Learning Objectives

- Basic understanding of the menstrual cycle
- Basic understanding of the physiology of reproduction
- Basic understanding of male and female infertility testing
- Basic understanding of polycystic ovarian disease
- Basic understanding of infertility treatments including ovulation induction and in-vitro fertilization
MALE/FEMALE FACTORS

- Male Factor Only – 35%
- Female Factor Only – 35%
- Male & Female – 25%
- Unexplained – 5%

<table>
<thead>
<tr>
<th>Time Required for Conception (25)</th>
<th>% Pregnant</th>
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<tbody>
<tr>
<td>Months of Exposure</td>
<td></td>
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<tr>
<td>3 months</td>
<td>57%</td>
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<tr>
<td>6 months</td>
<td>72%</td>
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<tr>
<td>1 year</td>
<td>85%</td>
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<tr>
<td>2 years</td>
<td>93%</td>
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</table>
Adrenal
Peripheral conversion in Adipose Stroma

Ovary

A
DHEA

ILH

Ve
ratio

Adolescent Obesity and Metabolic Impairment

Control

Overweight

Moderately Obese

Severely Obese

GOALS TO BE ACHIEVED

50% BENEFIT TO HEALTH STATUS WITH ONLY 5-7% REDUCTION IN BODY WEIGHT
LOW CALORIE, LOW CHOLESTEROL DIET
SMOKING CESSATION
DRINKING ALCOHOL IN MODERATION
*REGULAR* EXERCISE

E-P-T'S OF METABOLIC SYNDROME

E = EDUCATION
P = PREVENTION
T = TREATMENT

If nature can't deliver...

With Serono's help you can
ASSISTED HATCHING

Artificial thinning or breachment of the zona pellucida enables an embryo that develops to the blastocyst stage to easily expand through the confines of the zona pellucida.


IMPLICATIONS FOR THE FUTURE

- Improvement in success rates of assisted fertilization procedures
- Preimplantation embryo biopsy and potential for prenatal genetic diagnosis
- New frontiers, new techniques


MY MOTHER WAS A SURROGATE WHO HAD IN VITRO FERTILIZATION FROM AN UNKNOWN DONOR, SANCTIONED BY MY DAD. HOW ABOUT YOU?

I DON'T KNOW IF I CAN HANDLE THE LAUGHTER WHEN I TELL HIM THE STICK BROKE.

PMH: MINIMAL AGE 17 WITH SEVERE OHEMORRHEITA 
- CONCEIVED AT 14 WEEKS POST 2006 
- PRIMARY CRYSTALIZATION OF 7.2 WEEKS POST 2006 
- LOW STEROID LEVELS OF 7.2 WEEKS POST 2006 
- PREGNANCY CRYSTALIZATION OF 7.2 WEEKS POST 2006 
- PREGNANCY CRYSTALIZATION OF 7.2 WEEKS POST 2006

- DEP PERFORMED FOR FETAL NUCLEAR ABNORMALITY 2002
- ADENOMATOUS HYPOPHYSEAL ISSUES - PROLIFERATIVE TISSUE AGAINST 60 BONES PER SPECIES

FAMILY HISTORY
- FATHER, MOTHER & GRANDMOTHER - HYPERTENSION
- GRANDMOTHER - BREAST CANCER
- FATHER, GRANDMOTHER - ARTHRITIS
- FATHER, GRANDMOTHER & GRANDFATHER - DIABETES
- GRANDMOTHER - HEART DISEASE

LIFESTYLE IMPROVEMENTS
- DECREASE INSULIN RESISTANCE
- DECREASE "LDL" CHOLESTEROL LEVELS
- DECREASE TRIGLYCERIDE LEVELS
- LOWER BLOOD PRESSURE LEVELS
- ELEVATE HDL CHOLESTEROL LEVELS
- IMPROVE CARDIOVASCULAR FUNCTION
- DECREASE CORONARY HEART DISEASE RISK
- INCREASE LONGEVITY

"WHEN THE GOING GETS TOUGH, THE TOUGH GET GOING"

- LOOK BETTER - FEEL BETTER
- LIVE LONGER

SOME OF US SPEND HALF OF OUR LIVES SAYING "I'm too young to worry about that or do that"
AND THE SAME PEOPLE THEN SAY "well, now I'm too old to worry about that or do this"

PLEASE!!!!!! GET REAL.
CASE STUDY CONTINUES

RECOMMENDATIONS

1. NUTRITIONAL CONSULT
2. WEIGHT LOSS
3. AEROBIC AND ANEROBIC EXERCISE
4. REDUCTION IN LIPOS

TREATMENT

1. PROGESTIN WITHDRAWAL AFTER NEGATIVE HCG
2. ORAL CONTRACEPTION & ROBIELLA VACCINATION
3. MEFLOQUIN 100 MG TID
4. PRENATAL VITAMINS
5. AROMATASE INHIBITOR, LETRIZOLE 1 MG/DAY ON CYCLE DAYS 5-7
6. NO LH SURGE BUT ULTRASOUND ON CYCLE DAY 21
   REVEALED 1 X 9 MM FOETUS, 12 - 11J, IVF = 2
7. SEXUAL RELATIONS FOLLOWED BY POOR POSTCITAL
   TEST
8. ULTRASOUND CYCLE DAY 22 REVEALED EARLY
   HEMORRHAGIC CORPUS LUTEBUM, PW = 3
9. LUTEAL PHASE SUPPORT DESAMETOCORTON 20 MG/DAW
10. HCG 2 WEEKS LATER 1 100
11. ULTRASOUND REVEALED VIABLE TWINS