

# Asphyxia

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Asphyxia , "pulse, heartbeat") is a condition of severely deficient supply of oxygen to the body that arises from being unable to breathe normally. Asphyxia causes generalized hypoxia, which primarily affects the tissues and organs most sensitive to hypoxia first, such as the brain, hence resulting in cerebral hypoxia. Asphyxia is usually characterized by air hunger, but this is not always the case; the urge to breathe is triggered by rising carbon dioxide levels in the blood rather than diminishing oxygen levels. Sometimes there is not enough carbon dioxide to cause air hunger, and victims become hypoxic without knowing it. This may occur, for example, if the oxygen in the air of an enclosed space is displaced by a large amount of inert gas. In any case, the absence of effective remedial action will very rapidly lead to unconsciousness, brain damage, and death. The time to death is dependent on the particular mechanism of asphyxia. Asphyxia is used to maim or kill in capital punishment, suicide, torture, and warfare. It is also used non-fatally in martial arts, combat sports, BDSM, and during sex as erotic asphyxia. Because the need to breathe is triggered by the level of carbon dioxide in the blood, some victims may not experience an urgent need to breathe and may remain unaware of the onset of hypoxia. ([From the Wikipedia article Asphyxia](#).)

## Recent Publications on Asphyxia:



- [Teaching and learning moments. A lesson in ethics.](#)  
*OBJECTIVES: To evaluate plasma endothelin-1 (ET-1) and fetuin-A...*18th November, 2009  
University of Michigan School of Public Health, Ann Arbor, Michigan, USA.- Acad Med. 2009 Nov;84(11):1489. ([DOI Direct Link](#))
- [Observations on Increased Accidental Asphyxia Deaths in Infancy While Cosleeping in the State of Maryland.](#)  
*The Office of the Chief Medical Examiner (OCME) has recorded a significant...*11th November, 2009  
From the \*Key Laboratory of Evidence Science (L.L., D.R.F.), China- Am J Forensic Med Pathol. 2009 Nov 6. ([DOI Direct Link](#))
- [\[How should neonatal mortality be reduced?\]](#)  
*BACKGROUND: A newborn dies every 10th second; a pregnant woman dies during...*10th November, 2009  
Princess Marina Hospital,- Tidsskr Nor Laegeforen. 2009 Nov 5;129(21):2270-3. ([DOI Direct Link](#))
- [Perinatal mortality contributors in singleton gestation.](#)  
*Objective: To determine the feto-maternal factors contributing to...*6th November, 2009  
Department of Obstetrics and Gynaecology, Dow University of Health- J Coll Physicians Surg Pak. 2009 Nov;19(11):711-3. ([DOI Direct Link](#))
- [Acute peritoneal dialysis in very low birth weight neonates using a vascular catheter.](#)  
*We report on our experience with acute peritoneal dialysis (APD) in 16...*4th November, 2009

Department of Pediatrics, School of Medicine, Ajou University, San 5- Pediatr Nephrol. 2009 Nov 3. ([DOI Direct Link](#))

- [Mesenchymal stem cell treatment after neonatal hypoxic-ischemic brain injury improves behavioral outcome and induces neuronal and oligodendrocyte regeneration.](#)  
*Birth asphyxia is a frequent cause of perinatal morbidity and mortality...*4th November, 2009  
Laboratory for Psychoneuroimmunology, University Medical Center Utrecht,- Brain Behav Immun. 2009 Oct 31. ([DOI Direct Link](#))
- [The acceptability among French lay persons of ending the lives of damaged newborns.](#)  
*BACKGROUND: Lay persons' judgements of the acceptability of the not...*3rd November, 2009  
Department of Psychology, Universite du Mirail, Toulouse, France.- J Med Ethics. 2009 Nov;35(11):701-8. ([DOI Direct Link](#))
- [Is increased maternal endothelin-1 concentration associated with neonatal asphyxia and preterm delivery in intrahepatic cholestasis of pregnancy?](#)  
*OBJECTIVES: To evaluate plasma endothelin-1 (ET-1) and fetuin-A...*29th October, 2009  
Izmir Aegean Obstetrics and Gynecology Teaching Hospital, Izmir, Turkey.- Arch Gynecol Obstet. 2009 Oct 28. ([DOI Direct Link](#))
- [Dose-response of vasopressin in a rat model of asphyxial cardiac arrest.](#)  
*The advantage of vasopressin over epinephrine in the treatment of cardiac...*28th October, 2009  
Institute of Cardiovascular Diseases, the First Affiliated Hospital of- Am J Emerg Med. 2009 Oct;27(8):935-41. ([DOI Direct Link](#))
- [Multiple lung tumors as the cause of death in a patient with subarachnoid hemorrhage: postmortem computed tomography study.](#)  
*A 77-year-old woman who had been in the hospital suffering from a...*27th October, 2009  
Department of Diagnostic Radiology, Niigata City General Hospital, 463-7- Jpn J Radiol. 2009 Oct;27(8):316-9. Epub 2009 Oct 27. ([DOI Direct Link](#))
- [Changes in cerebral and visceral blood flow velocities in asphyxiated term neonates with hypoxic-ischemic encephalopathy.](#)  
*OBJECTIVE: The purpose of this study was to evaluate changes in the...*27th October, 2009  
Department of Radiology, University of Tartu, Puusepa 2, 51014 Tartu,- J Ultrasound Med. 2009 Nov;28(11):1471-80.
- [Neuropathology and functional deficits in a model of birth asphyxia in the precocial spiny mouse \(Acomys cahirinus\).](#)  
*Birth asphyxia can result in sensory impairment, learning and memory...*24th October, 2009  
Fetal and Neonatal Research Group, Department of Physiology, Monash- Dev Neurosci. 2009;31(6):523-35. Epub 2009 Oct 23. ([DOI Direct Link](#))
- [Neonatal neuroimaging: going beyond the pictures.](#)  
*The cerebral ultrasound has been used many years for the diagnosis of...*2nd October, 2009  
Neonatal Intensive Care Unit-Fondazione IRCCS Ospedale Maggiore- Early Hum Dev. 2009 Oct;85(10 Suppl):S75-7. Epub 2009 Sep 29. ([DOI Direct Link](#))

## BioNews Results for Asphyxia

- [Cooling Baby May Mitigate Effects of Oxygen Deprivation](#)  
*MedPage Today: Nov 5 2009 11:57PM Matching: asphyxia*
- [IVF baby in hospital blunders could have been saved](#)  
*Manchester Evening News: Nov 5 2009 4:14PM Matching: asphyxia*
- [Pushing for over 2 hours during delivery increases maternal, neonatal morbidity](#)  
*MedWire News: Nov 2 2009 7:48PM Matching: asphyxia*
- [Cardiac troponin I at birth is of fetal-neonatal origin](#)  
*ADC Fetal and Neonatal: Oct 21 2009 7:24PM Matching: asphyxia*

- [Vacuum-assisted delivery tied to late-onset asthma](#)  
*Reuters Health: Oct 14 2009 1:49AM Matching: asphyxia*



## Asphyxia Patents:

- 7390508- [Use of xenon with hypothermia for treating neonatal asphyxia](#)
- 7452894- [Purine derivatives as purinergic receptor antagonists](#)
- 7456179- [Methods of treating ischemic related conditions](#)
- 7462622- [Pyrrolo\[2, 3-d\] pyrimidine derivatives as corticotropin releasing factor antagonists](#)
- 7470798- [7,8-bicycloalkyl-chroman derivatives](#)
- 7482126- [Snail, a new marker for tumour invasion and target protein of new antitumoral compounds](#)
- 7482159- [Snail, a new marker for tumour invasion and target protein of new antitumoral compounds](#)
- 7485617- [Osteoinductive materials](#)
- 7485630- [Neuroprotective macrocyclic compounds and methods for their use](#)
- 7488747- [Pyrrole and pyrazole DAAO inhibitors](#)
- 7488756- [Use of non-competitive and selective GluR5 antagonists as glutamate receptor modulating compounds](#)
- 7439063- [Neuroprotective synergy of erythropoietin and insulin-like growth factors](#)
- 7432296- [Pharmaceutical formulations containing substituted 2-aryl-aminoacetic acid compounds and/or substituted 2-heteroaryl-aminoacetic acid compounds](#)
- 7393642- [Methods and primers for diagnosing idiopathic congenital central hypoventilation syndrome](#)
- 7397380- [Device and method for monitoring state of thermal comfort of a baby at sleep or a partially disabled patient](#)
- 7405219- [Triazolo \[4,5-d\] pyrimidine derivatives and their use as purinergic receptor antagonists](#)
- 7407945- [Use of sulfated glycosaminoglycans for establishing effective labor in women](#)
- 7410634- [Tissue metabolic stress monitoring](#)
- 7410941- [Methods for treatment of neurodegenerative conditions by peripherally administered erythropoietin](#)
- 7414068- [Benzopyran derivatives substituted with secondary amines including tetrazole, method for the preparation thereof and pharmaceutical compositions containing them](#)
- 7422601- [Method for inducing hypothermia](#)
- 7423020- [Treatment of mood disorders by administration of SMR1](#)
- 7427630- [Condensed N-heterocyclic compounds and their use as CRF receptor antagonists](#)
- 7491835- [Prodrugs of amino acids with affinity for the .alpha.2.delta.-protein](#)
- 7507405- [Antibody fragment-polymer conjugates and uses of same](#)
- 7579370- [Fused heterocycles](#)
- 7589097- [Triazol\[4,5-d\] pyrimidine derivatives and their use as purinergic receptor antagonists](#)
- 7598256- [Pyrrolo \[2,3-d\] pyrimidine and their use as purinergic receptor antagonists](#)
- 7601706- [Bile-acid conjugates providing for sustained systemic concentration of drugs](#)
- 7601708- [Bile-acid derived compounds for providing sustained systemic concentrations of drugs after oral administration](#)
- 7605177- [Effects of glycyl-2 methyl prolyl glutamate on neurodegeneration](#)
- 7610095- [Diagnosis, treatment, and research of brain disorders](#)
- 7612226- [Amino acid derivatives](#)

- 7615572- [Pyrrole and pyrazole DAAO inhibitors](#)
- 7618984- [Sulfonamide compound](#)
- 7577469- [Noninvasive transdermal systems for detecting an analyte in a biological fluid and methods](#)
- 7576132- [Arginine silicate inositol complex and use thereof](#)
- 7510709- [Method of treating inflammatory disease by inhibition of IL-17 production](#)
- 7514461- [Chroman derivatives](#)
- 7517529- [Treatment of type I diabetes](#)
- 7517909- [Amino acids with affinity for the .alpha.2.delta.-protein](#)
- 7519417- [Quantitative fetal heart rate and cardiocographic monitoring system and related method thereof](#)
- 7521480- [Aryl ureido benzoic acid derivatives and their use](#)
- 7559326- [Vent and/or diverter assembly for use in breathing apparatus](#)
- 7562657- [Method and apparatus for non-invasive prediction of intrinsic positive end-expiratory pressure \(PEEP.sub.i\) in patients receiving ventilator support](#)
- 7563862- [Neural regeneration peptides and methods for their use in treatment of brain damage](#)
- 7572797- [Amino substituted pyrazine derivatives for the treatment of pain](#)
- 7619091- [8-hydroxy quinoline derivatives](#)

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