Accessory axillary breasts versus axillary tumours: diagnostic challenge

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DESCRIPTION
A 38-year-old woman with no medical history noticed swellings in both axillary regions 9 months previously. She visited another hospital because she had a slight fever and axillary discomfort due to gradual growth of the swellings during the last 3 months. She had no history of weight loss, appetite loss, nocturnal sweating, pregnancy or variation in the size of the swellings with her menstrual cycle. On the first visit to other breast surgery clinic, laboratory examinations revealed no abnormalities; inflammatory responses and antinuclear antibody were negative, and thyroid function was normal. Mammography and breast ultrasonography performed at the clinic revealed no abnormalities in her normally positioned breasts without detecting accessory axillary breast tissues. She was then referred to our department for a thorough examination. Physical examination did not show any abnormalities in normally positioned breast tissues or systemic lymphadenopathy. Soft and poorly margined elevated lesions without tenderness were present in both anterior axillary areas, which were difficult to detect as masses on palpation (figure 1). Ultrasonography of the axillary areas revealed heterotopic, apparently normal breast structures (figure 2). MRI of the left axillary area also showed a normal breast structure without any abnormalities characteristic of tumours or inflammatory diseases (figure 3). The patient was consequently diagnosed with accessory axillary breasts.

The incidence of supernumerary or accessory breasts is reportedly about 1% and 5% in men and women respectively, which is lower than those of supernumerary or accessory nipples. Supernumerary breast tissues are usually found along the milk lines extending from the axilla to pubic region. Some cases of accessory breasts were pathologically diagnosed after surgical resection; they had been suspected to be lipomas because of their increase in size over time. Pathological changes such as mastitis, fibrocystic disease, or even carcinoma, which is rare, can occur in accessory breasts even in the presence of normal histological breast structures.

Learning points
► Accessory axillary breasts are uncommon and can often be a diagnostic challenge.
► Carcinoma can occur in accessory axillary breasts, though such case is rather rare.
► Some cases of accessory breasts were pathologically diagnosed after surgical resection; they had been initially suspected to be lipomas.
Clinicians should be alert to accessory breasts in patients with soft and poorly marginated elevated lesions in the axillary areas. Such patients, especially 40 years old or older, might require periodic check-ups for breast cancer in accessory axillary breasts by ultrasonography despite the fact that such cancer development is rather rare.1

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