

## Scurvy

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Scurvy is a deficiency disease that results from insufficient intake of vitamin C, which is required for correct collagen synthesis in humans. The scientific name of vitamin C, ascorbic acid, is derived from the Latin name of scurvy, scorbutus. Scurvy leads to the formation of liver spots on the skin, spongy gums, and bleeding from all mucous membranes. The spots are most abundant on the thighs and legs, and a person with the ailment looks pale, feels depressed, and is partially immobilized. In advanced scurvy there are open, suppurating wounds and loss of teeth. Scurvy was at one time common among sailors, pirates and others who were on ships that were out to sea longer than perishable fruits and vegetables could be stored and by soldiers who were similarly separated from these foods for extended periods. It was described by Hippocrates. Herbal cures for scurvy have been known in many native cultures since prehistory. For example, in 1536, the French explorer Jacques Cartier, exploring the St. Lawrence River, used the local natives' knowledge to save his men who were dying of scurvy. He boiled the needles of the arbor vitae tree to make a tea that was later shown to contain 50 mg of vitamin C per 100 grams. However, such treatments were not available aboard ship, where the disease was most common. It was a Scottish surgeon in the British Royal Navy, James Lind who first proved it could be treated with citrus fruit in experiments he described in his 1753 book, A Treatise of the Scurvy. In infants, scurvy is sometimes referred to as Barlow's disease, named after Sir Thomas Barlow, a British physician who described it. Other eponyms include Moeller's disease and Cheadle's disease. ([From the Wikipedia article Scurvy](#).)

### Recent Publications on Scurvy:



- [Micronutrients and amino acids, main regulators of physiological processes.](#)  
*Human physiology is supposed to be a complex interaction of regulating...*17th November, 2009  
Regionaal Reuma Centrum Z.O. Brabant, Maxima Medisch Centrum, Ds. Th.- Med Hypotheses. 2009 Oct;73(4):498-502. Epub 2009 Jul 15. ([DOI Direct Link](#))
- [Chapter 29 Historical aspects of the major neurological vitamin deficiency disorders Overview and fat-soluble vitamin A.](#)  
*The vitamine doctrine: Although diseases resulting from vitamin...*7th November, 2009  
- Handb Clin Neurol. 2009;95:435-44. ([DOI Direct Link](#))
- [Scurvy: forgotten but definitely not gone.](#)  
*Scurvy, a disease of vitamin C deficiency, is purportedly rare in the...*31st October, 2009  
University of Florida College of Nursing, Gainesville, FL 32610, USA.- J Pediatr Health Care. 2009 Nov-Dec;23(6):405-15. Epub 2009 Feb 10. ([DOI Direct Link](#))
- [Vitamin C deficiency in early postnatal life impairs spatial memory and reduces the number of hippocampal neurons in guinea pigs.](#)  
*BACKGROUND: The neonatal brain is particularly vulnerable to imbalances in...*30th September, 2009

- Department of Veterinary Disease Biology, University of Copenhagen,- Am J Clin Nutr. 2009 Sep;90(3):540-6. Epub 2009 Jul 29. ([DOI Direct Link](#))
- [Unrecognised scurvy.](#)  
*Scurvy, a disease of vitamin C deficiency, is purportedly rare in the...*29th September, 2009  
 Department of Vascular Surgery, University Hospitals Birmingham NHS- BMJ. 2009 Sep 17;339:b3580. doi: 10.1136/bmj.b3580.
  - [A case of infantile scurvy treated only with vitamin C: a forgotten disease.](#)  
*Scurvy is a rare disease occurring because of a nutritional deficiency of...*25th September, 2009  
 Baltalimani Metin Sabanci Bone and Joint Diseases Education and Research- Acta Orthop Belg. 2009 Jun;75(3):428-30.
  - [Knowledge transfer and the complex story of scurvy.](#)  
*We report an unusual case of scurvy where a six-year-old female presented...*23rd September, 2009  
 International Masters Program in Health Leadership, Desautels Faculty of- J Eval Clin Pract. 2009 Jun;15(3):553-7. ([DOI Direct Link](#))
  - [Prolyl Hydroxylases and Therapeutics.](#)  
*Prolyl hydroxylases are members of the iron- and 2-oxoglutarate-dependent...*19th September, 2009  
 University of Oxford, Department of Physiology, Anatomy & Genetics,- Antioxid Redox Signal. 2009 Sep 17. ([DOI Direct Link](#))
  - [Multiple epiphyseal separations in a child with cerebral palsy and scurvy.](#)  
*Scurvy is a dietary disease due to Vitamin C deficiency. Vitamin C is...*16th September, 2009  
 Dipartimento di Pediatria, Universita degli Studi di Catania, Catania,- Minerva Pediatr. 2009 Aug;61(4):445-449.
  - [Complex regional pain syndrome type 1 and scurvy.](#)  
*A 5 year old female developed features of complex regional pain syndrome...*3rd September, 2009  
 Department of Pediatrics, University College of Medical Sciences and Guru- Indian Pediatr. 2009 Jun;46(6):529-31.
  - [Scurvy-a forgotten disease with an unusual presentation.](#)  
*We report an unusual case of scurvy where a six-year-old female presented...*2nd September, 2009  
 E-112, Narwana Apartments, Plot 89, IP Extension, Delhi-110092, India- Trop Doct. 2009 Jul;39(3):190-2. ([DOI Direct Link](#))
  - [Role of marginal vitamin C deficiency in atherogenesis: in vivo models and clinical studies.](#)  
*Vitamin C is a pivotal redox modulator in many biological reactions of...*22nd August, 2009  
 Section of Biomedicine, Department of Disease Biology, Faculty of Life- Basic Clin Pharmacol Toxicol. 2009 Jun;104(6):419-33. ([DOI Direct Link](#))
  - [Sailors' scurvy before and after James Lind--a reassessment.](#)  
*Scurvy is a thousand-year-old stereotypical disease characterized by...*23rd July, 2009  
 Medical Schools of Mount Sinai, New York, USA and Imperial College,- Nutr Rev. 2009 Jun;67(6):315-32. ([DOI Direct Link](#))
  - [\[Dental aspects of general symptoms in the 18th century\]](#)  
*In the 18th century, numerous diseases with symptoms of oral cavity were...*23rd July, 2009  
 Semmelweis Egyetem, Altalanos Orvostudományi Kar, Kozegeszsegügyi Intézet,- Orv Hetil. 2009 May 24;150(21):979-83. ([DOI Direct Link](#))
  - [Vitamin C and the role of citrus juices as functional food.](#)  
*The literature on the content and stability of vitamin C (ascorbic acid,...*2nd July, 2009  
 Unidad Mixta JBT Corp.-IBMC, Instituto de Biología Molecular y Celular,- Nat Prod Commun. 2009 May;4(5):677-700.



## Scurvy Patents:

- 6794145- [Identification of the gene causing the mouse scurvy phenotype and its human ortholog](#)
- 6974796- [Therapeutic compositions for treatment of a damaged tissue](#)
- 6987128- [Compounds of the N-acylamino amide family, compositions comprising same, and uses](#)
- 6989143- [Depletion method of blood plasma ascorbate](#)
- 7025996- [Dietary supplement for medical patients](#)
- 7029703- [Composition for promoting healthy bone structure](#)
- 7060253- [Topical formulations and delivery systems](#)
- 7060295- [Formulations for the prevention and treatment of insulin resistance and type 2 diabetes mellitus](#)
- 7101875- [Methods for treating arthritic disorders](#)
- 7115286- [Compositions and methods for an orally administered inhibitor of biting insects](#)
- 7183383- [Uses of collagen IV](#)
- 6958223- [Methods for producing extracellular matrix proteins](#)
- 6927287- [Nucleic acid encoding extracellular matrix protein or fragment thereof](#)
- 6896899- [Pharmaceutical preparations of glutathione and methods of administration thereof](#)
- 6803453- [Antibodies associated with alterations in bone density](#)
- 6833248- [Human caspase-12 materials and methods](#)
- 6833489- [Assays for modulators of prolyl-4-hydroxylase](#)
- 6841060- [Method for quantifying antioxidant levels in food and medical specimens](#)
- 6849595- [Calorically dense nutritional composition](#)
- 6851814- [Skin light exposure control methods](#)
- 6858588- [Nitrile glycoside useful as a bioenhancer of drugs and nutrients, process of its isolation from moringa oleifera](#)
- 6864284- [Ascorbic acid compounds, methods of synthesis and application use thereof](#)
- 6867178- [Calorically dense nutritional composition](#)
- 6884775- [Methods and compositions for regulating skeletogenic formation](#)
- 7192583- [Methods for modulating bone mineralization](#)
- 7205007- [Peri-operative and peri-procedure nutritional supplementation](#)
- 7411051- [Antibodies to HDPPA04 polypeptide](#)
- 7419970- [Cosmetic compositions comprising N-acylamino amides](#)
- 7470438- [Ericacea extracts for combating skin aging](#)
- 7557135- [Inhibitors of cytosolic phospholipase A.sub.2](#)
- 7566698- [2-O-\(.beta.-D-glucopyranosyl\) ascorbic acid, process for its production, and foods and cosmetics containing compositions comprising it](#)
- 7572462- [Peri-operative and peri-procedure nutritional supplementation](#)
- 7572899- [Compositions and methods for increasing bone mineralization](#)
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- 7579171- [Ascorbic acid production from yeast](#)
- 7381409- [Antibodies specific for sclerostin and methods of screening and use therefor](#)
- 7371536- [Methods for transporting vitamin C](#)
- 7368531- [Human secreted proteins](#)
- 7226902- [Ligands for TGF-beta binding proteins and uses thereof](#)
- 7230124- [Ascorbic acid compounds, methods of synthesis and application use thereof](#)

- 7230242- [Methods for SEM inspection of fluid containing samples](#)
- 7232667- [Keratinocyte growth factor-2 polynucleotides](#)
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- 7238799- [Mustang, a gene and nuclear protein](#)
- 7291461- [Methods for identifying small molecules that modulate premature translation termination and nonsense mRNA decay](#)
- 7326549- [Myo-inositol oxygenases](#)
- 7359748- [Apparatus for total immersion photography](#)
- 7368527- [HADDE71 polypeptides](#)
- 7592429- [Sclerostin-binding antibody](#)

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