

Department of Obstetrics & Gynaecology, University of Toronto

Residency Rotation-Specific Objectives

Rotation: REI/PAG

REPRODUCTIVE ENDOCRINOLOGY & INFERTILITY (REI) and PAEDIATRIC & ADOLESCENT GYNAECOLOGY (PAG)

CanMEDS Focus Roles: Health Advocate, Communicator.

1 MEDICAL EXPERT

1.1 Knowledge of Anatomy and Physiology Objectives:

- 1 Demonstrate an understanding of reproductive anatomy including:
 - a) Normal embryology of the female and male reproductive tract
 - b) Maturation changes in the reproductive tract from infancy to maturity
 - c) Relation of congenital anomalies to embryology.
- 2 Demonstrate an understanding of endocrinology and common endocrinologic dysfunction on reproductive maturation including:
 - a) Thyroid abnormalities
 - b) Normal maturation and regulation of the hypothalamic pituitary axis, adrenal steroidogenesis and enzyme deficiencies associated with congenital adrenal hyperplasia
 - c) Adrenal and ovarian steroidogenesis and associations with normal menstrual function and abnormal menstrual function.

1.2 Data Gathering Objectives:

- 3 Obtain a complete history from a child, adolescent and/or parent including developmental, social, and medical assessment.
- 4 Obtain a complete history from a couple including a sexual history.
- 5 Conduct the physical assessment including growth, development (Tanner Staging) and reproductive tract (age-dependent technique) and draw appropriate conclusions from the clinical examination.
- 6 Conduct the physical assessment including basic transvaginal ultrasound.

1.3 Clinical Reasoning, Management and Judgement/Diagnostic and Therapeutic Planning

- 7 Manage the following problems:
 - a) Abdominal/pelvic pain
 - b) Abnormal genital bleeding
 - c) Abnormal uterine bleeding
 - d) Ambiguous genitalia
 - e) Amenorrhea
 - f) Congenital anomalies of the reproductive tract
 - g) Contraception (including compliance)
 - h) Delayed puberty
 - i) Dysmenorrhea
 - j) Gender identity disorders
 - k) Genital injuries
 - l) Gonadal dysgenesis
 - m) Hirsutism
 - n) Infertility
 - i) Male factor
 - ii) Diminished ovarian reserve
 - iii) Tubal causes

- iv) Sexual/coital dysfunction
- o) Labial agglutination
- p) Pelvic or abdominal mass/management of torsion
- q) Polycystic Ovarian Syndrome
- r) Precocious puberty/adrenarche/thelarche
- s) Prepubertal vulvovaginitis
- t) Prescribing to the paediatric population (pharmacodynamics of children)
- u) Recurrent pregnancy loss
- v) Recognizing potential sexual abuse
- w) Sexually transmitted diseases
- x) Substance abuse (in adolescents)
- y) Vulvar disorders including lichen sclerosis in pediatrics and adolescents

1.4 Procedural skills Objectives:

1.4.1 Surgical Skills:

- 8 Demonstrate skill appropriate for level of training in:
 - a) Diagnostic laparoscopy
 - b) Operative laparoscopy
 - i) Ovarian cystectomy
 - ii) Paratubal cystectomy
 - iii) Ovarian detorsion}
 - iv) Pelvic adhesions
 - v) Endometriosis
 - c) Pediatric laparotomy (ovarian cystectomy, oophorectomy, surgical cancer staging procedure)
 - d) Evaluation and repair of straddle injury
 - e) IUD insertion under general anaesthesia-
 - f) Vaginoscopy.
- 9 Participate in the surgical procedures necessary for surgical reconstruction of the genital tract.
- 10 Perform diagnostic hysteroscopy as primary surgeon.
- 11 Perform operative hysteroscopy with minimal sedation, with assistance.
 - a. Perform Polypectomy with assistance.
 - b. Perform Uterine septum resection with assistance.
 - c. Perform Lysis of synechiae with assistance.
- 12 Perform sonohysterograms with assistance.

1.4.2 Advanced Reproductive Therapies:

- 13 Demonstrate a working knowledge of the assisted reproductive technologies currently available, including appropriate indications for referral and third-party gamete donation.

2 COMMUNICATOR

2.1 Physician/Patient Relationship Objectives:

- 14 Elicit the trust and cooperation of the child and her family during interactions in ambulatory-care settings, the emergency department, in-house consultations, and perioperatively.
- 15 Demonstrate the ability to elicit the trust and cooperation of the couple and be sensitive to the emotional and psychosocial aspects of infertility.
- 16 Listen effectively, discuss appropriate information with patients/families.
- 17 Teach patients/families, as appropriate.

2.2 Written / Verbal Communication Skills Objectives:

- 18 Convey bad news with empathy to the patient/family and show support.
- 19 Know appropriate common terms associated when documenting individual cases.
- 20 Complete health records in an accurate and timely manner including interactions with patients and families in the ambulatory clinic setting and in telephone interactions.

3 COLLABORATOR

3.1 Team Relations Objectives:

- 21 Demonstrate an understanding of all inter-professional team-member roles in relation to adolescent and paediatric-gynaecologic care and to reproductive endocrinology and infertility.
- 22 Consult the appropriate medical experts to optimize patient care and, in particular for complex pediatric care.
- 23 Participate actively as a team member.
- 24 Demonstrate appropriate communication skills when interacting with all members of the multidisciplinary healthcare team and administrative staff.

4 MANAGER/LEADER

4.1 Time Management Objectives:

- 25 Assess patients in an efficient manner in the ambulatory clinics.

4.2 Resource Stewardship Objectives:

- 26 Determine appropriate investigations for diagnosis of the common paediatric and adolescent gynaecology disorders.
- 27 Determine cost-effective testing for patient management (ambulatory clinic or inpatient care) for the common paediatric and adolescent gynaecology disorders.
- 28 Determine cost effective investigations for diagnosis of the common problems seen in a reproductive endocrinology and infertility setting.

4.3 Administrative Skills Objectives:

- 29 Coordinate ambulatory patient care including communication with consulting services, follow-up of investigations, responding to patient/family queries, and timely completion of health records.

5 HEALTH ADVOCATE

5.1 Determinants of Health/Health Advocacy Objectives:

- 30 Demonstrate an understanding of the unique developmental and social pressures that affect paediatric and adolescent patients and their families, including:
 - Cultural influences on puberty, sexuality, contraception and pregnancy
 - Social and psychological development through childhood and adolescence and how this affects care and counselling
 - Independence of adolescents with respect to their health care.
- 31 Appreciate the unique social pressures that affect infertility couples, including:
 - Cultural influences on treatment options
 - Socio-economic influences on treatment options.

6 SCHOLAR

6.1 Self-Directed Learning Objectives:

- 32 Demonstrate a critical approach to the literature regarding investigation, therapeutics and healthcare delivery with respect to paediatric and adolescent gynaecologic care.
- 33 Demonstrate a critical approach to the literature regarding investigation, therapeutics, and healthcare delivery with respect to infertility.
- 34 Complete PAG e-modules on six common clinical topics.
- 35 Complete REI reading material.

6.2 Critical Appraisal Skills Objectives:

- 36 Present REI rounds once during the rotation.

6.3 Teaching Skills Objectives:

- 37 Share new information in clinical situations with paediatric/adolescent patients and their families.
- 38 Teach medical students or other residents in a collaborative setting.

7 PROFESSIONAL

7.1 Responsibility Objectives:

- 39 Be available to the administrative staff and healthcare team and to participate in the management of the PAG and REI patients, in the clinic, on the wards and in the emergency department in conjunction with the staff, Fellows, and clinic nurses.
- 40 Demonstrate professional attitudes in interactions with patients and other healthcare personnel
- 41 Report absences in a timely manner.

7.2 Self-Assessment Skills/Insight Objectives:

- 42 Demonstrate the ability to communicate with attending staff and request assistance in patient management when appropriate.
- 43 Recognize the need for consult to ancillary services when required.

7.3 Ethics Objectives:

- 44 Demonstrate awareness of the medico-legal issues and ethical issues with respect to patient confidentiality.
- 45 Demonstrate awareness of the role of child protective agencies with regard to sexual abuse.
- 46 Demonstrate familiarity with some of the common ethical issues that arise from reproductive technology.
- 47 Be familiar with the “Assisted Human Reproductive Care Act” and its implications for patient care.

7.4 Determinants of Health/Health Advocacy Objectives:

- 48 Identify the important determinants of health affecting patients and contribute effectively to improved health of patients and communities.
- 49 Recognize and respond to those issues where advocacy is appropriate.

Version Control

Date	Version No	Author	Location of Revisions	Approved at RPC Meeting
Oct 15 2012		S Kives, H Shapiro, CSutherland	Major rewrite	
Dec 08 2015	V2.2	S Kives, H Shapiro, M Wais, CSutherland	Minor revisions	December 7, 2015
Sept 26 2017	V2.3	S Kives, H Shapiro, L Hawkins, CSutherland	CanMEDS roles added; Minor revisions in blue font	Oct 02, 2017