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Manuscript Type: CASE REPORT

Novel approach for the diagnosis of occult cytomegalovirus cholangitis after pediatric liver transplantation: A case report

Liu Y *et al.* Occult cytomegalovirus cholangitis after pediatric LT

Ying Liu, Li-Ying Sun, Zhi-Jun Zhu, Wei Qu

Abstract

BACKGROUND

⁵ Cytomegalovirus (CMV) infection is a common infection in liver transplant recipients, which is related to the chronic rejection and biliary complications. It is often diagnosed based on serum CMV-DNA or CMV pp65. ² To our knowledge, this is the first case report of a successfully treated adult

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CMV DNA was identified in 60% of BA patients at the time of diagnosis in one study ... Myrcludex B, may provide a novel approach to reducing bile acid burden in the liver . Two agents currently in common clinical use in pediatric liver diseases, bile acid sequestrants (cholestyramine or colesevelam) and ursodeoxycholic acid, ...

Cited by: 18 Author: Jorge A. Bezerra, Rebecca G. Wells, Cara L... Publish Year: 2018

Cytomegalovirus Infection in Normal and Immunocompromised ...

<https://www.researchgate.net/publication/12488757...>

Cytomegalovirus (CMV), a member of the Herpesviridae family of DNA viruses, is an important pathogen in the immunocompromised host. The patterns of organ involvement and clinical disease can be ...

Cytomegalovirus in immunocompromised children

<https://www.researchgate.net/publication/279066400...>

The purpose of this study is to explore the latest developments in the risk factors, prevention and treatment of cytomegalovirus (CMV) infection in immunocompromised children, including those with ...

Biliary complications following liver transplantation in ...

<https://www.researchgate.net/publication/5687330...>

Biliary complications following liver transplantation in the model for end-stage liver disease era: Effect of donor, recipient, and technical factors

Liver Transplant Pathology: Review of Challenging ...

<https://www.sciencedirect.com/science/article/pii/S1875918113000317>

Histopathologic assessment of allograft liver biopsies has an important role in managing patients who have undergone liver transplantation. In this review, several topics are discussed that create diagnostic problems in transplant pathology, with emphasis on pathologic features and differential diagnosis.

Author: Bitu V. Naini, Charles R. Lassman Publish Year: 2013

Oral Abstracts (Abstracts 1–299) - 2018 - Hepatology ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.30256>

Total bile acid (TBA) levels increase in liver injury and primary sclerosing cholangitis (PSC). Mast cells (MCs) express BA receptors/transporters and inhibition of MC-derived histamine decreases TBA levels in PSC mice. After bile duct ligation (BDL), MCs infiltrate the liver inducing damage and fibrosis.

List of Contents - 2018 - Journal of Gastroenterology and ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/jgh.14494>

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Progressive familial intrahepatic cholestasis: diagnosis ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6136920>

Sep 10, 2018 · **Liver transplantation (LT)** Progressive familial intrahepatic cholestasis is among the five most common indications for orthotopic **liver transplantation** in children. When medical treatment or biliary diversions fail to enable relief of **symptoms** or end-stage **liver disease (ESLD)** develops, **liver transplantation** is considered.

Cited by: 1 Author: Mithat Gunaydin, Asudan Tugce Bozkurter ...

Publish Year: 2018

CMV: Prevention, Diagnosis and Therapy - Kotton - 2013 ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/ajt.12006>

Jan 24, 2013 · **CMV: Prevention, Diagnosis and Therapy**. Abstract. **Cytomegalovirus (CMV)** is the most common **infection after organ transplantation** and has a major impact on morbidity, mortality and graft survival. Optimal **prevention, diagnosis and treatment** of active **CMV infection** enhance transplant outcomes, and are the focus of this section.

Cited by: 188 Author: C. N. Kotton

Publish Year: 2013

A Novel Approach in Combined Liver and Kidney ...

<https://www.researchgate.net/publication/301705963...>

(13) The rationale of this **novel approach (delayed implantation of the kidney graft up to 2-3 days in CLKT)** was to offer a less hostile environment with a more stable recipient at the time of KT ...

(PDF) De Novo Inflammatory Bowel Disease After Pediatric ...

<https://www.researchgate.net/publication/26775347...>

The development of **de novo Crohn's disease (CD) after orthotopic liver transplantation (OLT)** is rare, possibly due to the continuous use of immunosuppressive treatment.

Long-term Outcomes of ABO-incompatible Pediatric Living ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6166697>

Sep 24, 2018 · In such a case, **treatment with bortezomib**, which is a **proteasome inhibitor**, can be considered as another option. 29,30 Recently, **eculizumab**, which is a monoclonal antibody that blocks the complement pathway, is successfully used for the **treatment of AMR after pediatric LT**. 31 In this report, **eculizumab** was used for recipient showing refractory AMR associated with C1q-binding donor ...

Cited by: 7 Author: Masaki Honda, Yasuhiko Sugawara, Masas...

Publish Year: 2018

A novel approach to the management of late-onset liver ...

<https://www.sciencedirect.com/science/article/pii/S0022346803008996>

A **novel approach** to the management of late-onset **liver failure** in biliary atresia. ... with a high incidence of subsequent **transplantation**. 2. We report the use of a combined **approach** with surgical and interventional radiology techniques to help reestablish bile flow in the portoenterostomy (PE) and perhaps delay the need for **liver** ...

Cited by: 4 Author: Saleem Islam, Narasimham Dasika, Ronald...

Publish Year: 2004

Autoimmune liver disease, autoimmunity and liver ...

<https://www.sciencedirect.com/science/article/pii/S0168827813006806>

De novo autoimmune hepatitis after liver transplantation. A clinical entity sharing the biochemical, immunological, and histological characteristics of AIH, called **de novo AIH (dn-AIH)**, has been well described in adults and children undergoing LT for a range of diseases unrelated to **autoimmunity** ...

Cited by: 120 Author: Marco Carbone, James M. Neuberger, Jam...

Publish Year: 2014

Biliary Reconstruction in Pediatric Liver Transplantation ...

<https://www.researchgate.net/publication/276543521...>

Take-back surgery for a **nonbiliary** indication in the first month after **liver transplantation** was also identified as a **novel risk factor** for the development of **biliary complications** (OR, 1.80; P ...

Next generation sequencing in pediatric hepatology and ...

<https://aasidpubs.onlinelibrary.wiley.com/doi/10.1002/lt.24964>

Next generation sequencing in **pediatric hepatology** and **liver transplantation**. Emanuele Nicastro. ... it detects a great number of variants of unknown significance that can be misinterpreted and lead to an incorrect **diagnosis**. In **pediatric hepatology**, targeted NGS can be very valuable to discriminate neonatal/infantile cholestatic disorders ...

Cited by: 16 Author: Emanuele Nicastro, Lorenzo D'Antiga

Publish Year: 2018

BILIARY ATRESIA: Clinical and Research Challenges for the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6167205>

CMV DNA was identified in 60% of BA patients at the time of **diagnosis** in one study and immunological studies of infants with BA reported a **liver memory T cell response to CMV** in 56% of patients. In another study, a subgroup of BA patients with **CMV-IgM positivity at diagnosis** had higher rates of jaundice, **liver inflammation**, fibrosis and need ...

Cited by: 18 Author: Jorge A. Bezerra, Rebecca G. Wells, Cara L...

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