

# REPRODUCTIVE ENDOCRINOLOGY AND INFERTILITY RESIDENT READING CURRICULUM

This document contains a suggested reading/study curriculum for residents prior to graduation. The content has been divided into topic-specific reading suggestions.

The reading consists of selected articles/chapters from the following:

- ASRM Committee Opinions
- ACOG Practice Bulletins and Committee Opinions
- Classic manuscripts and original research publications from various journals
- ASRM airLearning Modules
- Speroff: Clinical Gynecology Endocrinology and Infertility, 8<sup>th</sup> edition

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Keyword

Topic

- Andrology/Urology Education (0)
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- Continuing Medical Education (0)
- Access to Care (0)
- Androgen Excess/PCOS (0)

Credits

- Certificate of Completion (0)
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Course Name	Price	Credits	Select Course(s)
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Amenorrhea	List Price: Free	0.00 CREGG	Requires Login
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Premenstrual Syndrome/Premenstrual Dysphoric Disorder	List Price: Free	0.00 CREGG	Requires Login
Hirsutism	List Price: Free	0.00 CREGG	Requires Login

## **INFERTILITY**

- Classic / Original Research Articles:
  - Pereira, N. et al. Antibiotic prophylaxis for gynecologic procedures prior to and during the utilization of assisted reproductive technologies: a systematic review. *J Pathog* 2016; 2016:4698314.
- ACOG Committee Opinion:
  - Infertility Workup for the Women's Health Specialist (June 2019)
- ASRM Committee Opinion:
  - Pre-pregnancy counseling (2019)
  - Optimizing natural fertility (2017)
  - Diagnostic evaluation of the infertile female: a committee opinion (2015)
  - Diagnostic evaluation of the infertile male: a committee opinion (2015)
  - Smoking and infertility: a committee opinion (2018)
  - Evidenced Based Treatments For Couples With Unexplained Infertility (2020)
  - Testing and Interpreting Measures of Ovarian Reserve (2015)
- airLearning Modules:
  - RES013 – Infertility Evaluation
- Speroff 8<sup>th</sup> ed:
  - Chapter 27 – Female infertility

## **RECURRENT PREGNANCY LOSS**

- Classic / Original Research Articles:
  - Coomarasamy, A., et al. A randomized trial of progesterone n women with recurrent miscarriages. *N Engl J Med* 2015; 373:2141-8.
  - Liddel, H. et al. Recurrent miscarriage-Outcome after supportive care in early pregnancy. *Aust NZ J Obstet Gynaecol.* 1991. PMID 1799343
- ASRM Committee Opinion:
  - Definitions of infertility and recurrent pregnancy loss (2020)
  - Evaluation and treatment of recurrent pregnancy loss: a committee opinion (2012)
  - Uterine Septum (2016)
- ACOG Practice Bulletin #132
  - Antiphospholipid Antibody Syndrome (Dec 2012, Reaffirmed 2017)
- airLearning Modules:
  - RES012 – Recurrent Pregnancy Loss
- Speroff 8<sup>th</sup> ed:
  - Chapter 28 – Recurrent pregnancy loss

## **POLYCYSTIC OVARIAN SYNDROME, CAH AND REGULATION OF MENSES**

- Classic / Original Research Articles:
  - Legro, R. et al. Letrozole versus Clomiphene for infertility in Polycystic Ovary Syndrome. *N Eng J Med* 2014; 371(2): 119-129.
  - Diamond, M. et al. Endometrial shedding effect on conception and live birth n women with Polycystic Ovary Syndrome. *Obstet Gynecol* 2012; 119(5): 902-908.
  - Morin-Papunen, L. et al. Metformin improves pregnancy and live birth rates in women with Polycystic Ovary Syndrome (PCOS): a multicenter, double-blind, placebo-controlled randomized trial. *J Clin Endocrinol Metab.* 2012; 97(5):1492-500.
  - Revised 2003 consensus on diagnostic criteria and long-term health risks ertlated to Polycystic Ovary Syndrome. *Fert Steril* 2004; 81(1): 19-25.
- ACOG Practice Bulletin:
  - #136 Management of AUB Associated w/ Ovulatory Dysfunction (Reaffirmed 2018)

- #194 Polycystic Ovary Syndrome (June 2018)
- ASRM Committee Opinion:
  - Recommendations from the international evidence-based guideline for the assessment and management of PCOS (2018)
  - Obesity and reproduction (2015)
  - Role of Metformin for ovulation induction in infertile patients with PCOS (2017)
- airLearning Modules:
  - RES011 – Polycystic Ovary Syndrome
  - RES010 – Hirsutism
- Speroff 8<sup>th</sup> ed:
  - Chapter 6 -- Regulation of the menstrual cycle
  - Chapter 14 – Menstrual disorders
  - Chapter 15 – Abnormal uterine bleeding

## THE CLIMACTERIC

- Classic / Original Research Articles:
  - Manson, J. et al. The Women's Health Initiative Trials of Menopausal Hormone Therapy: Lessons Learned. *Menopause*. 2020 PMID: 32345788
  - Rossouw, J. et al. Lessons Learned From the Women's Health Initiative Trials of Menopausal Hormone Therapy. *Obstet Gynecol*. 2013; 121(1): 172-6.
- ACOG Committee Opinion:
  - Postmenopausal Estrogen Therapy: Route of Administration and Risk of VTE (April 2013)
  - Use of Vaginal estrogen in women with history of breast cancer (March 2016)
- ACOG Practice Bulletin:
  - #141 Management of Menopausal Symptoms (January 2014, Reaffirmed 2018)
- ASRM committee Opinion:
  - Compounded bioidentical menopausal hormone therapy (2012)
  - A decade after the Women's Health Initiative (2013)
- airLearning Modules:
  - RES015 – Evaluation of the Climacteric
  - RES016 – Management of the Climacteric Period
- Speroff, 8<sup>th</sup> ed:
  - Chapter 17 – Menopause and the perimenopausal transition
  - Chapter 19 – postmenopausal hormone therapy

## ASSISTED REPRODUCTIVE TECHNOLOGY AND FEMALE/MALE FACTORS OF INFERTILITY

- Classic / Original Research Articles:
  - Strandell, A., et al. Hydrosalpinx and IVF Outcome: A prospective randomized multicenter trial in Scandinavia on salpingectomy prior to IVF. *Hum Reprod*. 1999;14(11):2762-2769.
  - Davies, M. et al. Reproductive technologies and the risk of birth defects. *N Engl J Med*. 2012; 366:1803-13.
  - Qin, J. et al. Assisted reproductive technology and the risk of pregnancy-related complications and adverse pregnancy outcomes in singleton pregnancies: a meta-analysis of cohort studies. *Fert Steril* 2016; 105(1): 73-85.
  - Doyle, J. et al. Successful elective and medically indicated oocyte vitrification and warming for autologous in vitro fertilization, with predicted birth probabilities for fertility preservation according to number of cryopreserved oocytes and age at retrieval. *Fert Steril* 2016; 105(2): 459 – 466.

- Green, K. et al. Progesterone Luteal Support After Ovulation Induction and Intrauterine Insemination: An Updated Systematic Review and Meta-Analysis *Fert Steril* 2017; 107(4): 924-933.
- ASRM Committee Opinion:
  - Testing and interpreting measures of ovarian reserve (2015)
  - Female age-related fertility decline (2014)
  - Evaluation of the azoospermic male (2018)
  - Management of NON-obstructive Azoospermia (2018)
  - Management of Obstructive Azoospermia (2019)
  - Use of Preimplantation Genetic Testing (PGT-A) (2018)
  - Fertility treatment when the prognosis is very poor or futile (2019) Ethics committee Document
  - Prevention and treatment of OHSS (2016)
- airLearning Modules:
  - RES014 – Assisted Reproductive Technologies
- Speroff 8<sup>th</sup> ed:
  - Chapter 31 – Induction of ovulation
  - Chapter 32 – Assisted reproductive technologies

## **PRIMARY AND SECONDARY AMENORRHEA**

- Classic / Original Research Articles:
  - Rebar, R. Premature Ovarian Failure. *Obstet Gynecol* 2009; 113(6): 1355-1363.
  - Hughes, I., et al. Androgen insensitivity syndrome. *Lancet*. 2012; 380: 1219-1428.
- ACOG Committee Opinion:
  - The Female Athlete Triad (#702, Jun 2017)
  - Hormone Therapy in POI (#698, May 2017)
  - Primary Ovarian Insufficiency in Adolescents and Young Women (July 2014)
  - Management of Acute Obstructive Uterovaginal Anomalies (#779, Jun 2019)
  - Mullerian Agenesis: Diagnosis, Management, and Treatment (May 2013)
- ASRM Committee Opinion:
  - Current evaluation of amenorrhea (2008)
- airLearning Modules:
  - RES007 – Amenorrhea
  - RES008 – Galactorrhea/Hyperprolactinemia
- Speroff, 8<sup>th</sup> ed:
  - Chapter 11 – Amenorrhea
  - Chapter 12 – Chronic anovulation and PCOS
  - Chapter 13 - Hirsutism

## **SURGICAL TREATMENT FOR INFERTILITY**

- Classic / Original Research Articles:
  - Myers, E. et al. Comprehensive management of severe Asherman syndrome and amenorrhea. *Fert Steril*. 2012; 97(1):160-165.
  - Lin, Z. et al. Prospective, randomized, controlled trial comparing the efficacy of intrauterine balloon and intrauterine contraceptive device in the prevention of adhesion reformation after hysteroscopic adhesiolysis. *Fert Steril* 2015; 104(1):235-40.
  - Berger, G. et al. Effectiveness of bilateral tubotubal anastomosis in a large outpatient population. *Hum Reprod* 2016; May;31(5):1120-5.
  - Hirschfeld-Cytron, J. et al. Laparoscopic tubal anastomosis versus in vitro fertilization: cost-based decision analysis. *AJOG* 2013; 209(1):56.e1-6.

- Zhang H, et al. Hysteroscopic Resection of Endometrial Polyps and Assisted Reproductive Technology Pregnancy Outcomes Compared with No Treatment: A Systematic Review. *J Minim Invasive Gynecol*. 2019;26(4):618-627.
- Raffi, F. et al. The impact of excision of ovarian endometrioma on ovarian reserve: A systemic review and meta-analysis. *J Clin Endocrinol Metab*. 2012; 97: 3146-3154.
- Marcoux, S. et al. Laparoscopic surgery in infertility women with minimal or mild endometriosis. *N Eng J Med* 1997; 337(4): 217-222.
- Falcone, T. et al. Surgical management of leiomyomas for fertility or uterine preservation. *Obstet Gynecol* 2013; 121(4): 856 – 866.
- Templeman, C. et al. Managing mature cystic teratomas of the ovary. *Obstet and Gynecol Surv* 200; 55(12): 738-744.
- Mol, F. et al. Salpingotomy versus salpingectomy in women with tubal pregnancy (ESEP study): an open label, multicenter randomized controlled trial. *Lancet*. 2014 383: 1483-89.
- ACOG Committee Opinion:
  - Management of Endometriosis (2019, Reaffirmed 2018)
- ASRM Committee Opinion:
  - Postoperative adhesions (2019)
  - Removal of myomas in asymptomatic patients to improve infertility and/or reduce miscarriage rate (2017)
  - Role of tubal surgery in the era of assisted reproductive technology (2015)
  - Treatment of pelvic pain associated with endometriosis (2014)
  - Endometriosis and Infertility (2012)
  - Report on Varicocele and Infertility (2014)
  - Uterine Septum (2016) (PGY1 Week 2)
- Supplementary:
  - AAGL Practice Report: Practice Guidelines on Intrauterine Adhesions developed in Collaboration with the European Society of Gynaecological Endoscopy (ESGE). *JMIG*. 2017; 24(5): 695-705.
- airLearning Modules: None

## **PUBERTAL DEVELOPMENT, DEVELOPMENT OF THE REPRODUCTIVE TRACT AND AMBIGUOUS GENITALIA**

- Classic / Original Research Articles:
  - Bhagavath, B., et al. Uterine Malformations: An Update of Diagnosis, Management, and Outcomes. *Obstet Gynecol Surv*. 2017; 72(6): 377-392.
  - Carel, J. et al. Precocious puberty. *N Engl J Med*. 2008; 385: 2366-2377.
- ACOG Committee Opinion:
  - Menstruation in girls & adolescents: Using the Menstrual Cycle as a VS (Reaffirmed 2015)
- airLearning Modules:
  - RES001 – Precocious Puberty
  - RES004 – Delayed Puberty
  - RES002 – Developmental Anomalies of the Urogenital Tract
- Speroff, 8<sup>th</sup> ed:
  - Chapter 9 – Normal and abnormal sexual development
  - Chapter 10 – Normal and abnormal growth and pubertal development