

Downclassification and upclassification of suspicious breast masses using opto-acoustic imaging

ZGT.NL

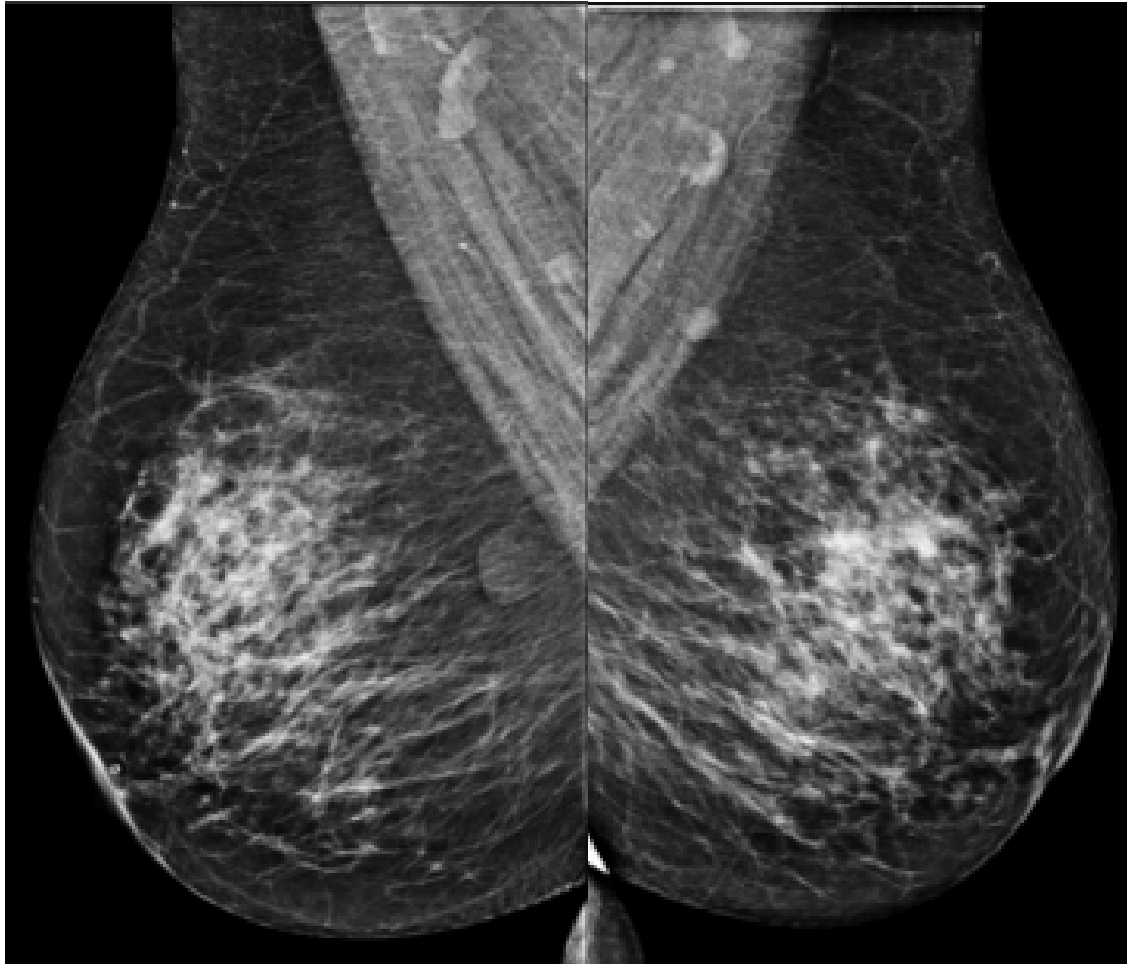
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Hengelo, Netherlands

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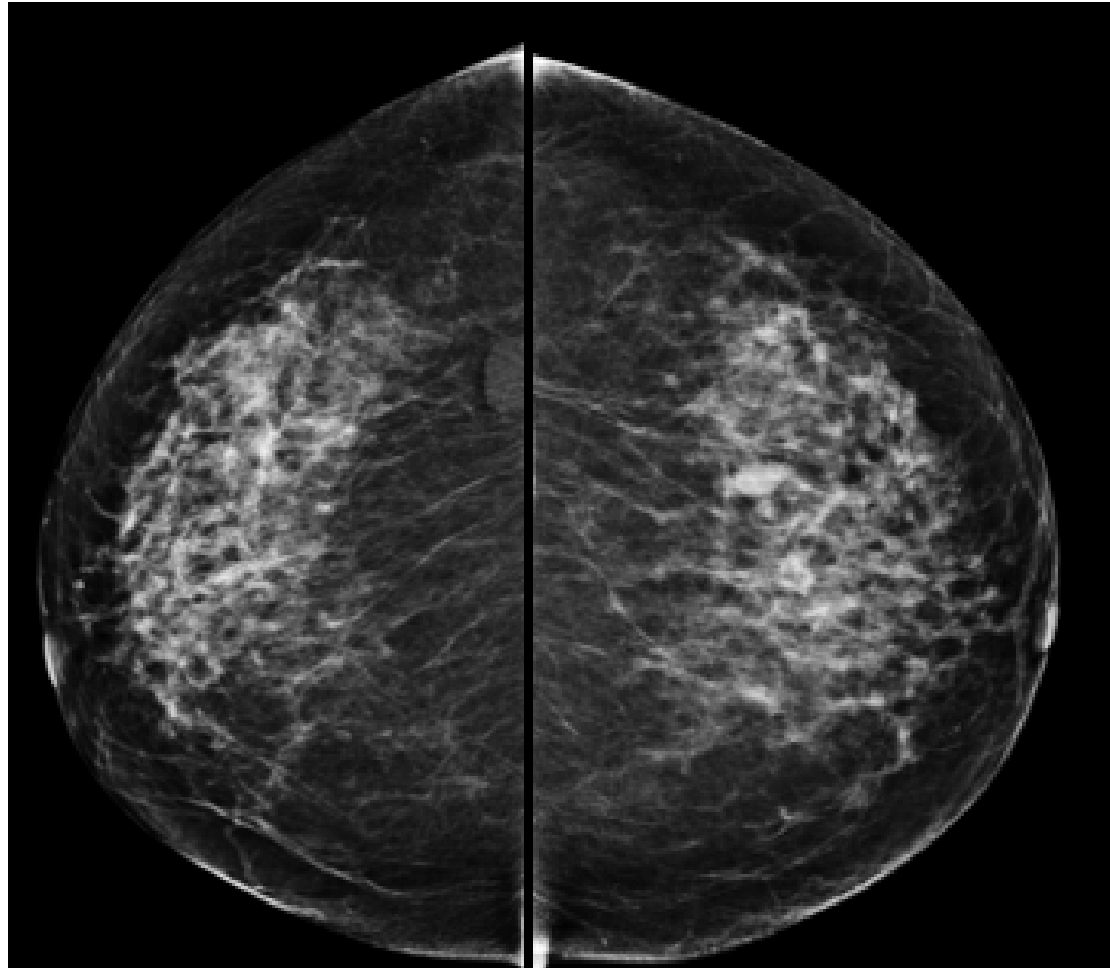
Subject 1

Mammogram



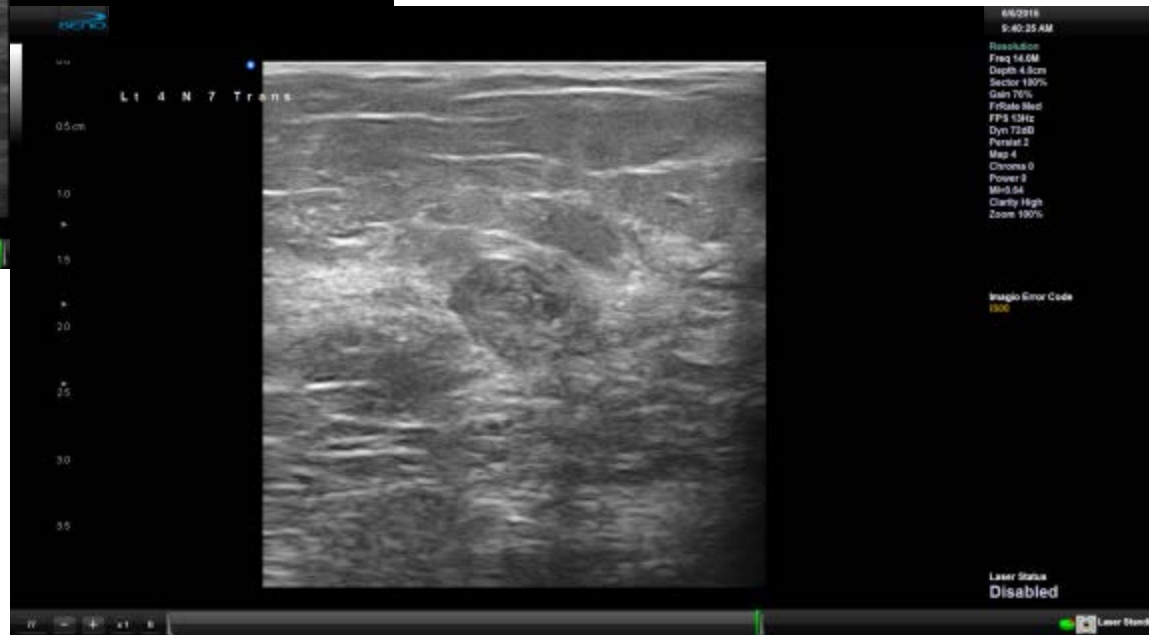
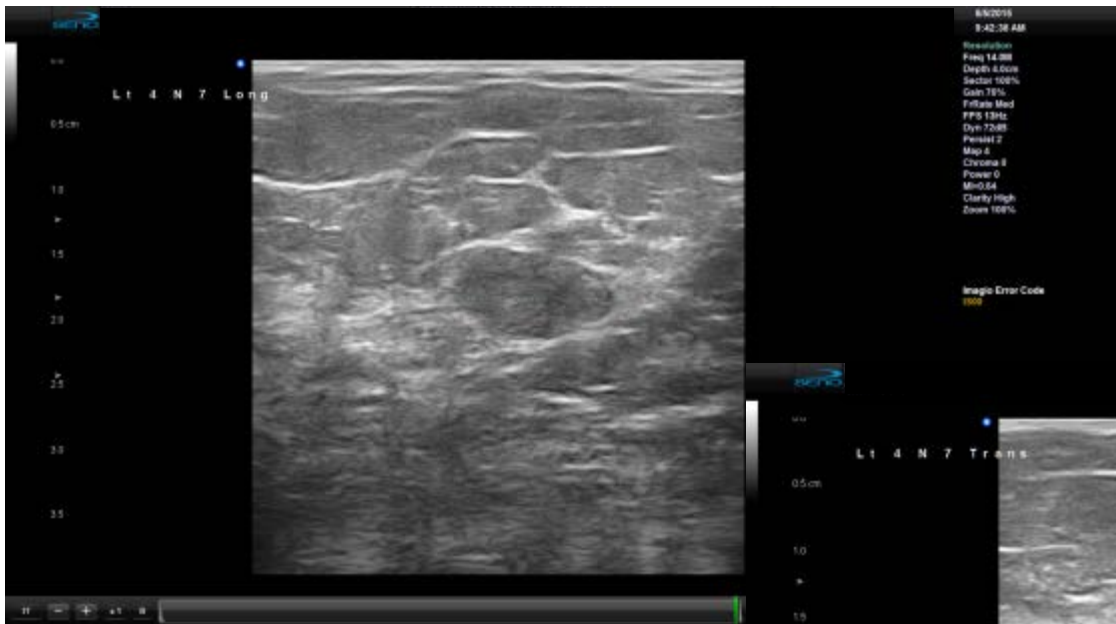
Subject 1

Mammogram



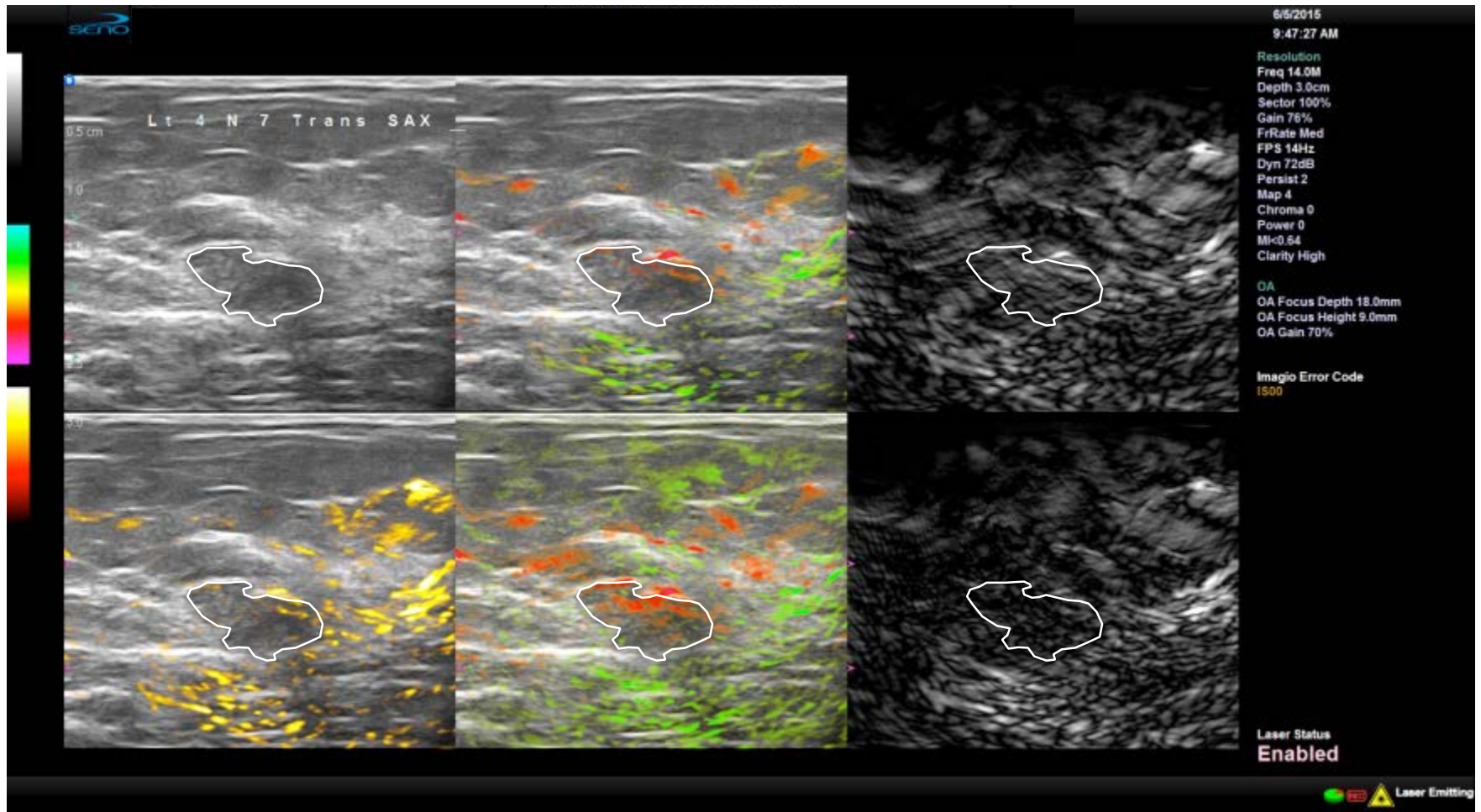
Subject 1

Imago ultrasound



Subject 1

OA transverse view



Subject 1

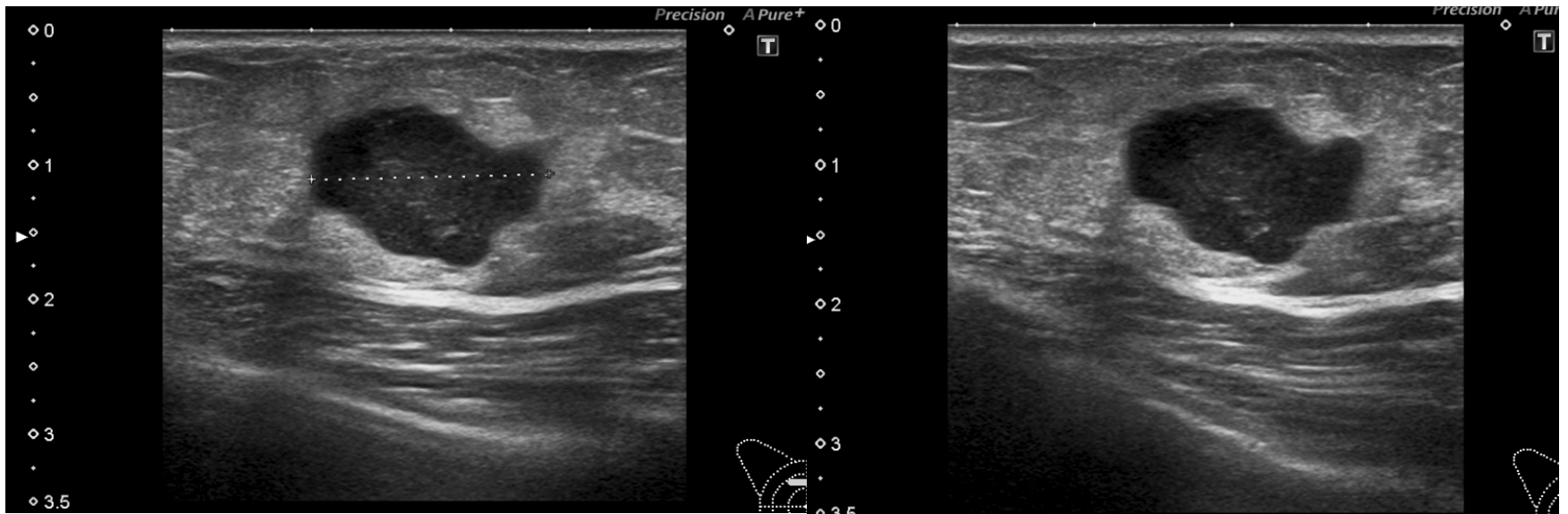
Imagio IUS POM and BI-RADS classification, OA scoring, nomograms

OA BI-RADS	4B	} ? step UG
OA POM	40	
biopsy recommended from OA	YES	
OA internal vessel score	2	
OA internal blush score	2	
OA internal hemoglobin score	2	
OA boundary zone score	5	
OA peripheral zone score	2	
OA NPP nomogram	37.9	mean = 51.4
OA NPC nomogram	64.9	
CDU BI-RADS		
CDU POM		

Invasive duct carcinoma, grade I with DCIS, nuclear grade 2

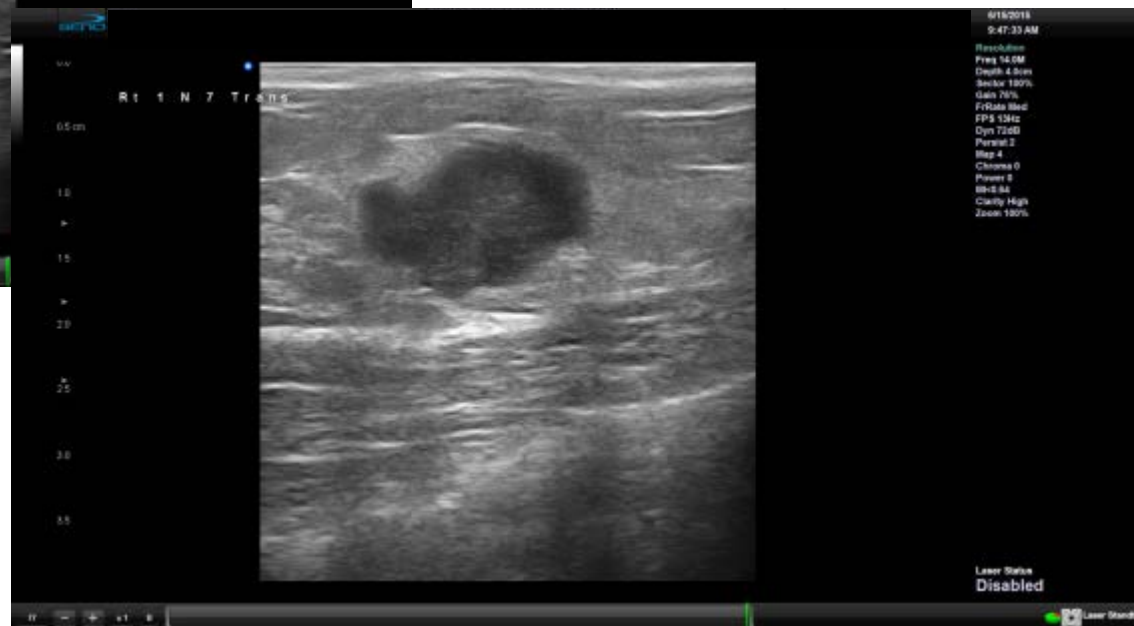
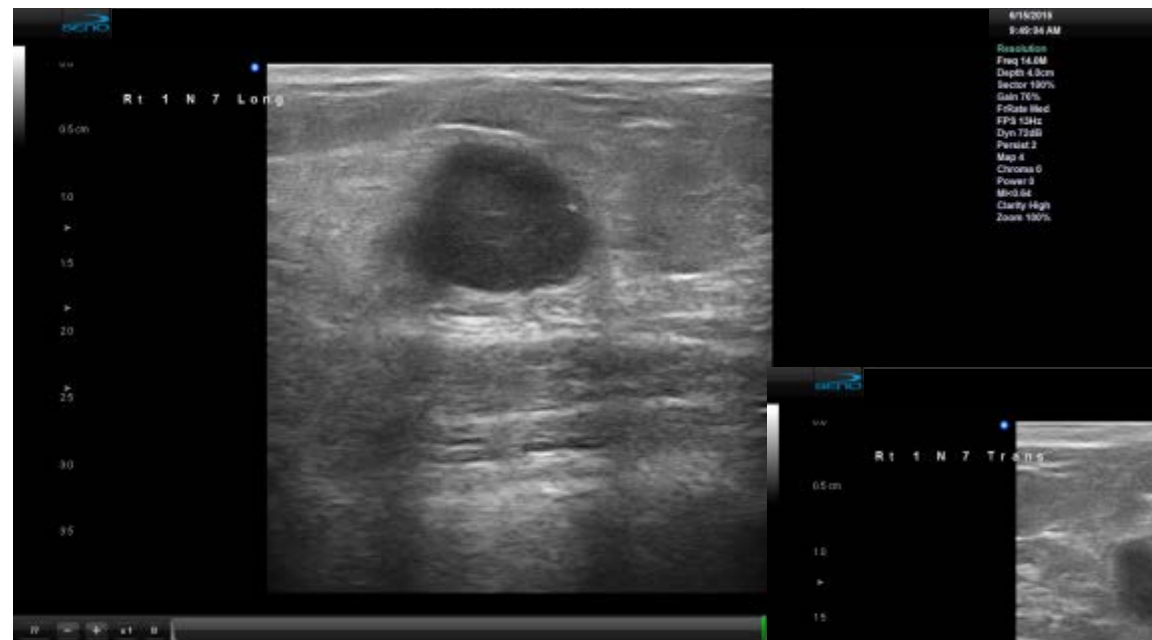
Subject 2

Conventional ultrasound



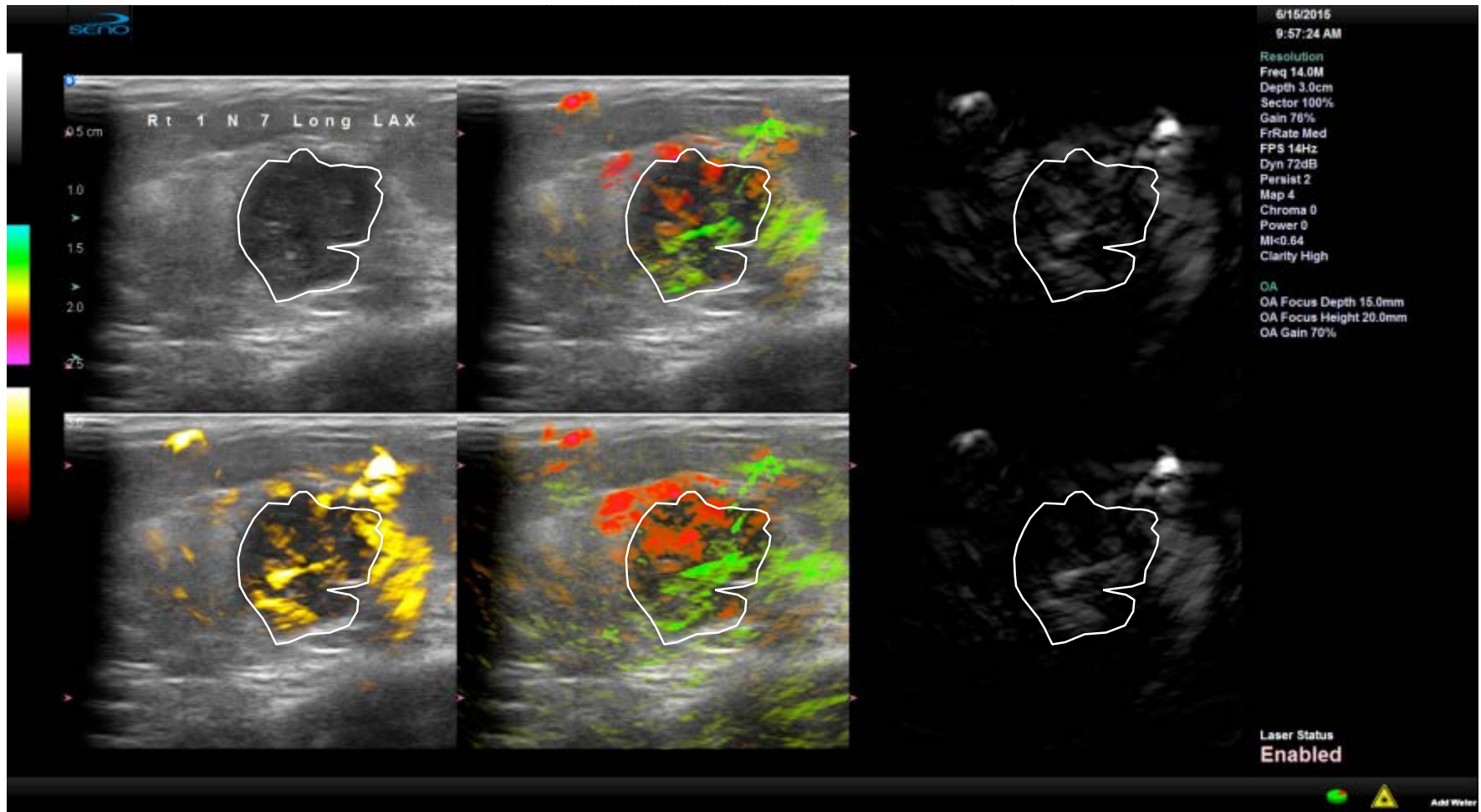
Subject 2

Imagio ultrasound



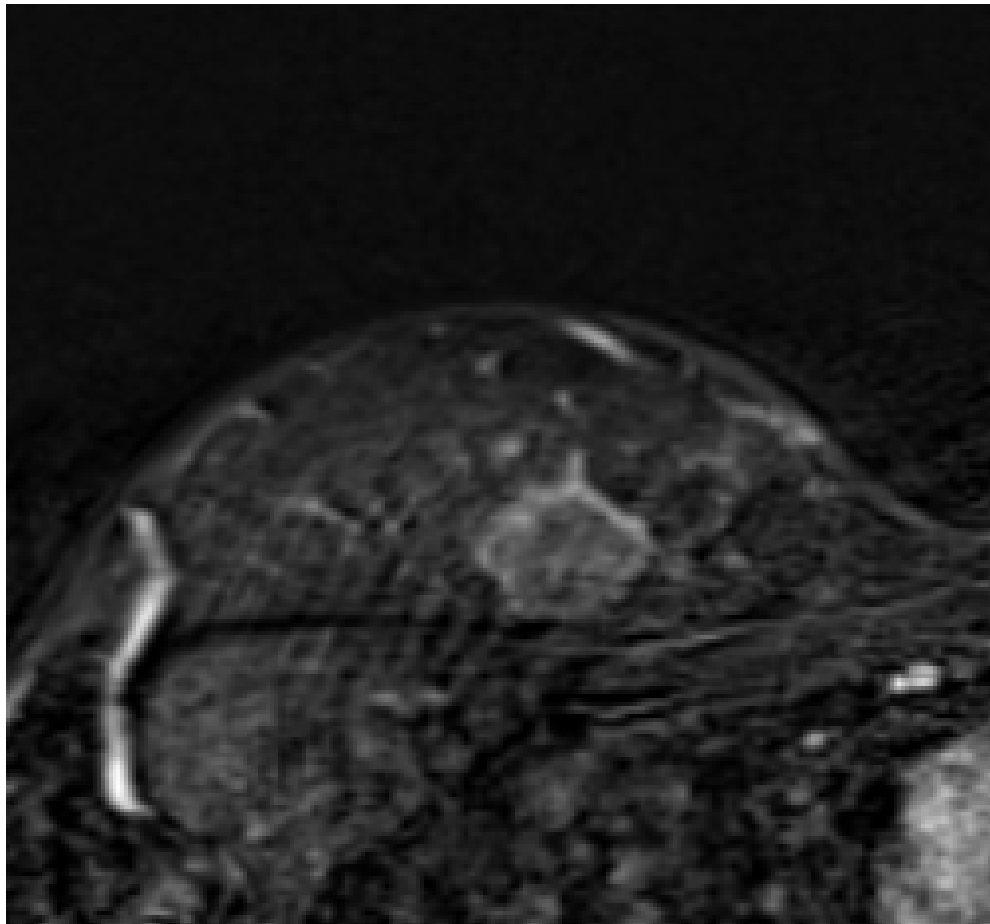
Subject 2

Imagio OA transverse view



Subject 2

MRI



Subject 2

Imagio IUS POM and BI-RADS classification, OA scoring, nomograms



OA BI-RADS	4B	} ? step UG
OA POM	25	
biopsy recommended from OA	YES	
OA internal vessel score	3	
OA internal blush score	2	
OA internal hemoglobin score	2	
OA boundary zone score	4	
OA peripheral zone score	2	
OA NPP nomogram	32.5	mean = 41.1
OA NPC nomogram	49.6	
CDU BI-RADS		
CDU POM		

Subject 2

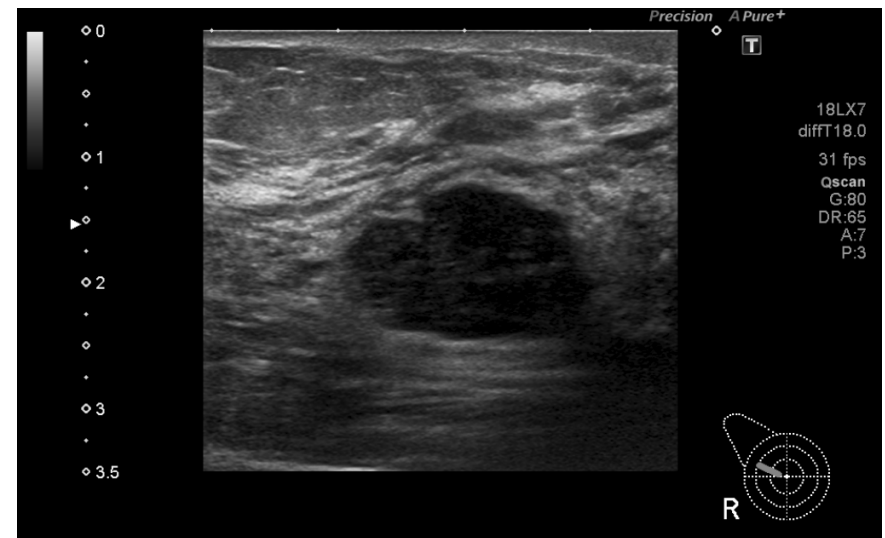
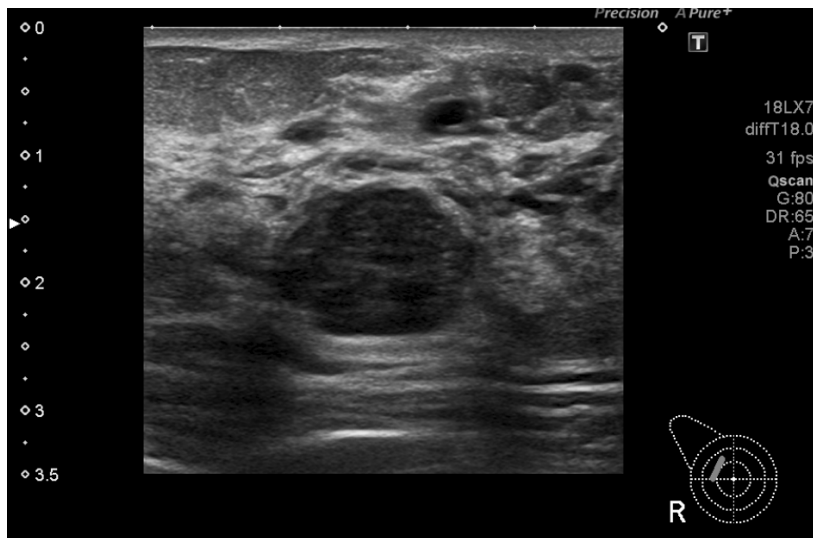
Histopathology



Invasive duct carcinoma, grade III

Subject 3

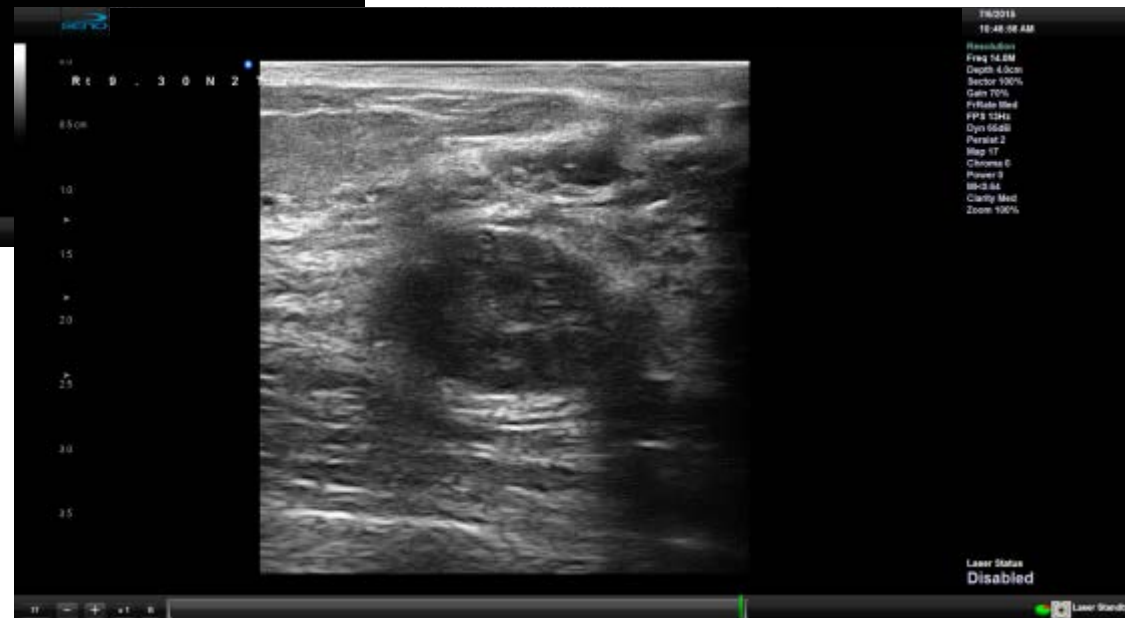
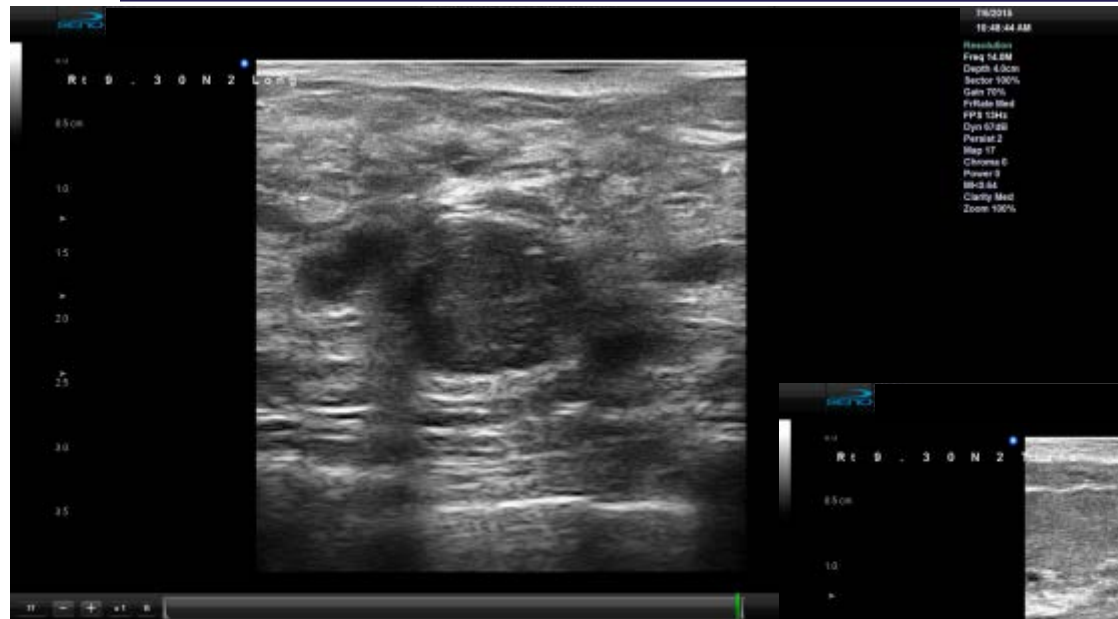
Conventional ultrasound



Not visible on mammography

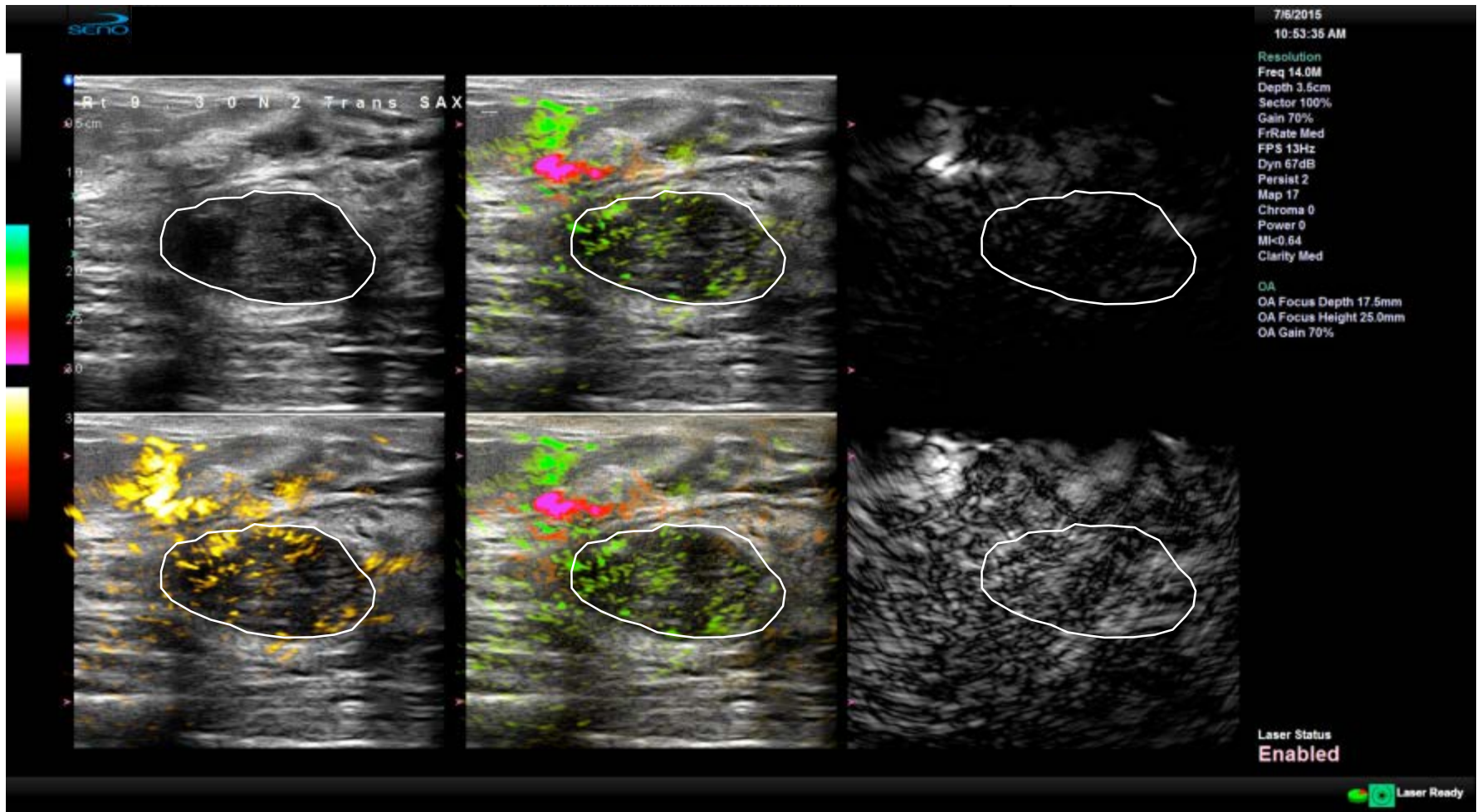
Subject 3

Imagio ultrasound



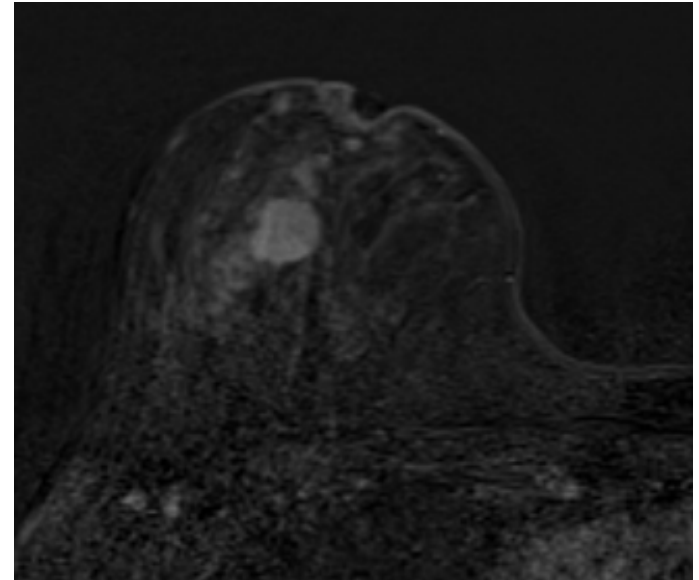
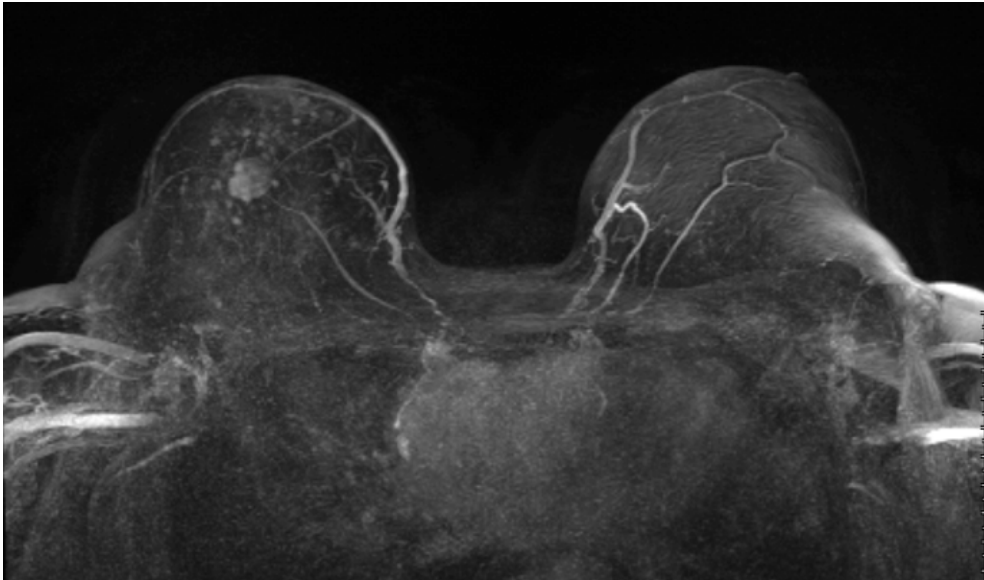
Subject 3

Imagio OA transverse view



Subject 3

MRI



Subject 3

Imagio IUS POM and BI-RADS classification, OA scoring, nomograms



OA BI-RADS	2	} step DG
OA POM	0	
biopsy recommended from OA	YES	
OA internal vessel score	2	
OA internal blush score	1	
OA internal hemoglobin score	2	
OA boundary zone score	2	
OA peripheral zone score	1	
OA NPP nomogram	0.99	mean = 5.48
OA NPC nomogram	10.96	
CDU BI-RADS		
CDU POM		

Subject 3

Histopathology

Benign Fibroadenoma