



Original Article

Prenatal diagnosis of umbilical cord cyst: Clinical significance and prognosis



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ABSTRACT

Objective: Clarify the prognosis of the prenatal ultrasound diagnosis of umbilical cord cysts at any gestation trimester and to assess the ultrasound findings and chromosomal alterations associated to this entity.

Materials and methods: Between 2003 and 2015 a multicenter study was carried out, collecting, in five centers in Spain, the associated findings and perinatal outcomes of 27 cases of umbilical cord cysts, regardless of gestational age at diagnosis. A bibliographic review was conducted to identify previous studies in order to compare them with our data.

Results: In our sample, the prognosis of this finding and the neonatal outcome, when isolated, is favorable, regardless of gestational age at diagnosis, multiple or unique presentation or vanishing or persistent cysts.

Conclusions: It is important to properly assess the umbilical cord cyst and when is diagnosed, it is recommended to conduct a meticulous ultrasound examination searching for other associated malformations. In our study the prognosis of this finding seems to be favorable when isolated. Also, there is no relation between prognosis and gestation weeks at diagnosis. On the other hand, when we find this entity with associated anomalies, it is recommended to assess the need to carry out a karyotype.

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Introduction

Although umbilical cord cysts are a relatively common, they cannot be considered a non-pathological ultrasound finding. Some reviews indicate that small cysts can be found in up to 3% of pregnancies in the first trimester. Sometimes are associated with other structural and/or chromosomal malformations (even up to 20%), [1–7]. If they are persistent and progressive in size, they can compromise the fetus by restricting blood flow through the umbilical cord, either by compression or thrombosis [1,8].

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With the widespread use of the ultrasound for prenatal control (for example, in Spain for low-risk pregnancies, three ultrasound scans are performed during pregnancy), intrauterine abnormalities involving the umbilical cord are routinely diagnosed, being umbilical cysts the second most frequent disorder founded [9].

This is the first work published so far in which data has been collected and compared from cases diagnosed in any of the gestation trimesters, trying to clarify the prognosis associated to prenatal diagnosis of this entity. Also, the ultrasound findings more frequently associated to this entity and related to chromosomal alterations are described for a better management during pregnancy.

Material and methods

IRB: CP03/2015. The study was conducted between 2003 and 2015 involving five Spanish centers. Three public hospitals, Miguel Servet University Hospital in Zaragoza and Gregorio Marañón

Prenatal Diagnosis And Prognosis

Michael Rajnik



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Circulating Nucleic Acids in Early Diagnosis, Prognosis and Treatment Monitoring Peter B. Gahan, 2014-11-18 DNA and RNA fractions can be isolated from a variety of body fluids including whole blood serum plasma urine saliva and cerebrospinal fluid from both patients and healthy individuals Such isolates can be exploited in the early detection of clinical disorders stratification of patients for treatment treatment monitoring and clinical follow up In addition the use in fetal medicine allows the early detection of fetal sex Rh factor and aneuploid disorders as well as following both fetal and premature born infant development This volume is intended as a primer for those who are interested in entering the field of circulating nucleic acids The areas covered in this volume include Background and general biology of circulating nucleic acids Methodology Applications of circulating nucleic acids Quality Assurance Ethics **Physician's Guide to the Diagnosis, Treatment, and Follow-Up of Inherited Metabolic Diseases** Nenad Blau, Carlo Dionisi Vici, Carlos R. Ferreira, Christine Vianey-Saban, Clara D. M. van Karnebeek, 2022-02-21 This updated and enlarged second edition is a unique source of information on the diagnosis treatment and follow up of metabolic diseases The clinical and laboratory data characteristic of rare metabolic conditions can be bewildering for clinicians and laboratory personnel alike reference laboratory data is scattered and clinical descriptions can be obscure The new Physician's Guide with the additional more than 600 diseases now featured documents 1200 conditions grouped according to type of disorder organ system affected e.g. liver kidney etc or phenotype e.g. neurological hepatic etc It includes relevant clinical findings and highlights the pathological values for diagnostic metabolites Guidance on appropriate biochemical genetic testing is also provided and established experimental therapeutic protocols are described with recommendations on follow up and monitoring The authors are acknowledged experts and the book is a valuable desk reference for all who deal with inherited metabolic diseases Chapter 73 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com **Donald School Basic Textbook of Ultrasound in Obstetrics & Gynecology** V. D'Addario, 2014-11-30 The second edition of this book has been fully updated to provide clinicians with developments in the role of ultrasound in the care of pregnant women Beginning with an overview of ultrasound techniques the following chapters discuss normal foetal anatomy and abnormal signs providing in depth coverage of the appearance of malformations in different systems of the foetus anatomy including gastrointestinal urinary thorax skeletal and the central nervous system The final sections examine ultrasound of the placenta uterus fallopian tubes the umbilical cord ovaries and much more Separate chapters are dedicated to twins and evaluation of benign pelvic masses Written by an experienced specialist from Bari University Medical School Italy this new edition has been fully revised and includes new information on recent techniques such as 3D and 4D ultrasound More than 1000 ultrasound images and illustrations enhance the comprehensive text Key points Second edition presenting clinicians with recent developments in obstetric and gynaecological ultrasound Includes more than 1000 ultrasound images and illustrations

Written by expert from Bari University Medical School Italy Previous edition published in 2008 Manual of Endocrinology and Metabolism Norman Lavin, 2012-03-28 Now in its Fourth Edition this Spiral Manual presents clinical information and protocols in outline format for evaluation and treatment of most endocrine disorders in children adolescents and adults This thoroughly updated edition includes an introduction to risk assessment and screening and results of recent clinical trials and their implications for treatment and prevention Also included are summaries of recent guidelines from the Endocrine Society and the American Academy of Clinical Endocrinology for prevention and management of many endocrine disorders including diabetes growth hormone deficiency dysmetabolic syndrome dyslipidemia and obesity New chapters focus on comorbidities of Type II diabetes mellitus in children and use of growth hormone in adults Diagnostic Ultrasound in Pregnancy Charlotte Kenton, 1984 *Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease, Seventh Edition* Roger N. Rosenberg, Juan M. Pascual, 2024-10-04 Rosenberg's Molecular and Genetic Basis of Neurologic and Psychiatric Disease Seventh Edition provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease This volume has been thoroughly revised and includes newly commissioned chapters on ethics genetic counselling and genet therapy for the central nervous system disorders A favorite of over four generations of students clinicians and scholars this new edition retains and expands the informative concise and critical tone of the previous edition This is an essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and neurology research community at large Both volumes combined provide a comprehensive coverage on the neurogenetic foundation of neurological and psychiatric disease This volume provides a detailed introduction on both the clinical and basic research implications of molecular and genetics surrounding the brain Includes new chapters on genomics of human neurological disorders CRISPR and genome engineering

Literature Search National Library of Medicine (U.S.), 1984 *Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease* Roger N. Rosenberg, Juan M. Pascual, 2020-06-24 Rosenberg's Molecular and Genetic Basis of Neurologic and Psychiatric Disease Sixth Edition Volume One provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease A favorite of over three generations of students clinicians and scholars this new edition retains and expands the informative concise and critical tone of the first edition This is an essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and neurology research community The content covers all aspects essential to the practice of neurogenetics to inform clinical diagnosis treatment and genetic counseling Every chapter has been thoroughly revised or newly commissioned to reflect the latest scientific and medical advances by an international team of leading scientists and clinicians The contents have been expanded to include disorders for which a genetic basis has been recently identified together with abundant original illustrations that convey and clarify the key points of the text in an attractive

didactic format Comprehensive coverage of the neurogenetic foundation of neurological and psychiatric disease Provides a detailed introduction on both the clinical and basic research implications of molecular and genetics surrounding the brain Includes new chapters on molecular genomics CRISPR and the most recent updates in molecular genetics **Encyclopedia of Movement Disorders** ,2010-02-26 The Encyclopedia of Movement Disorders is a comprehensive reference work on movement disorders encompassing a wide variety of topics in neurology neurosurgery psychiatry and pharmacology This compilation will feature more than 300 focused entries including sections on different disease states pathophysiology epidemiology genetics clinical presentation diagnostic tools as well as discussions on relevant basic science topics This Encyclopedia is an essential addition to any collection written to be accessible for both the clinical and non clinical reader Academic clinicians translational researchers and basic scientists are brought together to connect experimental findings made in the laboratory to the clinical features pathophysiology and treatment of movement disorders The Encyclopedia targets a broad readership ranging from students to general physicians basic scientists and Movement Disorder specialists Published both in print and via Elsevier s online platform of Science Direct this Encyclopedia will have the enhanced option of integrating traditional print with online multimedia Connects experimental findings made in the laboratory to the clinical features pathophysiology and treatment of movement disorders Encompasses a wide variety of topics in neurology neurosurgery psychiatry and pharmacology Written for a broad readership ranging from students to general physicians basic scientists and movement disorder specialists Rising Stars in Pediatric Cardiology 2023 Laura Muiño Mosquera ,Liquan Sun,2024-07-24 Recognizing the future leaders of pediatric cardiology is fundamental to safeguarding tomorrow s driving force in innovation This collection will showcase the high quality work of internationally recognized researchers in the early stages of their careers We aim to highlight research by leading scientists of the future across the entire breadth of pediatric cardiology and present advances in theory experiment and methodology with applications to compelling problems **Index of NLM Serial Titles** National Library of Medicine (U.S.),1984 A keyword listing of serial titles currently received by the National Library of Medicine Intrauterine Growth Retardation (IUGR) Charlotte Kenton,1983 **Circulating biomarkers for diagnosis, prognosis and treatment response prediction in cancer - Part A** ,2025-02-21 Circulating Biomarkers for Diagnosis Prognosis and Treatment Response Prediction in Cancer Patients Part A Volume 391 delves into the crucial role of circulating biomarkers in cancer diagnosis and treatment monitoring Specific chapters in this new release include Circulating biomarkers for diagnosis and response to therapies in cancer patients Identification of circulating tumor DNA as a biomarker for diagnosis and response to therapies in cancer patients Identification of cell free circulating epigenomic biomarkers for early diagnosis and response to therapies in breast cancer patients Expanding frontiers in liquid biopsy discovery and validation of circulating biomarkers in renal cell carcinoma and bladder cancer and much more This comprehensive work explores the various types of biomarkers their significance in early cancer detection prognostication

and evaluation of therapeutic responses It covers cutting edge research on circulating tumor cells cell free DNA exosomes and other biomarkers that can revolutionize cancer management Additionally it discusses the challenges advancements and future prospects of utilizing circulating biomarkers in personalized cancer care Provides a comprehensive overview of circulating biomarkers used in cancer diagnosis prognosis and treatment response monitoring Discusses the clinical utility of circulating biomarkers in early cancer detection prognostication treatment selection and monitoring therapeutic responses Explores the latest technologies and methodologies for the detection quantification and analysis of circulating biomarkers in cancer patients

Diseases of Renal Parenchyma Manisha Sahay, 2012-03-16 Clinical nephrology is an evolving speciality in which the amount of information is growing daily This book gives quick access to some important clinical conditions encountered in nephrology including the diseases of glomeruli tubules and interstitium It presents the latest information on pathophysiology diagnosis and management of important diseases of renal parenchyma The information is presented in a very user friendly and accessible manner while the treatment algorithms enable the reader to quickly access expert advice on arriving at the most appropriate treatment regimen The book discusses the renal involvement in various systemic diseases including diabetes and autoimmune diseases Diabetic nephropathy is fast becoming the commonest cause of end stage renal disease all over the globe and is discussed in this book The editors believe that this book will be a valuable addition to the reader's library

Échographie en pratique obstétricale Philippe Bourgeot, Véronique Houfflin-Debarge, Yann Robert, Yves Ardaens, Julien Bigot, C. Coulon, Pascal Vaast, Bernard Guérin du Masgenêt, 2021-04-27 L'ultrason et l'outil échographique ont un bel avenir La vitesse d'acquisition et la qualité de l'image s'améliorent sans cesse pour s'ouvrir au monde fascinant de la 3D L'étude anatomique s'affine la surveillance fœtale devient précise et l'imagerie des flux renseigne en temps réel sur le fonctionnement de l'unité fœtoplacentaire Mais par dessus tout l'échographie obstétricale s'ouvre tous et toutes toutes les grossesses normales et pathologiques de la conception à l'accouchement et tous les soignants radiologues sages femmes et obstétriciens spécialistes et généralistes hôpital et en médecine de ville La miniaturisation et la numérisation la puissance de calcul la technologie des transducteurs un peu d'intelligence artificielle l'ont rendue ubiquitaire et incontournable Ce précis d'imagerie échographique couvre toute la surveillance de la grossesse et il est le fruit d'une longue collaboration 30 ans entre obstétriciens et radiologues Cette 6^{ème} édition présente une importante mise à jour des textes elle intègre les dernières avancées techniques ainsi que les recommandations de bonnes pratiques elle compte plus de 2500 figures et images elles aussi largement renouvelées L'édition numérique associée permet une navigation rapide dans l'ensemble de l'ouvrage et une consultation en mobilité Le plan reste classique les aspects techniques et fondamentaux de l'échographie pendant la grossesse l'utérus gravide et les ovaires le fœtus de la grossesse et la GEU le placenta et les annexes du fœtus l'examen du fœtus normal la surveillance de la croissance et de la vitalité fœtale la pathologie malformative huit chapitres les anomalies chromosomiques les infections fœtales et les grossesses multiples Enfin un nouveau chapitre est consacré à l'échographie interventionnelle pendant la

grossesse **Genetic Counseling** Geraldine D. Nowak,1978 Current Medical Diagnosis & Treatment 1990 Lawrence M. Tierney,1990 **Batten Disease: Diagnosis, Treatment, and Research** ,2001-04-23 This title will present all current knowledge of Batten disease from research to clinical evaluation NCL is not well recognized in underdeveloped countries because the diagnostic technology is lacking With the information in this volume however a specific diagnosis of NCL could be made Also specific familial mutations obtained through genetic tests may guide prenatal diagnoses for at risk families

Inborn Metabolic Diseases John Fernandes,Jean-Marie Saudubray,Georges van den Berghe,2013-03-14 Five years have passed since the second edition of With respect to the contents of the book most chapters have been rewritten or extensively revised A Inborn Metabolic Diseases Diagnosis and Treatment was published The third edition now being presented few chapters from the second edition have been deleted since their contents are discussed in other has been thoroughly updated and revised Again the clinical presentation the methods to arrive at the chapters of the present edition A few new chapters diagnosis and the treatment of the patient have have been introduced such as a general chapter on remained the focus of the book that for a large part treatment which gives a comprehensive list of present has been written by clinicians for clinicians The scope treatments and new trends a chapter on persistent of the readership has enlarged from the original teams hyperinsulinemic hypoglycemia a combined chapter of pediatricians biochemists and dieticians it now also on disorders of ketogenesis and ketolysis a chapter on disorders of proline and serine metabolism a chapter encompasses neurologists internists geneticists and psychosocial workers This reflects the fact that for on disorders of cholesterol synthesis and a chapter on many inborn metabolic diseases the survival of the defective leukotriene synthesis For more detailed patients and their quality of life have improved In Utero Pediatrics Kun Sun,2023-06-16 This book is to provide readers with an overview of in utero Pediatrics an interdisciplinary medicine focusing on sequential and comprehensive care for fetuses and children who have functional and or structural disorders originated from in utero It covers congenital disorders in cardiology neurosurgery urology general surgery endocrine genetics and other related topics Each chapter starts with the basic theory illustrates clinical practices on certain congenital disorders and summaries recent research and advances in the field Written by experts with wealthy experiences this case based book will be a valuable reference for pediatricians and perinatologists as well as those who are interested in this field

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