Lifestyle Management of PCOS: Nutrition, Exercise and Stress Reduction

What DO I Eat?

With so much information and misinformation what to eat and not to eat, how do I go about taking care of myself in a reasonable lifestyle way?





Studies show those with PCOS who manage their diet and lifestyle have:

Less metabolic and weight issues

Improvement in ovulation and fertility

Lowered risk of diabetes and heart disease

Considerations

- Balance of your Food
- * Specific foods to include and avoid
- Amounts of Food
- * Lifestyle: Exercise, Sleep, Stress
- Supplements



Anti-Inflammatory Eating

- Lower INFLAMMATION of any kind caused by foods
- Choose real non-man made foods over processed packaged foods, mostly organic and pastured protein







Increased stress in the body

- Less resiliency for change
- Energy and weight challenges caused by moderate to high levels of insulin resistance

Balance of the Diet

✤ 3 Major Macronutrients:

Carbohydrate:

Types & amounts important!



Protein

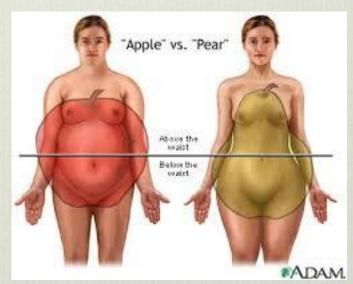


FAT



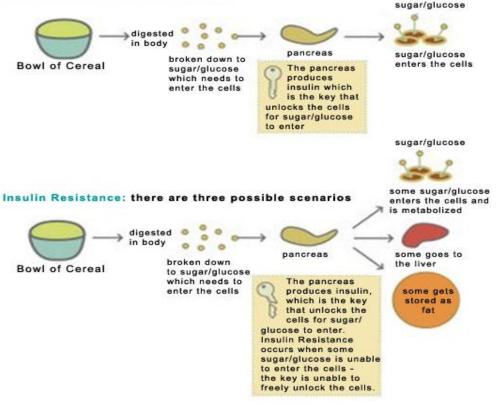
What's the Magic Balance?

- Diet Balance is individual and varies according to:
 - Genetics, level of insulin resistance
 - Weight distribution
 - Medical history/labs
 - Activity/exercise
 - * Age



Insulin Resistance

Regular Metabolism of Carbohydrate



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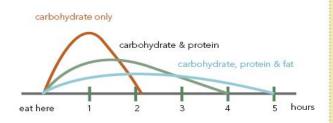
Insulin Resistance

- Insulin Sensitive when eating carbs the pancreas secretes insulin to efficiently allow food/glucose to enter the cells for fuel
- Insulin Resistant when eating carbs either not enough, too much or inefficient insulin is released
- Levels of Insulin Resistance large spectrum

Insulin Resistance

- Slower metabolism store fat and weight more quickly, especially in the belly
- Less energy and get up and go
- Increased levels of hunger and lower satiation with meals
- Increased risk for gestational diabetes and type 2 diabetes

Meal Balance and Insulin Resistance



Meal balance

If you eat a high-carbohydrate, low-protein breakfast, insulin levels can increase sharply, causing your blood sugar to crash within 2 - 2½ hours, stimulating hunger. If you eat a balance of protein, healthy fat, and moderate amounts of carbohydrate, insulin levels will rise more moderately, causing your blood sugars and appetite to be at a more even keel.

Healthy Carbohydrates

- Whole real food sources vegetables, salads, fruits, nuts/seeds, yams, squash, and some grains such as brown rice, and quinoa
- Avoiding packaged/processed sources which trigger increased insulin release
- Limit sugars and sweets which

...drive insulin resistance



Count and Monitor all Carb sources

- **Recommended Sources:** vegetables, salad, and some fresh fruit, nuts/seeds, organic dairy
- Healthy sources/limited amounts: beans, yams, brown rice, quinoa, grains
- Avoid: pasta, white rice,

potatoes, bread, cereal, desserts, sugar,

candy, dried fruit, juices, sodas, etc.



Inflammation

 Starchy processed carbohydrates, and high amounts of carbohydrate increase insulin release and trigger inflammation



Protein

- Protein helps keep one's blood sugar even keeled and contributes the most to satiation to prevent overeating
- Recommended protein sources grass-fed meat, pastured poultry and eggs, wild fish, nuts/seeds, organic dairy and grass-fed or European cheeses, beans/lentils



Fat

***** Types of Fat:

Saturated Fat – butter, animal sources

Polyunsaturated –

- Omega 6 fats versus Omega 3 Fats vegetable fats
- Monounsaturated avocado, olive oil, nuts/seeds
- Trans Fats omega 6 fats that have been hydrogenated to increase shelf life (packaged crackers, cookies, etc.)

Healthy Fats

- Omega 3 Fats
 - 1. ALA found in ground flax seed
 - 2. DHA and EPA –

found in fish and fish oil



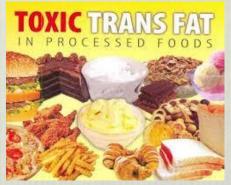
****These 3 omega 3 fats essential with PCOS**

Monounsaturated Fats – found in avocado, nuts/seeds, olive oil



Limit Omega 6 and Trans Fat

- Limit oils that are omega 6 fatssoybean, vegetable, corn, etc.
- Limit packaged foods that contain these oils even if package states "no trans fat"



A Healthful Meal: Anti-Inflammatory Eating

- Start meal with a protein source
- Balance with a healthy sources of carbohydrate, such as a vegetable, salad, fruit or healthy grain
- Round out the meal with a source of monounsaturated or omega-3 rich fat source



Ingredients or Label?

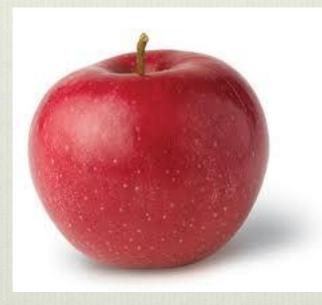
- How many ingredients does the food have?
- Try to limit to no more than 5-6
- Are any of the ingredients names for sugar?
- How many preservatives or stabilizers does the product contain?
- Are there any names you don't recognize or can't pronounce?

White Cake with Buttercream Frosting



Contains: sugar, enriched wheat flour (wheat flour, ferrous sulfate, niacin, thiamin mononitrate, riboflavin, folic acid), partially hydrogenated soybean and/or cottonseed and/or palm and/or palm kernel and/or coconut oils, water, milk, skim milk, corn syrup, strawberry apricot (sulfur dioxide), cocoa (alkali), contains 2 % or less of: salt, natural and artificial flavors, emulsifiers (propylene glycol monoesters, mono and di-glycerides, soy lecithin, sodium stearoyl lactylate, polyglycerol esters of fatty acids, glycerol mono-stearate, sorbitan tristearate, polysorbate 60), egg whites, corn sugar, modified foods starch, leavening (sodium bicarbonate, sodium aluminum phosphate, mono and dicalcium phosphate), cellulose, corn starch, high fructose corn syrup, carbohydrate gum, sodium citrate disodium phosphate, cheese culture, lactic acid, whey buttermilk, modified tapioca starch, sodium phosphate corn syrup solids, sodium caseinate, BHA, citric acid, potassium sorbate, sodium benzoate (preservatives), xanthan and locust bean gums, caramel color (sulfur dioxide), vanillin, beta carotene (color), FD &C color (reds #40 and #3, yellow #6 and #5, blue #1 and #2, titanium dioxide), vitamin D3.

Versus an Apple LABEL?



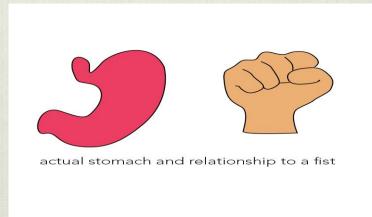
Hunger and Satiation

Mindful Eating: Questions to Ask

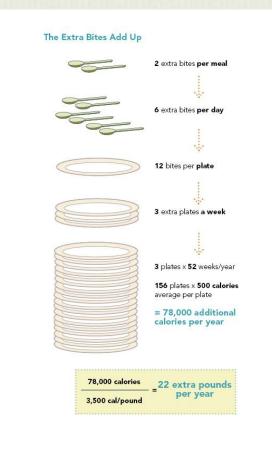
- 1. Am I truly physically HUNGRY (vs. INSULIN RESISTANT HUNGRY)?
- 2. How much do I need to eat to be just satisfied (versus full?)
- 3. How will this meal affect me? Will I be more hungry vs. satisfied?

Muscle Memory

Of the Stomach CAN be changed: your Stomach is only a little bigger than your fist!



Additional Bites DO Matter!



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What about Exercise? Movement Throughout The Day



Susan B. Dopart, MS, RD, CDE

Exercise Dramatically Lowers Insulin Resistance!

- Exercise increases insulin sensitivity and glucose uptake in skeletal muscles by 20-50 fold
- Exercise increases the amount of aerobic enzymes in skeletal muscles by as much as 20fold
- Exercise lowers insulin resistance by 30-50% depending on the level of activity

Activity/Exercise

- Regular consistent exercise even 30 minutes per day can lower insulin resistance by as much as 50% for 24 hours
- 10 minute walks
 ...following a meal
 dramatically



Insulin Resistance

Lowering Stress

Yoga and Meditation:

significant improvements in insulin resistance, lab parameters, anxiety and overall well-being



Sleep

Sleep is Critical since it affects:

- Weight gain or loss
- Hunger levels
- How well insulin works which affects all aspects of weight, stress and energy levels



Sleep and Insulin

- Normal insulin sensitivity is associated with 7.5 hours of sleep
- Less than 7 hours of sleep exponentially increases insulin resistance with less than 5 hours associated with 58% less insulin sensitivity
- Sleep disturbance decreases leptin by 20% and increases ghrelin by 28%
- Appetite increased by 25-30% with sleep deprivation

Appetite and Sleep Deprivation

Salty foods increased by 40-45%

Sweet foods increased by 30-35%

Starchy foods increased by 30-35%

 NAC – antioxidant and and amino acid which lowers insulin resistance

 Myo-inositol – relative of B-complex vitamins, lowers insulin resistance, anxiety, and assists in hormone balance

- Vitamin D a hormone that helps with multiple metabolic functions in the body
- Magnesium an essential mineral involved in more than 300 different enzyme systems; critical in carbohydrate metabolism & regulation of glucose Susan B. Dopart, MS, RD, CDE

- Omega 3 fats fish oil and ground flax seed daily (ALA, DHA, EPA)
 - Lowers insulin resistance
 - Lowers triglycerides levels, liver fat
 - Lowers inflammation and c-reactive protein levels
 - May improve fertility



More research is needed and is quite individual

Metformin has been used successfully with helping increase milk supply since it lowers insulin resistance

 Herbal supplements not scientifically tested but used by some to increase milk supply (fennel, fenugreek)

Helpful to the body's system with:

Iowering insulin resistance assisting w/ weight challenges hormone stabilization

Putting it All Together

- How you put it together is your Recipe for Life
- Consider Diet Balance, Choices of Fresh vs. Processed foods, Activity/Exercise, Sleep, Supplements, and stress reduction
- Even small changes can
 BIG results



Information

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