Health, Wellness and Cancer Prevention



Orlando E. Silva, M.D.

DISCLOSURE

- Celgene
- EISAI
- Pfizer
- Eli Lilly

Welcome

- This guide/talk in no way is to be considered a substitute or replacement for modern medicine and all of its advances.
- It is only an adjunct (in addition to, not in spite of) to appropriate medical diagnostic studies surgery,chemotherapy, biologic therapies, endocrine and radiation therapy;
 - All of which I am a proponent and advocate, under the right medical conditions and in the appropriate patient.

Fighting Cancer through Nutrition and Lifestyle changes



To The Fallen and The Standing Patients Along the way. Here's to the Wives, And the Mothers, The Sisters and the Daughters Who made a difference And guided the way.

> Thank You. We are still trying.

Silva's Army

https://www.facebook.com/silvasarmy





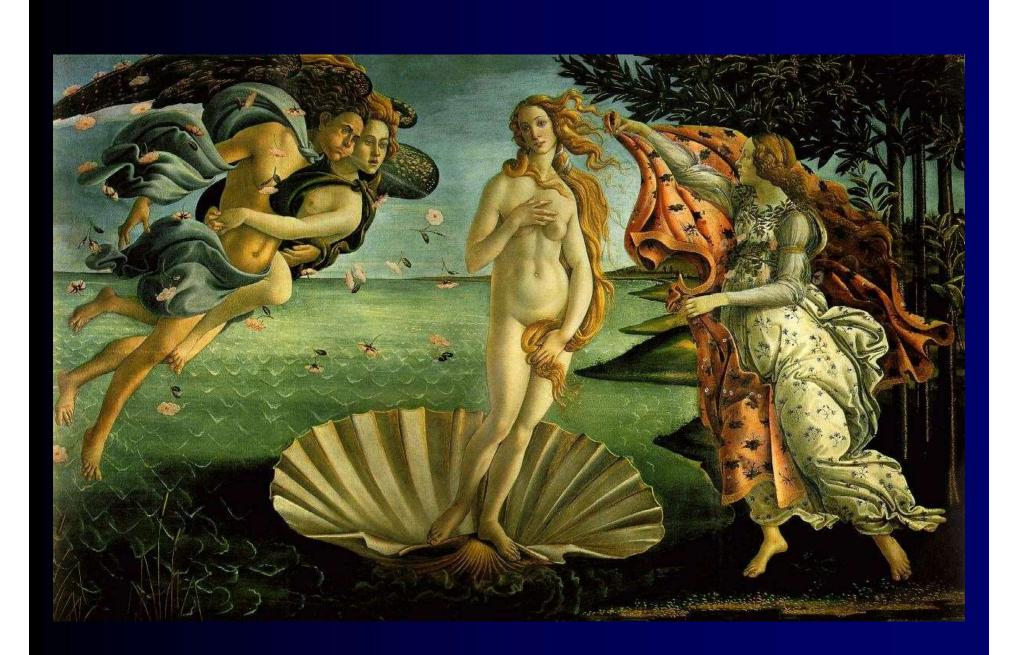
3-day Breast Cancer Walk, April 19-21, 2002

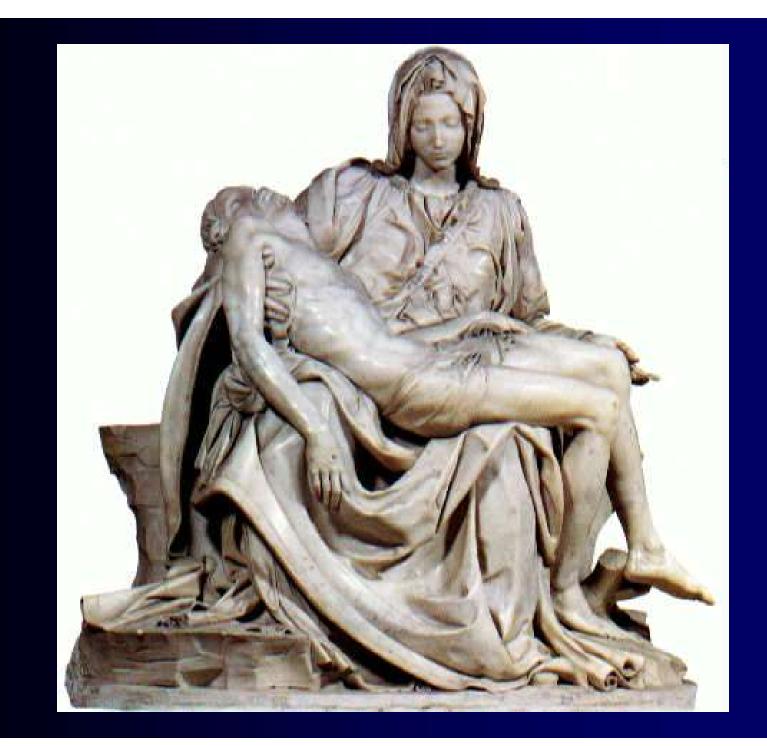
"I Would Walk to Heaven

To Bring Her Back"















SILVA'S ARMY 2014 TOP TEAM OCTOBER 11, 2014 MARLINS PARK





Countries Involved



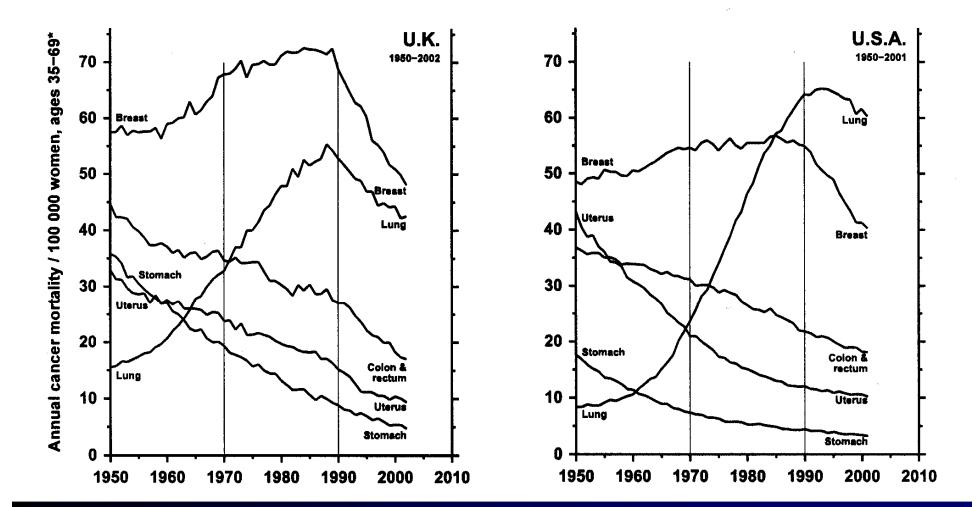


Breast cancer is the most common malignancy and the second most common cause of cancer-related death in Western European and North American women.

- In 2017, more than 246,600 women were newly diagnosed with breast cancer in the US.
- More than 40,000 were expected to die from the disease this year.

Cancer Mortality Rates over the Past 50 Years

Figure 14: Trends since 1950 in age-standardised (35-69) death rates, comparing breast and selected other types of cancer: UK, USA, Netherlands and France



EBCTCG, Lancet 2005

Question

Systemic Inflammation ie. Metabolic syndrome is associated with: A. DM II B. CAD C. Depression D. Cancer E. All of the above

How can the organ that nurtures us with life,

become the executioner of so many ???

Breast Cancer Risk Factors

- Gender
- Age
- Hormonal Factors
 - Early menses
 - Late menopause
 - No pregnancy
 - Late pregnancy
 - No lactation
 - Other Estrogens
- Mammographic Breast
 Density

- Family history
- Inherited Susceptibility Genes
- Diet/ETOH consumption
- Radiation
- Benign Breast Disease
- Ethnicity

Endocrine Disrupting Environmental Toxins

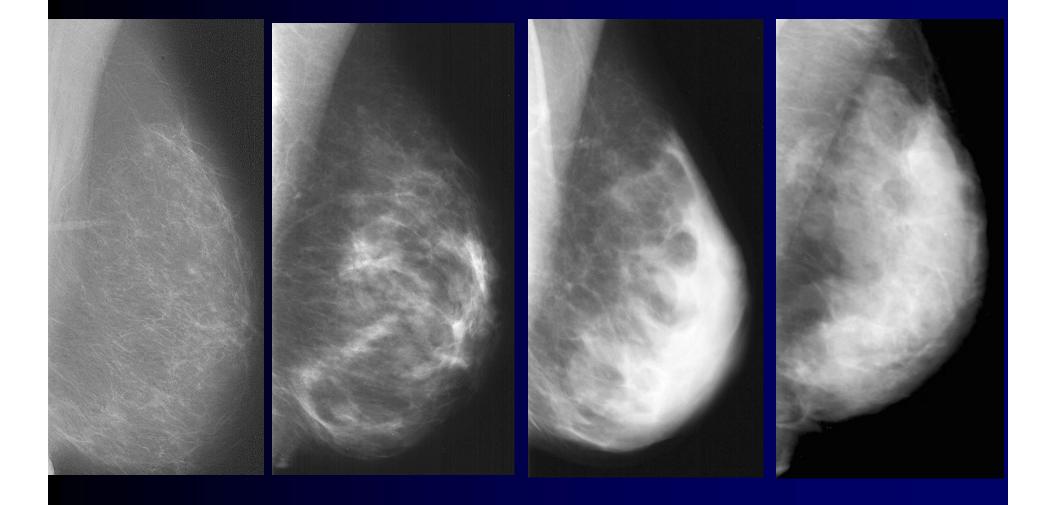
- Organochlorines
- Biphenyl A (coated receipts)
- PBBs (flame retardants Polybrominated Biphenyls)
- 95% of all U.S adults have BPA in their urine.
- Higher levels of BPA related to Met Syndrome
- Independent risk factor besides lifestyle

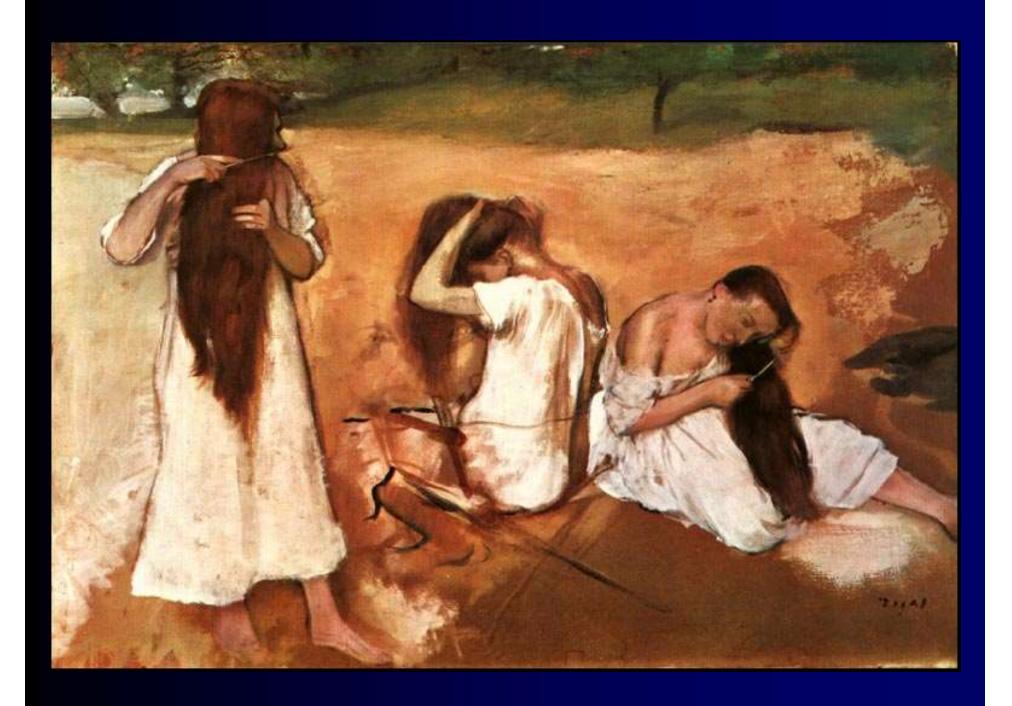
Reversible Biomarkers and Relative Risk

Serum Hormone Levels		
		(upper quartile <i>vs</i> lower)
Serum IGF-1,IGF-1/IGFBP-3		2X
(pre-menopausal)		(upper quartile <i>vs</i> lower)
Mammographic breast density		5X
		(>75% vs <5%)
Breast IEN	Hyperplasia	2X
(Dx Bx)	ADH	4-5X
	In situ cancer	10-20X

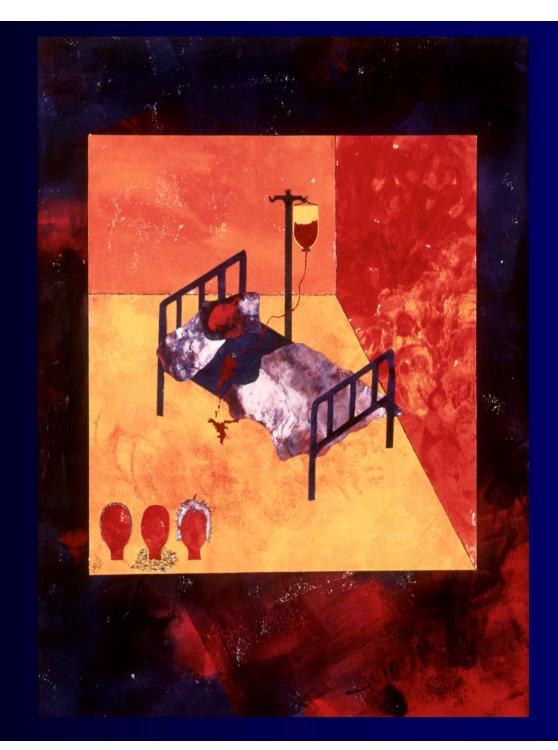
Cummings *et al.* JAMA 281:2189, 2002. Hankinson *et al.* Lancet 9:1393, 1998. Boyd *et al.* J Natl Cancer Inst 87:670, 1995. Page & Dupont. Cancer 66:1326, 1990. Hartman NEJM 2005.

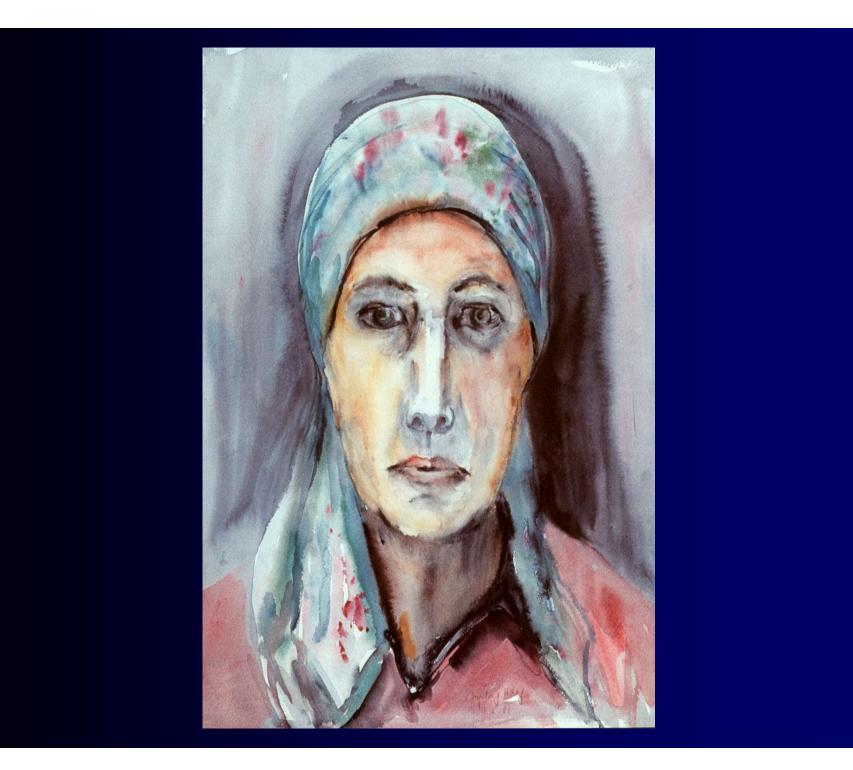
Mammographic Density

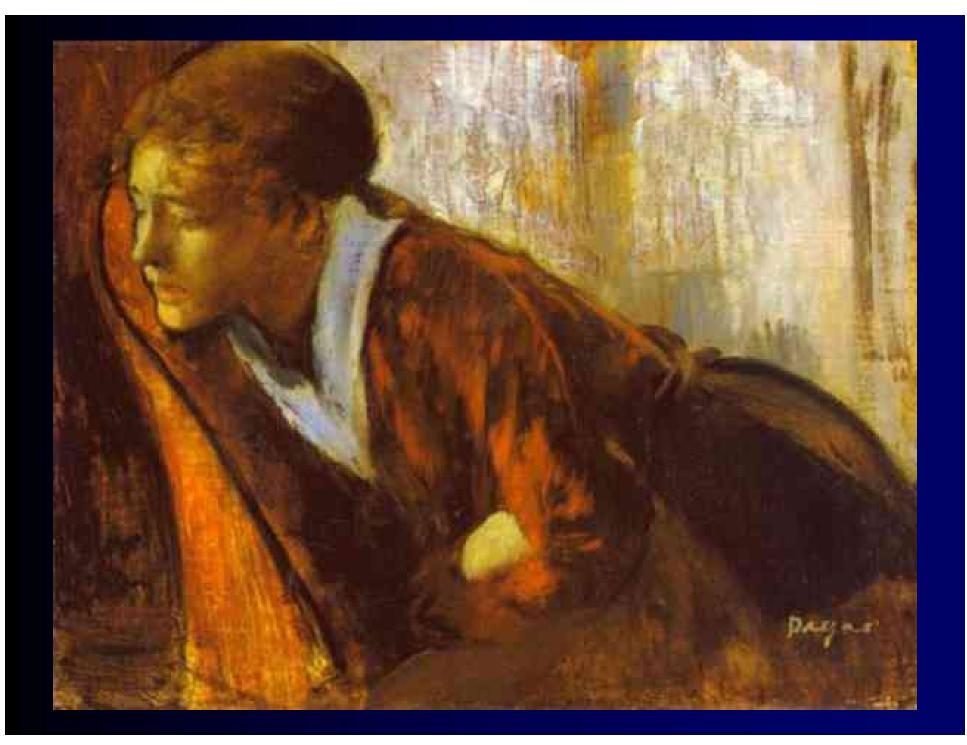
















"And Now What???"

It is all in the Genes right?

It's all genetic?

Nigerian Paradox!



Alzheimer's - Incurable but PREVENTABLE!

The Nigerian Paradox

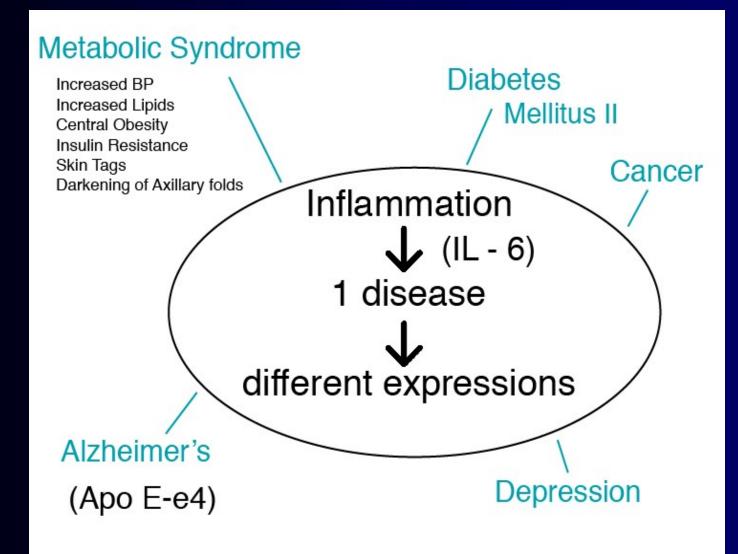
- Nigeria should be the country with the highest rate of Alzheimer's due to genetics but, it is actually the lowest in the world.
- Nutrition can trump genetics!

Breast Cancer Risk Factors

Inflammation!!!

Fighting Cancer through Nutrition/Activity

Decreases Inflammation and Increases Immunity



ANTI-Inflammation!!!

- Inflammation
 - Leading culprit in developing:
 - Metabolic Syndrome/Insulin Resistance
 - Diabetes/Obesity
 - CAD
 - Alzheimer's
 - Depression
 - Cancer

Metabolic Syndrome

- Centripetal Obesity belly fat
- Insulin Resistance High circulating Insulin levels
- High Blood Pressure
- High Lipids
- Acanthosis Nigricans darkening of the folds around neck and axillas
- Skin Tags around neck and axillas
- High levels of pro-inflammatory cytokines

Hypertension

- Women with chronic heart failure, even if asymptomatic have a ↓ mortality by 65%.
- Standard of care is to start dual therapy early even if asymptomatic if EF < 50 (ACE/ARB and BB as 1st line therapy) for anthracycline and TKI associated cardiomyopathy.
- B-Blockers ↑OS in TNBC, in retrospective studies, by ↓ norepi, ↓angiogenesis and cell migration and may boost immunity.

Cardiac consultation

- Diltiazem Interferes with lots of chemo drugs.
- Ondansetron can cause QTc prolongation Keep K+, and Mag on the high normal side!!!

Functional Derangements in Metabolic Syndrome (JAMA Vol. 292 (23): 2823-4, 2004)

34% of the country

Atherogenic:

- Insulin resistance +/- glucose intolerance
- Dyslipidemia
- 1 inflammatory markers (CRP)

Prothrombotic:

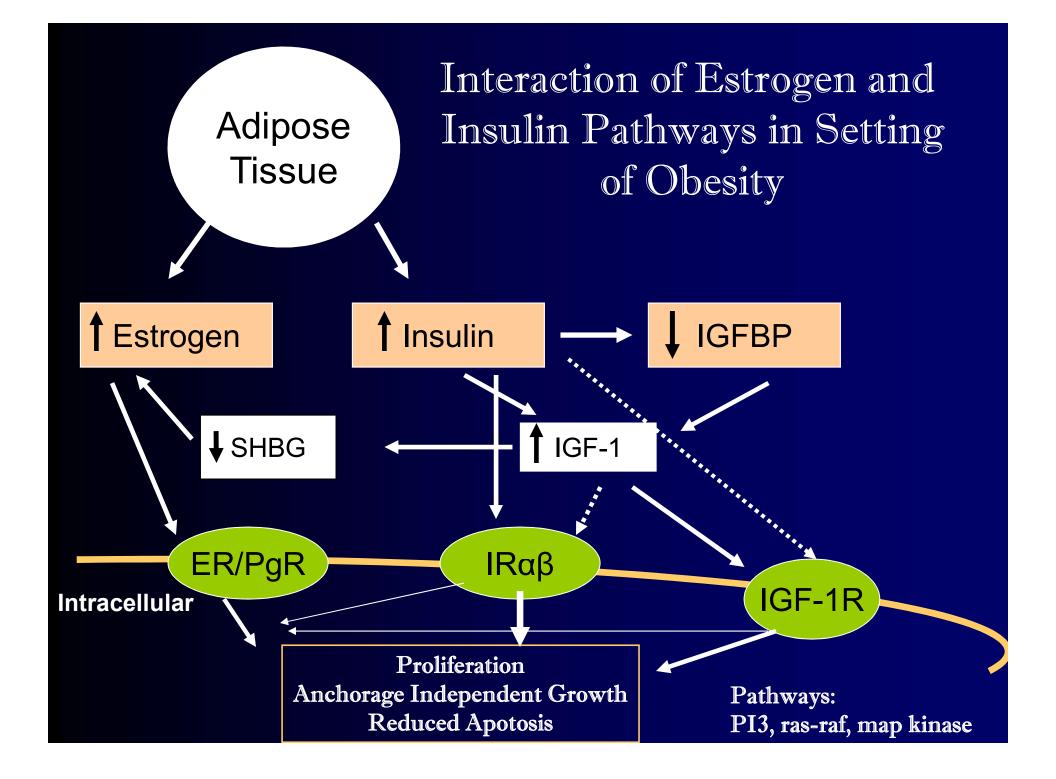
- 1 homocysteine
- 🕇 fibrinogen / 🕆 PAI-1
- 🛛 🤳 Mag

Obesity at diagnosis is linked to prognosis in breast cancer

Meta-analysis of 82 studies looking at obesity and survival in breast cancer

	Breast Cancer-Specific HR [95% CI]	Overall HR [95% CI]	
All patients	1.35 [1.24-1.47]	1.41 [1.29-1.53]	
Premenopausal		1.75 [1.26-2.41]	
Postmenopausa	l	1.34 [1.18-1.53]	

RR, relative risk. Chan DS, et al. *Annal Oncol.* 2014;25(10):1901-1914.



A tumor is composed of:

- Tumor cells
 Stem cells
- Immune cells
- Endothelial cells
- Stromal cells
- Blood Vessels

Obesity in the United States

• In 1999-2002, 34% of adults were overweight and 30% were obese

% Overweight Over Time

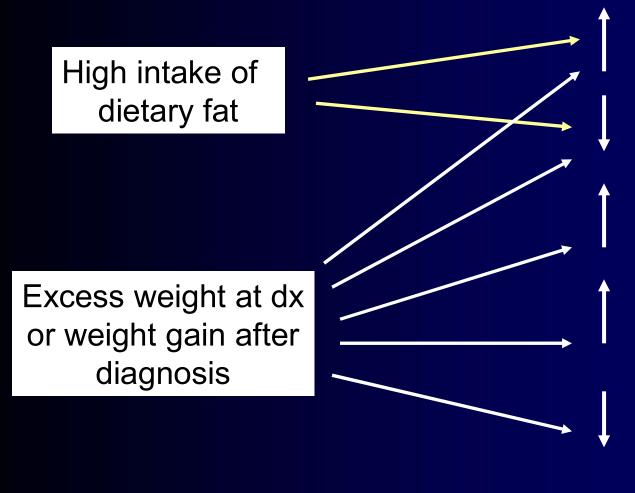
Years	<u>'76-78</u>	'88-94	<u>'98-02</u>
20-74	42.0%	51.2%	61.7%
55-64	53.7%	66.3%	72.2%







Potential Mechanisms Underlying Relationship Between Fat Intake or Weight and Breast Cancer Outcome



Estrogens Sex Hormone Binding Globulin Insulin

Insulin Growth Factor 1 (IGF-1)

Insulin Growth Factor Binding Protein (IGFBP)

JANA

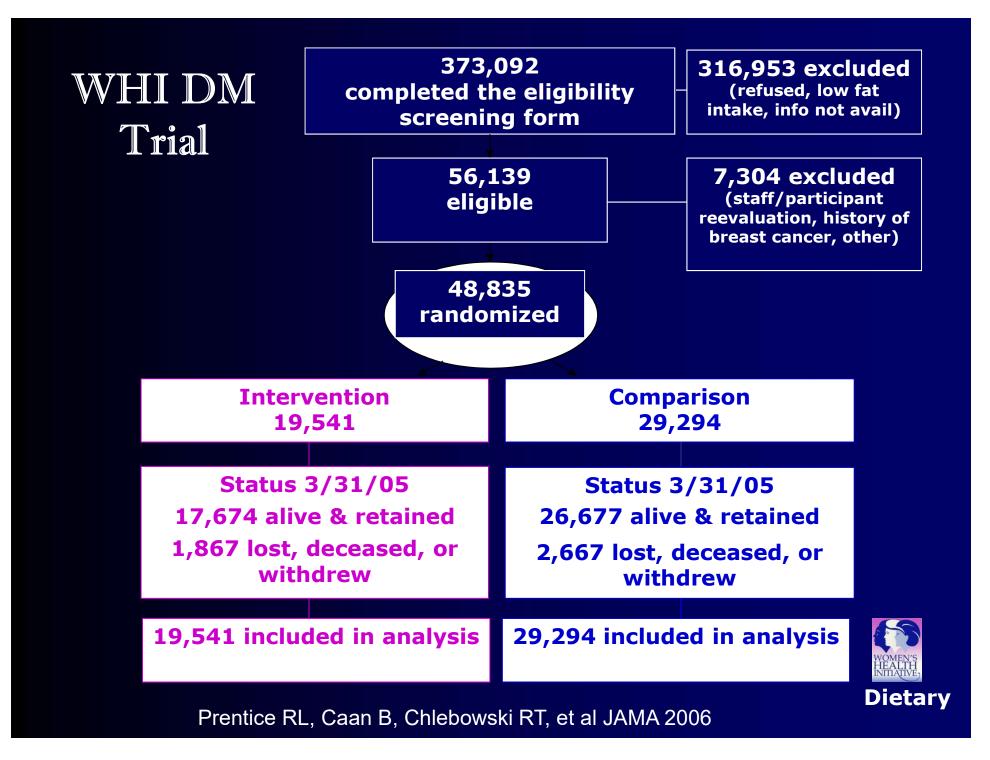
The Journal of the American Medical Association

February 8, 2006

ORIGINAL CONTRIBUTIONS

Low-Fat Dietary Pattern and Risk of Invasive Breast Cancer: The Women's Health Initiative Randomized Controlled Dietary Modification Trial ______629 R. L. PRENTICE, B. CAAN, R. T. CHLEBOWSKI, AND COLLEAGUES

JAMA 2006;295:629-642



Interpretation

- Intensive intervention resulted in significant and sustained dietary fat reduction and vegetable and fruit increase.
- Observed 9% lower breast cancer rate (15% among "adherent women") but the difference was not large enough to be statistically significant.

Impact of Weight on Prognosis in Women Diagnosed with Breast Cancer

- Multiple studies have examined impact of weight and/or BMI on breast cancer prognosis
- In review by Chlebowski et al:
 - 26 studies (n=29,460) demonstrated a statistically significant association between increased weight and poor outcome (recurrence or death)
 - 8 studies (n=3,727) revealed no significant relationship

Meta-anal	lysis Evalu	uating Measur	es of
Adipo	sity at Dx	and Prognosi	S

	Recurrence at 5 yrs HR [95% CI]	Death at 10 yrs HR [95% CI]	
Body Weight	1.78[1.50-2.11]	1.36[1.19-1.55]	

BMI1.91[1.52-2.40]1.60[1.38-1.76]

Goodwin, P. In: Psychosomatic Obstetrics and Gynecology, Bitzer J. and Stauber M. (Eds); Monduzzi Editore, International Proceedings Division, Bologna (Italy), p491-496, 1995.

Nurses' Health Study Analysis of Weight Gain and Breast Cancer Survival

- 5204 Nurses' Health Study participants diagnosed with breast cancer
- Change in BMI calculated from pre-breast cancer dx to first reported BMI > 12 months later
- Adjusted for smoking, menopausal status, and relevant breast cancer variables

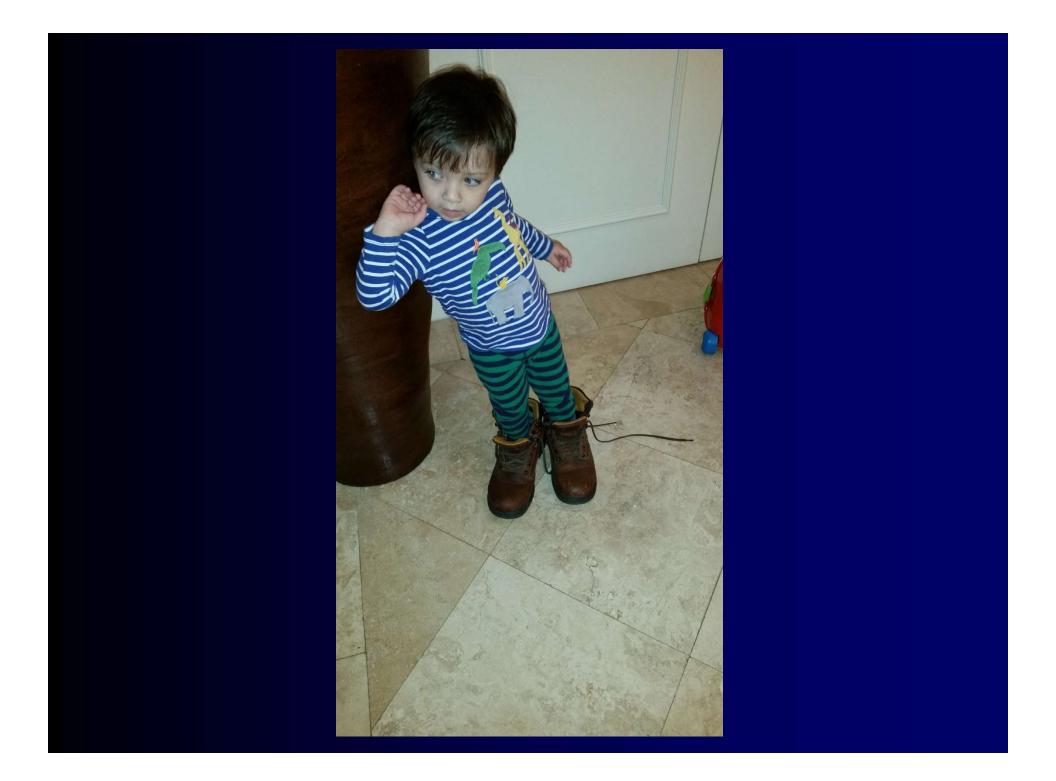
Weight Gain After Diagnosis in Never-Smoking Women

	MAINTAIN	GAIN 0.5 to < 2.0 kg/m ²	GAIN <u>></u> 2.0 kgm ²
Recurrences'	* 1.00	1.40 [1.02-1.92]	1.53 p=.01 [1.04-2.24]
Breast CA Deaths*	1.00	1.35 [0.93-1.95]	1.64 [1.07-2.51] <i>p=.03</i>
All Cause Mortality*	1.00	1.35 [1.00-1.82]	1.59 [1.12-2.27] <i>p=.04</i>
*multivariate 95% CI	RR		Kroenke et al

Obesity

Adipokines – 7 Hormones (Resistin)

- Insulin Resistance 🔒 levels of Insulin
- Fat 🔶 Estrogen
- 1 Inflammation



Diet



- Spinach/carrots (carotenoids / flavonoids)
 - rich in magnesium & alpha lipoic acid
 antioxidant
- Asparagus, beets, broccoli, brussels sprouts, garlic, onions, leeks, kale, cabbage, scallions
- Dark Chocolate
 - at least 99%;
 - Cuna indians from San Blas islands
 - (off the Coast of Panama)
 - lowers BP and rich in oleic acid

• Fruits

- Berries
- antioxidants/anti-angiogenesis

Dietary Sources of Naturally-Occurring Antiangiogenic Substances

Green tea Strawberries Blackberries Raspberries Blueberries Oranges Grapefruit Lemons Apples Pineapple Cherries

Red grapes Red wine Bok choy Kale Soy beans Ginseng Maitake mushroom Licorice Turmeric Nutmeg Artichokes

Lavender Pumpkin Sea Cucumber Tuna Parsley Garlic Tomato Olive oil Grape seed oil Dark chocolate Others

Source: Angiogenesis Foundation (www.angio.org)

Diet

- Fiber & Grains
 - Walnuts 14 halves a day, also rich in magnesium
 50 grams / day
- Milk Horizon/Organic Valley Milk (0% Fat)
 - UNSWEET!
 - ALMOND MILK!!!
- Turmeric inhibits nFKB

Homemade Almond Milk

- Soak 1 cup almonds up to 2 days
 Drain & rinse almonds
- 3. Blend almonds with 2 cups water
- 4. Line a glass measuring cup with cheesecloth or nut bag
- 5. Pour blended almonds in
- 6. Squeeze & press to extract about 2 cups of milk
- 7. Refrigerate & use within 2 days

EatingRichly.com

Black Rice



Diet

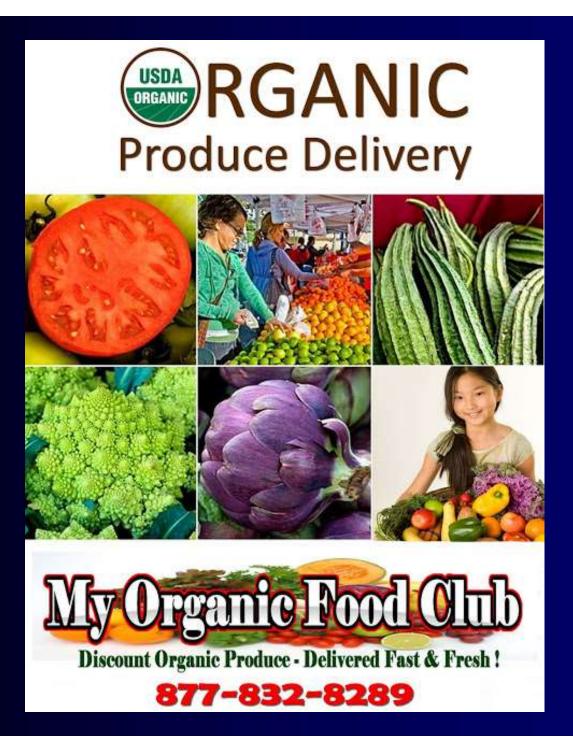
Fish – Salmon, mahi mahi, cod, halibut
rich in Omega-3 fatty acids

- Extra virgin olive oil (Oleic acid)
- Fat intake
 - eat mono & polyunsaturated fats
 - extra virgin olive oil (Oleic acid)
- 🦊 Sugar intake (no sweetners)-Agave/Stevia
- Limit red meat (avoid processed meat)-Grass fed beef
- Limit salt intake

Culprits of Derangements

- High Glycemic index (refined sugars)
- Fructose/High fructose corn syrup
- Advanced glycosylation end products
 - caramelized sugars
 - meats cooked high temps (microwaves)
- Transfats and long-chain saturated fats
- ETOH





Home Deliveries

Deliver Lean

- deliverlean.com
- Delivers to your home
- Whole Plant based/Gluten free \$9.00/meal
- 15% discount for anyone who mentions
 "Silva's Army"

My Organic Food Club

- myorganicfoodclub.com
- Delivers to your home
- organic fruits and vegetables for \$60/box/week.
 Box feeds at least 2 people/week.
- They also have brown rice, grassfed beef, wild caught fish, and shrimp at an additional cost.

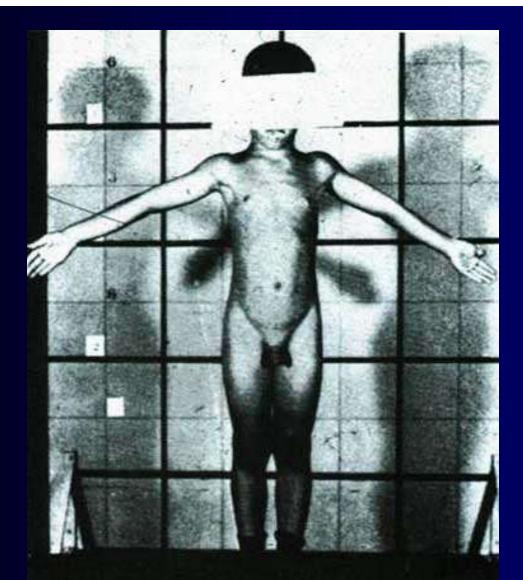
Oster Steamer

Throw out your microwaves!!!



Don't go Soy crazy!!!

 It is a Phytoestrogen – becomes estrogen once metabolized



7 year old boy with breast enlargement. from Hertz, <u>Estrogens in the Environment</u> (1979)

Statins Reduce Breast Cancer Risk (Kochhar R, Proc ASCO, 2005)

- Low HDL-C elevates postmenopausal BC risk (Furberg AS, JNCI 96:1152, 2004)
- Statins, HMGCoA reductase inhibitors, block mevalonate production which prenylate ras/rho
- G proteins
- VA database 1998-2004 40,421 female veterans, 11.8% on statins
- Age 58; 1.38% developed breast cancer
- HR 0.49 with statin use controlling for age, DM, smoking, ETOH (p<.0001)
- 3-4 years duration statin use breast cancer HR 0.33

Cholesterol Levels

- Omega-3 Fatty Acids (EPA/DHA)
 - 2-4 grams per day
 - JTG and Inflammation
- Statins / CoQ₁₀
- Niacin (THDL, TC, LDL)
- Alcohol ¹HDL
- Green tea
- Exercise

Insulin Levels

 Centripetal obesity leads to insulin resistance and higher levels of insulin

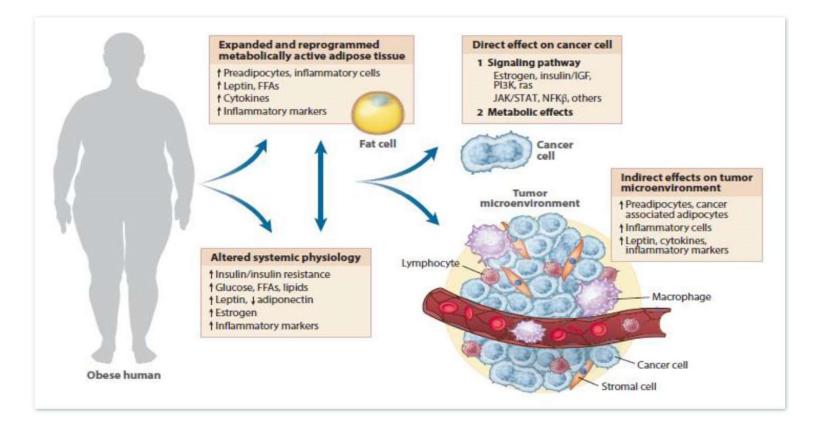
BC expresses receptors for insulin

• Premenopausal women 2x with high circulating levels

Sensitivity to insulin (insulin resistance)

- Physical activity-Salsa/Rueda-Casino/Tennis
- Ping- pong/ Water aerobics
- Calorie restriction
- Cinnamon 1/2 teaspoon / day
- Ginseng berries
- Grapefruit
- Dark Chocolate(100%)
- Leafy Green tea- Folic Acid replacement
- Coffee (no sugar, no milk)
- Fiber- 50 grams /day
- Metformin!!!

Biologic pathways linking obesity and breast cancer not clear, but likely involve metabolic and inflammatory mediators



Goodwin PJ and Stambolic V. Ann Rev Med. 2015;66:281-296.

Insulin and Breast Cancer Prognosis

• Cohort study of 512 women without known diabetes, T1-3 N0-1 disease

HR [95% ci]Highest vs Lowest Insulin QuartileRecurrence2.0 [1.2-3.3]Death3.1 [1.7-5.7]

• In multivariate model adjusting for BMI, tumor, and treatment factors, prognostic significance of insulin levels was maintained

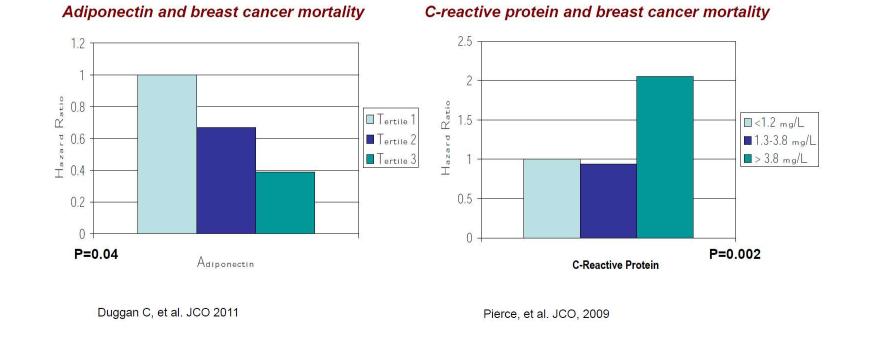
Goodwin et al JCO 20:42-51, 2002

Prognostic Effects of Insulin in Breast Cancer

		n	Factor Measured	<u>Recurrence</u>	<u>Death</u>	
Goodwin	2002	51 <u>2</u>	Fasting Insulin	HR=2.0	HR=3.1	
Pasanisi	2006	110	Fasting Insulin IRS	HR=2.42 HR=3.0		
Pritchard	2011	667	Non-fasting C-peptide	p < 0.05*		
lrwin (HEAL)	2010	689	Fasting C-peptide		HR=3 (significant)	
Duggan (HEAL)	2010	527	НОМА		HR=4.3 (BC death) HR=1.6 (overall mortality)	
Emaus	2010	1364	IRS Components: BMI, cholesterol, BP, exercise		HR 1.3-3.0 (significant)	

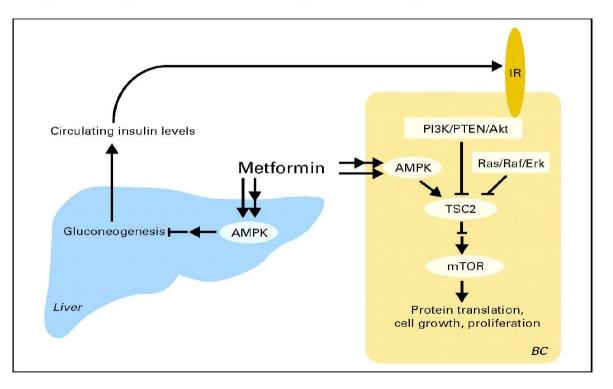
Goodwin et al, JCO 2002; Pasinisi et al, Int J Cancer 2006; Pritchard et al, JCO 2011; Irwin et al, AACR 2007; Duggan C, et al. JCO 2011; Emaus et al. BCRT 2010.

Studies also show links between other metabolic and inflammatory mediators and cancer recurrence



Can we improve prognosis in (obese? inactive?) breast cancer patients by targeting metabolic and/or inflammatory pathways?

Targeting metabolic pathways: Metformin



Copyright © American Society of Clinical Oncology

Goodwin P J et al. J Clin Oncol 2009; 27:3271-3273

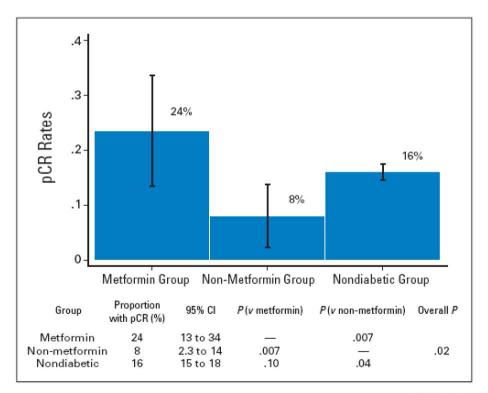
JOURNAL OF CLINICAL ONCOLOGY

Metformin use associated with better response to neo-adjuvant chemotherapy

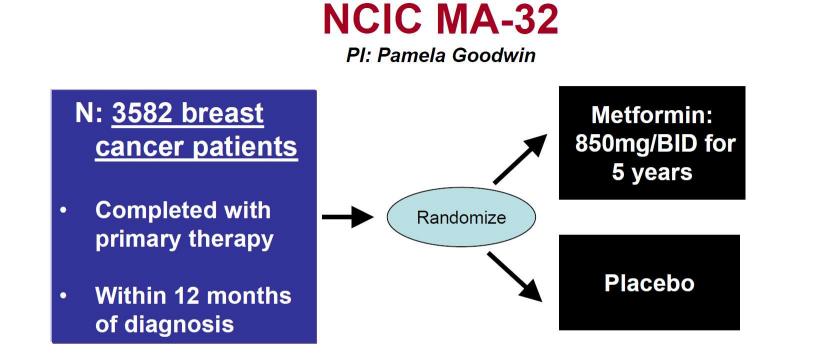
- 2529 patients receiving neoadjuvant chemotherapy for early-stage breast cancer at MD Anderson:
 - 2374 women without diabetes
 - 68 diabetics taking metformin
 - 87 diabetics not taking metformin

Jiralerspong S. JCO 2009; 27:3297-3302

Pathological complete response rates by diabetes status and metformin usage



Jiralerspong S. JCO 2009; 27:3297-3302



Primary Outcome: Invasive Disease Free Survival

<u>Secondary</u>: fasting insulin, weight, QOL, breast cancer free interval, OS, distant DFS, hospitalization for CV disease, diabetes, AE's NCT01101438

Targeting inflammation

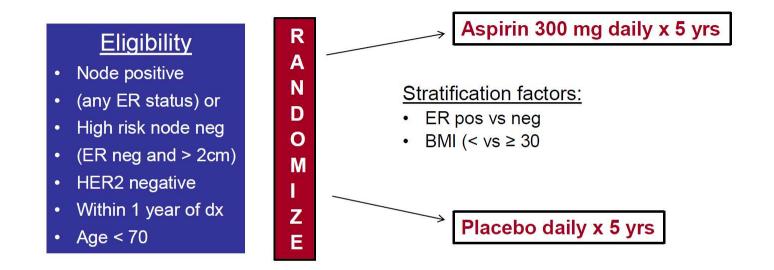
- Evaluation of anti-inflammatory drugs in breast cancer prevention and treatment in early stages
- Observational studies suggest that regular use of aspirin and NSAIDS linked to lower breast cancer risk and better outcomes

Risk of breast cancer death by use of pain relieving drugs in NHS

	None	1 Day/Wk	2-5 Days/Wk	6-7 Days/Wk	P for trend
ASA	1.0	1.07 (0.70-1.63)	0.29 (0.16-0.52)	0.36 (0.24-0.54)	<0.0001
NSAIDs	1.0	1.03 (0.43-2.43)	1.17 (0.61-2.24)	0.52 (0.30-0.88)	0.04
Acetaminophen	1.0	2.40 (1.22-4.71)	1.28 (0.72-2.27)	1.44 (0.81-2.57)	0.17

Holmes M et al. J Clin Oncol. 2010;28(9):1467-72.

Aspirin for Breast Cancer (ABC) -A011502

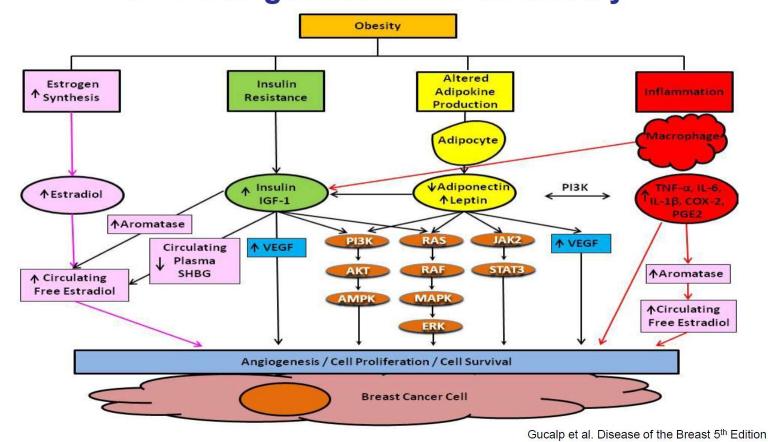


Primary endpoint: invasive disease free survival

Accrual goal: 2963 women over 2 years

80% power for HR of 0.75 (assume 5 year iDFS survival 77%)

Inflammation and metabolism are interconnected: Can we target both simultaneously?



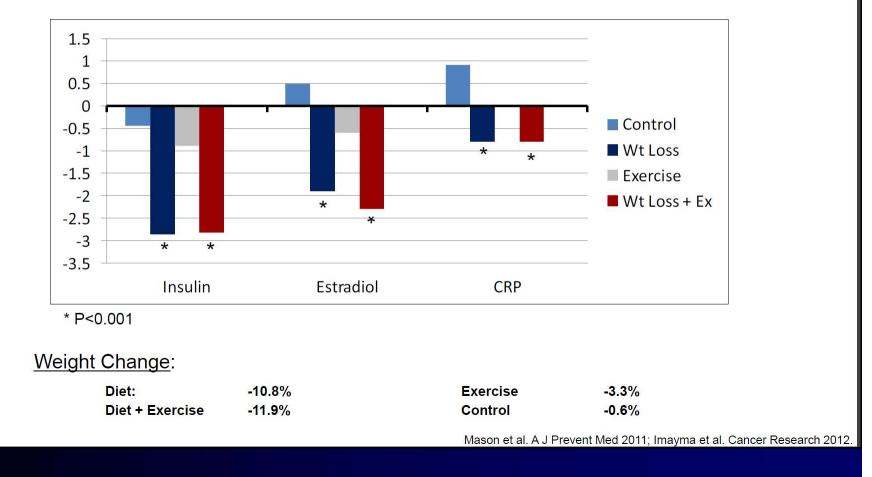
Lifestyle interventions affect metabolic and inflammatory pathways

Nutrition and Exercise Study for Women (NEW Trial)

- Designed to evaluate the impact of dietary weight loss and exercise upon biomarkers linked to breast cancer risk
- Enrolled 439 sedentary, overweight or obese, postmenopausal women
- Participants randomized to 1 of 4 groups:
 - Dietary weight loss
 - Exercise
 - Dietary weight loss + exercise
 - Control
- Endpoints:
 - Primary: change in sex steroids
 - Secondary: change in insulin, metabolic and inflammatory hormones

Mason et al. A J Prevent Med 2011

Weight loss led to significant reductions in metabolic and inflammatory biomarkers



Physical Activity

•25,624 Norwegian Women followed over 13.7 years

- 37% risk breast cancer among women who exercised regularly
- Greatest benefit seen in women less than 45 y/o who exercise regularly over 3- 5 yrs

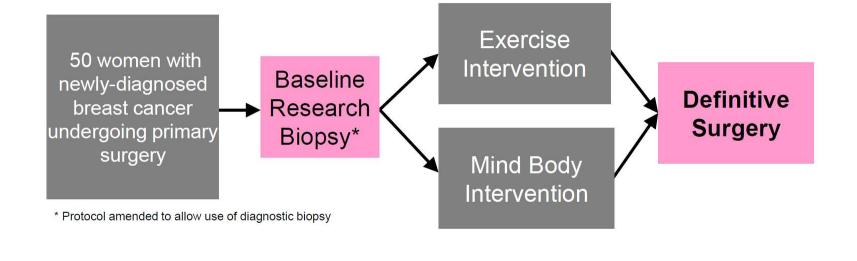


Physical Activity

- 2,296 Women from Nurse's Health Study with Stages I, II, III BC
 - Death from BC was activity vs. sedentary
 - 5 hrs/ wk 🦊 the risk of BC by 50%

Holmes, AACR 2004

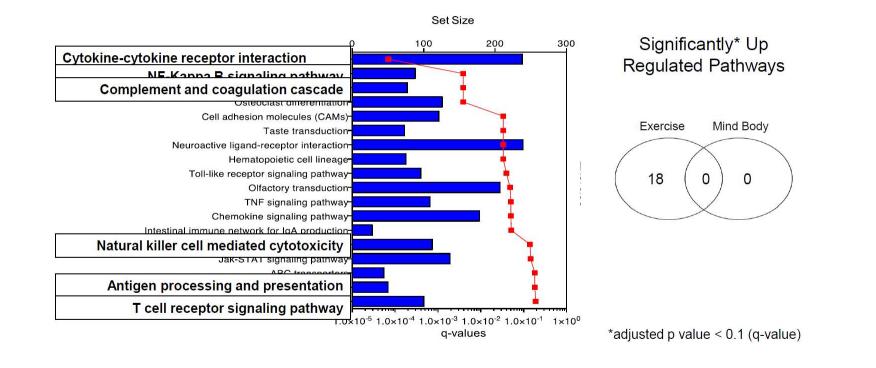
Limited data also suggest that energy balance interventions could impact tissue biomarkers



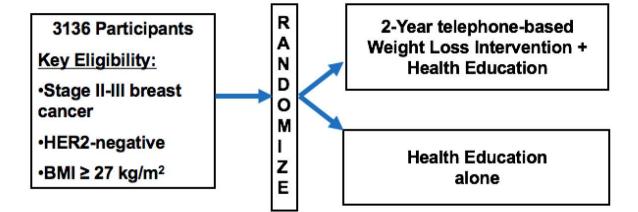


Pre-Operative Health and Body Study

Exercise upregulated immune markers in breast tumors



BWE The Breast Cancer Weight Loss Trial



Primary Outcome: Invasive Disease-Free Survival

Translational science in studies like BWEL could "connect the dots"

- Unique opportunity to collect biologic samples longitudinally and connect them to clinical outcomes
- · Samples collected:

•Fasting blood at baseline, 6 and 24 months

•Malignant and benign breast tissue from primary surgery

Goals:

Identify predictors of intervention benefit
 Potentially define population to whom intervention should be prescribed

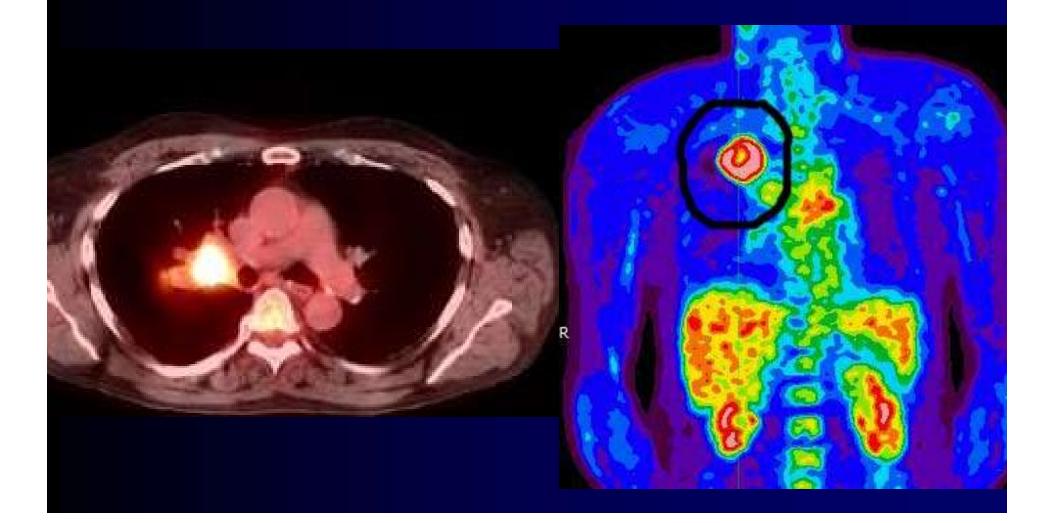
– Develop intermediate biomarkers

•Streamline future research

•Provide a way to determine whether an intervention is "working"



What is a PET Scan?



Inflammation & Prognosis

- <u>Adenocarcinoma of Pancreas after surgery</u>
 - CRP < 10= median survival 21.5 months; > 10= 8.4 months (p=0.015)¹
- Prostate cancer survival 10 yrs after intital dx & trx
 - CRP predicted overall survival & prostate cancer specific survival (HR 1.80 [1.01-3.52] p < 0.05)²
- Gastro-esophageal cancer survival after surgery
 - CRP < 10= median survival 79 months; > 10= 19 months (HR:3.53 [1.88-36.64]; p<0.001); ³

• Breast cancer survival in HEAL study

- CRP increased overall survival HR 2.27 [1.27-4.08; p=.002] & trend towards decreased disease free survival (p=.07)⁴
- 1. Jamieson NB et al. Br J Cancer 2005, 92:21-23.
- 2. McArdle PA et al. Urol Int 2010, Apr 15 Epub.
- 3. Crumley AB et al. Br J Cancer 2006, 94:1568-1571.
- 4. Pierce BL et al. *J Clin Oncol* 2009, 27:3437-3444.

Decrease Inflammation

- Flossing
- Fiber
- Alcohol
- Physical activity
- Vitamin D3
- Abdominal Fat

Scientific Corner Fiber - 75 -100 grams/Day ↓ Heart Disease ↓ Stroke ↓ Obesity ↓ DM For Every 20 grams of Fiber consumed ↓ Risk of B.C. by 15%



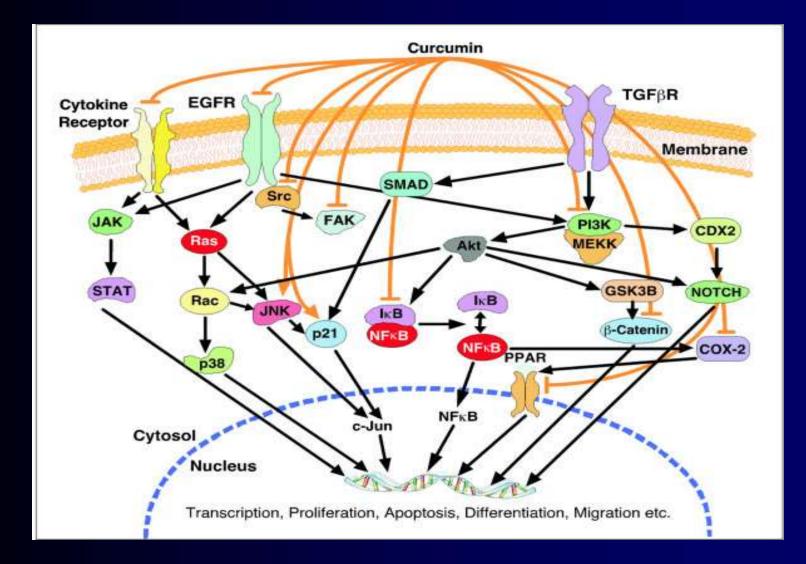
The Bitter the Better!!!

"Doctor there is nothing more bitter than chemotharapy"

TURMERIC

- Turmeric inhibits NFkB
- Most Powerful Anti-inflammatory agent known
- Crosses The Blood Brain Barrier
- Curcumin is the active ingredient
- 1 tablespoon/person/day
- Must take with black pepper/Ginger
- 1/2 teaspoon per day mixed with the turmeric

Molecular Targets of Curcumin



Boost Immune System

- Prayer/Meditation/Laughter/Dream
- Family & Friends
- Sleep 6-7 hrs/day
 - Melatonin
- Deep nasal breathing 10x AM & 10x PM
 <u>- 5 secs in & 7 secs out</u>
- Flossing 1-2X's/ Day
- Baby aspirin/ Vit D/ probiotic
- Exercise and Stretching

CDK 4/6 Inh.- ↑ Immunity

- A) ↑ CD8 Tcell proliferation in Tumor (↑Antigen presenting cell, IFN mechanism)
- B) ↓ Immune suppression cells (↓Treg)

Conclusions

- Obesity at diagnosis is a poor prognostic factor in early breast cancer
- Emerging evidence suggests that interrelated metabolic and inflammatory pathways may underlie connection between obesity and breast cancer
- Observational and early clinical data suggest that metformin may have potential as a therapeutic agent in breast cancer; MA-32 will evaluate its role in the adjuvant setting
- Early trials are evaluating the role of anti-inflammatory agents in breast cancer
- Energy balance interventions can also impact metabolic and inflammatory pathways

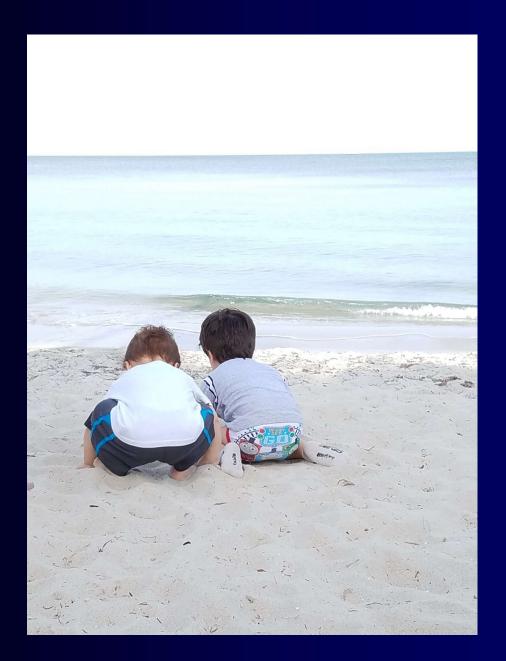
Books and Websites

- "Anti-Cancer, A New way of Life"
 by David Servan-Schreiber MD, Ph.D
- "A Prescription for Wellness" by Carolyn I. Sartor, MD.
- "How Not to Die" by Michael Greger, MD
- nutritionfacts.org by Michael Greger, MD
- "The Blue Zones" by Dan Beuttner

Thank You Patients

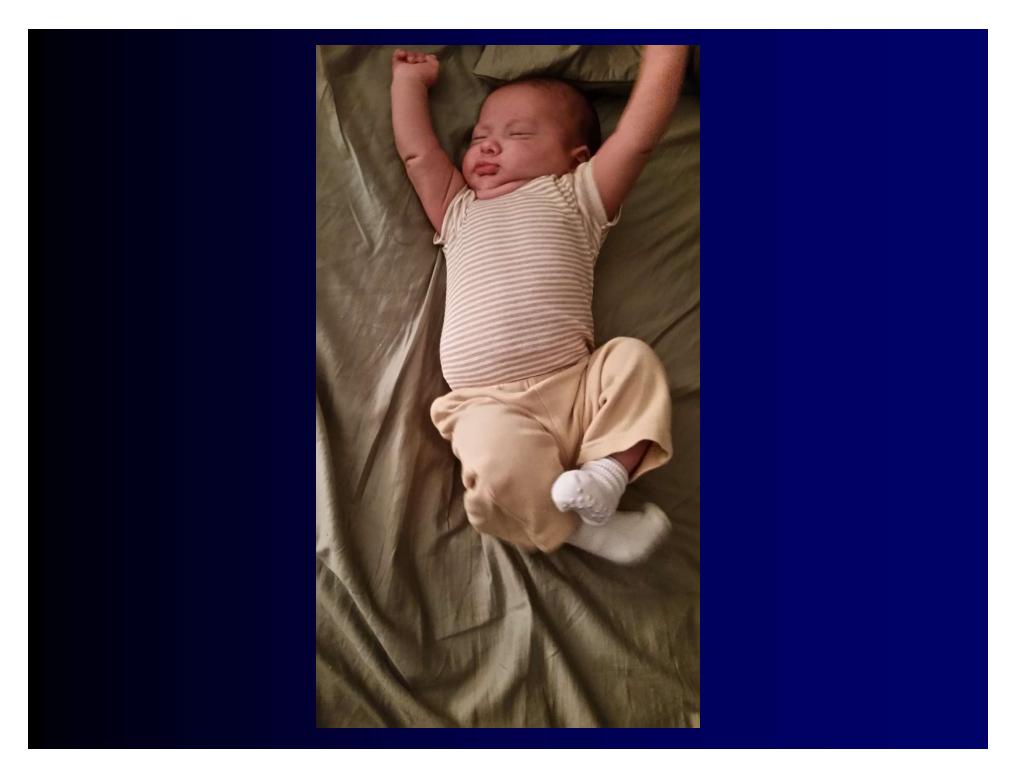
Professor J.A. van Dongen Dr. Jennifer A. Ligibel Dr. Hyman Muss Dr. Stephen Richman

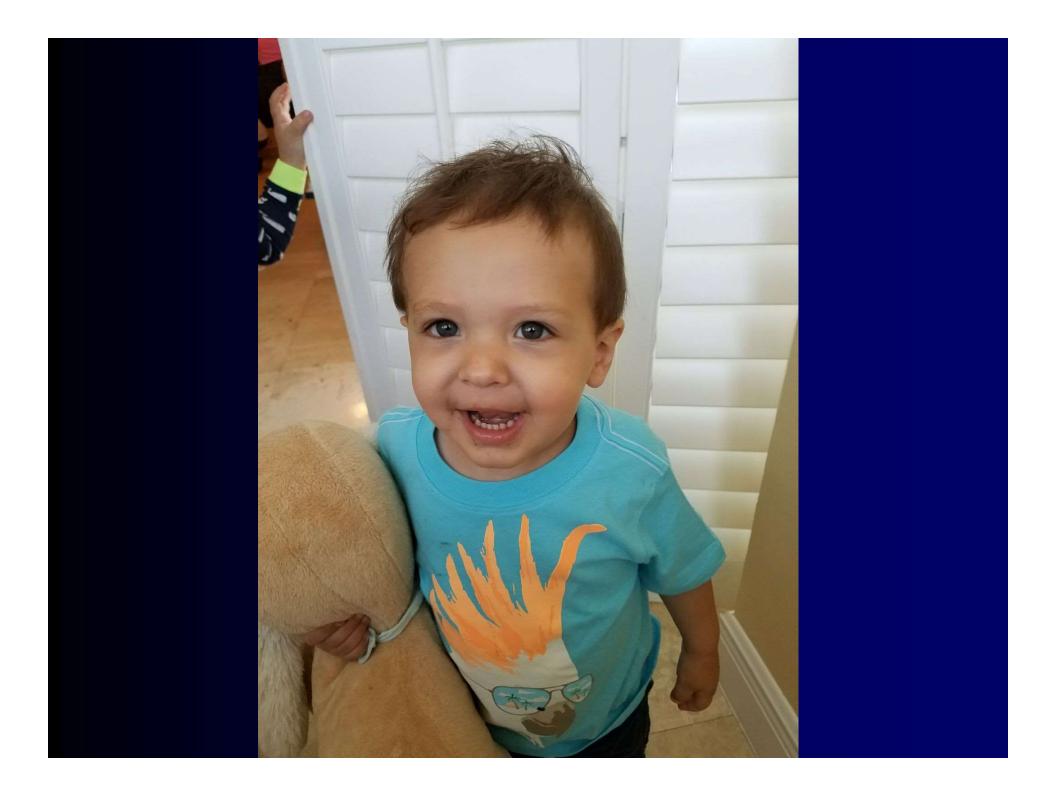
> Amanda Martin Firenze













Vitamin D

- U.S. 2nd lowest in the world
- 25 OH levels(hydroxy) measures steady state
- Normal levels 30-100, shoot for 75(Carlson)
- Replace with Vitamin D, D3 once a day with food
- Toxic to breast and prostate cancer cells
- Breast and prostate cancer express Vitamin D receptors
- Salmon is the richest fish in Vitamin D and lowest in mercury
- 20 mins in the sun gives 15,000 units of Vitamin D
- Calcium Citrate D is very low in Vitamin D
 - Take Calcium and Magnesium with NO other meds (They are Resins)

Antioxidants

- Are substances that help neutralize free radicals
 - Free radicals damage cells, DNA and cause cell death
 - Free radicals contribute to aging, cancer and heart disease
 - Bind Free radicals so they are excreted in the urine

Beverages

- Coffee (Black) 2-4 cups per day
 - Bad Cholesterol (LDL)
 - Protection of the Liver
 - Helps clear Hepatitis C Virus
 - Rich in Antioxidants
- Lemon Mix with warm water
 - 2 glasses/day (1) Before Lunch/ (1) Before Dinner
- Green Tea 2 cups per day (may be decaf) -must be supplemented with folic acid 1mg/day in women of childbearing age
 Avoid from Japan (radiation risk)
- Ginger Root Tea 1-2 cups per day
 - Helps 🦊 prostate size
 - Plain, nothing added

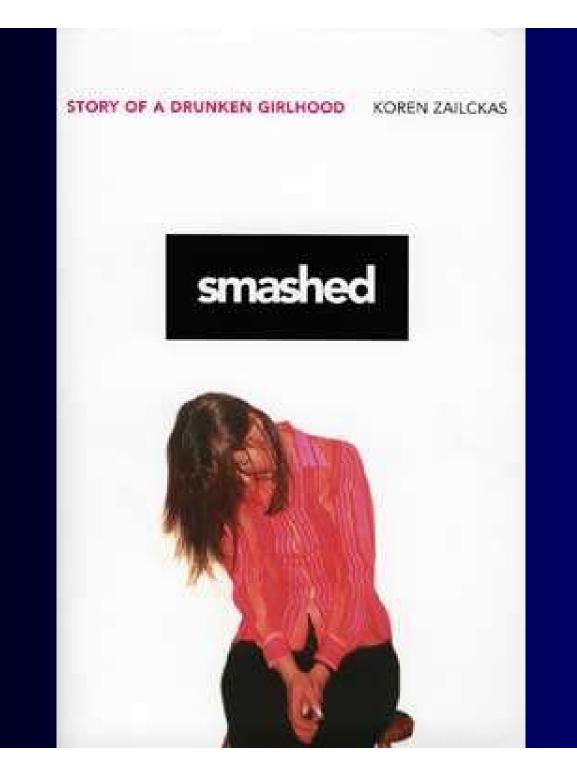
Leafy Green Tea (Camellia Sinesis Plant)

- Highest concentration of polyphenol- potent antioxidant
 1/3 caffeine of black tea and more polyphenol
- EGCG 1/6 catechins
- 2-3 cups per day (no milk with tea)

Stroke/ Heart Disease/BC/Prostate Cancer/Colon Cancer/Cholesterol (HDL)

• Folic acid supplementation is needed !!!

 Do not take while getting chemotherapy/pregnant/breast feeding/ MAOI (hypertensive crisis) / Coumadin/ or if have bleeding disease



Alcohol

- Smashed
- 2 drinks per day 🗋 risk 1.4-1.7x's
- Dietary folate may help counteract the risk
- Recommend:
 - 2oz Red wine/day (Resveratrol)
 - Folic Acid 800 mcg/day, which also
 Homocysteine levels.



General Health tips

Flossing

- Gums, areas in body of highest inflammation in the body
- Floss 2x's per day
- followed by waterpik
- Dental cleaning every 6 months
- Healthy gums 🦊 heart attacks and strokes
- No Smoking/No Chewing Tobacco
 - 20 million Americans have died since 1964 because of smoking
 - 1 Lung cancer
 - head and neck cancer
 - 🔶 bladder cancer
 - 🔶 heart disease

General Health Tips (Cont.)

Sleep Hygiene

- Recommended 7 hours/night
- If sleep aid is needed Melatonin
 - will only work if lights are out
 - boosts immunity
 - does not hurt memory
 - If not resting see pulmonologist to test for sleep apnea.

Filter Drinking Water

- Filter it twice, with an external filtering device, such as PUR or Zero Water, etc.
- Heavy metals, such as Arsenic

Your Allies - Spices



Exercise

Inflammation (Decreases CRP levels)
Immunity
IGA Levels- cuts colds in half
Circulating Insulin Levels
Glucose Levels
Lipids
Risk of breast cancer
Risk of prostate cancer
Heart Attacks and strokes

Walking briskly 60 mins a day [6 days a week]

- At a pace that you cannot use or speak on your cell phone
- 🦊 Hot flashes of menopause
- Strengthens bones(velcro weights on ankles and wrists)

Your Weapons

- Whole Food, Plant Based, Gluten Free, Dairy Free, Salt Free Diet:
- Fruits 5 servings per day sweetest in the AM
- Veggies 5 servings per day
- Gluten Free UDi's Bread (in Freezer section)
- Pasta Spinach/Quinoa/Brown Rice
- Fiber 50-75 grams per day
 - colon cancer, Breast Cancer
 - Rice/Black Brown
 - Quinoa
 - Metamucil sugar free (2 tablespoons + 2 glasses of water) or Psyllium Husk Powder (2 tablespoons + 2 glasses of water)
- Greens Rich in antioxdants
 - Broccoli lightly steamed (Better Crunchy!)
 - Asparagus
 - Avocados

Your weapons

Red onions (Quercetin) ↓LdL Cholesteral		
↑ Immunity Kale	Red Grapes (Quercetin)	
Cabbage	Blueberries	
Spinach	Oranges	
Leeks	Strawberries Fight Barrett's Esophagus, the precursor to Esohpageal Cancer	
Watercress	Pears	
Arugula	Almond Milk	
Asparagus	Berries	
Collard Greens	Rich in antioxidants ↑ Immunity by ↑ NK cells ↑ Anti-inflammation	
Broccoli - 🕇 Immunity		

Your Weapons

Mushrooms (cooked are best)

- White mushrooms fight Breast cancer
- Anti-inflammation/ 🖊 Allergies
- 🕇 Immunity
- 숨 IGA by 50%

Beans (Every day)

- Red/Black/Fava
- Lentils
- Black Eyed Peas
- Split Peas
- Chick peas Hummus

Tomato Sauce/Pasta

- Lycopene anti-inflammatory
- Especially for prostate cancer
- 1 tablespoon in AM and PM

Legumes

- (beans, split peas chic peas, and lentils)

Organic Ground Flaxseed

- 1 tablespoon per day
- Add to smoothie or gluten free cereal
- Bob's Red Mill Organic
- 100% whole ground Golden Flaxseed Meal

Snacks

- 10:00 AM 10 almonds & 1 pear
- 4:00 PM 10 almonds & 1 red apple
- Broccoli Chips with Garlic
- Kale Chips with Garlic
- Mary's Gone crackers
 - Gluten free super seed crackers
- Glutino Gluten free crackers
- NO SUGAR
- Healthy sugar substitutes:
 - Agave (1 drop) or Stevia

Breakfast

Smoothies

- Blender Brands Nutribullet/Ninja Blender/Vitamix...
- Add protein "LEAN" vanilla veggie protein
- Almond Milk plain, unsweetened (Almond Breeze 30 calories or Slik)
- Fruits/Veggies
- Organic ground flaxseed 1 teaspoon
- No juicing (fiber must be included) (Skin of fruit/vegetable must remain inside the smoothie)

BEST BREAKFAST EVER

- Oatmeal (Steel cut), WATER/ALMOND MILK, CINNAMON (antioxidant), BERRIES, CHOCOLATE (100%), QI'A
- ORGANIC GROUND FLAXSEED (1 Teaspoon)
- Gluten Free Toast
- Hummus

Lowers Blood Pressure

Legumes (beans, split peas, chic peas, and lentils)

Watermelon

Hibiscus Tea (5 teabags in 2-3 cups/day)

Nitrate rich diet (
 Nitric Oxide level)
-causes arterial walls to relax
[arugula (#1), cilantro, basil, beets (remolacha]

0 Salt! NOT in the cooking pan and NOT on the plate!

Did you know?

Yanomamo Indians deep in the Amazon have a whole plant, 0 salt diet and never develop high blood pressure even in the very

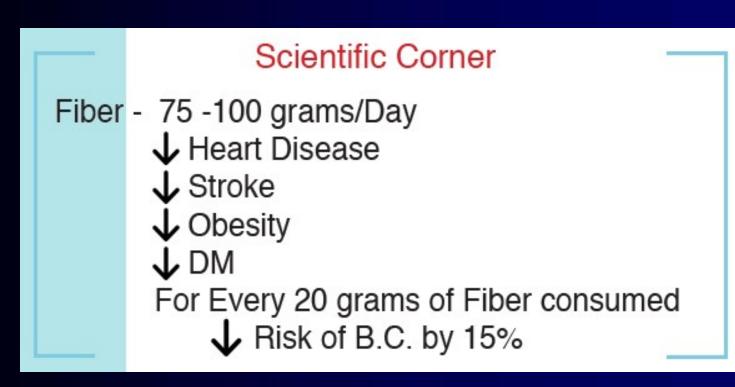
100% Dark Chocolate (Lindt 99% or Scharfenberger 100%) pure cocoa causes arterial walls to relax

Did you know?

Kuna Indians, off the coast of Panama have a diet that is rich in pure cocoa and they do not develop high blood pressure.

Garlic

Organic ground flaxseed (2 teaspoons/day)



Your Enemies

Animal Protein –

Fish and shrimps (wild caught) once/week (salmon, Sea Bass, Halibut, etc.)



(Grassfed is best! once a month, and make it count Ex: Argentinian Parrillada or juicy burger w/ egg on top)

Dairy/Yogurt Cheese (1 salt)

Chicken (On Chicken Day, every other year Ex. Peruvian Aji de Gallina) (↑Salt, ↑Cancer Risk, Salmonella and campylobacter)

Eggs/Eggwhites

Turkey (On Thanksgiving) Pork (On Christmas/"Nochebuena") (On Easter/Passover) Lamb Processed Meat (the worst)

Scientific Corner

Animal Protein stimulates IGF1 (growth factor for cancer)

Plant based diets IGF1 Binding Protein - which binds to IGF 1

Consumption of Beef

Risk of dying from cancer and heart disease

Red Meat - Theme Iron - T free radicals (pro-oxidant)

Your Enemies Avoid: "As much as possible"

- Condiments and others
 - ⁻ Sugar
 - Salt or Sea Salt
 - Ketchup (mostly sugar)
 - ⁻ Mayonnaise
- No Soft drinks (regular or diet)
- Soda causes non-alcoholic fatty liver disease and osteoporosis. Diet ones contain aspartame
- Avoid white rice and white pasta
- Avoid processed foods "anything in a plastic"



PATIENT EXPRESS AUTHORIZED PRODUCTS

Name:

Qty	Item Code	Description	
	QOL110	CogniQOL	Qty
	QOL106	DaxibeQOL	QLY
	QOL113	ErythroQOL	
	QOL108	FemQOL JURMERIC ZpillsAM	
	QOL104	FolaQOL 2 pills PM	
X	QOL102	(InflaQOL) 4/Day	
	QOL111	MucosaQOL	
X	QOL101	(MyoQOL) (CQID -> 1 AUM)	
	QOL105	NeuroQOL IFM)	
	QOL109	NutraQOL	
×	QOL112	ProbioQOL ProbioTic	
	QOL103	RadoQOL	X
	QOL114	VitaQOL	
Y	D128	D-1,000	x
×	D138	D-5,000 7100	

OncoQOL Challer of Lafe Through Tergerood Nationalese



Item Code Description **QOL508** Aloe & Lemongrass Skin-Care Bar Balsam & Sulfur Skin-Care Bar QOL509 QOL502 Conditioner QOL504 Cooling Aloe Spray QOL507 Lip Balm QOL503 Lotion QOL501 Shampoo QOL505 Shower Gel QOL506 Soothing Relief Therapy Cream Magnesium Citrate M234 Glutathione-SR> SA540 SB300 PolyResveratrol-SR SP616 Omega-3 w/ CoQ10 SIGNATURE Customer Service Representatives: Deanna, Carrie, Dani, Heather

DOCTOR CODE FOR DR. SILVA QOLON1000004 Patient Express Website: http://www.oncogol.com OncoQOL Customer Service: (855) 662-6765

Obey Your Body Skin Care

• Dead Sea mineral and Herbal complex



"Sola Tu No Estas"

- If you build it they will come!
- My "Field of Dreams"
- "Patients words" → Would become a song.
- A song that would help many in the FIGHT
- The first three to respond were men
- Fernanda
- Misi Murillo
- 7 singers all Colombian! All famous in their own right.
- Everything donated



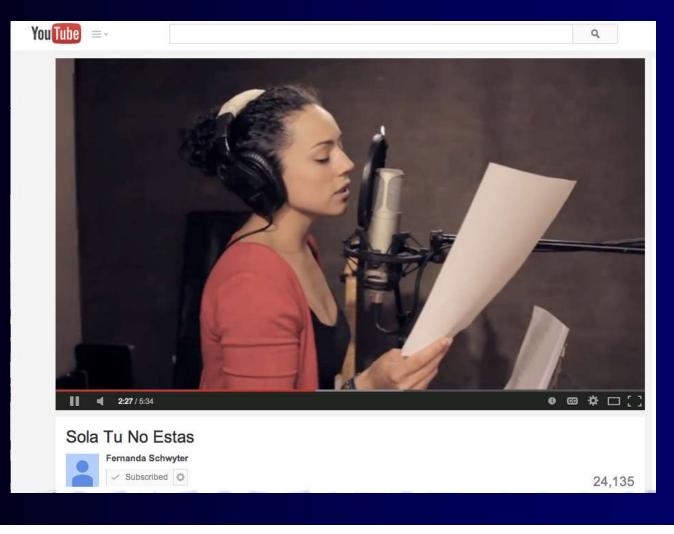






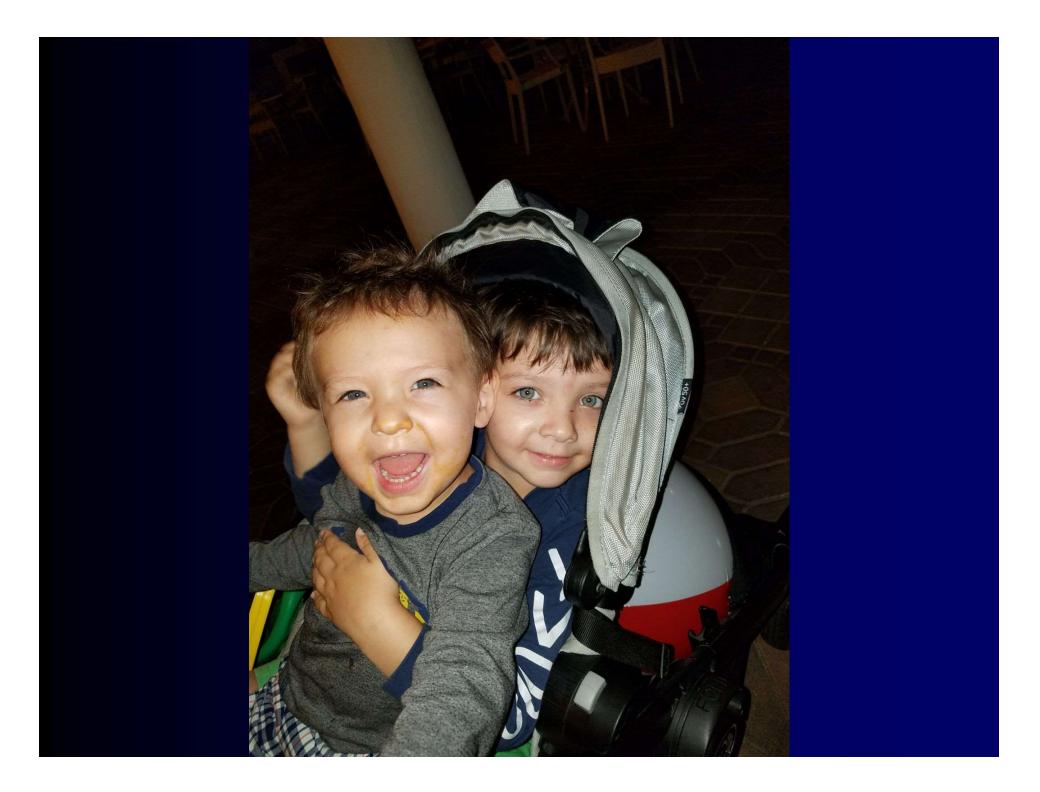
"Sola Tu No Estas"

https://www.youtube.com/watch?v=Mh1gu bEFvY



It's Personal!!!









Index

- B.C. Breast Cancer
- NK Cells Natural Killer Cells
- Endothelium Lining of the walls of the arteries
- Nfkb –
- IL-6 Interleukin-6

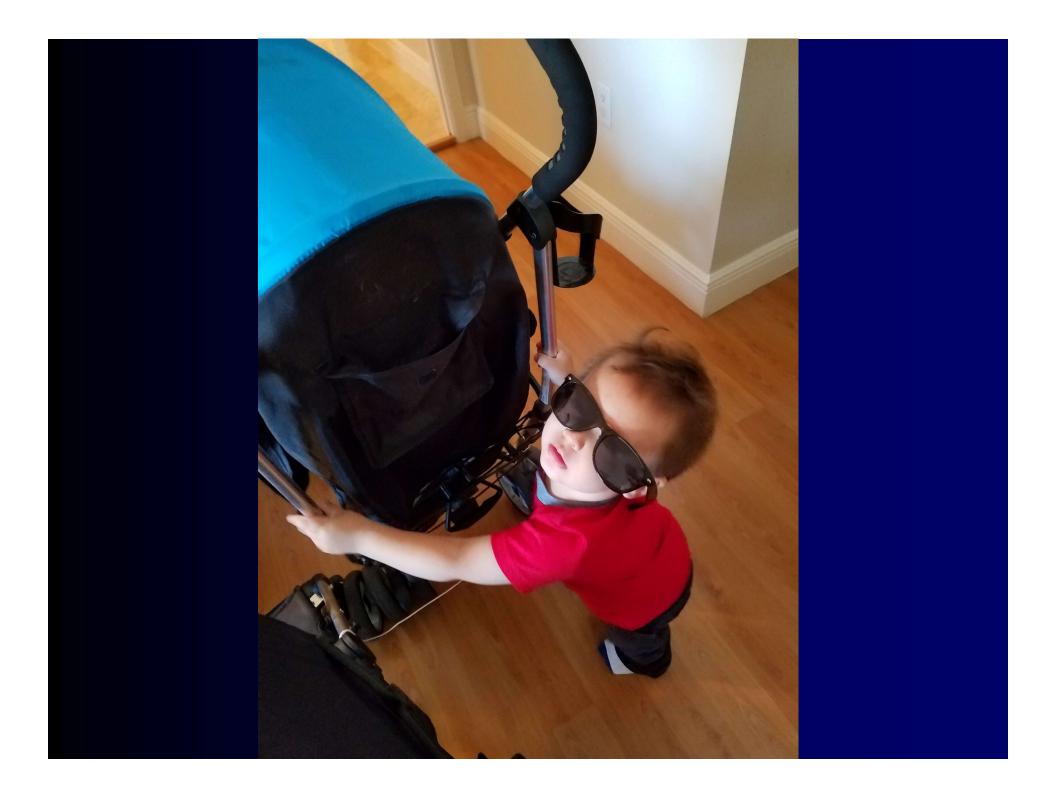
Supplements and vitamins

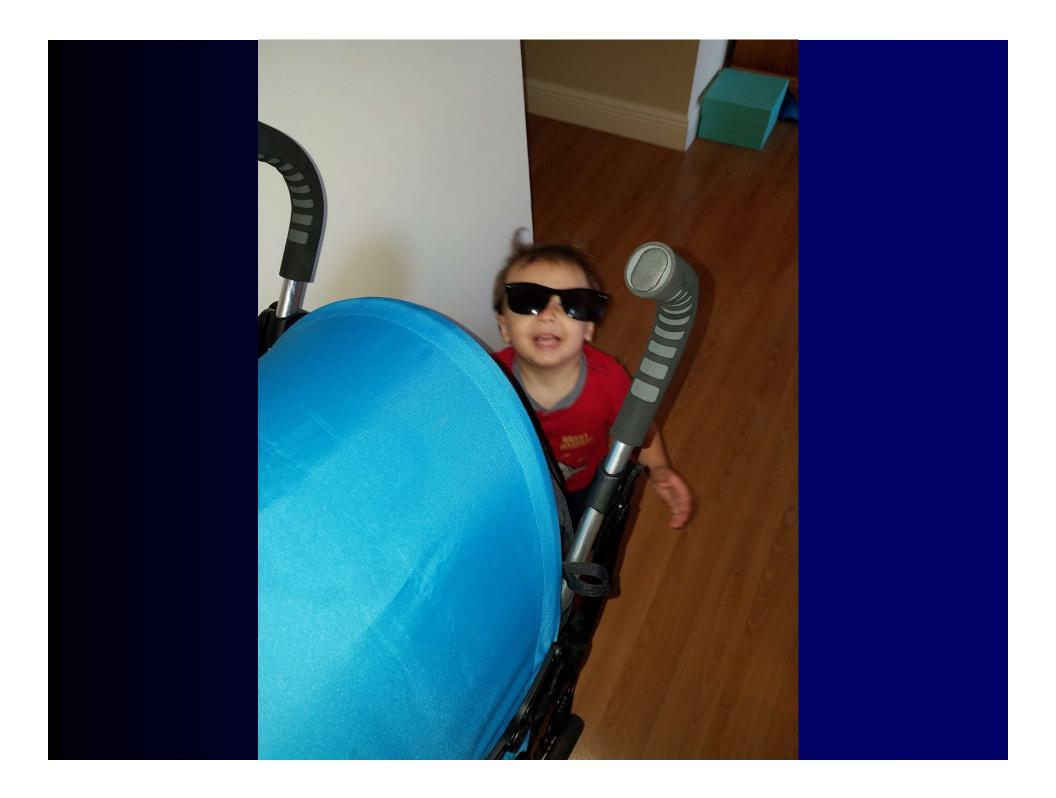
Thorne Research Products which are made with pure spring water from Idaho and have the least contaminants.

- If you mention "Silva's Army," you will get a 25% discount. 1-800-2281966
- Turmeric (Curcumin) twice a day
 - 🦊 Inflammation
- Magnesium 400mg twice a day
 - Inflammation
- Vitamin D3, 5000 Units per day
 - 1 Immunity
 - Level of 50-80
- Probiotic Floramend, Culturelle, Align
 - Timmunity (70% of our immune system is in our gut.)
- CoQ10 100 mg twice a day
 - 🕂 Inflammation
- Quercetin 100 mg twice a day
 - 📙 Inflammation



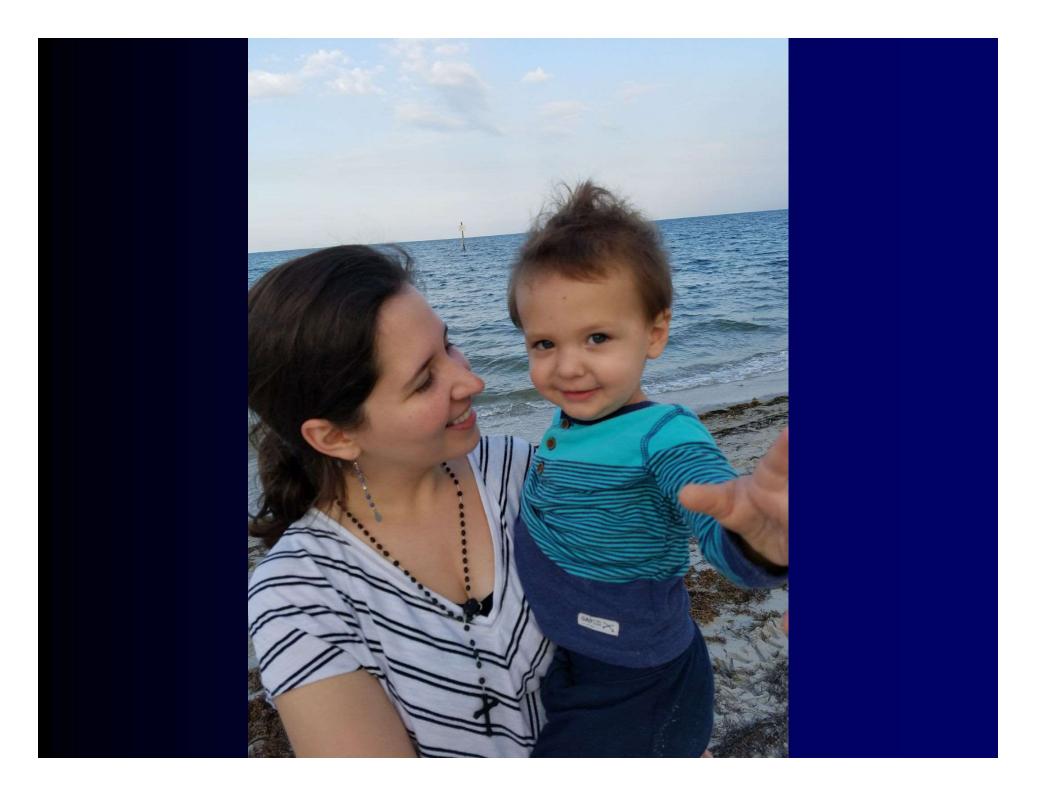
A TEACHING HOSPITAL

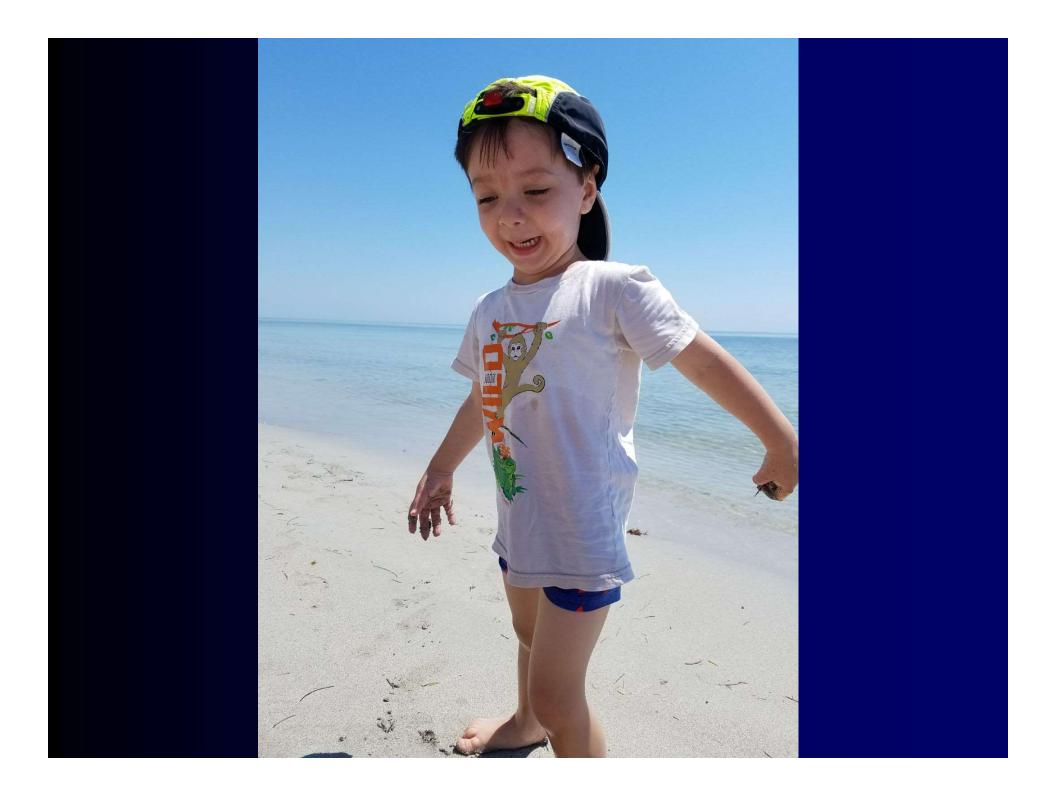












Conclusion

- Insulin resistance and chronic low-grade inflammation are associated with obesity and inactivity and both have been associated with increased breast cancer risk, as well as recurrence and death among women diagnosed with breast cancer.
- Chronic Inflammation can contribute to insulin resistance in the metabolic syndrome through increased levels of proinflammatory cytokines such as TNF-α, which can impair glucose uptake and metabolism by altering insulin signal transduction and IL-6 which can increase glucose production by the liver.
- These inflammatory cytokines, growth factors and activated stromal proteins can promote breast cancer pathogenesis.



- Weight loss and exercise interventions have been shown to impact insulin and other serum biomarkers linked to breast cancer risk and prognosis in healthy women and in breast cancer survivors.
- Animal models also suggest that lifestyle interventions can reduce malignant transformation of breast cells and impede tumor growth, potentially through immune mechanisms.
- Women with newly diagnosed breast cancer with exercise interventions may upregulate immune and inflammatory pathways within human breast tumors.