

Bacterial Infections

REFERENCES

- Alberts D, Ranger-Moore J, et al. Safety and efficacy of dose-intensive oral vitamin A in subjects with sun-damaged skin. *Clin Cancer Res*. 2004 Mar 15;10(6):1875-80.
- Amsden GW. Pneumococcal resistance in perspective: how well are we combating it? *Pediatr Infect Dis J*. 2004;23(suppl 2):125-8.
- Andreeva P, Dimitrov A. The probiotic *Lactobacillus acidophilus*: an alternative treatment of bacterial vaginosis. *Akush Ginekol (Sofia)*. 2002;41(6):29-31.
- Ankri S, Mirelman D. Antimicrobial properties of allicin from garlic. *Microbes Infect*. 1999;1(2):125-9.
- Apfalter P. MRSA/MRSE-VISA/GISA/VRSA-PRP-VRE: current gram positive problem bacteria and mechanism of resistance, prevalence and clinical consequences. *Wien Med Wochenschr*. 2003;153(7-8):144-7.
- Arakawa H, Maeda M, et al. Role of hydrogen peroxide in bactericidal action of catechin. *Biol Pharm Bull*. 2004 Mar;27(3):277-81.
- Archer GL, Polk RE. Treatment and prophylaxis of bacterial infections. In: Kasper DL, Braunwald E, et al, eds. *Harrison's Principles of Internal Medicine*. 16th ed. New York, NY: McGraw-Hill; 2004.
- Aukrust P, Muller F, et al. Decreased vitamin A levels in common variable immunodeficiency: vitamin A supplementation in vivo enhances immunoglobulin production and downregulates inflammatory responses. *Eur J Clin Invest*. 2000;30(3):252-9.
- Austin DJ, Bonten MJ, et al. Vancomycin-resistant enterococci in intensive-care hospital settings: transmission dynamics, persistence, and the impact of infection control programs. *Proc Natl Acad Sci U S A*. 1999;96(12):6908-13.
- Baggett HC, Hennessy TW, et al. Community-onset methicillin-resistant *Staphylococcus aureus* associated with antibiotic use and the cytotoxin Panton-Valentine leukocidin during a furunculosis outbreak in rural Alaska. *J Infect Dis*. 2004 May 1;189(9):1565-73.
- Baldi A, Ioannis P, et al. Biological effects of milk proteins and their peptides with emphasis on those related to the gastrointestinal ecosystem. *J Dairy Res*. 2005;72 Spec No:66-72.
- Balentine DA, Albano MC, et al. Role of medicinal plants, herbs, and spices in protecting human health. *Nutr Rev*. 1999;57(pt 2):41-5.
- Barie PS. Antibiotic-resistant gram-positive cocci: implications for surgical practice. *World J Surg*. 1998;22(2):118-26.
- Barringer TA, Kirk JK, et al. Effect of a multivitamin and mineral supplement on infection and quality of life: a randomized, double-blind, placebo-controlled trial. *Ann Intern Med*. 2003;138(5):365-71.
- Basso D, Plebani M. H. pylori infection: bacterial virulence factors and cytokine gene polymorphisms as determinants of infection outcome. *Crit Rev Clin Lab Sci*. 2004;41(3):313-7.
- Bengmark S. Ecological control of the gastrointestinal tract: the role of probiotic flora. *Gut*. 1998;42(1):2-7.
- Bentley DR. The Human Genome Project: an overview. *Med Res Rev*. 2000;20(3):189-96.
- Bhaskaram P. Immunobiology of mild micronutrient deficiencies. *Br J Nutr*. 2001;85(suppl 2):75-80.
- Bistrrian BR. Practical recommendations for immune-enhancing diets. *J Nutr*. 2004 Oct;134(suppl 10):2868S-2878S.
- Bogden JD. Influence of zinc on immunity in the elderly. *J Nutr Health Aging*. 2004;8(1):48-54.

- Bonten MJ, Willems R, et al. Vancomycin-resistant enterococci: why are they here, and where do they come from? *Lancet Infect Dis* . 2001 Dec;1(5):314-25.
- Borer A, Gilad J, et al. Community-acquired methicillin-resistant *Staphylococcus aureus* in institutionalized adults with developmental disabilities. *Emerg Infect Dis* . 2002;8(9):966-70.
- Boyanova L, Derejian S, et al. Inhibition of *Helicobacter pylori* growth in vitro by Bulgarian propolis: preliminary report. *J Med Microbiol* . 2003 May;52(pt 5):417-9.
- Briend A. Vitamin A and diarrhoea: reducing the risk? *Dialogue Diarrhoea* . 1988 Jun;33:4-5.
- Brunser O. Effects of malnutrition on intestinal structure and function in children. *Clin Gastroenterol* . 1977;6(2):341-53.
- Bukowski JF, Morita CT , et al. Human gamma delta T cells recognize alkylamines derived from microbes, edible plants, and tea: implications for innate immunity. *Immunity* . 1999 Jul;11(1):57-65.
- Butzler JP. *Campylobacter*, from obscurity to celebrity. *Clin Microbiol Infect* . 2004 Oct;10(10):868-76.
- Calder PC, Kew S. The immune system: a target for functional foods? *Br J Nutr* . 2002;88(suppl 2):165-77.
- Cariou A, Chiche JD, et al. The era of genomics: impact on sepsis clinical trial design. *Crit Care Med*. 2002 May;30(suppl 5):S341-S348.
- Carson CF, Riley TV. Non-antibiotic therapies for infectious diseases. *Commun Dis Intell* . 2003;27(suppl):S143-S146.
- Chandra RK. Effect of vitamin and trace-element supplementation on immune responses and infection in elderly subjects. *Lancet* . 1992a;340(8828):1124-7.
- Chandra RK. Impact of nutritional status and nutrient supplements on immune responses and incidence of infection in older individuals. *Ageing Res Rev* . 2004;3(1):91-104.
- Chandra RK. Nutritional regulation of immunity and risk of illness. *Indian J Pediatr* . 1989;56(5):607-11.
- Chandra RK. Nutrition and immunology: from the clinic to cellular biology and back again. *Proc Nutr Soc* . 1999;58(3):681-3.
- Chandra RK. Nutrition and immunoregulation: significance for host resistance to tumors and infectious diseases in humans and rodents. *J Nutr* . 1992b;122(suppl 3):754-7.
- Chandra RK. Nutrition and the immune system from birth to old age. *Eur J Clin Nutr* . 2002;56(suppl 3):73-6.
- Chrubasik S, Pittler MH, et al. *Zingiberis rhizoma*: a comprehensive review on the ginger effect and efficacy profiles. *Phytomedicine*. 2005 Sep;12(9):684-701.
- Chung JG. Inhibitory actions of glycyrrhizic acid on arylamine N-acetyltransferase activity in strains of *Helicobacter pylori* from peptic ulcer patients. *Drug Chem Toxicol* . 1998 Aug;21(3):355-70.
- Conte JE Jr. *Manual of Antibiotics and Infectious Diseases: Treatment and Prevention* . 9th ed . Philadelphia , Pa : Lippincott Williams & Wilkins; 2002.
- Craig W, Beck L. Phytochemicals: health protective effects. *Can J Diet Pract Res* . 1999;60(2):78-84.
- Craig WJ. Health-promoting properties of common herbs. *Am J Clin Nutr* . 1999;70(suppl 3):491S-499S.
- Craig WJ. Phytochemicals: guardians of our health. *J Am Diet Assoc* . 1997;97(suppl 2):199-204.
- Cremonini F, Canducci F, et al. *Helicobacter pylori* treatment: a role for probiotics? *Dig Dis* . 2001;19(2):144-7.
- Cuevas LE, Koyanagi A. Zinc and infection: a review. *Ann Trop Paediatr* . 2005 Sep;25(3):149-60.

Cui D, Moldoveanu Z, et al. High-level dietary vitamin A enhances T-helper type 2 cytokine production and secretory immunoglobulin A response to influenza A virus infection in BALB/c mice. *J Nutr* . 2000 May;130(5):1132-9.

Cunningham-Rundles S, Ahrne S, et al. Probiotics and immune response. *Am J Gastroenterol* . 2000;95(suppl 1):22-5.

Cutler RR, Wilson P. Antibacterial activity of a new, stable, aqueous extract of allicin against methicillin-resistant *Staphylococcus aureus*. *Br J Biomed Sci* . 2004;61(2):71-4.

Dadalioglu I, Evrendilek GA. Chemical compositions and antibacterial effects of essential oils of Turkish oregano, bay laurel, Spanish lavender, and fennel on common foodborne pathogens. *J Agric Food Chem* . 2004 Dec 29;52(26):8255-60.

Dai G, Phalen S, et al. Nutritional modulation of host responses to mycobacteria. *Front Biosci* . 1998;3:110-22.

Dani C, Biadaioli R, et al. Probiotics feeding in prevention of urinary tract infection, bacterial sepsis and necrotizing enterocolitis in preterm infants: a prospective double-blind study. *Biol Neonate* . 2002;82(2):103-8.

Dikasso D, Lemma H, et al. Investigation on the antibacterial properties of garlic on pneumonia-causing bacteria. *Ethiop Med J* . 2002 Jul;40(3):241-9.

Dobrowolski JW, Vohora SB, et al. Antibacterial, antifungal, antiamebic, anti-inflammatory and antipyretic studies on propolis bee products. *J Ethnopharmacol* . 1991;35(1):77-82.

Domin MA. Highly virulent pathogens: a post antibiotic era? *Br J Theatre Nurs* . 1998;8(2):14-8.

Drouin E. *Helicobacter pylori*: novel therapies. *Can J Gastroenterol* . 1999;13(7):581-3.

Echave P, Bille J, et al. Percentage, bacterial etiology and antibiotic susceptibility of acute respiratory infection and pneumonia among children in rural Senegal . *J Trop Pediatr* . 2003;49(1):28-32.

Engwerda CR, Andrew D, et al. Bromelain modulates T cell and B cell immune responses in vitro and in vivo. *Cell Immunol* . 2001 May 25;210(1):66-75.

Faleiro L, Miguel G, et al. Antibacterial and antioxidant activities of essential oils isolated from *Thymbra capitata* L (Car.) and *Origanum vulgare* L. *J Agric Food Chem* . 2005 Oct 19;53(21):8162-8.

Felley C, Michetti P. Probiotics and *Helicobacter pylori*. *Best Pract Res Clin Gastroenterol* . 2003;17(5):785-91.

Flaherty JP, Weinstein RA. Nosocomial infection caused by antibiotic-resistant organisms in the intensive-care unit. *Infect Control Hosp Epidemiol* . 1996;17(4):236-48.

Fleet JC. New support for a folk remedy: cranberry juice reduces bacteriuria and pyuria in elderly women. *Nutr Rev* . 1994;52(5):168-70.

Fleischmann RD , Alland D, et al. Whole-genome comparison of *Mycobacterium tuberculosis* clinical and laboratory strains. *J Bacteriol* . 2002;184(19):5479-90.

Fontaine O. Dealing with diarrhoea. *Child Health Dialogue* . 1996;(3-4):5.

Fooks LJ, Gibson GR. Probiotics as modulators of the gut flora. *Br J Nutr* . 2002;88(suppl 1):39-49.

Garcia Ordonez MA, Alvarez Hurtado F, et al. Community-acquired bacteremic pneumonia in the elderly. *An Med Interna* . 1999 Jul;16(7):345-8.

Gelfand JA. Infections in burn patients: a paradigm for cutaneous infection in the patient at risk. *Am J Med* . 1984 May 15;76(5A):158-65.

Go MF. Review article: natural history and epidemiology of *Helicobacter pylori* infection. *Aliment Pharmacol Ther* . 2002;16(suppl 1):3-15.

Gold HS, Eisenstein BI. Introduction to bacterial diseases. In: Mandell GL, Bennett JE, et al, eds. *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases* . 5th ed. Philadelphia, Pa : Churchill Livingstone; 2000.

Goldmann DA, Weinstein RA, et al. Strategies to prevent and control the emergence and spread of antimicrobial-resistant microorganisms in hospitals: a challenge to hospital leadership. *JAMA* . 1996;275(3):234-40.

Goldmann O, Chhatwal GS, et al. Immune mechanisms underlying host susceptibility to infection with group A streptococci. *J Infect Dis* . 2003;187(5):854-61.

Grange JM, Davey RW. Antibacterial properties of propolis (bee glue). *J R Soc Med* . 1990;83(3):159-60.

Griffiths EA, Duffy LC, et al. In vitro growth responses of bifidobacteria and enteropathogens to bovine and human lactoferrin. *Dig Dis Sci* . 2003 Jul;48(7). 1324-32.

Guarner F, Malagelada JR. Gut flora in health and disease. *Lancet* . 2003;361(9356):512-9.

Guerrant RL, Lima AA, et al. Micronutrients and infection: interactions and implications with enteric and other infections and future priorities. *J Infect Dis* . 2000;182(suppl 1):134-8.

Harris JC, Cottrell SL, et al. Antimicrobial properties of *Allium sativum* (garlic). *Appl Microbiol Biotechnol* . 2001;57(3):282-6.

Haversen LA, Engberg I, et al. Human lactoferrin and peptides derived from a surface-exposed helical region reduce experimental *Escherichia coli* urinary tract infection in mice. *Infect Immun* . 2000;68(10):5816-23.

Hedlund J. Community-acquired pneumonia requiring hospitalization: factors of importance for the short- and long-term prognosis. *Scand J Infect Dis Suppl* . 1995;97:1-60.

Hill AV. Human genetics and infection. In: Mandell GL, Bennett JE, et al, eds. *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases* . 5th ed. Philadelphia, Pa : Churchill Livingstone; 2000.

Howard BJ, Keisser JF, et al. *Clinical and Pathogenic Microbiology* . 2nd ed. St. Louis, Mo : Mosby; 1994.

Jacobs MR. Drug-resistant *Streptococcus pneumoniae*: rational antibiotic choices. *Am J Med* . 1999;106(5A):19S-25S.

Johnson-Henry KC, Mitchell DJ, et al. Probiotics reduce bacterial colonization and gastric inflammation in *H. pylori*-infected mice. *Dig Dis Sci* . 2004 Aug;49(7-8):1095-1102.

Jonkers D, van den Broek E, et al. Antibacterial effect of garlic and omeprazole on *Helicobacter pylori*. *J Antimicrob Chemother* . 1999;43(6):837-9.

Kamath AB, Wang L, et al. Antigens in tea-beverage prime human Vgamma 2Vdelta 2 T cells in vitro and in vivo for memory and nonmemory antibacterial cytokine responses. *Proc Natl Acad Sci U S A* . 2003 May 13;100(10):6009-14.

Kasper DL, Braunwald E, et al, eds. *Harrison's Principles of Internal Medicine* . 16th ed. New York, NY : McGraw-Hill; 2004.

Kontiokari T, Laitinen J, et al. Dietary factors protecting women from urinary tract infection. *Am J Clin Nutr* . 2003;77(3):600-4.

Kontiokari T, Sundqvist K, et al. Randomised trial of cranberry-lingonberry juice and *Lactobacillus GG* drink for the prevention of urinary tract infections in women. *BMJ* . 2001 Jun 30;322(7302):1571.

Krausse R, Bielenberg J, et al. In vitro anti-*Helicobacter pylori* activity of *Extractum liquiritiae*, glycyrrhizin and its metabolites. *J Antimicrob Chemother* . 2004 Jul;54(1):243-6.

Kuwata H, Yip TT, et al. Bactericidal domain of lactoferrin: detection, quantitation, and characterization of lactoferricin in serum by SELDI affinity mass spectrometry. *Biochem Biophys Res Commun* . 1998 Apr;245(3):764-73.

Lampe JW. Health effects of vegetables and fruit: assessing mechanisms of action in human experimental studies. *Am J Clin Nutr* . 1999;70(suppl 3):475S-490S.

Lee YS, Han CH, et al. Synergistic effect between catechin and ciprofloxacin on chronic bacterial prostatitis rat model. *Int J Urol*.

Leibovitz E, Greenberg D. Acute otitis media in children: current epidemiology, microbiology, clinical manifestations, and treatment. *Chang Gung Med J* . 2004;27(7):475-88.

Leitch EC, Willcox MD. Lactoferrin-induced reduction of vanB vancomycin resistance in enterococci. *Int J Antimicrob Agents*. 2001 Oct;18(4):399-402.

Levin AS, Levy CE, et al. Severe nosocomial infections with imipenem-resistant *Acinetobacter baumannii* treated with ampicillin/sulbactam. *Int J Antimicrob Agents* . 2003 Jan;21(1):58-62.

Lobacheva T, Sazhin V, et al. Pulmonary tuberculosis in two remand prisons (SIZOs) in St Petersburg, Russia. *Euro Surveill* . 2005 Jun;10(6):93-6. Free full text at: <http://www.eurosurveillance.org/em/v10n06/1006-223.asp>

Lusby PE, Coombes A, et al. Honey: a potent agent for wound healing? *J Wound Ostomy Continence Nurs* . 2002;29(6):295-300.

MacKay D, Miller AL. Nutritional support for wound healing. *Altern Med Rev* . 2003 Nov;8(4):359-77.

Madoff LC, Kasper DL. Introduction to infectious disease: host-pathogen interactions. In: Kasper DL, Braunwald E, et al, eds. *Harrison's Principles of Internal Medicine* . 16th ed. New York, NY : McGraw-Hill; 2004.

Maeyama R, Kwon IK, et al. Novel bactericidal surface: catechin-loaded surface-erodible polymer prevents biofilm formation. *J Biomed Mater Res A*. 2005 Oct 1;75(1)146-55.

Malone DL, Genuit T, et al. Surgical site infections: reanalysis of risk factors. *J Surg Res* . 2002;103(1):89-95.

Marignani M, Angeletti S, et al. Acute infectious diarrhea. *N Engl J Med* . 2004;350(15):1576-7.

Marino M, Bersani C, et al. Antimicrobial activity of the essential oils of *Thymus vulgaris* L. measured using a bioimpedometric method. *J Food Prot* . 1999 Sep;62(9):1017-23.

Mascolo N, Jain R, et al. Ethnopharmacologic investigation of ginger (*Zingiber officinale*). *J Ethnopharmacol* . 1989 Nov;27(1-2):129-40.

Meydani SN, Erickson KL. Nutrients as regulators of immune function: introduction. *Faseb J* . 2001 Dec;15(14):2555.

Miorin PL, Levy Junior NC, et al. Antibacterial activity of honey and propolis from *Apis mellifera* and *Tetragonisca angustula* against *Staphylococcus aureus*. *J Appl Microbiol* . 2003;95(5):913-20.

Molan PC. Re-introducing honey in the management of wounds and ulcers: theory and practice. *Ostomy Wound Manage* . 2002;48(11):28-40.

Molina EL, Patel JA. A to Z: vitamin A and zinc, the miracle duo. *Indian J Pediatr* . 1996;63(4):427-31.

Moore JE, Corcoran D, et al. *Campylobacter*. *Vet Res*. 2005 May-Jun;36(3):351-82.

Murray MT, Pizzorno JE. *Encyclopedia of Natural Medicine* . 2nd ed. New York, NY : Three Rivers Press; 1997.

Murray PR, Rosenthal KS, et al. *Medical Microbiology* . 3rd ed. St. Louis, Mo : Mosby; 1998.

Mynott TL, Guandalini S, et al. Bromelain prevents secretion caused by *Vibrio cholerae* and *Escherichia coli* enterotoxins in rabbit ileum in vitro. *Gastroenterology*. 1997 Jul;113(1):175-84.

Mynott TL, Luke RK, et al. Oral administration of protease inhibits enterotoxigenic *Escherichia coli* receptor activity in piglet small intestine. *Gut*. 1996 Jan;38(1):28-32.

National Institutes of Health (NIH). Accessed November 23, 2005. Available at: <http://ods.od.nih.gov/factsheets/vitaminb6.asp>

Nikolaev AA, Boiko OV, et al. Ejaculate microflora sensitivity to lactoferrin in chronic prostatitis. *Urologija* . 2004 Sep-Oct;5:37-9.

O'Brien KL, Beall B, et al. Epidemiology of invasive group A streptococcus disease in the United States : 1995-1999. *Clin Infect Dis* . 2002 Aug 1;35(3):268-76.

Ochmanski W, Barabasz W. Probiotics and their therapeutic properties. *Przegl Lek* . 1999;56(3):211-5.

O'Hara M, Kiefer D, et al. A review of 12 commonly used medicinal herbs. *Arch Fam Med* . 1998;7(6):523-36.

Perdigon G, Alvarez S, et al. Immune system stimulation by probiotics. *J Dairy Sci* . 1995;78(7):1597-606.

Petrosillo N, Pantosti A, et al. Prevalence, determinants, and molecular epidemiology of *Streptococcus pneumoniae* isolates colonizing the nasopharynx of healthy children in Rome . *Eur J Clin Microbiol Infect Dis* . 2002;21(3):181-8.

Preuss HG, Echard B, et al. Minimum inhibitory concentrations of herbal essential oils and monolaurin for gram-positive and gram-negative bacteria. *Mol Cell Biochem*. 2005 Apr;272(1-2):29-34.

Pugliese PT, Jordan K, et al. Some biological actions of alkylglycerols from shark liver oil. *J Altern Complement Med* . 1998;4(1):87-99.

Reid G, Burton J. Use of *Lactobacillus* to prevent infection by pathogenic bacteria. *Microbes Infect* . 2002;4(3):319-24.

Reid G. Probiotics for urogenital health. *Nutr Clin Care* . 2002;5(1):3-8.

Reinert P. Infections in malnourished infants and children. *Dev Sante* . 1993;103:4-6.

Robinson KA, Baughman W, et al. Epidemiology of invasive *Streptococcus pneumoniae* infections in the United States, 1995-1998: opportunities for prevention in the conjugate vaccine era. *JAMA* . 2001;285(13):1729-35.

Roden DM. Principles of clinical pharmacology. In: Kasper DL, Braunwald E, et al, eds. *Harrison's Principles of Internal Medicine* . 16th ed. New York , NY : McGraw-Hill; 2004.

Sack RB, Froehlich JL. Berberine inhibits intestinal secretory response of *Vibrio cholerae* and *Escherichia coli* enterotoxins. *Infect Immun* . 1982;35(2):471-5.

Scrimshaw NS. Historical concepts of interactions, synergism and antagonism between nutrition and infection. *J Nutr* . 2003 Jan;133(1):316S-321S.

Scrimshaw NS, SanGiovanni JP. Synergism of nutrition, infection, and immunity: an overview. *Am J Clin Nutr* . 1997 Aug;66(2):464S-477S.

Shi HN, Walker A. Bacterial colonization and the development of intestinal defences. *Can J Gastroenterol* . 2004 Aug;18(8):493-500.

Sivam GP. Protection against *Helicobacter pylori* and other bacterial infections by garlic. *J Nutr*. 2001 Mar;131(3s):1106S-1108S.

Skamene E. Population and molecular genetics of susceptibility to tuberculosis. *Clin Invest Med* . 1991;14(2):160-6.

Sovova M, Sova P. Pharmaceutical importance of *Allium sativum* L, II: antibacterial effects. *Ceska Slov Farm* . 2002 Jan;51(1):11-6.

Stefanidou M, Maravelias C, et al. Zinc: a multipurpose trace element. *Arch Toxicol*. 2005 Sep 27;1-9.

Stormer FC, Reistad R, et al. Glycyrrhizic acid in liquorice: evaluation of health hazard. *Food Chem Toxicol*. 1993 Apr;31(4):303-12.

Sun D, Abraham SN, et al. Influence of berberine sulfate on synthesis and expression of Pap fimbrial adhesin in uropathogenic *Escherichia coli*. *Antimicrob Agents Chemother* . 1988 Aug;32(8):1274-7.

Takkinen J, Ammon A. The 11th International Workshop of *Campylobacter*, *Helicobacter* and Related Organisms (CHRO): 2001. *Euro Surveill*. 2003 Nov;8(11):219-22.

Tasota FJ, Fisher EM, et al. Protecting ICU patients from nosocomial infections: practical measures for favorable outcomes. *Crit Care Nurse* . 1998;18(1):54-65.

Tengerdy RP. The role of vitamin E in immune response and disease resistance. *Ann N Y Acad Sci* . 1990;587:24-33.

Thongson C, Davidson PM, et al. Antimicrobial activity of ultrasound-assisted solvent-extract spices. *Lett Appl Microbiol* . 2004;39(5):401-6.

Toshkova K, Annemuller C, et al. The significance of nasal carriage of *Staphylococcus aureus* as risk factor for human skin infections. *FEMS Microbiol Lett* . 2001;202(1):17-24.

Trevisanato SI, Kim YI. Tea and health. *Nutr Rev* . 2000;58(1):1-10.

Tsao SM, Hsu CC, et al. Garlic extract and two diallyl sulphides inhibit methicillin-resistant *Staphylococcus aureus* infection in BALB/cA mice. *J Antimicrob Chemother* . 2003 Dec;52(6):974-80.

van der Waaij D, Nord CE. Development and persistence of multi-resistance to antibiotics in bacteria; an analysis and a new approach to this urgent problem. *Int J Antimicrob Agents* . 2000;16(3):191-7.

Vaughan EE, Mollet B. Probiotics in the new millennium. *Nahrung* . 1999;43(3):148-53.

Wang KY, Li SN, et al. Effects of ingesting *Lactobacillus*- and *Bifidobacterium*-containing yogurt in subjects with colonized *Helicobacter pylori*. *Am J Clin Nutr*. 2004 Sep;80(3):737-41.

Weinstein RA. Epidemiology and control of nosocomial infections in adult intensive care units. *Am J Med* . 1991 Sep 16;91(3B):179S-184S.

Weinstein RA. Nosocomial infection update. *Emerg Infect Dis* . 1998;4(3):416-20.

Wysocki AB. Evaluating and managing open skin wounds: colonization versus infection. *AACN Clin Issues* . 2002;13(3):382-97.

Yamamoto Y, Matsunaga K, et al. Protective effects of green tea catechins on alveolar macrophages against bacterial infections. *Biofactors*. 2004;21(1-4):119-21.

Zambon CF, Basso D, et al. *Helicobacter pylori* virulence genes and host IL-1RN and IL-1beta genes interplay in favouring the development of peptic ulcer and intestinal metaplasia. *Cytokine* . 2002 Jun 7;18(5):242-51.

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