METABOLIC SYNDROME

What is it? Pre-diabetes.

What are the criteria? (3/5 criteria needed)

Adults

- * Abdominal girth: men > 40 ", women > 35 "
- * Triglycerides > 150 mg/dl
- * HDL-C: men < 40mg/dl, women < 50 mg/dl
- * Blood pressure: > or = 130/85
- * Fasting glucose: > or = 100 mg/dl or 2 hr GTT level of > 140 mg/dl

Children

- * Obesity: > 95th % for age and gender
- * Triglycerides > 110 mg/dl
- * HDL-C: males < 40 mg/dl, females < 50 mg/dl
- * Blood pressure: > or = 95th % for gender and height
- * Fasting glucose > 100 mg/dl or 2 hr GTT level of > or = 140 mg/dl

What are the medical consequences?

- * *Hyperinsulinemia* (lots of damaging effects on kidneys, blood pressure, cholesterol production and inflammation in general, just to name a few)
- * *Impaired Glucose Metabolism* (increased glycosylation = sugar sticking to important proteins and impairing function, i.e. neuropathy, retinopathy, etc.)
- * Hypertension (heart disease, stroke, etc.)

* Dyslipidemia (elevations in LDL cholesterol and TG, decrease in HDL, etc.)

* *Visceral Adiposity* (abdominal fat creates lots of nasty chemicals leading to all the major chronic killers)

- * Dysfibrinolysis (increased clotting issues)
- * Elevated LFT's (fatty liver and increased inflammation, etc.)
- * Hyperuricemia (commonly known as "gout")

* Hormonal Imbalances (PCOS, acne, hirsutism, male pattern baldness, etc.)

* Progression to Type II Diabetes

How do I avoid this for myself and my children?

* Decrease intake of high glycemic load carbos (white flour and sugar)

* Increase vegetables, whole fruit, legumes and whole grains

* Consume adequate protein throughout the day

* Oil change: eliminate trans and decrease saturated fats, increase Omega 9 (i.e. olive) and Omega 3 fats (with fish or supplements)

* Use nutritional supplements that support effective utilization of insulin

* Get moving!