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## Case Report

# Spuriously aggressive features of a lactating adenoma prompting repeated biopsies

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## ABSTRACT

We present an atypical presentation of a common pregnancy-related breast mass, a lactating adenoma with imaging and pathologic correlation. The patient presented with a rapidly enlarging left breast mass associated with skin changes and severe pain in the perinatal period. Core biopsies were considered discordant, and the patient went on to surgical excision for the definitive diagnosis of an infarcted lactating adenoma. The symptoms of infarction may obscure the diagnosis of common entities and result in additional evaluation.

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## Case report

A 33-year-old woman with a history of a left breast mass discovered during the first trimester of pregnancy had an image-guided biopsy early in the third trimester when the enlarging mass measured 4.5 cm. The biopsy was performed at an outside institution and yielded gestational hyperplasia. Just prior to delivery, the mass rapidly increased in size. A second core biopsy of the, now, 15 cm mass performed after delivery demonstrated gestational and secretory hyperplasia and was deemed discordant. Approximately 2 weeks postpartum, the patient presented to our institution for diagnosis and management of the large left breast mass associated with debilitating pain, erythema, and skin ulceration (Fig. 1). The mass was not adherent to the chest wall, and there was no lymphadenopathy. The right breast appeared normal.

On inspection, the medial half of the left breast was virtually replaced by a large protruding mass. The patient was experiencing severe pain and was unable to lie in a supine position. Ultrasound, performed with the patient in a semi-erect position, demonstrated a circumscribed predominately solid mass of mixed echogenicity extending from the nipple to the medial edge of the breast without associated internal vascularity (Fig. 2). Occluded milk duct abscess or infected galactocele was suspected clinically, and aspiration was requested. An ultrasound-guided aspiration was attempted during which no fluid or blood could be obtained. Surgical exploration of the unhealed biopsy tract was performed and yielded multiple fragments of tan rubbery tissue with no evidence of an abscess, raising the possibility of an angiosarcoma. The patient was admitted to the hospital for pain management and surgical excision of the mass for definitive diagnosis.

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**Fig. 1** – Preoperative photograph shows large left breast mass with skin erythema and ulceration from prior biopsy site (arrow).



**Fig. 3** – Gross photograph shows spongy, lobular, tan mass which is largely necrotic, measuring at least 16 cm in length.

A wide surgical enucleation was performed, and a 16-cm necrotic, tan, lobulated spongy mass with fibrotic capsule (Fig. 3) was shelled out from adherent surrounding breast tissue. Pathology revealed expanded lobules with closely packed glands as well as infarctive changes (Fig. 4).

## Discussion

Discovery of a breast mass during pregnancy or the postpartum period is common, and the majority of these masses are benign. Many predate the pregnancy but were clinically undetected. A third of these masses are unique to pregnancy, while the remaining two-thirds are masses that occur in like aged nonpregnant patients. A lactating adenoma is one of these unique entities and is also one of the most prevalent breast masses seen during this time [1]. The diagnosis may be obscured by the symptoms of infarction which mimic other entities, both benign and malignant.

Lactating adenoma develop due to the physiologic changes occurring in the breast with the hormonal variations of pregnancy and lactation. The typical presentation is a

painless, soft, mobile breast mass detected in the third trimester of pregnancy or in the puerperal breast-feeding period. They may be multiple, bilateral and develop in ectopic breast tissue along the milk line from the axilla to the groin [2]. However, acute infarction can cause significant enlargement and moderate-to-severe pain making difficult the distinction from an infected galactocele, abscess, or a high-grade malignancy with or without cystic degeneration. Approximately 5% of lactating adenomas are reported to undergo infarction [1].

Grossly, lactating adenomas are typically circumscribed, lobulated solid masses. They range from gray-tan to yellow and may be firm or rubbery. Histologically, they are composed of circumscribed aggregates of lobules with secretory hyperplasia and lactational change but often lack a true capsule [3] (Fig. 4).

The mammographic appearance of a lactating adenoma is usually a circumscribed oval mass equal to or lower in density to breast parenchyma. The sensitivity of mammography for mass detection may be decreased in the peripartum patient due to a hormone-driven increase in parenchymal density superimposed on the high tissue density usually found in young women. Ultrasound is therefore the preferred modality when evaluating peripartum patients.



**Fig. 2** – Ultrasound images of mass. (A) Antiradial ultrasound image of left breast mass showing medial half of the left breast is virtually replaced by a large, solid mass with mixed echogenicity. (B) Antiradial Doppler ultrasound image demonstrating the mass is avascular. (C) Unsuccessful aspiration attempt, with needle (arrows) within the solid mass. No fluid or blood was aspirated.

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