in basic research in reproductive medicine. The areas of active, ongoing reproductive endocrine research include neuroendocrinology, steroid hormone metabolism, hormone mechanisms of action, molecular endocrinology and genetics, myometrium and leiomyomas, development of granulosa and thecal cell lines, and gamete research.

Clinical research projects in which the Fellows are also encouraged to participate include the development of and participation in protocols to study various methods
of treatment in infertility such as AIH, IUI, IVF, ovulation induction, treatment of androgen excess, endometriosis, adhesion prevention, menopause, and others. In addition, the Fellows are able to study interesting endocrine patients with regard to clinical aspects and to extend these studies to the basic sciences in depth in the laboratory.

**Participant’s supervisory and patient care responsibilities**

The fellows are introduced to medical student and resident teaching during the Program, which includes lectures, clinical rounds, and surgical training. Two residents (one fourth year and one third year) as well as one to two senior medical students are assigned monthly to the Division of Reproductive Endocrinology Clinical Service. They attend the weekly out-patient clinic (1 day per week) and surgery (1 day per month) at Parkland Memorial Hospital. The fellow assigned to the service sees patients with faculty on the private service of and reviews all assisted reproductive technology (ART) on a daily basis. Surgery is performed on private Reproductive Endocrinology/Infertility cases one or two days a week at William P. Clements Jr. University Hospital, Outpatient Surgery Center, or Ambulatory Care Center. IVF cases are also performed at the Center for Assisted Reproduction. There is a basic reproductive medicine course for them as well as an Advanced Surgical Workshop that includes laparoscopy and hysteroscopy training. Microsurgical laboratory assignments, laparoscopic/hysteroscopic models, DVD videotapes of surgical procedures and textbook assignments during the month are also available to the fellows and residents.

**Procedural requirements**

Fellows and Faculty staff the Parkland Gynecologic Endocrine Service. Faculty staffing this service are Board Certified or Board Eligible Reproductive Endocrinologists who are also full-time faculty at UT Southwestern Medical Center. Fellows also will be accompanied by residents and medical students assigned to this service. Typically, Fellows are required to understand a wide variety of problems including amenorrhea, dysfunctional uterine bleeding, genital tract anomalies, ovulation induction, estrogen/progesterone replacement, hypothalamic-pituitary dysfunction, infertility from pelvic factors, etc. Fellows will be expected to manage both medical and surgical aspects of care for patients from this service. Laboratory training in laparoscopy and hysteroscopy as well as microsurgery are both available and expected.

**Didactic components**

The three-year Fellowship will include one to two fellows per year in Reproductive Endocrinology. Opportunities for teaching and academic interaction include:

A. Weekly Fellows and Residents Infertility/Endocrine Case Presentations and Lectures
B. Weekly Fellows Conference (M.D.’s and Ph.D.’s) of Current Research Updates
C. Weekly Medicine Endocrine Grand Rounds
D. Weekly Division/IVF Meeting
E. Monthly Reproductive Endocrinology/Gynecology Grand Rounds
F. Monthly Reproductive Endocrinology Journal Club
G. Monthly lecture based on the Guide to Learning Reproductive Endocrinology (Board Preparations)
H. J. Computer Teaching: Graphic and Slide Making, Word Processing and Statistics
I. K. Textbooks Provided: Reproductive Medicine topics to be determined
Progress in responsibilities by PGY Level

Progress in responsibilities over the 3 years is in relation to the year and experience of the fellow. The third year Fellow sets all the schedules and conferences; all duty charts and follow-up clinics.

Evaluation

Although the fellowship has two formally scheduled evaluations for academic year where the faculty provides feedback regarding the fellows’ performances, the Program Director meets with the Fellows on an ongoing daily to ensure they are progressing and on track with targeted goals.