

# Hydrocephalus

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Hydrocephalus is a term derived from the Greek words "hydro" meaning water, and "cephalus" meaning head, and this condition is sometimes known as "water in the brain". People with this condition have abnormal accumulation of cerebrospinal fluid in the ventricles, or cavities, of the brain. This may cause increased intracranial pressure inside the skull and progressive enlargement of the head, convulsion, and mental disability. Hydrocephalus was especially common after the Chernobyl disaster. Hydrocephalus is usually due to blockage of CSF outflow in the ventricles or in the subarachnoid space over the brain. In a normal healthy person, CSF continuously circulates through the brain and its ventricles and the spinal cord and is continuously drained away into the circulatory system. In a hydrocephalic situation, the fluid accumulates in the ventricles, and the skull may become enlarged because of the great volume of fluid pressing against the brain and skull. Alternatively, the condition may result from an overproduction of the CSF fluid, from a congenital malformation blocking normal drainage of the fluid, or from complications of head injuries or infections. Infants and young children with hydrocephalus typically have abnormally large heads, because the pressure of the fluid causes the individual skull bones to bulge outward at their juncture points. Compression of the brain by the accumulating fluid eventually may cause convulsions and mental retardation. Hydrocephalus occurs in about one out of every 500 live births and was routinely fatal until surgical techniques for shunting the excess fluid out of the central nervous system and into the blood or abdomen were developed. Usually, hydrocephalus need not cause any intellectual impairment if recognized and properly treated. A massive degree of hydrocephalus rarely exists in normally functioning people, though such a rarity may occur if onset is gradual rather than sudden. ([From the Wikipedia article Hydrocephalus.](#))

## Recent Publications on Hydrocephalus:



- [Dysplasia of the cerebellum in Waardenburg syndrome: Outcomes following cochlear implantation.](#)  
*This study provides the first description of isolated cerebellar dysplasia...*21st November, 2009  
Charite - Universitätsmedizin Berlin, Germany.- Int J Pediatr Otorhinolaryngol. 2009 Nov 17. ([DOI Direct Link](#))
- [Update on Tuberculosis of the Central Nervous System: Pathogenesis, Diagnosis, and Treatment.](#)  
*Tuberculous meningitis is the most dangerous form of tuberculosis, yet our...*21st November, 2009  
Department of Microbiology, Imperial College, South Kensington, London,- Clin Chest Med. 2009 Dec;30(4):745-754. ([DOI Direct Link](#))
- [Longitudinal Evaluation of an N-Ethyl-N-Nitrosourea-Created Murine Model with Normal Pressure Hydrocephalus.](#)  
*BACKGROUND: Normal-pressure hydrocephalus (NPH) is a neurodegenerative...*20th November, 2009  
Department of Neurology, National Taiwan University Hospital, College of- PLoS One. 2009 Nov

- 17;4(11):e7868. ([DOI Direct Link](#))
- [Differential Diagnosis of Torticollis: A Case Report.](#)  
*PURPOSE:: This case report describes a method of differential diagnosis...*20th November, 2009  
 Brooks Rehabilitation Hospital (G.M.G.); and Department of Physical- Pediatr Phys Ther. 2009  
 Winter;21(4):369-374. ([DOI Direct Link](#))
  - [Neurotrophins in the Cerebrospinal Fluid of Patient Cohorts With Neuropathic Pain, Nociceptive Pain, or Normal Pressure Hydrocephalus.](#)  
*OBJECTIVE: The pathophysiology of neuropathic pain is still poorly...*19th November, 2009  
 \*Department of Neurosurgery, Medical University Hannover, MHH, Hannover- Clin J Pain. 2009  
 Oct;25(8):729-733. ([DOI Direct Link](#))
  - [\[Skew deviation. Strabismological diagnosis and treatment alternatives.\]](#)  
*Background: We undertook this study to analyze diagnostic and treatment...*19th November, 2009  
 Servicio de Estrabismo, Centro Medico Nacional 20 de Noviembre, Instituto- Cir Cir. 2009  
 July-August;77(4):267-273.
  - [Spontaneous externalization of peritoneal catheter through the abdominal wall in a patient with hydrocephalus: a case report.](#)  
*Since 1905, the abdominal cavity has been used for absorption of...*18th November, 2009  
 Department of Neurosurgery, University Hospital of Alexandroupolis,- Cases J. 2009 Sep 16;2:6898. ([DOI Direct Link](#))
  - [Neurosyphilis presenting with dementia, chronic chorioretinitis and adverse reactions to treatment: a case report.](#)  
*Neurosyphilis results from infection of the brain, meninges or spinal cord...*18th November, 2009  
 - Cases J. 2009 Sep 1;2:8334. ([DOI Direct Link](#))
  - [Spontaneous bowel perforation complicating ventriculoperitoneal shunt: a case report.](#)  
*Ventriculoperitoneal shunt placement is an effective treatment of...*18th November, 2009  
 - Cases J. 2009 Aug 7;2:8251. ([DOI Direct Link](#))
  - [More advanced Alzheimer's disease may be associated with a decrease in cerebrospinal fluid pressure.](#)  
*ABSTRACT: In a recent article, elevated cerebrospinal fluid pressure...*18th November, 2009  
 - Cerebrospinal Fluid Res. 2009 Nov 16;6(1):14. ([DOI Direct Link](#))
  - [Endoscopic third ventriculostomy for obstructive hydrocephalus in children younger than 6 months of age.](#)  
*PURPOSE: The outcome of endoscopic third ventriculostomy (ETV) is worse in...*17th November, 2009  
 Division of Neurosurgery, Children's Memorial Hospital, Chicago, IL, USA.- Childs Nerv Syst. 2009 Nov  
 14. ([DOI Direct Link](#))
  - [Unusual CNS infection from a subtorcular dermal sinus - case report.](#)  
*Abstract A 14-month-old toddler with a previously unrecognized dermal...*17th November, 2009  
 .Department of Pediatric Neurosurgery, Connecticut Children's Medical- Acta Paediatr. 2009 Nov 12. ([DOI Direct Link](#))
  - [Atypical teratoid/rhabdoid tumor of the pineal region in an adult.](#)  
*An atypical teratoid/rhabdoid tumor (AT/RT) is a highly malignant...*17th November, 2009  
 Departments of Pathology, The Methodist Hospital.- J Neurosurg. 2009 Nov 13. ([DOI Direct Link](#))
  - [The Efficiency of PC-MRI in Diagnosis of Normal Pressure Hydrocephalus and Prediction of Shunt Response\(1\).](#)  
*RATIONALE AND OBJECTIVES: In this prospective study, we aimed to reveal...*17th November, 2009  
 (1)Department of Radiology, Uludag University Medical Faculty, Gorukle,- Acad Radiol. 2009 Nov 10. ([DOI Direct Link](#))
  - [Neurodegenerative central nervous system Langerhans cell histiocytosis and coincident hydrocephalus treated with vincristine/cytosine arabinoside.](#)  
*BACKGROUND: Central nervous system (CNS) complications of Langerhans cell...*13th November, 2009  
 Texas Children's Cancer Center/Hematology Service, Houston, Texas.- Pediatr Blood Cancer. 2009  
 Nov 11. ([DOI Direct Link](#))

## BioNews Results for Hydrocephalus

- [Rehabilitation of Patients with Chronic Normal-Pressure Hydrocephalus After Aneurysmal Subarachnoid Hemorrhage Benefits from Ventriculoperitoneal Shunt](#)  
*MDLinx: Nov 16 2009 2:20PM Matching: hydrocephalus*
- [Two-Layer Appearance on Brain Perfusion SPECT in Idiopathic Normal Pressure Hydrocephalus: A Qualitative Analysis by Using Easy Z-Score Imaging System, eZIS](#)  
*MDLinx: Oct 26 2009 12:56PM Matching: hydrocephalus*

## Hydrocephalus Patents:



- 7531545- [2-amino-3,4-dihydro-pyrido\[3,4-d\]pyrimidine derivatives useful as inhibitors of beta.-secretase \(BACE\)](#)
- 7559912- [High pressure range hydrocephalus valve system](#)
- 7563734- [Chemical vapor deposition of antimicrobial polymer coatings](#)
- 7569384- [Albumin fusion proteins](#)
- 7569544- [Methods of increasing delivery of active agents to brain comprising administering receptor associated protein \(RAP\) fragments conjugated to active agents](#)
- 7572596- [Modulation of the neuroendocrine system as a therapy for motor neuron disease](#)
- 7575589- [Light-emitting device and method for providing phototherapy to the brain](#)
- 7575781- [Method for depositing a polymeric coating on a substrate](#)
- 7575876- [Biomarkers for neurodegenerative disorders](#)
- 7576080- [Certain thienopyrimidine derivatives as phosphodiesterase 10 inhibitors](#)
- 7576103- [Tetralin and indane derivatives and uses thereof](#)
- 7557088- [Methods and compositions for treating conditions](#)
- 7557078- [Morphogen-induced nerve regeneration and repair](#)
- 7550444- [Composition and method for preparing biocompatible surfaces](#)
- 7531577- [Arylsulfonamidyl tetralin derivatives and uses thereof](#)
- 7534255- [Low level light therapy for enhancement of neurologic function](#)
- 7540876- [Pressure attenuation device](#)
- 7541048- [Coating compositions for bioactive agents](#)
- 7544673- [Coating compositions for bioactive agents](#)
- 7547283- [Methods for determining intracranial pressure non-invasively](#)
- 7547766- [Anti-tango294 antibodies and uses thereof](#)
- 7549996- [Tunneling needle design having an on-demand removable hub](#)
- 7550432- [Recombinant fusion proteins to growth hormone and serum albumin](#)
- 7550443- [Process and systems for biocompatible surfaces](#)
- 7579168- [Human Dickkopf-related nucleic acid molecules](#)
- 7582068- [Occlusion resistant hydrocephalic shunt](#)
- 7608704- [Secreted proteins](#)
- 7611879- [27877, 18080, 14081, 32140, 50352, 16658, 14223, 16002, 50566, 65552 and 65577 molecules and uses therefor](#)
- 7614743- [Vital signs monitoring system with wireless pupilometer interface](#)
- 7617001- [Systems and method for communicating with implantable devices](#)

- 7618391- [Waveform sensing and regulating fluid flow valve](#)
- 7618614- [Hydrocephalus treatment](#)
- 7618621- [Mammalian multipotent neural stem cells and compositions, methods of preparation and methods of administration thereof](#)
- 7618622- [Treatment of Parkinson's disease and related disorders using postpartum derived cells](#)
- 7618960- [Morpholine type cinnamide compound](#)
- 7619007- [Method and composition for administering an NMDA receptor antagonist to a subject](#)
- 7608586- [Soluble low-density lipoprotein receptor related protein binds directly to Alzheimer's amyloid-beta peptide](#)
- 7604599- [Systems and methods for using dynamic vascular assessment to improve vascular stent placement, application, design and marketing](#)
- 7601837- [Quinoline derivatives and their use as 5-HT6 ligands](#)
- 7582760- [Benzimidazolone and dihydroindolone derivatives and uses thereof](#)
- 7585280- [System and method for measuring the pressure of a fluid system within a patient](#)
- 7585882- [Phosphodiesterase 4 inhibitors](#)
- 7589097- [Triazol\[4,5-d\] pyrimidine derivatives and their use as purinergic receptor antagonists](#)
- 7591844- [Medical devices, drug coatings and methods for maintaining the drug coatings thereon](#)
- 7592010- [Albumin fusion proteins](#)
- 7592321- [Methods of treating lysosomal storage related diseases by gene therapy](#)
- 7595315- [Morpholine derivatives as norepinephrine reuptake inhibitors](#)
- 7595469- [Resonator for medical device](#)
- 7598256- [Pyrrolo \[2,3-d\] pyrimidine and their use as purinergic receptor antagonists](#)
- 7619096- [3-Aminopyrrolidines as inhibitors of monoamine uptake](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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