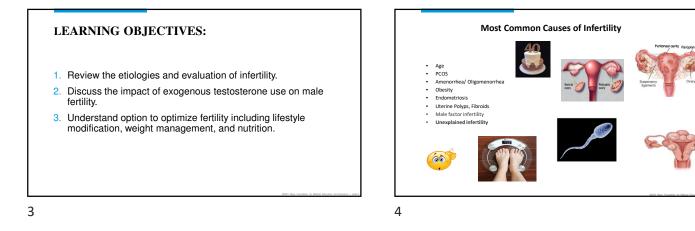


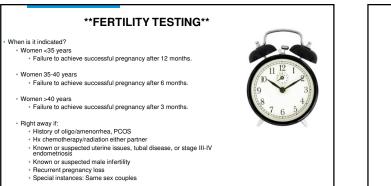
DISCLOSURES:

• I have no disclosures.

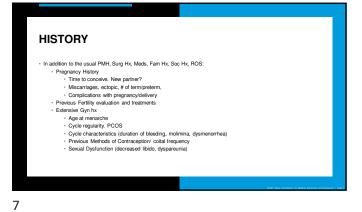
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2



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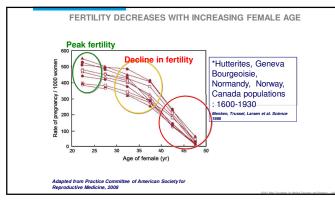
HISTORY

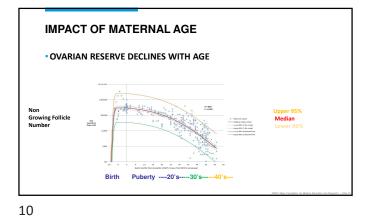
History continued
 Sexually transmitted infections/PID

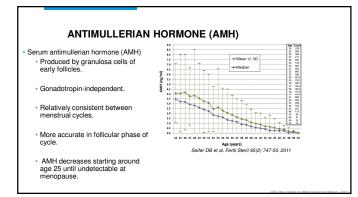
Hx fibroids, polyps, endometriosis, ovarian cysts

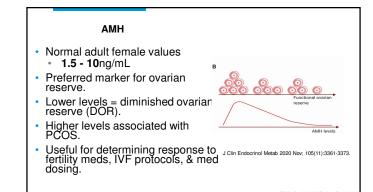
- SX Endocrine disease
- · Thyroid, Galactorrhea, Hirsutism, Acne, hot flashes · Abnormal paps/subsequent treatment
- Family history of birth defects, delayed development, early menopause, RPL
 Occupation & exposure to environmental hazards (chemo tx, radiation tx)
- · Eliminate Tobacco, Nicotine, and drugs
- Avoid ETOH
- Caffeine <200mg per day

8









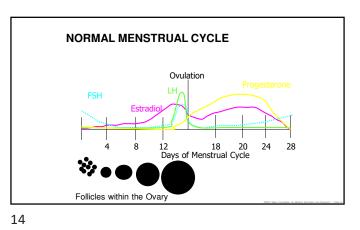
ANTRAL FOLLICLE COUNT

- Sum of the number of small follicles in both ovaries measuring 2–10 millimeters in diameter during an early follicular phase transvaginal scan.
- Measure of ovarian reserve
- The AFC correlates with the size of the remaining follicular pool
- AFC <5 is low
- AFC- 12-15 is normal
- AFC > 25 associated with PCOS

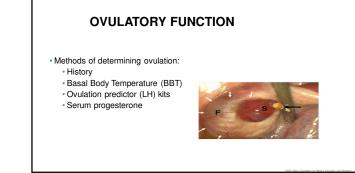


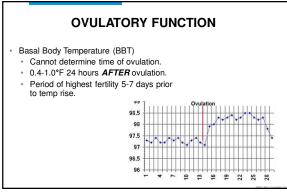
J Clin Endocrinol Metab 2020 Nov; 105(11):3361-3373. Fertility and Sterility. 103(3). 2015: 0015-0282.

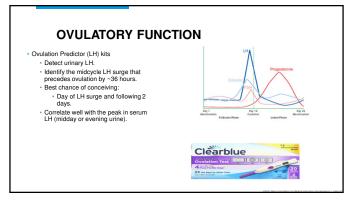
13

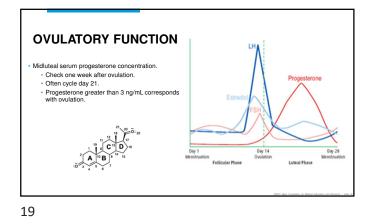


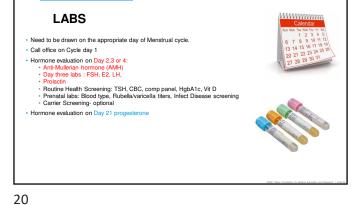
ANOVULATION • 40% of infertility in women • Common causes: • Polycystic ovary syndrome • Obesity • Weight gain or loss • Strenuous exercise • Thyroid dysfunction • Hyperprolactinemia



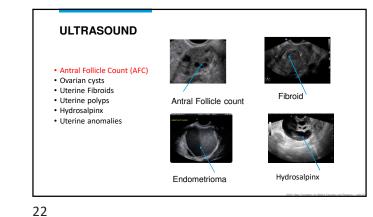


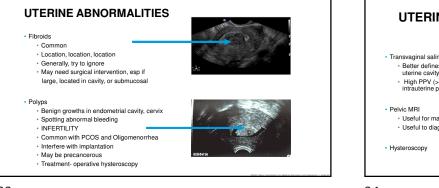


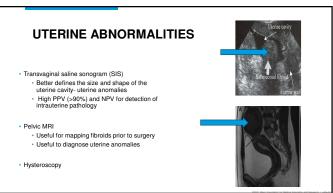


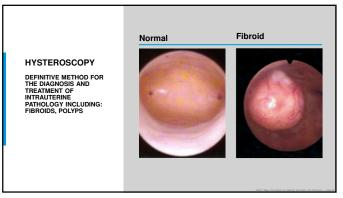


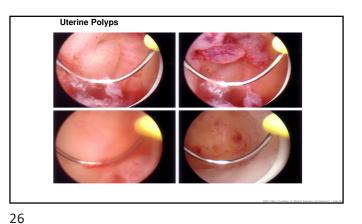
ARATOMICAL ISSUES • Ideally schedule Vag ultrasound at • Ideally schedule Vag ultrasound at • Argenaring of lining • Normal < 6mm • Normal < 6mm • Presence of follicles • Presence of cysts



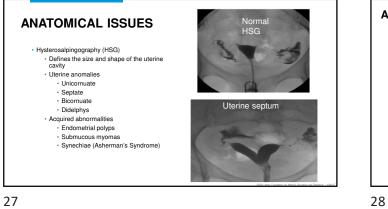


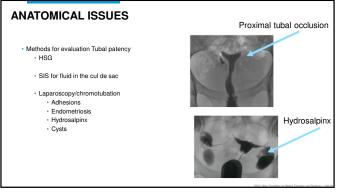


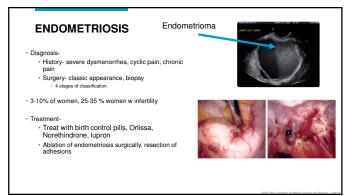


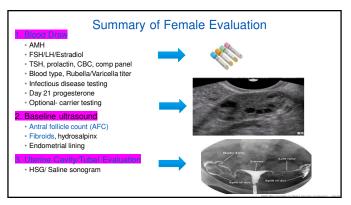


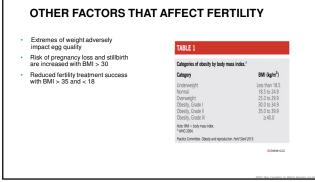




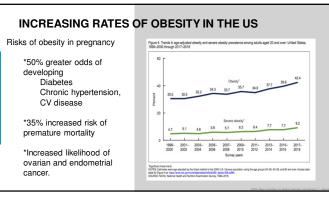








31



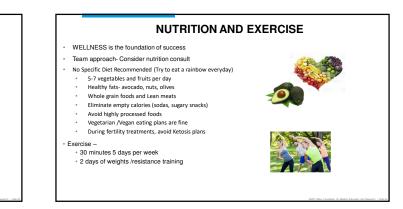
32

OBESITY AND PREGNANCY

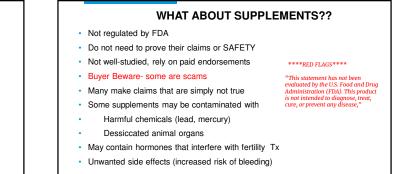
Risks to the Baby:

- · Increased risk of Macrosomia
- Increased risk of Stillbirth and neonatal death (Kalliala et al. 2017)
 For children who are large for gestational age (LGA)
- 2- to 5-fold higher risk of childhood and adult obesity
- · Increased risk of cardiovascular risk factors in young adulthood
 - Glucose intolerance
 - Insulin resistance
 - Hypertension
 - Dyslipidemia
- · Increased risk of cardiovascular mortality in offspring

33







RECOMMENDED SUPPLEMENTS

Prenatal Vitamin

- No preferred brand
- Tablet or chewable form No prescription is necessary
- Should contain at least 0.8 mg or 800 micrograms (mcg) of folic acid

Vitamin D (also known as Vitamin D3 or Cholecalciferol)

- 1000 2,000 IU per day
- No prescription is necessary
- Omega 3 Fatty Acids (also known as Fish Oils, DHA, and/or EPA)
- 1000 mg per day (Many prenatals include DHA)
 No prescription is necessary

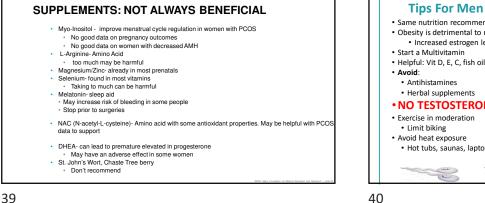
ADDITIONAL SUPPLEMENTS Vitamin C • 500 -1000 mg per day Usually included in prenatal or multivitamin
Beneficial effects as an antioxidant and for immunity Co-Enzyme Q10- "Improvement in egg quality" 400 mg to 600 mg per day No prescription is necessary Ubiquinol is also another form of Co-Enzyme Q10 · Mouse studies have shown improvement in egg quality · Caveat- no human studies have shown this · Unlikely to be harmful

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38

- · Promising results for beneficial antioxidant effects
- Frozen or powder forms provide highest potency

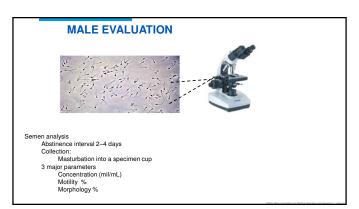
37



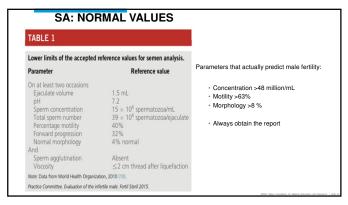




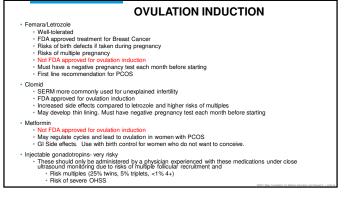








43



44

WHEN TO START CLOMID OR LETROZOLE

· Patients having menstrual cycles:

- Early follicular phase
 Negative pregnancy test
 - Start Clomid Day 3-5. 50 mg-100 mg po daily for 5 days
 - Start Letrozole Cycle day 3-5. 2.5- 7.5 mg po daily for 5 -7 days
- Anovulatory PCOS patients:
 Induce a menstrual cycle
 - Consider EMB if prolonged unopposed estrogen exposure first
 Neg bhcg. Then Prometrium 400 mg for 10 days

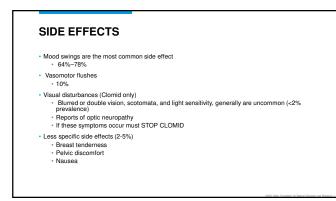
WHEN TO TIME INTERCOURSE?

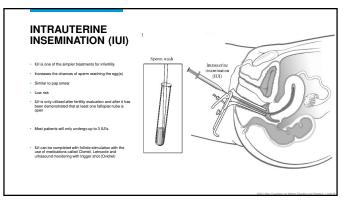
Use LH predictor kits

- Ultrasound monitoring on cycle day 10-14 and give Ovidrel 250mcg with dominant follicle
- Or simply prescribe intercourse cycle days 10, 12, 14, 16
 * Sperm survive 72 hours in the reproductive tract
- Midluteal progesterone > 5 confirms ovulation
- Among anovulatory women who ovulate with CC, the cumulative conception rates for 50 mg/d, 100 mg/d, or 150 mg/d at 3 months are 50%, 45%, and 33%, respectively

45

46







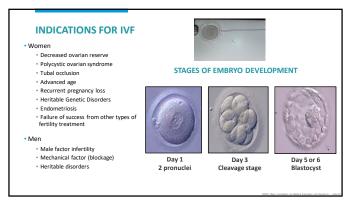
IN VITRO FERTILIZATION (IVF)

 A form of Assisted Reproductive Technology (ART) which consists of removing eggs from the ovary, fertilizing the eggs with sperm outside the body (in vitro) and transferring a resulting embryo into a uterus.

 Options with donor egg, donor sperm, adopted embryos and/ or gestational carriers.

 Nearly 30 million babies born from IVF procedures worldwide

49



50

RESOURCES

- Fertile Hope: financial assistance & information

 A national nonprofit organization providing reproductive information, support, and hope to cancer patients and survivors whose medical treatments present the risk of infertility.
 www.fertilehope.org
- Everlasting Hope: Support group and resource for ND patients

American Society of Reproductive Medicine: ASRM
 * www.asrm.org

Resolve: The national infertility association
 www.resolve.org

