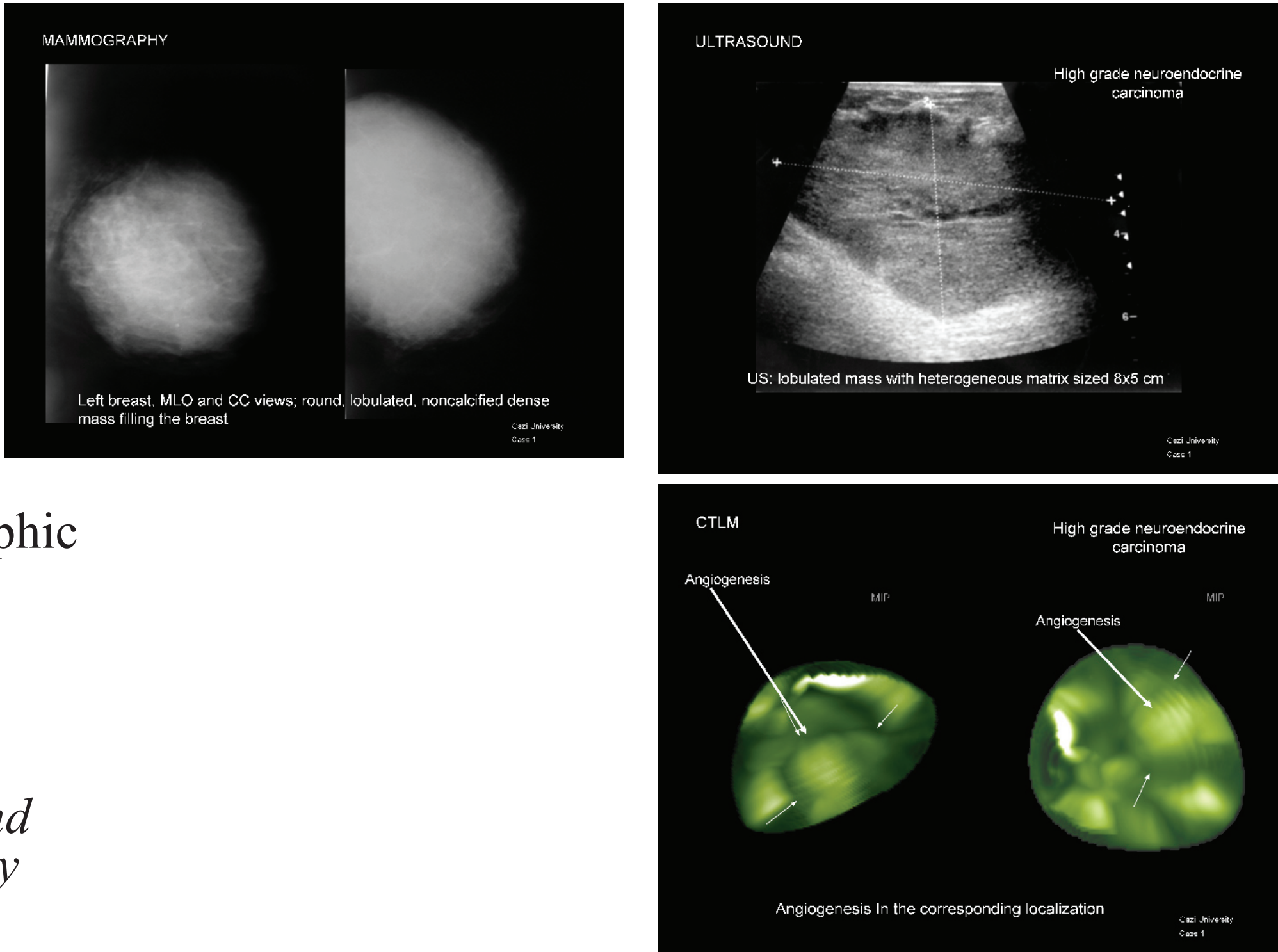




Case 1 High-grade Neuroendocrine Carcinoma

Patient Age: 51 years
Clinical Findings: History of right mastectomy (IDC)
Mammography: Mammography of the left breast shows a large round, lobulated, noncalcified dense mass filling the breast.
Ultrasound: Confirms the presence of a lobulated 8x5 cm mass with heterogenous matrix
CTLM: Shows a large spherical volume of angiogenesis at the same geographic location
Pathology: Core biopsy histology shows high grade neuroendocrine carcinoma

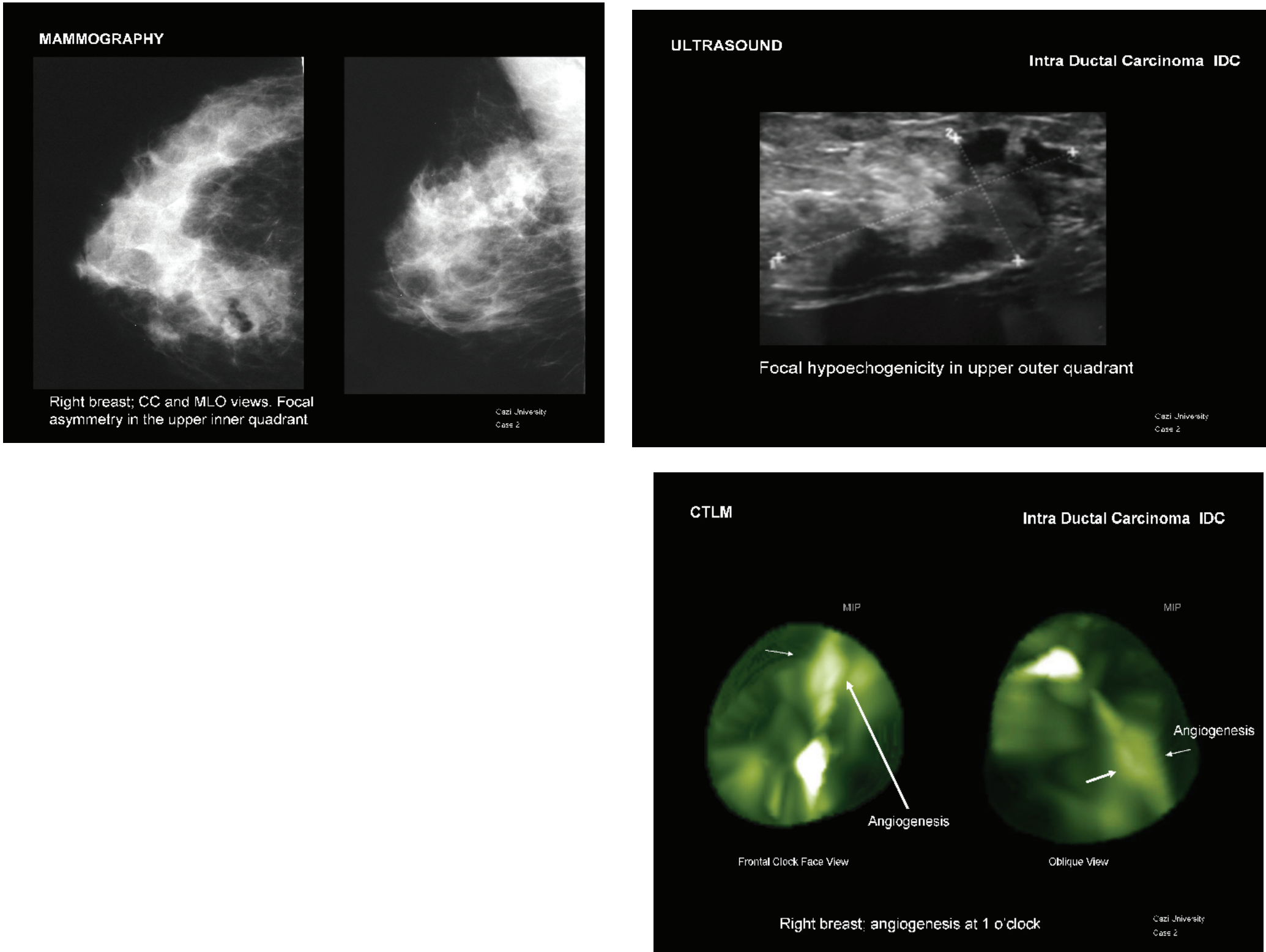
IDSi Comment: *It is impossible on both the mammogram and the ultrasound study to determine whether this mass was malignant. The CTLM immediately confirms the presence of extensive angiogenesis mandating biopsy.”*



Case 2 Intraductal Carcinoma (IDC)

Patient Age: 35 years
Clinical Findings: Palpable mass in the right breast
Mammography: Mammography of the right breast shows focal asymmetry in the upper inner quadrant
Ultrasound: Ultrasound shows focal hypoechogenicity in upper outer quadrant
CTLM: CTLM of the right breast reveals angiogenesis at 1 o’clock.
Pathology: Core biopsy histology diagnosis: Intraductal Carcinoma (IDC)

IDSi Comment: *Ultrasonography did not confirm a lesion in the area of the mammogram, but the CTLM revealed very obvious angiogenesis in the same geographic region as the mammographic asymmetry.*



Case 3 Intraductal Carcinoma (IDC)

Patient Age: 46 years
Clinical Findings: Tissue thickening in the 3 o’clock position of left breast
Mammography: Mammography of the left breast shows a spiculated mass with pleomorphic microcalcifications.
Ultrasound: Ultrasound shows an ill-defined, irregular, hypoechoic mass of 40x25 mm at 3 o’clock.
CTLM: CTLM of the left breast shows a bilobed volume of angiogenesis at 3 o’clock extending back to the chest wall.
Pathology: Intraductal Carcinoma (IDC)

IDSi Comment: *“The bilobed volume of angiogenesis on the CTLM fits very well the bilobed appearance of the mass on the mammogram, suggesting with a high level of certainty that portions of the mass are malignant.”*

