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Molar pregnancy: causes, diagnosis, and treatment methods

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Summary

This thesis explores the topic of molar pregnancy, a rare but serious form of gestational trophoblastic disease (GTD) caused by abnormal fertilization, leading to the atypical growth of placental tissue. Molar pregnancy is classified into two main types: complete mole and partial mole, both characterized by swelling of the chorionic villi and abnormally high levels of hCG hormone. The study provides a comprehensive overview of normal placental development and explains the genetic and biological mechanisms leading to molar pregnancy. It also discusses clinical signs such as vaginal bleeding, uterine enlargement, and symptoms related to elevated hCG levels. Diagnostic methods like ultrasound imaging and hCG measurement are emphasized for early and accurate detection. Treatment options include surgical evacuation, chemotherapy in cases of malignant transformation, and close hormonal monitoring to prevent recurrence. The study also addresses the impact on future fertility and the risk of recurrence, supported by epidemiological data on its prevalence and risk factors. In addition, the psychological and emotional impact of molar pregnancy is examined, highlighting the importance of mental health support and patient education. Ultimately, this thesis stresses the need for early diagnosis, appropriate treatment, and long-term follow-up to ensure full recovery and safeguard both the physical and emotional well-being of affected women.

key words: Hydatidiform mole, Molar pregnancy, Complete mole, Partial mole, Gestational trophoblastic disease (GTD), Trophoblast, Chorionic villi, Abnormal placental development.

الملخص

تتناول هذه المذكرة موضوع الحمل العنقودي، وهو شكل نادر ولكنه خطير من أمراض الأرومة الغاذية الحملية (GTD)، وينتج عن إخصاب غير طبيعي يؤدي إلى نمو غير طبيعي في أنسجة المشيمة. يُصنّف الحمل العنقودي إلى نوعين رئيسيين: الحمل العنقودي الكامل والحمل العنقودي الجزئي، وكلاهما يتميز بتضخم الزغابات المشيمية وارتفاع غير طبيعي في مستويات هرمون hCG. تقدم هذه الدراسة نظرة شاملة حول التطور الطبيعي للمشيمة، وتشرح الآليات الجينية والبيولوجية التي تؤدي إلى حدوث الحمل العنقودي. كما تُناقش العلامات السريرية مثل النزيف المهبلي، وتضخم الرحم، والأعراض المرتبطة بارتفاع هرمون hCG ويتم التركيز على وسائل التشخيص مثل التصوير بالموجات فوق الصوتية وقياس hCG للكشف المبكر والدقيق. تشمل خيارات العلاج: الإستئصال الجراحي، والعلاج الكيميائي في حال حدوث تحوّل خبيث، بالإضافة إلى المراقبة الهرمونية الدقيقة لمنع حدوث. وتتناول الدراسة كذلك التأثير على الخصوبة المستقبلية وخطر التكرار، مدعومة ببيانات وبائية حول الانتشار وعوامل الخطر. كما تتناول المذكرة التأثير النفسي والعاطفي للحمل العنقودي، وتُبرز أهمية الدعم النفسي وتوعية المريضة. في الختام، تؤكد هذه الأطروحة على ضرورة التشخيص المبكر، والعلاج المناسب، والمتابعة طويلة المدى لضمان الشفاء التام والحفاظ على الصحة الجسدية والنفسية للنساء المتأثرات.

الكلمات المفتاحية : الحمل العنقودي ، حمل عنقودي كامل ، حمل عنقودي جزئي، مرض الأرومة الغاذية الحملية ، الأرومة الغاذية ، الزغابات المشيمية ، تطور غير طبيعي للمشيمة.