Mesoglycan and Vascular Diseases
What is Mesoglycan?

• Also called Aortic Acid
• A mixture of glycosaminoglycans (GAGs) the building blocks of joints, intestines, and the inside of blood vessels.
• The human body naturally produces mesoglycan
• When intended for use as a drug or supplement, mesoglycan is extracted from animal sources

Mesoglycan can do what Drugs can’t - Rebuild and Restore Damaged Blood Vessels!
How Does it Work?

Road Repair
Provides the materials for the body to repair damaged blood vessels

Traffic Management
Keeps blood cells from collecting in bunches – everything flows smoothly
In Other Words...

• Mesoglycan has two mechanisms of action
  – Building block to strengthen weak blood vessels and prevent bulging, tears and ruptures
  – Reduces fibrinogen (protein associated with blood clot formation) WITHOUT having adverse effects on clotting

• Mesoglycan is ideal for treating any disease of the blood vessels
Use Mesoglycan For...

- Common vascular diseases which can be treated with mesoglycan:
  - Peripheral artery disease
    - Peripheral arteries are blood vessels outside the heart
    - Can develop atherosclerosis and blockages, restricting blood flow
  - Aneurysm
    - Bulge in the wall of the blood vessel
  - Reynaud’s phenomenon
    - Spasms in the arteries of the fingers and toes, restricting blood flow
  - Hemorrhoids
    - Swollen blood vessels in the rectum
  - Varicose veins
    - Swollen, bulging veins in the legs
More Uses for Mesoglycan

- Chronic venous insufficiency
- Venous ulcers
- Intermittent claudication (pain in the calf muscle when walking – disappears after rest)
- Clot prevention
- Diabetic retinopathy

- Recent report from a consumer who tried mesoglycan:
  I have had a great deal of trouble with bruising for the last 10-15 years. Nothing I tried gave me any help, it just kept getting worse. I tried mesoglycan and the persistent bleeding in my right hand stopped. The blood cleared from under my skin within a few days and the other darkened patches have cleared. I'm continuing to take the mesoglycan along with a few other supplements. THANK YOU.”
How to Use Mesoglycan

• Take 50-100 mg daily
• If taking warfarin (coumadin) talk to your doctor first before taking any dietary supplement
Iron for menstruation complications

• Recent study: 236 women with heavy menstrual bleeding: 27% were anaemic (yet only 8% of them took iron supplements) while another 60% of the women were severely iron deficient

• After treatment for the Heavy Menstrual Bleeding and supplementing with iron, the women who were previously anemic experienced increased energy and a reduction of anxiety and depression

• Researchers noted that it could take several YEARS to restore iron levels through diet alone and recommend that all women with heavy menstrual bleeding or anemia take a high quality iron supplement
Herb of the Day
Maca
Growth and Harvest

- The “Peruvian Power Plant”
- Cultivated exclusively at an altitude of 13,000 to 14,000 feet in the Peruvian Central Andes
- This area is *legendary* for its harsh growing conditions
- **Maca** and **potato** are the only food crops which can survive
- Maca produces a radish-like tuber which is dried and stored after harvest
Maca

- Maca is **not a stimulant**
  - Source of natural energy
- **Traditional use for Libido** “Nature’s Viagra”, energy and stamina
- **Current research**
  - Improved sperm count and motility (clinical trial)
  - Prevention of high blood pressure (inhibits ACE (angiotensin I-converting enzyme))
  - Prevention of postmenopausal weight gain, changes in bone metabolism (tested in an animal model)
  - Treatment for mild erectile dysfunction (clinical trial)
  - Relieved sexual dysfunction caused by use of antidepressant drugs (SSRIs) (clinical trial)
  - Reduced anxiety, depression and sexual dysfunction in postmenopausal women – without estrogenic effects (clinical trial)
  - Prevented enlargement of the prostate gland (animal model of benign prostatic hyperplasia)
How Does it Work?

• Exact mechanism of action still unclear – may be combination effect of different bioactive compounds
  – Researchers are most interested in two compounds that are unique to maca: macamides, macaenes
• No impact on testosterone (but does increase sperm count)
• May act to normalize levels of key hormones such as follicle stimulating hormone (FSH) and luteinizing hormone which explains why it enhances female fertility
Who Should Take Maca?

• Maca is useful for
  – anyone who wants more energy, stamina, or endurance
  – anyone who wishes to boost libido
  – anyone who wants to improve overall vitality

• Maca is well established as an aid for women who want to eliminate the discomfort of menopause, including night sweats and hot flashes.

• Maca demonstrates absolutely zero toxicity, and it makes people feel good.

So just about anyone can benefit from Maca!

• Dosage: 2-4 grams daily