

CASE REPORT



Hemosiderin Pigmentation on Hysteroscopy

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Abstract

Pigmentation on hysteroscopy is a rare finding. The authors describe a case where hysteroscopy revealed hemosiderin pigmentation on fundal endometrium. Hemosiderin pigmentation is a marker of a number of uterine afflictions including Adenomyosis and endometritis among others.

Keywords Carcinosarcoma · Uterine cancer · Staging laparotomy · Uterine malignancy

Introduction

Abnormal pigmentation on the endometrial surface is a rare finding on hysteroscopy. The authors describe a case where hysteroscopy revealed hemosiderin pigmentation on fundal endometrium.

Case Report

A 48-year-old executive with one previous vaginal delivery came with complaints of per vaginal spotting. She was a known hypertensive on telmisartan. Her past menstrual cycles were regular lasting for 4 days coming every 28 days. Intermittent spotting commenced from a month. On examination, she weighed 68 kg (BMI 25.7 kg/m²) and had a blood pressure of 140/90 mm Hg in the supine position. Ultrasonography revealed a uterus measuring $8.4 \times 6.0 \times 4$ cm in size with normal-sized ovaries. Endometrial thickness measuring 23 mm with possibility of a polyp was noted. FSH (3.5 mcg/mL) and LH (9.5 ng/mL) revealed her current hormonal status. All other preoperative investigations were within normal limits. A diagnostic hysteroscopy with curettage was planned.

Hysteroscopy was performed on a Storz Image 1 HD system. A 2.9-mm story hysteroscopy was used. Uterine polyp measuring 2×1 cm was removed. Fundal endometrium

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revealed prominent vascular markings and darkened pigmentation (Image 1). Histopathology revealed late secretory endometrium with no atypia or malignancy. She was given tranexamic acid oral for bleeding and put on cyclical combined oral contraceptive pills. She is asymptomatic and doing well. The findings are suggestive of adenomyosis.

Discussion

The paper presents a case of fundal endometrial pigmentation likely to be hemosiderin. Hemosiderin pigmentation is seen in a number of pathologies. One of the most common ones is adenomyosis. This is correlated with imaging findings of hypointense lesions on T1- and T2-weighted MRI sequences, which suggest the presence of hemosiderin on endometrial sloughing. Transcervical resection of the endometrium also can reveal small foci of hemosiderin and carbon, but these are usually less than 2 mm. Endometriosis can also cause hemosiderin pigmentation due to increased iron concentration as seen on MRI. Endometritis and endometrial hyperplasia are also possible causes [1–4].

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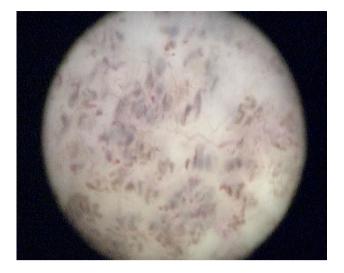


Image 1 Hysteroscopy image of fundal endometrium showing abnormal pigmentation

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Declarations

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