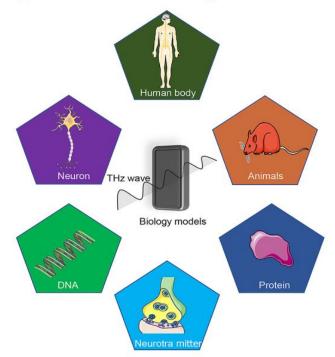
APLGO Product Q & A – MLS With Mary Esther Gilbert, MSc HN, BSc NSP and Associate Ruth Mayne December 9, 2024

1. The biggest burning question is how does our pendant help with the lozenges!

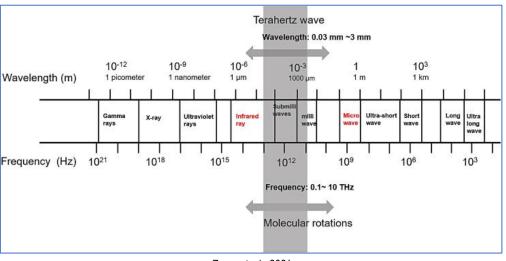
- **Terahertz photon units of light** have been shown to help align the body's electrical systems for better impulse communication transmissions of the nerves and brain [similar to how negatively charged ions in the drops neutralize free radicals in the body].
- The **volcanic ash** as part of the composition of the pendant, is found to have conductivity and store energy as electrical potential.
- Terahertz photons have low harmless energy frequencies that do not cause tissue damage.
- THz photons research shows they are ideal for detecting tumors since water content in tumors greatly differ from normal tissues.
- Research is showing increasing evidence that THz frequencies are beneficial in functions of the nervous system, and to ameliorate acute ischemia stroke when therapy was applied using infrared radiation modulated by THz frequencies.
- "THz therapy can be used under various neurological conditions to either ameliorate disease symptoms or rescue disease pathologies, in the same way, that physical therapy does." (Peltek, et. al., 2021)
- Beeswax has low thermal conductivity but high thermal storage, such as wax on a paper cup.



Applications of terahertz technology in neuroscience

Zang, et. al., 2021

Terahertz (THz) wave is an electromagnetic wave with a Frequency range of 0.1–10 THz (1 THz = 10^{12} Hz) and a wavelength of 0.03–3 mm



Zang, et. al., 2021 https://pmc.ncbi.nlm.nih.gov/articles/PMC8683584/

• Research on bacteria showed exposure to THz frequencies impaired their cells ability to proliferate and showed abnormal morphology or ability to properly replicate (Peltek, 2021).

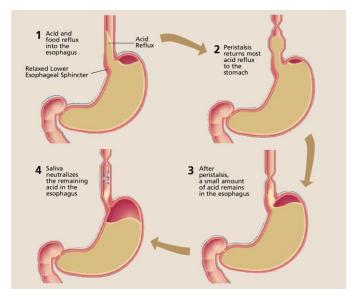
 Given the blend of ingredients in MLS, and the pollutants in our food water and air, would you suggest that everyone including children take MLS daily? Yes. Every body can benefit from the proven nutrient factors in MLS.

3. For people that worry about parasites. We know how important MLS is in fighting parasites does it work better paired with HPR. MLS contains a great array of anti-parasitic compounds. HPR focuses on keeping the liver clear of toxins and provides what it needs to maintain all of its functions. The liver:

- a. Filters (cleanses) the blood, removing toxins and waste for elimination through urine and feces.
- b. Secretes alkaline bile fluid, decreasing acidic conditions.
- c. Produces the enzyme, lipase, for digesting and breaking down fats into fatty acids.
- d. Converts excess glucose in the blood into glycogen and stores it in the liver.
- e. Converts ammonia byproducts into urea, the end product after breaking down protein and excreted via the urine.

4. Is MLS beneficial for people with GERD or any other autoimmune disorder and if so how?

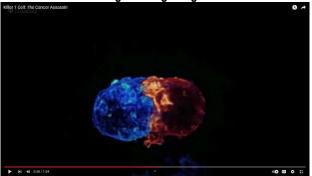
- a. **Pectin (in the black currant)** is a soluble fiber important in heart health and blood vessel strength, preventing colon and prostate cancer, and helping to manage diabetes.
- b. Shown to improve the biological mechanisms that result in GERD (gastroesophageal reflux disease) (Kahrilas, 2003).

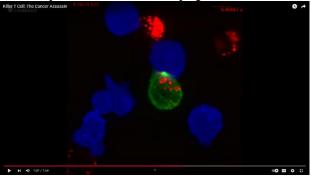


Botanicals	Phytonutrients
 Artichoke Leaf (Cynara folia) Improves insulin secretion, energy and glucose metabolism. Improves cholesterol metabolism when carbohydrates and fatty foods are ingested. Cleanses liver, improves skin conditions, protects liver from free radical damage. Prevents formation of liver cancer cells. Aids digestion. Helps immune system against illness-causing microorganisms. 	 Inulin – helps establish healthy microbiota in intestines. Tsinarin – improves bile flow in the liver during fats digestion.

Our Immune Cells Constantly Search the Body for Foreign Substances and Health-Threatening Microbials

Killer T-Cell Attacking and Engulfing Cancer Cell Killer T-Cell and Cytotoxic Granules Destroying Cancer Cell

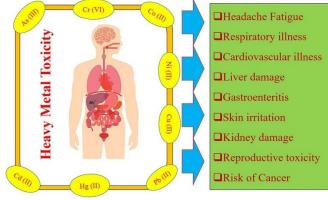




Killer-T-Cell-The Cancer Assassin – Cambridge University 2015 https://youtu.be/ntk8XsxVDi0?si=Su5FykEEXWYNDaBd

•	Carnation, Seed (Clove) (Syzigium aromaticum) Improves digestion, stimulates appetite. Strengthens liver functions. Improves circulation, memory. Antimicrobial. Neutralizes reactive oxygen species' (ROS) cell-damaging effects. Prevents damage to DNA, prevents oxidation of proteins, lipids, sugars in	•	Phenolics – antibacterial, antiviral, antifungal, anti-yeast, help eliminate toxic metals aluminum, lead. Organic acids – anti-inflammatory, antioxidants, anti-free radicals.
	cell environment.		

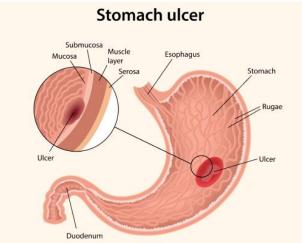
Phenolic Compounds Bind Molecularly to Heavy Metals to Prevent Absorption and Retention in Body Tissues



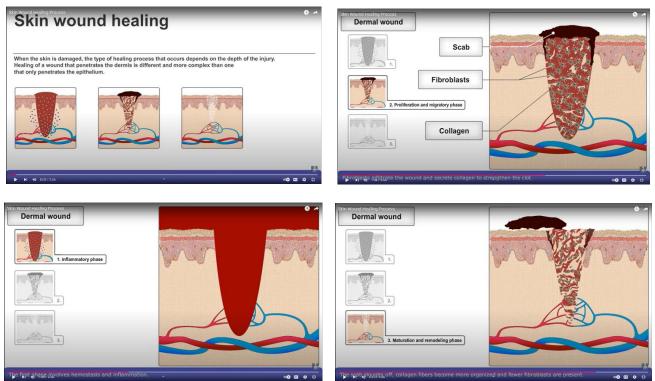
Xu, et al. Green Chemistry Letters and Reviews, 17(1). 2024 https://doi.org/10.1080/17518253.2024.2404235

 Chamomile, German, Flower (Matricaria recutita) Anti-inflammatory, antispasmodic. Improves liver, urinary bladder, kidney, gallbladder, digestive functions. Improves hypertension. Contains glycine, amino acid known to have a calming effect on nerves. Repairs ulcers, effective wound healing, skin lesions. Lowers cholesterol. 	 Phenolics – anti-infection properties; improve immune system functions, anti-allergies. Flavonoids - anti-mutagenic, antiangiogenic (stopping tumors from growing). Terpenoids – antioxidant, antimicrobial, anti-allergic, anticancer, anti-hypertensive.
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Phenolics, Flavonoids and Terpenoids in German Chamomile Are Effective in Healing Wounds



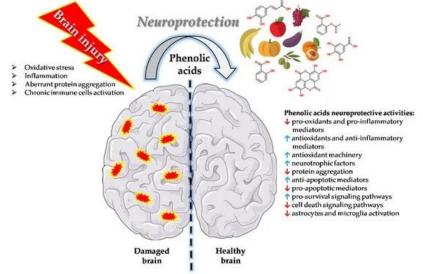
Care Hospitals 2024 https://www.carehospitals.com/blog-detail/stomach-ulcer/



Medical Animations - Skin Wound Healing Process https://youtu.be/MsQV6M7bHqQ?si=wKRROaNuPDkImrz8

Cinnamon Bark	 Cynnamaldehydes – prevent
Improves circulatory system.	cancer cell proliferation.
Pain relief.	 Proanthocyanidins, catechins,
 Antimicrobial (larvicidal, antifungal, anti-yeast, antibacterial, antiviral) Antioxidant, prevents tissue necrosis (death). Suppresses neurodegenerative diseases (COX2 inhibitor) Prevents plaques on nerve cells impairing brain functioning. 	 flavonoids – destroy damaging free radical molecules. Polyphenols – Insulin-like, lowers blood glucose and cholesterol.

Cynnamaldehydes, Proanthocyanidins, Catechins, Flavonoids, Polyphenols Aid Immune Protection Actions



Nutrients Journal - Caruso et al - 2022 https://www.mdpi.com/2072-6643/14/4/819

Terpenes, Sesquiterpenes -**Coriander Seed** • Stimulates bile flow for fats digestion. destroys food-borne illness • bacteria (Salmonella, Listeria, Essential oils important for growth, proper brain functioning. Staphylococcus, Serratia, Antioxidant, anti-free radicals. Enterobacter, Klebsiella, • Anti-diabetic, anti-hyperglycemic, improved insulin production. Pseudomonas, Escherichia). Reduces fats accumulations in blood vessels. • Carboxylic acids - detox toxic • Anti-anxiety. • metals (mercury, lead). Expels parasitic worms. Limonenes essential oils -• Relieves nausea. antioxidant, antimicrobial, brain functioning

THE LIVER DETOX PATHWAYS AND ESSENTIAL NUTRIENTS

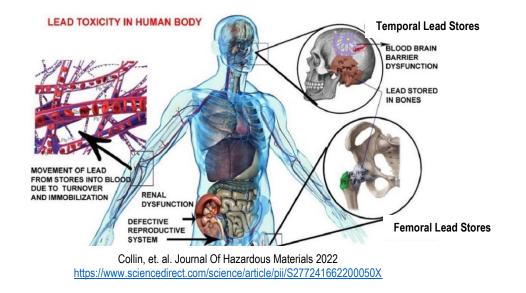


Cranberry

- Protects kidney functions, genitourinary tract, anti-inflammatory.
- Anti-bacterial prevents *E. coli* adhesion to uroepithelial cells in urinary tract.
- Prevents ulcerative *H. pylori* bacteria adhesion to stomach lining.
- Helps excrete radioactive substances, and heavy metals (lead, cobalt, cesium, strontium).
- Lowers cholesterol.
- Corrects immune system modulation of inflammatory enzyme COX-2.
- Phenolic acids, flavonoids, proanthocyanidins, anthocyanins – powerful anti-inflammatories.

•

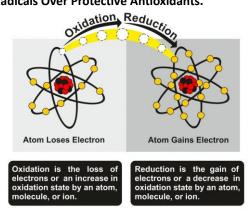
 Resveratrol – suppresses spread or proliferation of breast, colon, lung, prostate, leukemia tumors.



	Currant, Black	•	Pectins – normalizes cholesterol.
 Natu 	ral antibiotic, antibacterial actions.	•	Phytoncides – antibacterial,
• Anti-	amoebic, anti-fungal.		destroys Staphylococcus aureus,
• Impr	oves cognitive performance, slows cognitive decline in aging.		corneybacterium diphtheriae,
Antic	xidant, protects against oxidative stressors (free radicals).		Shigella. Destroys Entamoeba
Prote	ects against cardiovascular disease.		histolytica, amoeba that causes
Helps	s prevent elevated glucose and lipid levels.		dysentery.
-	ects intestinal malfunctions.	•	Anthocyanins, flavonoids – protect
Helps	s restore or improve liver functioning.		blood vessel and other cell walls
Helps	s improve respiratory tract conditions.		from oxidative damage.

Anthocyanins, Flavonoids, and Pectins Protect Against Oxidative Damage: Oxidative Stress: A Relative Dominance of Free Radicals Over Protective Antioxidants.

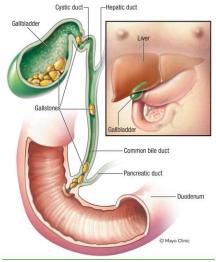




Science ABC - Udaix-Shutterstock 2024 https://www.scienceabc.com/pure-sciences/what-is-oxidation.html

Dandelion Root (Tarxacum officinale)	Lutein, zeaxanthin – anti-
Anti-viral, antifungal.	atherosclerosis, liver
Antituberculosis.	detoxification, anti-cirrhosis, anti-
Anti-carcinogenic.	inflammatory.
Anti-arthritis	
Helps maintain gallbladder functions.	
Gastrointestinal/digestive, insulin stimulant.	
Anti-inflammation.	
Modulates immune system.	
Protects gall bladder, kidney functions.	

Gallstones - Hardened Deposits of Bile (Digestive Fluid Produced in the Liver and Stored in the Gallbladder). During Digestion the Gallbladder Secretes Bile Into the Small Intestine (Duodenum).



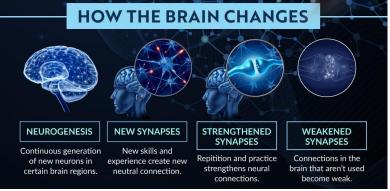
Mayo Clinic 2024 https://www.mayoclinic.org/diseases-conditions/gallstones/symptoms-causes/syc-20354214

Fenugreek

- Carminative reduces flatulence, eases constipation.
- Aids respiratory system against congestion, inflammation, infections, expectorating properties, clears congestion, relieves coughing, bronchitis, allergies.
- Assists in utilization of oxygen.
- Helps control blood sugar in both types of diabetes.
- Improves pancreatic function increasing insulin receptors in erythrocytes (red blood cells).
- Protects brain and nerve functions.

- Saponins, coumarins, genugreekine, - are antiinflammatory superoxide scavengers that prevent cancer.
- Plant steroidal saponins can reverse atherosclerosis, lower cholesterol, triglycerides.
- Trigonelline stimulates renewal of brain cells, improves nervous system functions.

The Brain Can Change Its Structure, Reorganize Itself (Neuroplasticity) Utilizing Phytonutrients Like Trigonelline



Jockers. https://drjockers.com/brain-regeneration/

Ginger Root

- Protects stomach lining, prevents intestinal parasites.
- Prevents fatty liver.
- Destroys bacteria, viruses, fungi, parasites.
- Anti-inflammatory, analgesic (pain relief), anti-arthritis, reduces swelling.
- Contributes essential fatty acids for cell membrane maintenance.
- Analgesic (pain killer).
- Rids respiratory system of phlegm, infections, colds, flu.
- Antioxidant, detoxifier of accumulated toxic wastes.
- Anticarcinogenic, chemopreventive.

Ginger Contains Choline, a Neurotransmitter

many proteins the body produces.
Choline – supports nerve, brain, muscle functions.

•

Asparagines – a component of

- Caprylic acid antimicrobial
- Silica essential for bones, tendons, aorta, kidneys, liver, hair, skin, nails.



Learn biology With Musawir - 2024 https://www.youtube.com/shorts/hxUH4ars4MQ

Grapefruit

- Antifungal, antibacterial, antiprotozoal, antiviral.
- Helps prevent strokes or heart attack; helps prevent clots or thrombi (mobilized clots).
- Antioxidant anti-inflammatory.
- Improves insulin resistance in metabolic syndrome health conditions.
- Flavonoids aids in glucose metabolism, pancreatic insulin function, antithrombotic.
- Flavonone -Actions are similar to insulin.
- Naringin prevents oxidative free radical scavenging molecules.

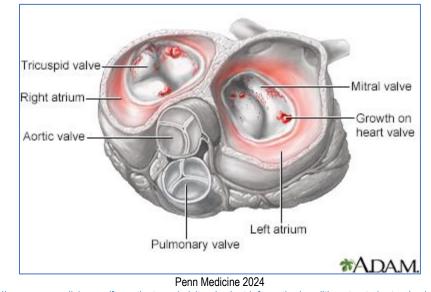
Grapefruit Contains Naringin, Which Helps Prevent Arterial Damage That May Result in Blood Clots, Creating Blockages



Blood Clot Symptoms & Signs - Michigan Foot Doctors - 2022 https://www.youtube.com/watch?v=n9mk86ItNr4

	Licorice Root	•	Triterpenoids, flavonoids –
•	Improves resistance to infectious diseases.		immunomodulatory.
•	Works to inhibit viruses: hepatitis C, HIV, viral myocarditis, influenza virus,	•	Saponins – Antiviral, antibacterial,
	herpes simplex type 1, rotavirus, syncytial virus.		anti-fungal.
•	Help destroy: Candida albicans yeast, antibiotic Methicillin-resistant	•	Isoflavones – help control
	bacteria Staphylococcus aureus.		diabetes.
•	Antitumor.	•	Liquiritigenin – reduces Staph
•	Anti-inflammatory.		bacteria exotoxin associated with
•	Helps regulate, modulate immune system actions.		endocarditis infection of the inner
•	Reduces toxins by life-threatening bacteria (pneumonia, skin infections).		lining of heart chambers or valves.

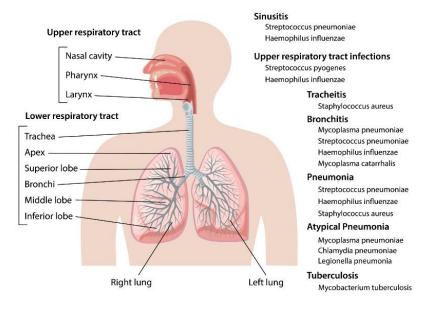
In Endocarditis, an Infection of Heart Chambers and Valves, the Phytochemical Liquiritigenin in Black Currant Reduces Populations of Various Bacteria: Staphylococcus aureus; Enterococcus; Streptococcus viridans; and the Fungus, Candida



https://www.pennmedicine.org/for-patients-and-visitors/patient-information/conditions-treated-a-to-z/endocarditis

Mandarin	• Flavonoids – potent antioxidants
Softens secretions in upper respiratory tract and bronchi.	that improve lifespan in the
Lowers risk of cancers of the gastrointestinal tract.	elderly.
Lowers risk of stroke, improves blood lipids.	Limonene essential oils – relieve
Antifungal, antiviral, antibacterial.	stress, elevate mood, aid nerve,
Prevents nerve spasms in muscle contractions.	brain functions; aid hormone
Helps remove toxins via colon and kidneys.	production.
• Helps maintain proper acid/alkaline balance in stomach, prevents ulcers.	Plant sterols – hormone
Aids digestion.	precursors.
Aids the immune system.	• Carotenoids – protect against free
,	radicals.

Respiratory Tract Infections Flavonoids, a Major Source of Antimicrobial Agents, Inhibit, Suppress, and Block Those Infectious Substances' Access to Our Cells

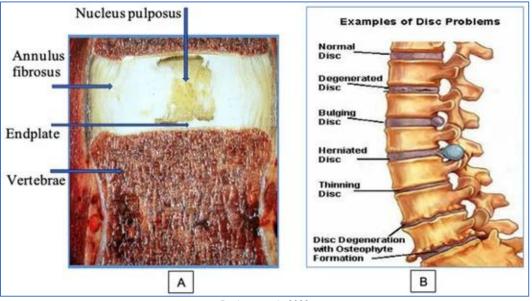


Patrick Daly, 2023

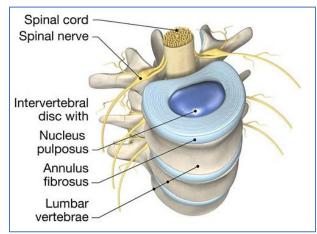
https://docwirenews.com/post/predicting-respiratory-tract-infection-after-immune-thrombocytopenia-diagnosis

 Papaya Helps regenerate vertebral disc connective tissues. Destroys intestinal parasites, antiviral, antifungal. Prevents high blood pressure (anti-hypertensive). Aids in wound healing, , normalizes blood clotting, reduces likelihood of 	 Papain – enzyme that breaks down protein (proteolytic enzyme). A great variety of antioxidant compounds – antimicrobial, antitumoral, protecting against
 scars. Helps detoxify the liver. Anti-inflammatory. 	cardiovascular events, anti-free radical.
 Helps prevent histamine reactions in the immune response. Heals great variety of skin conditions. Excellent digestive aid. 	

Papaya's Anti-inflammatory Proteolytic Enzyme Papain Breaks Down Abnormal Protein Structures and Reduces Inflammation



Baskov, et. al., 2022 https://www.mdpi.com/2076-3417/12/2/675



Body Plus Health, Kane Nurton, 2021 https://www.bphealth.com.au/post/spinal-disc-s-what-are-they-and-what-do-they-do

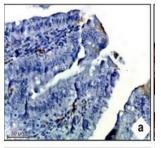
	Pumpkin Seed	•	Curcubitin – eliminates parasites
•	Maintains muscle memory and control.		(nontoxic to humans).
•	Aid in cell membrane signaling, lipid transport.	•	Carotenoids –
•	Important for protein synthesis, collagen formation.	•	Choline – precursor of
•	Aid immune system actions.		neurotransmitter acetylcholine.
•	Aids in wound healing.		
•	Aids in correct cell reproduction in synthesis of DNA and RNA.		
•	Eliminates parasites.		

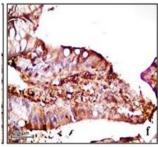
Pumpkin Seed's Curcubitin Plant Compound Protects the Small Intestine Epithelial Tissue Linings

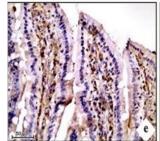
Uninfected

Infected With Trichinella spiralis P

Parasite Expulsion After Ingesting Pumpkin Seed Mush







Saleh et. al., Pumpkin seeds (Cucurbita pepo subsp. ovifera) decoction promotes *Trichinella spiralis* expulsion. *Scientific Reports*. 2024 <u>https://www.nature.com/articles/s41598-024-51616-4</u>

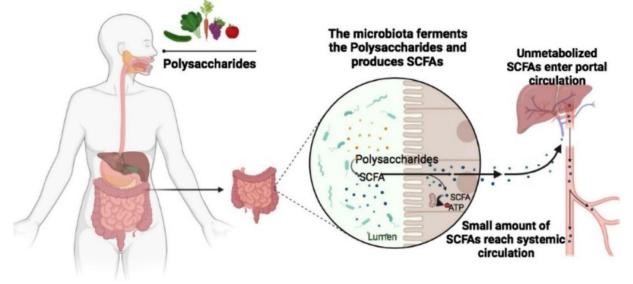
Intestinal Trichinella spiralis Infestation



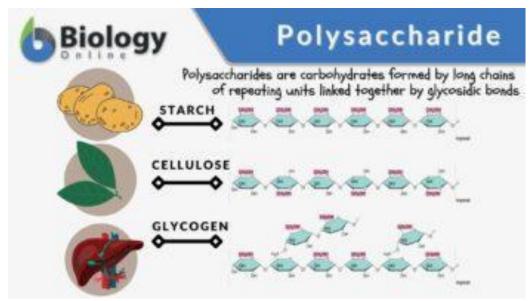
Getty Images-Kateryna Kon Science photo Library https://create.vista.com/photos/Trichinella/

Purple Coneflower (<i>Echinacea</i>)	Polysaccharides – aid in cell
 Purifies blood, kidneys, liver. Anti-inflammatory against infections of the respiratory, urinary systems. Anti-bacterial. Hormonal-regulating effects. Maintains proper reactions of pro-inflammatory cytokine proteins in nerve injuries and immediate inactivation of viruses and bacteria. 	 communications, cell membrane structures, and energy storage for fueling a diversity of biochemical processes. Glycoproteins – protein- carbohydrates that protect nerve cells and their myelin sheath. Flavonoids - aids in glucose metabolism, pancreatic insulin function, antithrombotic.

Polysaccharides – Complex Carbohydrates Forming Long Chains of Repeating Smaller Units of Saccharides or Sugars



Yu et al 2022 https://www.sciencedirect.com/science/article/pii/S1756464622002249

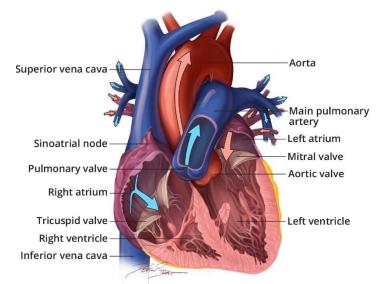


Biology Online https://www.biologyonline.com/dictionary/polysaccharide

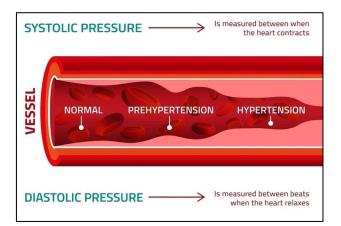
	Sweetie (Pomelo and White Grapefruit Hybrid)	٠	Polyphenolic flavonoid compounds
•	Effective against viral, flu, and respiratory infections.		 antihypertensive effects,
•	Boosts the immune system, efficient elimination of infectious organisms (bacteria, viruses).		reduction in diastolic blood pressure, antioxidants.
•	Normalizes blood pressure, prevents hypertension, swelling.	•	Flavonoids – anti-inflammatory
•	Improves cardiac function, blood vessel structures.		
•	Digestive aid.		
•	Restores liver and digestive tract functions.		
•	Decreases fibrinogens (micro proteins that form obstructive scarring		
	formed in abnormal blood clotting in anticoagulant actions.		
•	Can lower low-density lipoprotein (LDL) cholesterol levels.		

Polyphenolic Flavonoids and Their Antihypertension Effects on Heart Functions Systolic and Diastolic – Measuring Blood Pressure

- Systolic pressure maximum blood pressure during heart ventricle contraction.
- *Diastolic pressure* minimum pressure recorded just before the next contraction after the heart chamber fills with blood again.
- A greater risk of stroke and heart disease are associated with higher systolic pressures compared to higher diastolic pressures.
- "Normal" or healthy variations of measurements depend on age, levels of stress, lifestyle activities, and level of fitness (Brzezinski, 1990).



NIH National Heart, Lung, and Blood Institute 2022 https://internet-prod.nhlbi.nih.gov/health/heart/anatomy



News Medical Life Sciences - Shutterstock 2024 https://www.news-medical.net/health/What-Causes-High-Blood-Pressure.aspx

BLOOD PRESSURE CHART				
BLOOD PRESSURE CATEGORY	MAX mn	nHg MIN		
HIGH BLOOD PRESSURE - STAGE 4 HYPERTENSION - STAGE 4	ABOVE 210 ABOVE 120		HYPERSENSITIVE	
HIGH BLOOD PRESSURE - STAGE 3	<u>180</u>	<u>210</u>	CRISIS	
HYPERTENSION - STAGE 3	110	120		
HIGH BLOOD PRESSURE - STAGE 2	<u>160</u>	<u>179</u>		
HYPERTENSION - STAGE 2	100	109		
HIGH BLOOD PRESSURE - STAGE 1	<u>140</u>	<u>159</u>		
HYPERTENSION - STAGE 1	90	99		
PRE-HIGH BLOOD PRESSURE	<u>130</u>	<u>139</u>		
PRE-HYPERTENSION	85	89		
HIGH NORMAL BLOOD PRESSURE	<u>121</u> 81	<u>129</u> 84		
NORMAL BLOOD PRESSURE	<u>100</u>	<u>120</u>	NORMAL	
IDEAL BLOOD PRESSURE	65	80	BLOOD PRESSURE	
LOW NORMAL BLOOD PRESSURE	<u>90</u> 60	<u>99</u> 64		
LOW BLOOD PRESSURE	<u>70</u>	<u>89</u>		
MODERATE HYPOTENSION	40	59		
TOO LOW BLOOD PRESSURE	<u>50</u>	<u>69</u>	DANGEROUSLY LOW	
SEVERE HYPOTENSION	35	39		
EXTREMELY LOW BLOOD PRESSURE EXTREMELY SEVERE HYPOTENSION			BLOOD PRESSURE	
Jupiter Concierge Family Practice				

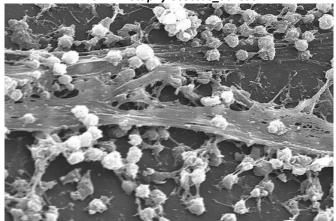
Jupiter Concierge Family Practice 2024 https://www.jupiterfamilypractice.com/what-is-a-good-blood-pressure/

Thyme Leaf	•	Polyphenols – antioxidants, prevent
Helps normalize blood pressure.		lipid peroxidation or formation of
• Effective against food-borne illness-causing <i>Pseudomonas, Salmonella, E.</i>		free radicals.
coli, Staph bacteria, and the overgrowth of the yeast, Candida albicans	•	Essential oils – destroy infectious
(cause of thrush).		microbials; prevents formation of
• Kills larvae of mosquito that carries West Nile virus, Yellow fever virus, St.		biofilm: essential oil effective
Louis encephalitis, dengue fever, Chikungunya fever.		against widespread foodborne
• Stimulates cancer cell self-destruction (apoptosis).		pathogens.: Staphylococcus_aureus,
Antifungal, disinfecting agent.		Salmonella enterica or
Corrects conditions in gastrointestinal tract.		enterica serovar, Typhimurium
Reduces inflammation in mouth and throat mucous membranes.		and Bacillus cereus.

Essential Oils Contain Polyphenols Which Prevent Biofilm, a Slimy, Glue-like Substance That Forms When Bacteria Adhere to Surfaces in Moist Environments



Alfred B. Cunningham – Biofilms - 2010 https://www.cs.montana.edu/webworks/projects/stevesbook/contents/chapters/chapter001/section002/black/page001.html



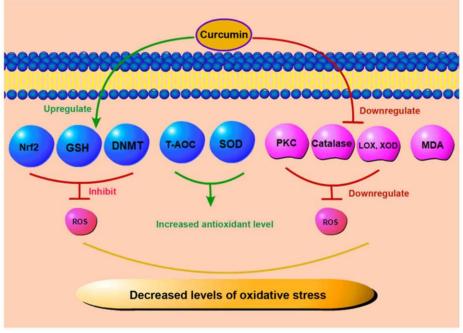
Biofilm - Staphylococcus_aureus

CDC - Rodney M. Donlan, Ph.D., Janice Carr 2005 Wikipedia

•	Turmeric Root Improves fats digestion and liver functions.	Curcuminoids – free radical neutralizers of synthetic
•	Reduces inflammatory cytokines that disrupt glucose metabolism, lessens insulin resistance allowing uptake of glucose out of the bloodstream. Aids immune system in reducing psychological stress responses. Reduces inflammation in conditions of osteoarthritis, cardiovascular disease. Exhibits cardio-protective anti-inflammatory properties preventing cardiac injuries, improving circulatory pathways while destroying/neutralizing free radicals.	 agricultural, industrial, and processed food chemicals. Essential oils and resins – protective of the brain environment, reversing age- related brain conditions
•	Prevents and improves neurodegenerative processes, prevents the formation of plaques in microcirculatory pathways in the brain, prevents shrinking of hippocampus (learning and memory). Strong antimicrobial.	
•	Blocks enzymes needed for cancer growth, prevents tumor development, destroys cancer cell cultures <i>in vitro</i> . Found to be effective against serious conditions in every body system.	

Anti-Inflammatory and Antioxidant Actions of Curcuminoids in Turmeric

- Increased production of antioxidant biochemicals (blue spheres) that inhibit the damaging free radical ROS (reactive oxygen species).
- Decreased ROS free radical biochemical damaging actions by reducing cell responsiveness under conditions of prolonged responses to stressors.



International Journal of Molecular Medicine 2021 https://www.spandidos-publications.com/10.3892/ijmm.2021.4908

Reference

Brzezinski WA. Blood Pressure. In: Walker HK, Hall WD, Hurst JW, editors. Clinical Methods: The History, Physical, and Laboratory Examinations. 3rd edition. Boston: Butterworths; 1990. Chapter 16. Available from: https://www.ncbi.nlm.nih.gov/books/NBK268/

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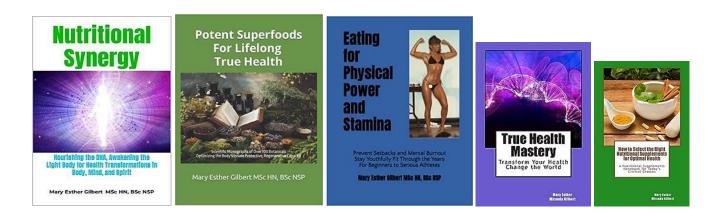
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