Endometrial ossification in a postmenopausal woman

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Abstract
A case of endometrial ossification in a 62 year old woman is reported. The patient presented with increased vaginal discharge. On transvaginal ultrasonography, a hyperechoic area within the uterine cavity, suggestive of an intrauterine foreign body, was noted. Histological examination of the endometrial curettage showed mature bone with neutrophilic infiltration. There was no evidence of malignancy.

Endometrial ossification in postmenopausal women is very rare; most women presenting with this condition are between 20 and 40 years of age. Therefore, clinicians should consider the possibility of endometrial ossification as a differential diagnosis of intrauterine foreign body on ultrasound, even in older patients. In addition, pathologists should be aware of this rare entity to avoid a misdiagnosis of malignant mixed müllerian tumor in the endometrial curettage specimen, which may result in unnecessary hysterectomy.

Keywords: endometrial ossification; postmenopausal.

Endometrial ossification is a rare occurrence, and has also been described as osseous metaplasia of the endometrium, ectopic intrauterine bone and heterotopic intrauterine bone formation. Most patients presenting with endometrial ossification are between 20 and 40 years of age and the common underlying factors are a history of menstrual irregularities, recurrent abortions, and endometritis.

Endometrial ossification may present as secondary infertility, prolonged unexplained vaginal bleeding, or intrauterine pain. An erroneous diagnosis of malignant mixed müllerian tumor in the endometrial curettage specimen should be avoided, especially in postmenopausal women. Here, we describe a rare case of endometrial ossification occurring in a postmenopausal woman.

Case report
In February 1994, a 62 year old woman, gravida 6, para 4, presented to Mizushima Central Hospital because of increased vaginal discharge. Her clinical history revealed a therapeutic abortion and a miscarriage in 1957. She had had four full-term, normal deliveries—in 1951, 1955, 1959, and 1961. She ceased menstruating in 1977. Physical and pelvic examination were unremarkable. Transvaginal ultrasound examination revealed a hyperechoic area within the uterine cavity, suggestive of an intrauterine foreign body (fig 1); however, the patient denied the use of an intrauterine contraceptive device. An endometrial curettage was performed and bone-like tissues were removed. The histological examination showed extensive ossification of the endometrium. Decalcified sections showed mature woven bone with neutrophilic infiltration. Foci of bacteria were present. Fragmentation of endometrial glands was also observed (fig 2). There was no evidence of hyperplasia, atypia or malignancy. Two years and six months after treatment with antibiotics, the patient is well and symptom-free.

Discussion
Endometrial ossification is a rare pathological occurrence, the most common underlying factor of which is a recent history of abortion, although its pathogenesis remains unclear. Endometrial ossification can be distinguished from retained fetal tissue by the absence of tissue reaction and enchondral ossification. Endometrial ossification may cause menstrual bleeding, pelvic pain, vaginal discharge, and infertility. Although our patient had a history of therapeutic abortion and miscarriage, these occurred 37 years previously. Another underly-
Figure 2 Endometrial curettage revealing the bone tissue and a fragment of an endometrial gland (arrow head) with neutrophilic infiltration.

In summary, endometrial ossification in postmenopausal women is very rare; most women presenting with this condition are between 20 and 40 years of age. Therefore, clinicians should consider the possibility of endometrial ossification as a differential diagnosis of intrauterine foreign body on ultrasound, even in older patients. In addition, pathologists should be aware of this rare entity to avoid a misdiagnosis of malignant mixed müllerian tumour in the endometrial curettage specimen, which may result in unnecessary hysterectomy.


Lithium associated autoimmune thyroiditis

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Abstract
A case of autoimmune thyroiditis after long term treatment with lithium is described in a 29 year old Japanese woman with manic depression. Positive serum antithyroglobulin and antimicrosomal antibodies, diffuse goitre, and microscopic chronic thyroiditis, as well as the clinical history of long term lithium treatment were suggestive of lithium associated autoimmune thyroiditis. Microscopically, there was a mild degree of interstitial fibrosis and a moderate degree of lymphocytic infiltration. Some areas showed a moderate degree of stromal fibrosis and atrophic thyroid follicles. Lymphoid follicles with germinal centres, disrupted thyroid follicles with lymphocytic infiltration, and Hurthle cells were also observed. The differential diagnosis in patients presenting with these histological features includes painless (silent) thyroiditis, autoimmune thyroiditis and lithium associated autoimmune thyroiditis. A detailed clinical history is essential if the correct diagnosis is to be reached. (J Clin Pathol 1997;50:172-174)

Keywords: thyroid; lithium; autoimmune thyroiditis.

Lithium has been used in the treatment of manic and hypomanic depressive disorders for many years. Long term treatment with lithium is associated with hypothyroidism, euthyroid goitre, and hyperthyroidism. Lithium has been explained adequately. Other cases of lithium related thyroid disease have been reported but...