

# Pediatric Radiology Articles From Around the World

Each ARRS global partner, which produces a radiology journal, selected one pediatric article to share with the ARRS membership. Outlined in this article are examples of the best of pediatric radiology research and science from around the world.

## Argentina Society of Radiology

*Revista Argentina de Radiología*

**Editor:** Claudia Cejas

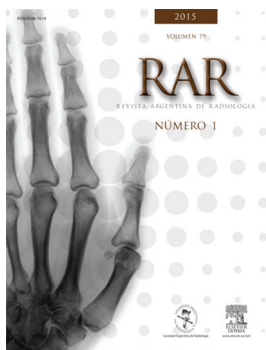
**URL:** Spanish: <http://bit.ly/1f7wjZl>  
English: <http://bit.ly/1I5HZt0>

Unusual causes of pediatric gastric outlet obstruction. Utility of ultrasound

**Authors:** J Lostra, C Cermeño, L Busquet, S Moguillansk, E Dardanelli

**Issue:** January–March 2015

A stomach filled with liquid is easily observed via ultrasound. The protocol includes longitudinal and transverse views of the stomach to evaluate muscle wall thickness and the gastric outlet. The aim of this study is to show the usefulness of sonography in the diagnosis of gastric outlet obstruction of uncommon cause.



## Brazilian College of Radiology and Diagnostic Imaging

*Radiologia Brasileira*

**Editor:** Edson Marchiori

**URL:** <http://bit.ly/1CFTIBH>

Incidence and Imaging Findings of Lymphoma After Liver Transplantation in Children

**Authors:** A Galvão, V Bitencourt, PN Vieira Pinto, MF Arruda Almeida, et al.

**Issue:** January/February 2012

Posttransplantation lymphoproliferative disorder is a relatively uncommon and potentially fatal complication that may occur at any time after pediatric liver transplantation. This study evaluates the incidence and imaging findings of lymphoma after liver transplantation in children.



## Chinese Society of Radiology

*Chinese Journal of Radiology*

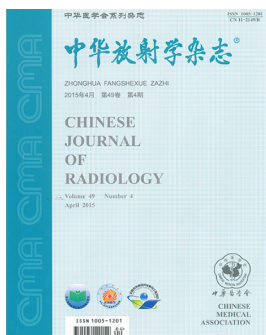
**Editor:** Hong Gao

**URL:** <http://bit.ly/1Jk9f1q>

MRI Assessment of Fetal Autosomal Recessive Polycystic Kidney Disease

**Authors:** S Dong, M Zhu, Y Zhong, H Zhang, H Pan

**Issue:** December 2014



MRI is useful in the diagnosis of fetal autosomal recessive polycystic kidney disease (ARPKD) and can be used to accurately evaluate kidney and lung abnormalities. This article explores the value of MRI in diagnosing fetal ARPKD.

## Chinese Taipei Society of Radiology (Taiwan)

*Journal of Radiological Science*

**Editor:** Rheun-Chuan Le

**URL:** <http://bit.ly/1LcGCJu>

Magnetic Resonance Imaging Evaluation for Predictive Factors of Cochlear Nerve Deficiency in Pediatric Cochlear Implant Candidates

**Authors:** YL Lin, CM Wu, CH Toh, MC Wong, et al.

**Issue:** June 2013

Children with sensorineural hearing loss often present to otolaryngologists before adolescence. The presence of a functioning cochlear nerve fiber is a crucial issue in the preoperative evaluation of pediatric cochlear implant candidates. The purpose of this study is to determine whether an inner ear or internal acoustic canal anomaly can serve as a reliable predictive factor for the presence of cochlear nerve deficiency.



## Colombian Association of Radiology

*Revista Colombiana de Radiología*

**Editor:** Sonia Bermúdez Muñoz

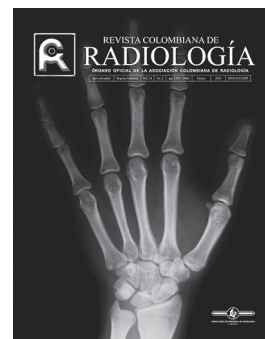
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Pulmonary Aspergillus in Pediatric Patient By CT

**Authors:** A Vives, D Palau, L Henao, LA Moreno, L Jaramillo

**Issue:** June 2013

Pulmonary aspergillosis is a mycotic disease with many manifestations that vary according to the immunological status of the patient. The radiologist plays an important role in its diagnosis, especially in early detection. This article outlines the different forms of aspergillosis in children.



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## Japan Radiological Society

*Japanese Journal of Radiology*

**Editor:** Nagara Tamaki

**URL:** <http://bitly/1SpsU56>

Efficacy of Preoperative Transcatheter Arterial Chemoembolization Combined With Systemic Chemotherapy for Treatment of Unresectable Hepatoblastoma in Children

**Authors:** M Hirakawa, A Nishie, Y Asayama, N Fujita, K Ishigami, et al.

**Issue:** September 2014

Hepatoblastoma is the most common malignancy of the liver among infants and children. Resectability of the primary tumor is the most important factor in the long-term survival of children with hepatoblastoma; however, 50% of cases are unresectable. This retrospective study evaluates the clinical efficacy of preoperative transcatheter arterial chemoembolization combined with systemic chemotherapy for treatment of unresectable hepatoblastoma.



## Korean Society of Radiology

*Korean Journal of Radiology*

**Editor:** Yeon Hyeon Choe

**URL:** <http://bitly/1K9f199>

Effect of Arterial Deprivation on Growing Femoral Epiphysis: Quantitative Magnetic Resonance Imaging Using a Piglet Model

**Authors:** JF Cheon, WJ Yoo, IO Kim, WS Kim, YH Choi

**Issue:** May/June 2015

It is generally accepted that disruption of blood supply to the growing femoral head is a key pathogenetic mechanism of Legg-Calvé-Perthes disease. This study investigates the usefulness of dynamic contrast-enhanced MRI and diffusion MRI for the evaluation of femoral head ischemia in skeletally immature piglets.



## Mexican Society of Radiology and Imaging

*Anales de Radiología México*

**Editor:** Oscar Quiroz Castro

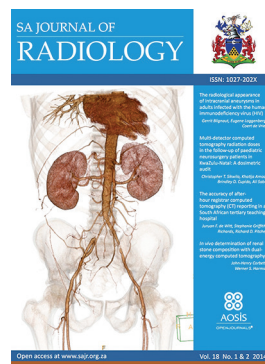
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Resonancia Magnética Del Síndrome de Encefalopatía Posterior Reversible en Niños Mexicanos

**Authors:** G Gómez-Garza, D Singh-Urias, V Higuera-Ortiz, MA Mora-Tizcareño, S Saltzman-Girshevich

**Issue:** December 2014

Posterior reversible encephalopathy syndrome is an uncommon condition. This article describes the characteristics of posterior reversible encephalopathy syndrome in Mexican children and compares the results with those reported in the specialized literature.



## Radiological Society of South Africa

*South African Journal of Radiology*

**Editor:** Razaan Davis

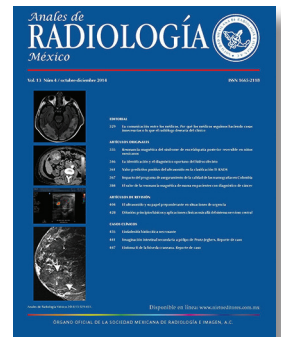
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Unusual Cause of Paraplegia in a Child of 5 Years

**Authors:** N Khan, I Vandewerke

**Issue:** July 2014

Hydatid disease is a rare infection caused by the larvae of *Taenia*, *Echinococcus granulosus*, and less commonly *Echinococcus multilocularis*. Hydatid disease of the spine affects the vertebral column in 0.2% to 1% of all patients. This article reports a case of extradural hydatid cyst involving a 5-year-old boy.



## Royal Australian and New Zealand College of Radiologists

*Journal of Medical Imaging and Radiation Oncology*

**Editor:** David Ball

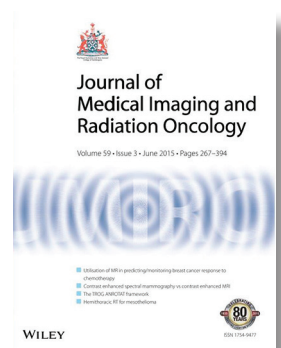
**URL:** <http://bitly/1KaJjyw>

Radiographic Skeletal Survey for Non-Accidental Injury: Systematic Review and Development of a National New Zealand Protocol

**Authors:** KL Phillips, ST Bastin, D Davies-Payne, et al.

**Issue:** June 2015

Clinically occult fractures from nonaccidental injury are best detected on radiographic skeletal survey. A standardized protocol for radiographic skeletal survey protocol has been developed in New Zealand. This article undertakes a systematic review of the evidence supporting skeletal survey protocols to design a protocol that could be implemented across New Zealand.



## Spanish Society of Medical Radiology

*Radiología*

**Editor:** José María García Santos

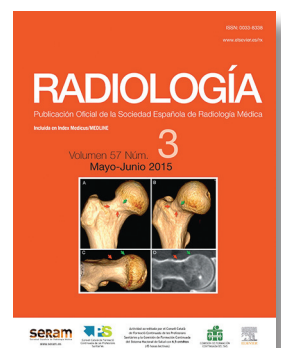
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La Articulación Temporomandibular en la Artritis Idiopática Juvenil: Lo Que el Radiólogo Debe Buscar en la Resonancia Magnética

**Authors:** M De La Hoz Polo, M Navallas

**Issue:** September/October 2014

Juvenile idiopathic arthritis encompasses arthritis of unknown cause with onset before the age of 16 that last for at least 6 weeks. The prevalence of temporomandibular joint involvement in published series ranges from 17% to 87%. This article describes the MRI technique for evaluating the temporomandibular joint in patients with juvenile idiopathic arthritis, defines the parameters to look for, and illustrates the main findings.



See <http://www.arrs.org/International/> for complete list of global partners.