



Original Article

Prenatal diagnosis of umbilical cord cyst: Clinical significance and prognosis



Leyre Ruiz Campo ^{a,*}, Ricardo Savirón Cornudella ^a, Francisco Gámez Alderete ^c,
Cristina Martínez-Payo ^b, Pilar Pérez Pérez ^a, Pilar Garrido Fernández ^a,
Diego Lerma Puertas ^a

^a Department of Obstetrics and Gynecology, Hospital Universitario Miguel Servet, Zaragoza, Spain

^b Department of Obstetrics and Gynecology, Hospital Universitario Puerta de Hierro, Madrid, Spain

^c Department of Obstetrics and Gynecology, Hospital Universitario Gregorio Marañón, Madrid, Spain

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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].

* Corresponding author. Department of Obstetrics and Gynecology, Hospital Universitario Miguel Servet C, Isabel la Católica, 1-3, 50009 Zaragoza, Spain.

E-mail addresses: leyre.ruizcampo@hucm.es (L. Ruiz Campo), rsaviron@gmail.com (R. Savirón Cornudella), fgamez@hucm.es (F. Gámez Alderete), cmartinezp@hucm.es (C. Martínez-Payo), pperezp@hucm.es (P. Pérez Pérez), pgarrido@hucm.es (P. Garrido Fernández), lerma@hucm.es (D. Lerma Puertas).

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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

Charlotte Kenton



Prenatal Diagnosis And Prognosis:

Decoding **Prenatal Diagnosis And Prognosis**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Prenatal Diagnosis And Prognosis**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Prenatal Diagnosis And Prognosis

1. Understanding the eBook Prenatal Diagnosis And Prognosis
 - The Rise of Digital Reading Prenatal Diagnosis And Prognosis
 - Advantages of eBooks Over Traditional Books
2. Identifying Prenatal Diagnosis And Prognosis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prenatal Diagnosis And Prognosis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prenatal Diagnosis And Prognosis
 - Personalized Recommendations
 - Prenatal Diagnosis And Prognosis User Reviews and Ratings
 - Prenatal Diagnosis And Prognosis and Bestseller Lists

5. Accessing Prenatal Diagnosis And Prognosis Free and Paid eBooks
 - Prenatal Diagnosis And Prognosis Public Domain eBooks
 - Prenatal Diagnosis And Prognosis eBook Subscription Services
 - Prenatal Diagnosis And Prognosis Budget-Friendly Options
6. Navigating Prenatal Diagnosis And Prognosis eBook Formats
 - ePub, PDF, MOBI, and More
 - Prenatal Diagnosis And Prognosis Compatibility with Devices
 - Prenatal Diagnosis And Prognosis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prenatal Diagnosis And Prognosis
 - Highlighting and Note-Taking Prenatal Diagnosis And Prognosis
 - Interactive Elements Prenatal Diagnosis And Prognosis
8. Staying Engaged with Prenatal Diagnosis And Prognosis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prenatal Diagnosis And Prognosis
9. Balancing eBooks and Physical Books Prenatal Diagnosis And Prognosis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prenatal Diagnosis And Prognosis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Prenatal Diagnosis And Prognosis
 - Setting Reading Goals Prenatal Diagnosis And Prognosis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prenatal Diagnosis And Prognosis
 - Fact-Checking eBook Content of Prenatal Diagnosis And Prognosis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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