Complete Molar Pregnancy in Postmenopausal Woman: A Rare Case Report

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Abstract

BACKGROUND: Molar pregnancy, the form of the gestational trophoblastic disease (GTD), generally occurs in women of the reproductive age group, and rarely occurs in postmenopausal women. To present a rare case of molar pregnancy in a postmenopausal woman.

CASE REPORT: A multiparous woman aged 54 years was referred to the outpatient department at Raja Ahmad Tabib General Hospital of Riau Island, Indonesia with the main symptoms of nausea and vomiting profusely with 1 month before, lower abdominal pain, lump in the abdomen, abnormal vaginal bleeding, and a positive urine pregnancy test. Her last menstrual bleeding was 14 months ago. Physical examination found stable hemodynamic within blood pressure 150/95 mmHg. Laboratory results showed Hb 11.7 g/dL, positive urine pregnancy test, and serum [ß-HCG 292,676.1 mIU/mL. Ultrasound examination showed a vesicular pattern in the uterine cavity without fetal tissue. The patient was managed by elective total abdominal bilateral hysterectomy salpingo-oophorectomy. The intraoperative finding was softened, enlarged uterus size of 14–16 weeks of pregnancy, and no local spreading of disease. The patient was discharged on the 3 day after surgery.

CONCLUSION: Even though molar pregnancy is rare, it can occur in the postmenopausal woman. Therefore, GTD has remained in the differential diagnosis of postmenopausal bleeding which can prevent delay in diagnosis and management. Definitive treatment with total abdominal hysterectomy has been chosen in menopausal women who do not wish to preserve their fertility and prevent any malignant sequelae.

Introduction

Hydatidiform mole, also known as molar pregnancy, is a form of the gestational trophoblastic disease (GTD). Hydatidiform mole is caused by excess trophoblast tissue growing into abnormal masses and showing edema of the villous stroma. It is divided into complete moles and partial moles based on genetic and histopathological features [1]. A complete mole is usually diploid, consists of diffuse hydropic chorionic villi, and contains no fetal tissue, whereas a partial mole is usually triploid, often contains fetal tissues and a large placenta [1]. Mostly GTD is benign, but potentially turns to malignant which is known as gestational trophoblastic neoplasia, including invasive mole, choriocarcinoma, placental site trophoblastic tumor, and epithelioid trophoblastic tumor [2]. Approximately, 20% of complete moles turn to malignant transformation [2].

The prevalence of molar pregnancy is higher in Southeast Asia than in developed countries (North America, Australia, New Zealand, and Europe), accounting for 2/1000 pregnancies [3]. The other study found that Asians having a higher incidence compared with non-Asian (1/387 vs. 1/752 live births) [4]. In UK, molar pregnancy is a rare condition and estimated incidence of 1/714 live births [4]. While in Indonesia, the prevalence of molar pregnancy is not known due to the lack of studies.

Complete molar pregnancy generally occurs in women in the reproductive years of age. However, several risk factors of complete molar pregnancy have been reported and the most established are extreme maternal age and previous molar pregnancy. The risk of complete molar pregnancy increases for women older than 40 years old [5]. Moreover, a history of failed pregnancy including elective abortion and miscarriage may increase the risk of molar pregnancy [6].

Complete molar pregnancy is usually diagnosed during the first trimester of pregnancy through ultrasound examination for the gold standard in noninvasive modality. The management depends on age and her desire to preserve fertility [7].

We present here a rare case report with complete molar pregnancy in a postmenopausal woman.
Case Report

A 54-year-old woman was referred to the outpatient department at Raja Ahmad Tabib General Hospital of Riau Island, Indonesia with the main symptoms of nausea and vomiting profusely with 1 month before, lower abdominal pain, lump in the abdomen, abnormal vaginal bleeding, and a positive urine pregnancy test. Her last menstrual bleeding was 14 months ago. She had three normal births, one abortion needed curettage and dilatation procedure, and her last pregnancy was 12 years back. She had never taken neither contraceptive pills nor devices. She had a history of hypertension and continuing consumed oral antihypertension treatment.

Physical examination found stable hemodynamic within blood pressure 150/95 mmHg. Laboratory results showed Hb 11.7 g/dL, leukocyte 20,900/µL, platelet count 220,000/µL, FT4 0.79 ng/dL, TSH 1.9 mIU/mL, normal chest X-ray, normal renal and liver function tests, positive urine pregnancy test, and serum $\beta$-HCG 292,876.1 mIU/mL. Ultrasound examination showed a vesicular pattern in the uterine cavity without fetal tissue (Figure 1). The patient was diagnosed with GIVP3A3 gravida within complete molar pregnancy. The patient was managed by elective Total Abdominal Bilateral Hysterectomy Salpingo-Oophorectomy. The intraoperative finding was softened, enlarged uterus size of 14–16 weeks of pregnancy, and no local spreading of disease. The patient was discharged on the 3 day after surgery.

Discussion

Pregnancy rarely occurs in women over 50 years old. Although, it can be occurred in the postmenopausal age group and may develop the GTD. Moreover, the postmenopausal age group has a higher incidence and usually turning malignant of GTD [8]. The incidence of GTD in women over 40 years old increases by 7.5 until 10 times [9]. Perimenopausal age has been involved in more severe conditions because their oocytes are more apt to unnatural fertilization [10], [11]. A previous study reported 25% of patients of women aged 50 or older were diagnosed with choriocarcinoma, 35% with hydatidiform mole, and 40% with invasive mole [12]. The other study reviewed 28.4% of women aged 50 or older turning malignant disease, 47.7% benign moles, and the other 23.9% unclear pathological diagnosis [13].

The last menstrual bleeding of the patient was more than 1 year. According to the International Federation of Gynecology and Obstetrics, menopause is defined as when a woman no longer has menstrual periods for at least 1 year and after that is a postmenopausal stage [14]. Natural menopause typically occurs in aged 50s. When the woman in the menopause stage, their follicles in the ovaries decrease and make less estrogen. Thus, ovulation becomes irregular because of an incompatible level of estrogen when reaching the induction of luteinizing hormone surge. Sometimes anovulatory cycles may be interspersed with ovulatory cycles. Although pregnancy in older age is fairly uncommon, when it occurs may develop GTD due to progressive loss of ovarian function and sporadic ovulatory cycles [14].

Identification of molar pregnancy in elder women is difficult because of unexpected conditions. Diagnosis is made by anamnesis, $\beta$-HCG serum levels, gynecologic examination, and pelvic ultrasonography. Molar pregnancy commonly presents with vaginal bleeding (46%), excessive uterine size (24%), and hyperemesis (14%) [15]. Increasing $\beta$-HCG serum levels >100,000 mIU/mL indicate excess trophoblast tissue growing and raise suspicion for a molar pregnancy [15]. In this case, the patient has an abnormality high level of $\beta$-HCG 292,876.1 mIU/mL. Ultrasound examination has been chosen for initial evaluation and remained the gold standard for imaging molar pregnancy. Commonly appeared of ultrasound is an enlarged uterus filled with a heterogenous predominantly echogenic mass with several hypoechoic foci, called snowstorm appearance [7]. The management of molar pregnancy depends on the patient’s age and fertility preservation. Hysterectomy is particularly advisable for patients aged over 40 years [7]. Implicated to the high rate of malignant sequelae, total abdominal hysterectomy for the treatment of hydatidiform mole, in this case, was chosen that reasonable option for the patient who does not wish to preserve her fertility and prevents malignant Sequelae.

Conclusion

Even though molar pregnancy is rare, it can occur in the postmenopausal woman. Therefore,
GTD has remained in the differential diagnosis of postmenopausal bleeding which can prevent delay in diagnosis and management. Definitive treatment with total abdominal hysterectomy has been chosen in menopausal women to prevent any malignant sequelae.

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