



ANTIBIOTICS

(USED TO TREAT **bacterial** INFECTIONS, INCLUDING LEPROSY AND TUBERCULOSIS)

COMMON EXAMPLES:

aminoglycosides (-mycin, -micin)

gentamicin – Cidomycin, Garamycin, and others

neomycin – Mycifradin, Neo-Fradin, Neo-Tabs

streptomycin

... and others

anti-tuberculars

ethambutol – Myambutol

isoniazid – INH and others

pyrazinamide – Tebrazid and others

rifampin – Rifadin and others

cephalosporins (five generations and counting)

chlorhexidine – Oro-Clense, Peridex and others

dapsone – DDS, Aczone, Avlosulfon, Dapsone

fluoroquinolones (-oxacin's)

ciprofloxacin – Cipro, Ciloxam, and others

levofloxacin – Iquix, Levaquin, Quixin

ofloxacin – Floxin, Ocuflox

... and others

furazolidine – Furoxon

linezolid – Zyvox

loracarbef – Lorabid

macrolides

azithromycin – Zithromax and others

clarithromycin – Biaxin

erythromycin – Apo-Erythro, Diomycin, E-Mycin, Erybid, and others

... and others

metronidazole – Apo-Metronidazole, Flagyl, Metro, Nidagel, and others

nitrofurantoin – Furadantin, Macrobid, Macrofantin, Nitro Macro, Urantoin

penicillins – amoxicillin, ampicillin, penicillin, and others

streptogramins (for VRSA)

sulfonamides (sulfa drugs)

sulfasalazine – Azulfidine and others used in Crohn’s or ulcerative colitis

sulfamethoxazole – Septra, Gantanol and others

tetracyclines (or any of the many **cyclines**)

trimethoprim – Proloprim

... and many more...

DEplete:

A, beta carotene, B1, B2, B3, B5, B6, B7, B8, B9, B12, C, D, E, K, PABA, glutathione/NAC, choline, calcium, copper, iron, magnesium, potassium, selenium, sodium, zinc, carnitine, good intestinal bacteria, CoQ10

⌘ **Antibiotics have no effect on viruses** so they should not be used for such infections as colds, flu, or most upper respiratory infections. They also have **no effect** on sinus infections since the majority of those are viral infections.

*Braglia: Research: Antibiotics Will Not Help Your Sinuses. GreenMedInfo newsletter 2012 Feb 21

*Garbutt et al: Amoxicillin for acute rhinosinusitis: a randomized controlled trial. JAMA 2012 Feb 15;307(7):685-92

*Nyquist et al: Antibiotic prescribing for children with colds, upper respiratory tract infections, and bronchitis. JAMA 1998 Mar 18;279(11):875-7

⌘ **Antibiotics** literally mean “against life”. They kill bacteria, both the bad that is causing an infection and the good that is needed for the immune and digestive systems. Therefore, taking a PRO-biotic (“for life”) is vital to rebuilding the immune system so that it can naturally fight off invaders - of the bacterial kind. (see more on Probiotics below)

⌘ **Antibiotics** promote obesity, especially in children.

*Mercola: This Commonly Used Drug Found to Promote Obesity. Nov 24, 2011

⌘ **Drug-resistant infections** are causing grave concern and for good reason. The main cause is over-use of antibiotics which have been found in meat, milk, and community water supplies. As a result, there is an increase in ‘superbugs’ – those that mutate and become antibiotic-resistant. Therefore, use antibiotics only when absolutely necessary and then replenish your system with the nutrients they destroy, especially PRObiotics.

SUGGESTED ALTERNATIVES:

Acacia gum, Arjuna, Clove, Cinnamon, and Eucalyptus have strong antimicrobial activity against several multi-strain resistant bacteria.

*Khan et al: Antimicrobial activity of five herbal extracts against multi drug resistant (MDR) strains of bacteria and fungus of clinical origin. Molecules 2009 Feb 4;14(2):586-97

Aloe vera has some anti-bacterial effects.

- *Ferro et al: In vitro susceptibilities of *Shigella flexneri* and *Streptococcus pyogenes* to inner gel of *Aloe barbadensis* Miller. *Antimicrob Agents Chemother* 2003 Mar;47(3):1137-9
- *Shilpakala et al: Susceptibilities of *Escherichia coli* and *Staphylococcus aureus* to *Aloe barbadensis*. *Cochrane Database Syst Rev* 2002(2):CD001480
- **Alpinia galanga*, a member of the ginger family, is effective against several drug-resistant bacteria.
- *Latha et al: Antiplasmid activity of 1'-acetoxychavicol acetate from *Alpinia galanga* against multi-drug resistant bacteria. *J Ethnopharmacol* 2009 Jun 25;123(3):522-5

Angelica (Dong quai) has significant anti-Tubercular activity.

- *Deng et al: Anti-TB polyynes from the roots of *Angelica sinensis*. *Phytother Res* 2005 Sep;19(9):733-9

Apples reduce the side effects caused by the cholera vaccine and with Hops, protects ligament cells in the mouth. Buy only organic apples as they are the #1 food that contains pesticides, many of which cause cancer.

- *Apples worst for pesticides on produce list. *CBC News*, Jun 14, 2011
- *DeNoon: Apples Are Top Food With Most Pesticides: 'Dirty Dozen' List Reveals Fruits/Veggies With Most Pesticides. *WebMD Health News* June 13, 2011
- *Inaba et al: Apple- and hop-polyphenols protect periodontal ligament cells stimulated with enamel matrix derivative from *Porphyromonas gingivalis*. *J Periodontol* 2005 Dec;76(12):2223-9
- *Shabecoff: 100 Chemicals for Apples Add Up to Enigma on Safety. *NY Times* Feb 5, 1989
- *The Full List: 53 Fruits and Veggies. *Environmental Working Group*. www.ewg.org/foodnews/list/
- *Yoshino et al: Co-administration of cholera toxin and apple polyphenol extract as a novel and safe mucosal adjuvant strategy. *Vaccine* 2009 Jul 30;27(35):4808-17

Astragalus is an herb that enhances the immune system in TB patients as well as children with recurring tonsillitis.

- *Xu et al: Effects of *Astragalus* polysaccharides and astragalosides on the phagocytosis of *Mycobacterium tuberculosis* by macrophages. *Biomed Res* 2011;32(1):19-28
- *Yang et al: Effects of *astragalus membranaceus* on TH cell subset function in children with recurrent tonsillitis. *Phytother Res* 1999 Jun;13(4):349-51

Avocado has antioxidant and anti-microbial effects.

- *Chia & Dykes: Antimicrobial activity of crude epicarp and seed extracts from mature avocado fruit (*Persea americana*) of three cultivars. *Pharm Biol* 2010 Jul;48(7):753-6
- *Rodríguez-Carpena et al: Avocado (*Persea americana* Mill.) phenolics, in vitro antioxidant and antimicrobial activities, and inhibition of lipid and protein oxidation in porcine patties. *J Agric Food Chem* 2011 May 25;59(10):5625-35

Bay leaf is effective against MRSA (Methicillin-resistant *Staphylococcus aureus*).

- *Otsuka et al: Anti-methicillin resistant *Staphylococcus aureus* (MRSA) compounds isolated from *Laurus nobilis*. *Biol Pharm Bull* 2008 Sep;31(9):1794-7

Bee propolis, including the potent Brazilian green bee propolis, is effective against MRSA and other bacterial strains and in preventing ear infections in children chronically prone to them.

- *Campana et al: Antimicrobial activity of two propolis samples against human *Campylobacter jejuni*. *J Med Food* 2009 Oct;12(5):1050-6
- *Leitão et al: Comparative evaluation of in-vitro effects of Brazilian green propolis and *Baccharis dracunculifolia* extracts on cariogenic factors of *Streptococcus mutans*. *Biol Pharm Bull* 2004 Nov;27(11):1834-9
- *Marchisio et al: Effectiveness of a propolis and zinc solution in preventing acute otitis media in children with a history of recurrent acute otitis media. *Int J Immunopathol Pharmacol* 2010 Apr-Jun;23(2):567-75

- *Raghukumar et al: Antimethicillin-resistant Staphylococcus aureus (MRSA) activity of 'pacific propolis' and isolated prenylflavonones. Aliment Pharmacol Ther 1998 Dec;12(12):1279-89
- *Ugur et al: Antimicrobial effects of propolis extracts on Escherichia coli and Staphylococcus aureus strains resistant to various antibiotics and some microorganisms. J Med Food 2000;3(4):173-80

Beetroot, Apple and Citrus pectins have anti-bacterial activity against the staphylococcal bacteria.

- *Fluer et al: Influence of various pectins on production of staphylococcal enterotoxins types A and B]. Zh Mikrobiol Epidemiol Immunobiol 2007 Nov-Dec(6):11-6

Berberine-containing plants (Barberry, Goldenseal, Goldenthrum, Oregon grape) are strong anti-microbials (against bacteria, viruses, fungi, protozoans, helminths, and chlamydia). They also have anti-cancer benefits.

- *Hwang et al: Antimicrobial constituents from goldenseal (the Rhizomes of Hydrastis canadensis) against selected oral pathogens. Planta Med 2003 Jul;69(7):623-7
- *Lin et al: In vitro anti-hepatoma activity of fifteen natural medicines from Canada. Altern Med Rev 2000 Apr;5(2):175-7
- *Mahady et al: In vitro susceptibility of Helicobacter pylori to isoquinoline alkaloids from Sanguinaria canadensis and Hydrastis canadensis. J Med Food 2007 Dec;10(4):694-701
- *Serafim et al: Different concentrations of berberine result in distinct cellular localization patterns and cell cycle effects in a melanoma cell line. Cancer Chemother Pharmacol 2008 May;61(6):1007-18

Beta Glucans are polysaccharides derived from oats, mushrooms, barley or yeasts. Beta glucans are particularly effective for priming and **normalizing** the immune system and protecting the body against a number of pathogenic bacteria.

- *Aviles et al: Active hexose correlated compound enhances resistance to Klebsiella pneumoniae infection in mice in the hindlimb-unloading model of spaceflight conditions. J Appl Physiol 2003 Aug;95(2):491-6
- *Kernodle et al: Prophylactic anti-infective activity of poly-(1-6)-beta-D-Glucopyranosyl-(1-3)-beta-D-glucopyranose glucan in a guinea pig model of Staphylococcal wound infection. Antimicrob Ag Chemother 1998;42:545-49
- *Lahnborg et al: The effect of glucan—a host resistance activator—and ampicillin on experimental intra-abdominal sepsis. J Reticuloendothel Soc 1982;32:347-53
- *Rasmussen et al: Killing of Escherichia coli by mononuclear phagocytes and neutrophils stimulated in vitro with beta-1, 3-D-polyglucose derivatives. Microbiol Immunol 1992;36(11):1173-88
- *Rasmussen & Seljelid: Dynamics of blood components and peritoneal fluid during treatment of murine E. coli sepsis with beta-1, 3-D-polyglucose derivatives. I: Cells. Scand J Immunol 1990 Oct;32(4):321-31
- *Rasmussen & Seljelid: Dynamics of blood components and peritoneal fluid during treatment of murine E. coli sepsis with beta-1, 3-D-polyglucose derivatives. II. Interleukin 1, tumor necrosis factor, prostaglandin E2 and leukotriene B4, Scand J Immunol 1990 Oct;32(4):333-40
- *Rasmussen et al: Dynamics of blood components and peritoneal fluid during treatment of murine E. coli sepsis with beta-1, 3-D-polyglucose derivatives. Scand J Immunol 1985;63:73-80
- *Williams & Diluzio: Glucan induced modification of experimental Staphylococcus aureus infection in normal, leukemic and immunosuppressed mice. Adv Exp Med Biol 1979;121(A):291-306

Black Cumin Seed is an effective anti-bacterial against MRSA.

- *Hannan et al: Anti bacterial activity of Nigella sativa against clinical isolates of methicillin resistant Staphylococcus aureus. J Ayub Med Coll Abbottabad 2008 Jul-Sep;20(3):72-4

Capsaicin, from hot peppers, is effective against the cholera bacterium.

- *Chatterjee et al: Capsaicin, a potential inhibitor of cholera toxin production in Vibrio cholerae. FEMS Microbiol Lett 2010 May;306(1):54-60

Carotenoids, from red, yellow, orange and dark green fruits and vegetables) are effective against a variety of drug-resistant bacteria including *H. Pylori*, often blamed for causing stomach ulcers.

*Molnár et al: Biological activity of carotenoids in red paprika, Valencia orange and Golden delicious apple. *Phytother Res* 2005 Aug;19(8):700-7

Catnip is an herb that is effective against *Staphylococcus aureus*.

*Nostro et al: The effect of *Nepeta cataria* extract on adherence and enzyme production of *Staphylococcus aureus*. *Int J Antimicrob Agents* 2001 Dec;18(6):583-5

Cat's Claw is an herb that boosts the immune system but it also has antibacterial activity.

*Ccahuana-Vasquez et al: Antimicrobial activity of *Uncaria tomentosa* against oral human pathogens. *Braz Oral Res* 2007 Jan-Mar;21(1):46-50

*Eberlin et al: *Uncaria tomentosa* extract increases the number of myeloid progenitor cells in the bone marrow of mice infected with *Listeria monocytogenes*. *Int Immunopharmacol* 2005 Jul;5(7-8):1235-46

Cinnamon and **Oregano** are effective against antibiotic-resistant *Campylobacter*.

*Ravishankar et al: Plant-derived compounds inactivate antibiotic-resistant *Campylobacter jejuni* strains. *J Food Prot* 2008 Jun;71(6):1145-9

Clove inhibits various bacteria and other pathogens.

*Bhamarapravati et al: Extracts of spice and food plants from Thai traditional medicine inhibit the growth of the human carcinogen *Helicobacter pylori*. *Indian J Ophthalmol* 2009 May-Jun;57(3):185-9

*Wu et al: Compounds from *Syzygium aromaticum* possessing growth inhibitory activity against oral pathogens. *J Nat Prod* 1996 Oct;59(10):987-90

Clove, Guava and **Lemongrass** increase effects of antimicrobial drugs.

*Betoni et al: Synergism between plant extract and antimicrobial drugs used on *Staphylococcus aureus* diseases. *Mem Inst Oswaldo Cruz* 2006 Jun;101(4):387-90

Clove and **Holy Basil** protect the body against *Klebsiella* bacteria.

*Saini et al: Induction of resistance to respiratory tract infection with *Klebsiella pneumoniae* in mice fed on a diet supplemented with tulsi (*Ocimum sanctum*) and clove (*Syzygium aromaticum*) oils. *J Microbiol Immunol Infect* 2009 Apr;42(2):107-13

Coconut water has antimicrobial effects.

*Mandal et al: Identification and structural insights of three novel antimicrobial peptides isolated from green coconut water. *Peptides* 2009 Apr;30(4):633-7

Colloidal Silver inhibits several drug-resistant strains of bacteria including *Pseudomonas aeruginosa* and *Aeromonas hydrophilia* in tap water, possibly replacing the need for chlorine.

*Bhattacharyya & Bradley: A case report of the use of nanocrystalline silver dressing in the management of acute surgical site wound infected with MRSA to prevent cutaneous necrosis following revision surgery. *Int J Low Extrem Wounds* 2008 Mar;7(1):45-8

*Edwards-Jones: Antimicrobial and barrier effects of silver against methicillin-resistant *Staphylococcus aureus*. *J Wound Care* 2006 Jul;15(7):285-90

*Panacek et al: Silver colloid nanoparticles: synthesis, characterization, and their antibacterial activity. *J Phys Chem B* 2006 Aug 24;110(33):16248-53

*Silvestry-Rodriguez et al: Inactivation of *Pseudomonas aeruginosa* and *Aeromonas hydrophila* by silver in tap water. *J Environ Sci Health A Tox Hazard Subst Environ Eng* 2007 Sep;42(11):1579-84

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