

The Hormone Puzzle

ESTRO Excessive Strong Estrogens (Estradiol E1 and Estrone E2) due to: Lack of exercise High intake of meat High fat diet	Protection Strategy OGEN Increase Estriol E3 (Weak estrogen) with: Cabbage, brassica family foods Indole-3-carbinol or DIM
and Estrone E2) due to: Lack of exercise High intake of meat	Cabbage, brassica family foods
Obesity Constipation	Sea vegetables Iodine Decrease Estradiol E1 and Estrone E2 by: Daily exercise Vegetarian, low fat diet Improve liver detoxification & elimination Stall puberty Sleep in a dark room
e	 Make more C2 Estrogen, Less C4 and C16; Inactivate C4 Estrogen with: Promote formation of C2 estrogens: eat brassicas (cabbage, broccoli, Brussels sprouts, kale, cauliflower), indole-3-carbinol or DIM rosemary schizandra St. John's wort Assist Liver Detoxification: Amino Acids – methionine, cysteine, taurine MSM betaine Vitamins B6, B12, B2, folic acid, choline Minerals – magnesium, selenium, zinc Calcium-D-glucarate Milk thistle, curcumin, ellagic acid
Increase Risk of Breast Cancer	Protection Strategy
ESTROGEN	



	3. Dietary – low fat diet, EPA (fish
	oil), ground flax seeds, increased
	fibre, wheat bran, psyllium,
	probiotics, red clover,
	phytoestrogens - 8 to 10 servings of
	vegetables; 2 servings of fruit; 1
	serving of complex carbohydrates
	(that means whole grains like
	brown rice, millet, quinoa, oats and
	whole wheat flours like spelt and
	kamut); 1 serving of protein
	(preferably nut and vegetable
	protein)
	4. Normalize progesterone
Increased Production of Strong	Inhibit Aromataze with:
Estrogens (Estradiol and Estrone) due to:	Chrysin (strong)
Aromatase enzyme	Ground flaxseed (moderate)
	Genistein (soy) (weak)
	Zinc
Decreased SHBG (Sex Hormone Binding	Increase SHBG with:
Globulin) due to:	Fiber
High cortisol	Ground flaxseeds
High insulin	Red clover sprouts
High IGF-1	Low fat vegetarian diet
High testosterone	Improve thyroid function
Low thyroid	Normalize cortisol, insulin, IGF-1,
-	testosterone
Increased Number of Estrogen	Decrease Number of Estrogen Receptors
Receptors due to:	with:
Pesticides	Melatonin
Xenoestrogens	
Hormone replacement therapy	
High Body Mass index	
Xenoestrogens Attach to Estrogen	Block Estrogen Receptors with:
Receptors such as:	Phytoestrogens: flax, soy, red
Pesticides, PCBs, dioxin, PVC,	clover, mung bean sprouts,
phthalates, Bisphenol A,	pumpkin seeds
brominated fire retardants,	Indole-3-carbinol or DIM
cadmium, mercury, lead	Quercetin



Increase Risk of Breast Cancer	Protection Strategy	
PROGESTERONE		
Decreased Progesterone due to:	Increase Progesterone with:	
Phthalates	Vitamins B6 and E; selenium, zinc,	
PCBs	boron	
Herbicides	Chaste tree berry, stoneseed	
Hexachlorobenzene	Soy, ground flaxseed	
High cortisol levels	Improve liver, bowel and adrenal	
High insulin levels	function	
Excess refined sugars and	Adequate melatonin levels	
carbohydrates	Normalize insulin, avoid sugar	
Nutritional deficiencies	Normalize thyroid, use zinc,	
	seaweed, selenium to increase T3	
PROLACTIN		
High Prolactin due to:	Normalize Prolactin with:	
Estrogen dominance	Normalize low progesterone	
Underactive thyroid	Normalize low thyroid	
Stress	Improve detoxification and	
Suckling	elimination of estrogen	
Sexual intercourse	Increase melatonin – sleep in a dark	
Medications	room	
	Reduce stress/use relaxation	
TESTOSTERONE		
Elevated Testosterone due to:	Normalize Testosterone with:	
High insulin levels	Flaxseed	
Chronic stress	Chrysin	
Excess sugar and refined	Seaweed	
carbohydrates	Iodine	
Polycystic ovary syndrome		
GROWTH	GROWTH HORMONE	
Increased Growth Hormone due to:	Normalize Growth Hormone with:	
Dairy containing bovine growth	Avoid dairy or beef products	
hormone	containing bovine growth hormone	
Colostrum products		



Increase Risk of Breast Cancer	Protection Strategy	
	IORMONES	
Low Thyroid (Hypothyroid) Function	Normalize Thyroid Function with:	
due to:	Normalize progesterone	
Ionizing radiation: x-rays, nuclear	Improve detoxification and	
power	elimination of estrogen	
Lead, cadmium, mercury	Normalize cortisol	
PCBs, pesticides, phthalates, dioxin	Use tyrosine, iodine or kelp	
Prescription drugs: tamoxifen, steroids, etc.	Increase Conversion of T4 to T3 with:	
Excess estrogen levels	Detoxify mercury, cadmium, lead,	
Low progesterone levels	chemicals	
High or low cortisol levels	Tyrosine, cysteine, iodine	
	Zinc, selenium, copper	
	Vitamin B12	
	Flaxseed Oil	
High Thyroid (Hyperthyroid) Function	Normalize Thyroid Function with:	
due to:	Decrease stress	
Excess iodine	Daily relaxation/meditation	
Chronic stress/cortisol imbalance	Motherwort, skullcap, bugleweed,	
Radiation exposure	lemon balm	
Liver stagnation and heat	Magnesium, Vitamin B complex	
	Avoid radiation	
INSULIN		
High Insulin Levels due to :	Normalize Insulin Levels with:	
Excess sugar, soft drinks, alcohol,	Protein with each meal	
refined carbohydrates	Low glycemic carbohydrates, avoid	
Animal fats	sugar	
Omega 6 fatty acids	Increase fiber	
Obesity	Daily exercise	
High blood sugar	Maintain ideal weight	
	Chromium, magnesium, niacin	
	Alpha lipoic acid	
	Flax or fish oil	
INSULIN-LIKE GROU	WTH FACTOR (IGF-1)	
Increased IGF-1 due to:	Lower IGF-1 with:	
Moderate alcohol consumption	Vegetarian diet	
High insulin levels	High levels of binding protein	
High growth hormone levels	IGFBP-3	
Bovine colostrum	Chromium, alpha lipoic acid,	
Low levels of binding protein	omega 3 oils (flax or fish oil)	
Increase Risk of Breast Cancer	Protection Strategy	
CORTISOL		



High Cortisol Levels due to:	Normalize Cortisol Levels with:	
Stress, overexertion, childhood	Meditation	
abuse	Stress counseling	
Result in:	Relaxation	
High blood glucose	Associate with supportive people	
High Insulin, Increased IGF-1	Vitamin B complex, Vitamin C	
Fat deposition in torso/more	Magnesium, zinc, MSM	
estrogen in breasts	-	
	Siberian ginseng, licorice root,	
Depressed T-killer cells	borage, oats, schizandra, rhodiola,	
Low progesterone	ashwaganda	
Increased testosterone		
Decreased efficiency of thyroid		
hormone		
Decreased melatonin production		
MELATONIN		
Decreased Melatonin due to:	Increase Melatonin using:	
Sift work	Foods high in tryptophan	
Light at night	Vitamins B3, B6	
Insomnia	Calcium, magnesium, zinc	
Chronic exposure to strong	Meditate before bed	
electromagnetic fields, above 2 mG	Sleep in a dark room	
Alcohol, caffeine, nicotine, drugs	20 minutes outside in natural light	
Cortisol imbalance	in a.m.	
	Exercise daily	
	Normalize cortisol	

Many thanks for this wonderful resource, adapted from: <u>The Complete Natural Medicine Guide to Breast Cancer,</u> Sat Dharam Kaur, N.D., pp. 95-98.