

## Acidosis

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:For acidosis referring to acidity of the urine, see renal tubular acidosis. Acidosis is an increased acidity . If not further qualified, it refers to acidity of the blood plasma. Acidosis is said to occur when arterial pH falls below 7.35, while its counterpart occurs at a pH over 7.45. Arterial blood gas analysis and other tests are required to separate the main causes. The term acidemia describes the state of low blood pH, while acidosis is used to describe the processes leading to these states. Nevertheless, physicians sometimes use the terms interchangeably. The distinction may be relevant where a patient has factors causing both acidosis and alkalosis, where the relative severity of both determines whether the result is a high or a low pH. The rate of cellular metabolic activity affects and, at the same time, is affected by the pH of the body fluids. In mammals, the normal pH of arterial blood lies between 7.35 and 7.50 depending on the species . Blood pH values compatible with life in mammals are limited to a pH range between 6.8 and 7.8. Changes in the pH of arterial blood outside this range result in irreversible cell damage . ([From the Wikipedia article Acidosis.](#))

### Recent Publications on Acidosis:



- [PDH E\(1\)beta deficiency with novel mutations in two patients with Leigh syndrome.](#)  
*Most cases of pyruvate dehydrogenase complex (PDHc) deficiency are...* 20th November, 2009  
Institut de Bioquímica Clínica, Servei de Bioquímica i Genètica Molecular,- J Inherit Metab Dis. 2009  
Nov 9. ([DOI Direct Link](#))
- [Feeding barley grain steeped in lactic acid modulates rumen fermentation patterns and increases milk fat content in dairy cows.](#)  
*The objectives of the present in vivo and in situ trials were to evaluate...* 20th November, 2009  
Department of Agricultural, Food and Nutritional Science, University of- J Dairy Sci. 2009  
Dec;92(12):6023-6032. ([DOI Direct Link](#))
- [Invited review: The use of distillers products in dairy cattle diets.](#)  
*Distillers grains with solubles (DGS) is the major coproduct of ethanol...* 20th November, 2009  
Dairy Science Department, South Dakota State University, Brookings- J Dairy Sci. 2009  
Dec;92(12):5802-5813. ([DOI Direct Link](#))
- [Severe hyponatremia occurring after surgical stress in a patient with mitochondrial disease.](#)  
*A 53-year-old man with mitochondrial disease underwent gastrectomy because...* 19th November, 2009  
Department of Anesthesia, Inabe General Hospital, 771 Ageki, Hokusei-cho,- J Anesth. 2009  
Nov;23(4):587-590. Epub 2009 Nov 18. ([DOI Direct Link](#))
- [Comparison of community-acquired pneumonia due to methicillin-resistant and methicillin-susceptible Staphylococcus aureus producing the Panton-Valentine leukocidin.](#)  
*OBJECTIVE: To investigate the clinical features and prognosis of patients...* 19th November, 2009  
Alfa Institute of Biomedical Sciences (AIBS), Athens, Greece; Department- Int J Tuberc Lung Dis. 2009  
Dec;13(12):1476-1485.

- [Puerarin Inhibits Acid-Sensing Ion Channels and Protects against Neuron Death Induced by Acidosis.](#)  
*Puerarin, the main isoflavone found in the root of the wild leguminous...* 18th November, 2009  
Department of Biomedical Engineering, Key Laboratory of Biomedical- Planta Med. 2009 Nov 16. ([DOI Direct Link](#))
- [\[Malignant hyperthermia--diagnostics, treatment and anaesthetic management\]](#)  
*In malignant hyperthermia (MH) susceptible individuals volatile...* 18th November, 2009  
Klinik und Poliklinik für Anesthesiologie, Universitätsklinikums Würzburg.- Anesthesiol Intensivmed Notfallmed Schmerzther. 2009 Nov;44(11-12):758-63; ([DOI Direct Link](#))
- [Diabetic ketoacidosis with pneumomediastinum: a case report.](#)  
*An 18-year-old male with type 1 diabetes mellitus presented to the...* 18th November, 2009  
Department of Internal Medicine, University of Tennessee College of- Cases J. 2009 Sep 9;2:8095. ([DOI Direct Link](#))
- [Hypocitraturia: pathophysiology and medical management.](#)  
*Low urinary citrate excretion is a known risk factor for the development...* 18th November, 2009  
Department of Urology, Wake Forest University School of Medicine- Rev Urol. 2009 Summer;11(3):134-44.
- [Vascular calcification and metabolic acidosis in end stage renal disease.](#)  
*Cardiovascular manifestations are very common in patients with end stage...* 18th November, 2009  
Dialysis Center, Medical University, Sofia, Bulgaria.- Hippokratia. 2009 Jul;13(3):139-40.
- [A case of D-lactic acid encephalopathy associated with use of probiotics.](#)  
*A five year old girl was admitted to the hospital for evaluation of...* 18th November, 2009  
Department of Pediatrics, Nihon University School of Medicine, Tokyo,- Brain Dev. 2009 Nov 14. ([DOI Direct Link](#))
- [A model of Na<sup>+</sup>/H<sup>+</sup> exchanger and its central role in regulation of pH and Na<sup>+</sup> in cardiac myocytes.](#)  
*A new kinetic model of the Na<sup>(+)</sup>/H<sup>(+)</sup> exchanger (NHE) was developed by...* 18th November, 2009  
Biosimulation Project, Faculty of Bioinformatics, Ritsumeikan University,- Biophys J. 2009 Nov 18;97(10):2674-83. ([DOI Direct Link](#))
- [Association of arterial blood pressure and vasopressor load with septic shock mortality: a post hoc analysis of a multicenter trial.](#)  
*ABSTRACT: INTRODUCTION: It is unclear to which level mean arterial blood...* 18th November, 2009  
- Crit Care. 2009 Nov 16;13(6):R181. ([DOI Direct Link](#))
- [Prevalence and complications of chronic kidney disease in paediatric renal transplantation: a K/DOQI perspective.](#)  
*Background. Although renal transplant recipients (RTR) have been included...* 22nd April, 2009  
Department of Paediatric Nephrology, Great Ormond Street Hospital for- Nephrol Dial Transplant. 2009 Nov 19. ([DOI Direct Link](#))
- [Heart Diseases in Mitochondrial Encephalomyopathy, Lactic Acidosis, and Stroke Syndrome.](#)  
*Mitochondrial encephalomyopathy, lactic acidosis, and stroke (MELAS)...* 22nd April, 2009  
From Critical Care Medicine, Boulevard Raymond-Poincare, Raymond Poincare- Congest Heart Fail. 2009 Nov 1;15(6):284-287. ([DOI Direct Link](#))

## BioNews Results for Acidosis

- [Diabetes warning after teen's death](#)  
*Southend Today: Nov 19 2009 12:55PM Matching: acidosis*
- [Lactic Acidosis Associated With Metformin in a Patient With Type 2 Diabetes With No Contraindication](#)  
*MDLinx: Nov 13 2009 11:14AM Matching: acidosis*
- [Presented At CHEST 2009 - New Pediatric Lung Health Research](#)  
*Medical News Today: Nov 4 2009 8:21PM Matching: acidosis*



## Acidosis Clinical Trials:



- [Metabolic Acidosis in Renal Transplant Patients](#)

## Acidosis Patents:



- 7585880- [Phenylpropanoic acid derivatives](#)
- 7595333- [Agent for improving acidosis](#)
- 7597916- [Livestock anti-acid composition](#)
- 7598039- [Treatment of insulin resistance](#)
- 7598060- [Rapid analysis of variations in a genome](#)
- 7598262- [Method for treating diabetes](#)
- 7598355- [Characterization of GRP94-ligand interactions and purification, screening, and therapeutic methods relating thereto](#)
- 7598364- [Plasmid encoding canine BMP-7](#)
- 7598373- [Process for the production of 2-C-methyl-D-ribonolactone](#)
- 7598412- [Modulators of ATP-binding cassette transporters](#)
- 7601366- [Promotion of peroxisomal catalase function in cells](#)
- 7595294- [Vasoactive intestinal polypeptide pharmaceuticals](#)
- 7595055- [Pharmaceutical composition comprising an extract or compounds isolated from \*Elfvigia applanata\* for the prevention and the treatment of diabetes and diabetic complications](#)
- 7592449- [Structural carotenoid analogs for the inhibition and amelioration of disease](#)
- 7589079- [Crystalline and amorphous forms of beta-L-2'-deoxythymidine](#)
- 7589096- [Azole derivatives](#)
- 7589238- [Treatment of hyperphosphatemia using crosslinked small molecule amine polymers](#)
- 7590439- [Bi-stable medical sensor and technique for using the same](#)
- 7590449- [Patient signaling method for treating cardiovascular disease](#)
- 7592010- [Albumin fusion proteins](#)
- 7592304- [Metal-binding compounds and uses therefor](#)
- 7592310- [Induction of antibiotic proteins and peptides by LAIT/sCD14-protein](#)
- 7592324- [RNAi-mediated inhibition of ocular targets](#)
- 7592349- [Diarylamine-containing compounds and compositions, and their use as modulators of c-kit receptors](#)
- 7601487- [Composition using HMW dextran and method for in vitro preservation of corneal tissues](#)
- 7601689- [Angiogenin complexes \(ANGex\) and uses thereof](#)
- 7611832- [Human G protein-coupled receptor and modulators thereof for the treatment of ischemic heart disease and congestive heart failure](#)
- 7611864- [Proinsulin polypeptide-oligomer conjugates](#)
- 7612041- [Isolated activin-binding ActRIIa polypeptide comprising the SEQ ID NO: 7 and uses for](#)

[promoting bone growth](#)

- 7612096- [Methods for treatment, modification and management of radiculopathy using 1-oxo-2-\(2,6-dioxopiperidin-3yl\)-4-aminoisoindoline](#)
- 7613343- [Nosologic system of diagnosis](#)
- 7615355- [Peripheral-type benzodiazepine receptor expression level as an index of organ damage and regeneration](#)
- 7615548- [Method to inhibit ischemia and reperfusion injury](#)
- 7616991- [Method for digital cardiac rhythm management](#)
- 7618594- [Conversion of nitrogen dioxide \(NO.sub.2\) to nitric oxide \(NO\)](#)
- 7618634- [Neurotoxic oligomers](#)
- 7610153- [Multi-drug titration and evaluation](#)
- 7608704- [Secreted proteins](#)
- 7608674- [Pharmaceutical compositions comprising cross-linked small molecule amine polymers](#)
- 7603166- [Method and apparatus for detection of vulnerable atherosclerotic plaque](#)
- 7604797- [Compositions and methods for treating burns](#)
- 7604946- [Methods for the assay of troponin I and T and complexes of troponin I and T and selection of antibodies for use in immunoassays](#)
- 7605175- [Inhibitors of cyclin-dependent kinases, compositions and uses related thereto](#)
- 7605236- [Antibodies that immunospecifically bind to B lymphocyte stimulator protein](#)
- 7608577- [Peptidyl ketones as inhibitors of DPIV](#)
- 7608597- [Methods and compositions for treating hepatitis C virus](#)
- 7608600- [Modified 2' and 3'-nucleoside prodrugs for treating Flaviviridae infections](#)
- 7608604- [Antiparasitic agents](#)
- 7608635- [Pyrazole compounds that modulate HSP90 activity](#)
- 7618640- [Method and composition for reducing E. coli disease and enhancing performance](#)

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