

Table S1 Definition of ultrasound characteristics

US characteristic	Description
Lesion type as US	
Solid	The mass has lower echogenicity in comparison to fat
Cystic-solid	A complex mass containing both cystic (anechoic) and solid (echogenic) components
Heterogeneous area	A discrete area of abnormal echo texture is distinguishable from the surrounding breast tissue but does not exhibit a mass-like shape
Shape	
Regular	The mass appears oval (egg-shaped or elliptical) or round (spherical, ball-shaped)
Irregular	The mass is neither oval nor round
Margin	
Vague	The boundary is poorly defined and can be characterized as indistinct, angular, microlobulated, or spiculated
Circumscribed	The demarcation is well defined or sharp, with abrupt transition between the lesion and the surrounding tissue
Orientation	
Parallel	The long axis of the lesion is parallel to the skin line (“wider-than-tall”)
Not parallel	The anterior–posterior or vertical dimension is greater than the transverse or horizontal dimension (“taller-than-wide”)
Lesion boundary	
Abrupt interface	The sharp demarcation between the lesion and the surrounding tissue is imperceptible or is an echogenic rim without any thickness
Echogenic halo	There is no sharp demarcation between the mass and the surrounding tissue which is bridged by an echogenic transition zone (any presence is positive, regardless of the percentage of halo)
Posterior echo pattern	
No	No shadowing or enhancement is present deep in the mass; the echogenicity of the area immediately behind the mass is not different from that of the adjacent tissue at the same depth
Shadowing	Shadowing, i.e., posterior attenuation of acoustic transmission Sonographically, the area posterior to the mass appears darker
Enhanced	Sound transmission is unimpeded in its passage through the mass Enhancement appears as a more echogenic (whiter) column deep into the mass Enhancement is a criterion for diagnosis of cyst (positive if present in either mode or section)
Vascularity	
No	No vascularity
Abundant	Diffusely increased vascularity surrounding or inside the lesion
Few	Little vascularity
Calcification	
No	No microcalcification
Microcalcification	Microcalcifications embedded in the mass are well depicted. The punctate, hyperechoic foci appear conspicuous in a hypoechoic mass

US, ultrasound.