

Blood Type and Nutrition

Featuring Kimberly Balas, PhD, ND and Steven Horne, RH(AHG)

Why is Blood Type Important?

- All organisms are equipped with a system which enables their bodies to identify structures that are part of their organism from structures belonging to other organisms
- Blood type is one of the most fundamental methods the body utilizes to separate self from not self
- · This is why donated blood has to be compatible
- This ability to determine what is self and what is not self is at the core of our immune function

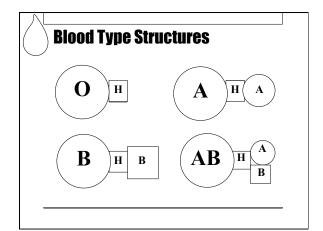
About Blood Typing

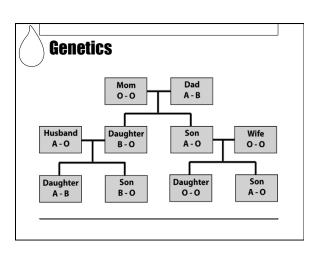
- In 1900, Karl Landsteiner proved that there were four different types of human blood.
- In 1907, Dr. Jan Jansky noted the four blood types that we know today: A, B, O, AB
- Research done by Dr. Peter D'Adamo and his father, Dr. James D'Adamo, has demonstrated there was a strong correlation between a person's blood type (O, A, B or AB) and the foods and supplements they need to consume for optimal health.
- Dr. D'Adamo has widely promoted this concept in several popular books, including Eat Right for Your Type and his Live Right for Your Type.

Determining Your Blood Type

- Simple test kits are available to determine your blood type
- You can also donate blood and ask them what your blood type is when you donate







Lectins

- · Chemicals found in all foods
- Lectins that are incompatible with one's blood type create negative biochemical reactions
- For starters, they cause agglutination of the blood, meaning they make red blood cells "sticky" so they clump together. This results in a reduction in oxygen supply in the body and lowered immunity
- Lectins can also interfere with protein digestion, block hormones, trigger immune reactions and impair absorption
- Understanding which foods contain lectins compatible with the body and which foods contain lectins that are not is the basis of the blood type diet

Food Choices

- Beneficial—foods/ supplements act like a medicine
- Neutral—foods/ supplements act like a food
- Avoid—foods/ supplements act like a poison



Secretor/Non-Secretor

- Secretors
 - 85% of population
 - · Express more of your blood type in your body
 - Wall out the bad guys and kill them outside the body
- Non-secretors
 - Allow germs in and kill them within the blood stream
 - Carries a gene which inhibits them from secreting their ABO blood type in their saliva, semen, etc
 - Distinct link between non-secretors and family histories of alcoholism and diabetes

Dietary Compliance

- Healthy
 - Over age 55 80% compliance
 - Under age 55 70%
- Imbalanced or diseased
 - 80-90% compliance
- Desiring weight loss
 - 100% compliance



Blood Type Supplements

- In addition to diet each blood type is prone to a unique set of health challenges
- These can be mediated or eliminated through appropriate herbs and supplements



Blood Type 0 Basics

- · Universal donor (can donate blood to all types)
- · Carnivorous, hunter-gatherer type
- Oldest and most basic blood type
- Tend to be strong and self-reliant, natural leaders
- · Hardy digestive tract
- Strong immune system with natural defenses against infection



Blood Type 0

Strengths

- Strong immunity
- · Strong digestion, break down fats and proteins easily
- · Handle stress well in the short term
- Thinner blood

Weaknesses

- Once overtaxed by stress, they require longer recovery
- Can be angry or prone to risky behavior
- Can be moody and hyperactive
- Poor utilization of carbohydrates

O

Blood Type 0 Diet

Maior Avoids

- · Grains (corn. wheat)
- Dairy products (A-1 Beta
- Beans (kidney, navy, pinto, lentils)
- Nuts/Seeds (cashews, peanuts, pistachios)
- Fats/Oils (soy oil, corn oil, peanut oil, black olives)
- Other (cauliflower, red and white potatoes, oranges, tangerines)

Maior Beneficials

- Red Meat (beef (grassfinished), buffalo, lamb, venison)
- Fish (sea bass, cod.
- halibut, snapper, yellowtail) Beans (adzuki, black-eyed
- Nuts/Seeds (flax, pumpkin,
- Fats/Oils (flax, olive)
- Other (beet greens, Swiss chard, broccoli, kale, cherries, plums)



Neurotransmitters

- · Secrete higher levels of catecholamines (dopamine, ephinipherine), which allows them to respond more rapidly to danger
- · They also have low levels of MAO, which breaks down catecholamines, which is why they need a longer recovery time from stress
- · Issues with these neurotransmitters make them more prone to manic-depressive disorders, bipolar disorder, schizophrenia and ADHD
- · L-tyrosine found in red meat (and sprouted wheat) helps balance these neurotransmitters



Blood Type 0 and Stress

- Produce the least amount of cortisol in
- Susceptible to prolonged stress adrenal exhaustion
- Cholesterol usually runs higher
- Anger management techniques
- Intense physical exercise
- Minimize monotony
- Add high CLA proteins to diet

- Helps lower blood pressure, glucose and triglycerides levels.
- Helps with sluggish liver. Helps to improve HDL cholesterol by helping to keep LDL cholesterol oxidation inhibited. Helps reduce high serum LDL cholesterol.
 Antioxidant, which helps to reduce the effects of oxidative stress.
- . Helps with maintenance of optimal cellular function that has been impaired by stress.

Licorice Root

- Provides adaptogens to nourish adrenals and improve prolonged stress response
- Reduces cravings for sugar and carbs (foods that create inflammation and oxidized cholesterol)



Blood Type 0

Health Issues

- · Hyperactive Immune System
 - Allergies
 - Inflammatory conditions Autoimmune diseases
- · Hashimoto's thyroiditis
- Mood swings
 - ADHD
 - Manic-Depressive
 - Schizophrenia
 - Parkinson's

Important Supplements

- L-tyrosine
- 5-HTP
- L-glutamine
- **B-complex vitamins** (especially folic acid)
- Trace minerals
- Adaptagens
- Adrenal Glandular
- Larch Tree Bark (arabinogalactin)
- lodine (seaweeds)
- · Stinging Nettle

Blood Type A Basics

- Agrarian blood type, cultivators, more vegetarian (need the right types of proteins)
- Settled, co-operative and orderly
- Adapt well to environmental changes
- Sensitive digestive tracts
- Have more difficulty digesting protein, especially red meat
- More vulnerable to microbial invasion



Blood Type A

Strengths

- Adaptive to change
- · Preserves and metabolizes nutrients
- Creative
- Co-operative
- Domestic
- Organized

Weaknesses

- Prone to anxiety
- Weak digestion
- Reduced immunity
- · Congestion/Stagnation
- OCD



Cortisol and Stress

- Secrete more cortisol than other blood types giving them a higher base-line stress level
- Also produce more epinephrine in response to stress and has the hardest time breaking it
- High cortisol contributes to more rapid aging, senility, Alzheimer's and cancer
- This also makes them more prone to anxiety disorders, particularly obsessive-compulsive disorders (OCD). OCD patients show higher levels of cortisol.
- Adaptogens help reduce cortisol levels and can be very beneficial



Blood Type A Diet

Major Avoids

- · Grain fed Beef
- · Fish (bass, catfish, grouper, haddock, halibut, oyster, scallop)
- · Grains (wheat)
- Dairy
- · Nuts/Seeds (Brazil, pistachio)
- Other (tomatoes, potatoes, peppers, bananas, oranges)

Major Beneficials

- Fish (cod, perch, snapper, salmon, sardine, trout)
- Grains (amaranth, rye,
- Beans (black, pinto, soy, lentils)
- Nuts/Seeds (peanut. pumpkin, walnut)
- Other (beet greens, broccoli, carrot, onions. Swiss chard, berries, grapefruit, lemon, lime)



Blood Type A and Stress

- · Over responds to minor stress
- · Has an increased cortisol in blood
- · LDL Inflammatory response usually higher
- Calming exercises (yoga, tai chi) Meditation and deep breathing
- · Avoid sleep deprivation
- Solitude replenishes

Adaptagens

- Nourishes circulatory system and protects from oxidative damage
- Protects the digestive system from the effects of stress
- · Helps restore energy levels in an over stressed nervous system

- · Reduces depletion of nutrients due to high cortisol levels and elevated stress
- · Strengthens nervous system and resistance to physical effects of stress
- · Controls inflammatory effects of High LDL



Blood Type A Supplements

Health Issues

- Stress
 - Higher cortisol levels
- Difficulty handling stress Prone to anxiety, OCD
- · Weak digestion
- · Immune Issues
- Asthma and allergies
- Ear infections in children Highest cancer risk
- · Thicker blood
- · Insulin resistance

Important Supplements

- Adaptagens/Adrenals (Eleuthero, licorice, schizandra)
- B-Complex (B6, B12)
- Digestive enzymes (HCI)
- **Probiotics**
- · Digestive bitters (gentian, goldenseal)
- · Co-Q 10

Blood Type B Basics

- · First appeared in India or the Ural region of Asia among a mix of Caucasian and Mongolian tribes
- Inclined to be nomads
- · Balanced, flexible and creative.
- Strong immune systems
- · Readily adapt to dietary and environmental changes
- · Omnivore type



Blood Type B

Strengths

- · Strong immune system
- · Balanced nervous system
- · Flexible, outgoing
- · Versatile to dietary
- · Good digestion

Weaknesses

- Overreactive to stress (hold stress inside)
- · Difficulty recovering from stress
- Lethargy, lack of motivation
- Some immune issues with viruses

Blood Type B Diet

Major Avoids

- Meat (chicken, duck quail, pork)
- Seafood (clam, crab, lobster, mussels, shrimp, vellowtail)
- Beans (black, garbanzo, lentils, mung, soy)
- Nuts/Seeds (peanuts, cashews, pistachio)
- Grains (corn, wheat, rye)
- Other (olives, tomato)

Major Beneficials

- · Meat (goat, lamb, venison)
- Seafood (caviar, cod, halibut, salmon, sardine)
- Dairy (organic cow milk, goat milk, cottage cheese, yogurt, feta)
- Beans (kidney, lima)
- Walnuts
- Grains (oat, rice)
- Other (beet, cabbage, carrot, peppers, yams, papaya, pineapple)

Blood Type B Notes

- · Blood type B (and AB) clear nitric oxide faster than other blood types
- · Nitric oxide dilates blood vessels to lower blood pressure
- · L-arginine is the precursor to nitric oxide
- · Both B and O blood types are more intolerant of carbohydrates and require higher protein intake

Blood Type B and Stress

- · More emotionally centered
- Sensitive to stress related imbalances
- · Respond quickly to stress-reducing
- · Triglycerides tend to run higher
- Visualization and relaxation
- strategies balanced with exercise Meditation and deep breathing
- Sleep according to light/dark response
- · Avoid rushing have a schedule

Lecithin

- Helps balance cholesterol and triglyceride combustio
- Helps produce healthy bile salts to emulsify fats
- · Reduces blood insulin levels which can damage arteries and cause clots

Magnesium

- Reduces heart stress and lowers homocysteine levels
- · Reduces inflammatory processes from stress and helps with irregular heartbeat
- · Enables better glyceride combustion and increases cellular energy and endurance

B Blood Type B Supplements

Health Issues

- Immune Issues
 - Vulnerable to viruses
- Autoimmune disorders
- · Memory loss (Alzheimer's)
- · Chronic fatigue
- Hyperinsulinemia
- · High blood pressure
- · Urinary tract infections

Important Supplements

- Ginkgo
- Bacopa Leaf
- **B-Complex**
- Magnesium L-arginine
- Cranberry/Juniper Berry
- Lecithin
- Astragalus Eleuthero
- Minerals
- Elderberry

Blood Type AB Basics

- · Universal Receiver (can receive all other blood types, but can only donate to other ABs)
- · Rarest blood type (less than 4% of the
- · Combines traits of A and B types
- · Stronger immune systems
- · Tend to be charismatic and mysterious
- · Adaptable for modern conditions



Blood Type AB

Strengths

- Charismatic
- Mysterious
- · Adaptable to modern conditions

Weaknesses

- Overly tolerant immune system
- Digestive issues (intestinal)
- Tendency to feel alienated from others
- Introversion
- **Problems digesting** protein and fat

(AB) Blood Type AB Diet

Major Avoids

- · Meat (red meat, pork
- Seafood (clam, crab, lobster, shrimp, oyster, yellowtail)
- Corn
- Nuts/Seeds (sunflower, pumpkin)
- Other (banana, orange, peppers)

Major Beneficials

- Meat (turkey)
- Seafood (cod, mackerel, salmon, snapper, tuna)
- Grain (amaranth, rice, oat, spelt)
- Dairy (goat milk, yogurt, cottage cheese, sour cream)
- Nuts/Seeds (peanut, walnut)
- Other (grapes, pineapple, beets, kale, eggplant)

AB

Blood Type AB and Stress

- Stress causes more immediate reaction in inflammation
- Sensitive to stress related imbalances more like the A type
- · Triglycerides tend to run higher
- Diet is extremely important in lowering high glycemic index
- Meditation, visualization & deep breathing
- Sleep is important to restore balance
- · Minimize surprise and adrenaline rushes

• Rhodiola

- Helps with blood quality and supports lymphatic system
- Reduces the cell mutations associated with cancel
- Helps the body's ability to repair DNA mutations
- L-Arginine
 - · Reduces nitric oxide generation

 - Inhibits proinflammatory cytokines
 Lowers blood sugar blood pressure and triglycerides
 - Decreases oxidative stress:
 - · Increases blood flow to the extremities

AB

Blood Type AB Supplements

Health Issues

- Overly tolerant immune
- · Digestive issues
 - Parasites
 - Leaky gut
- Sensitive digestive systems
- Prone to colon cancer
- Hypertension
- Blood clots
- Mood disorders like Os

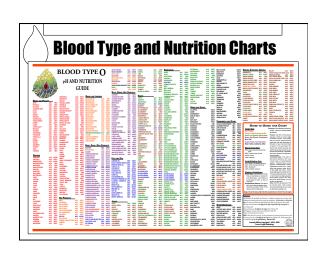
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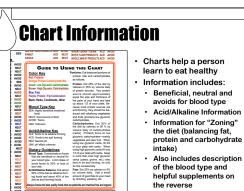
- · L-tyrosine
- · L-arginine • Kudzu
- Probiotics
- Rhodiola
- · B-complex vitamins
- · Alpha lipoic acid
- · Yellow Dock
- · L-glutamine

Blood Typing Kits

- · Use to determine a person's blood type
- · 1 or more kits -\$16.20
- · 6 or more kits -\$12.96 - 20% off
- · 12 or more kits -\$9.72 - 40% off
- 10% off for orders placed 2/13-2/29







Blood Type Charts & Tablets

- Individual **Laminated Charts** (O, A, B or AB)
- Tablets of 25 Charts (O, A, B or AB)
- · Old Price \$15 ea. • New Price \$12 ea.
- Old Price \$50
- New Price \$40
- Sale Price \$10 ea.
- 3 or more \$32
- 4 or more \$9.60 ea.
- 6 or more \$28

Order at www.treelite.com or 800-416-2887 On sale from 2/13 - 2/29

Question and Answer Time

