

# MAESTRO Study

by

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Rijnstate

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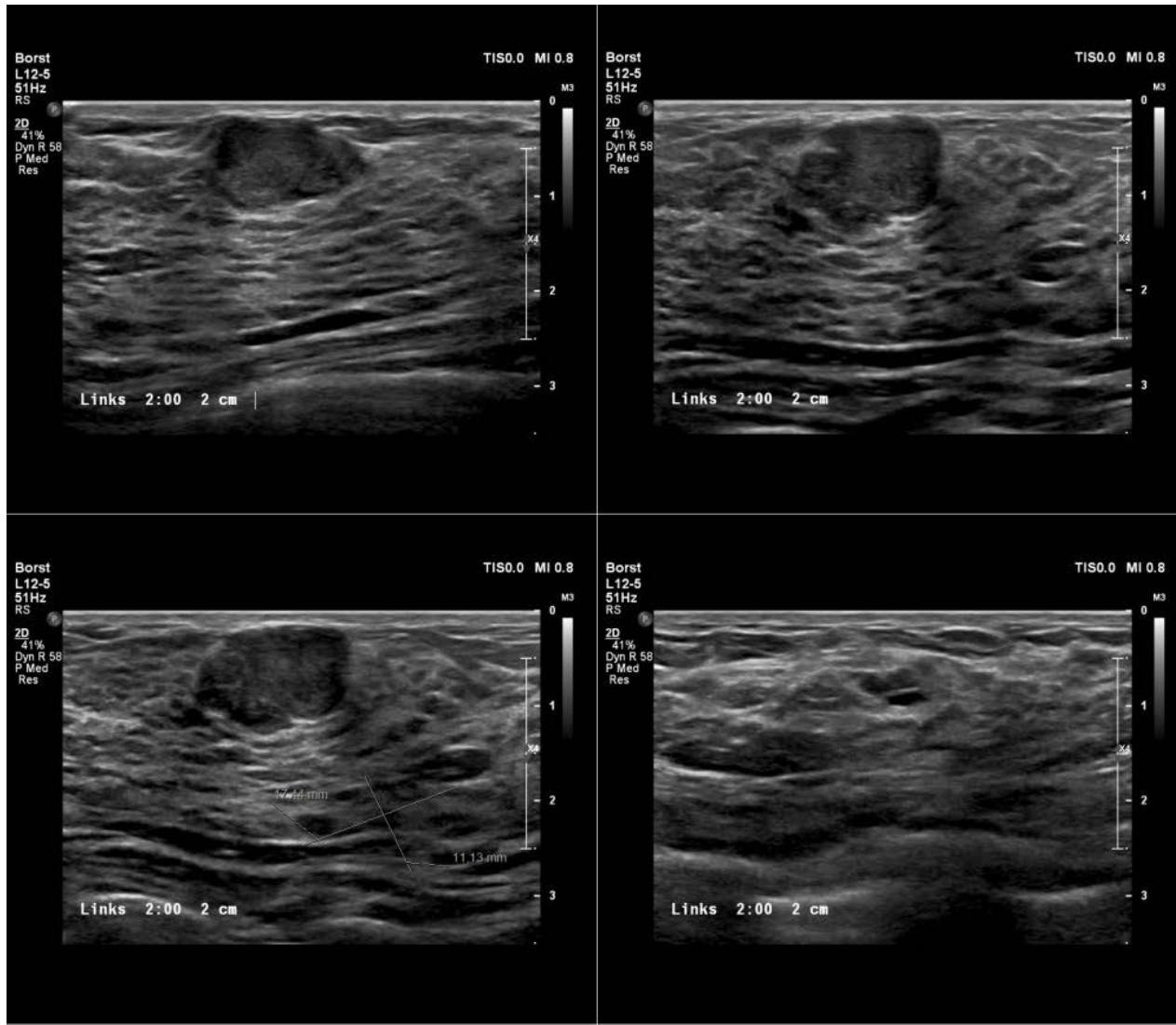
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# **Downclassification and upclassification of suspicious breast masses using opto-acoustic imaging**



# Subject 1 - Woman 27 year, palpable mass



# Subject 1 - Woman 27 year, palpable mass

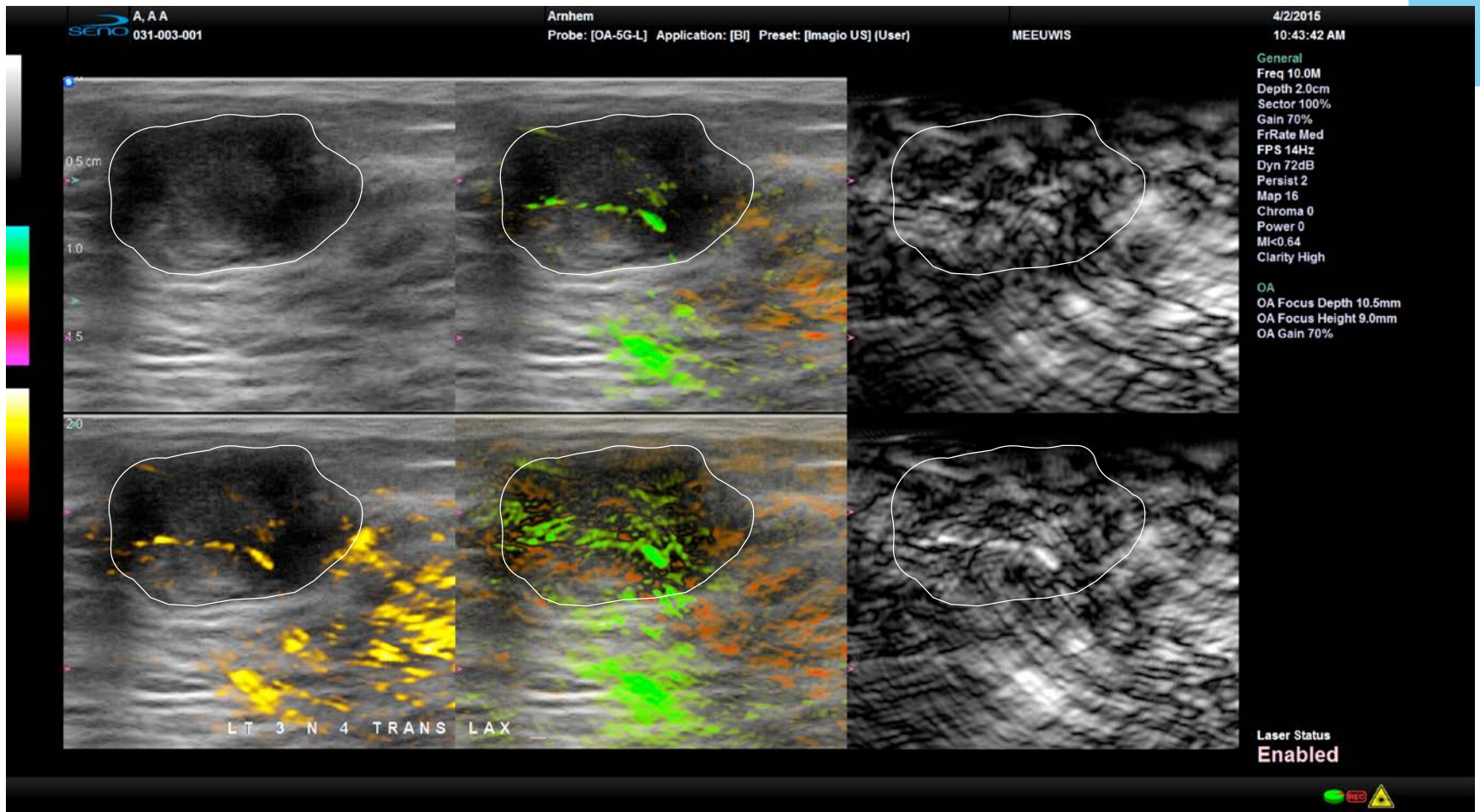


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Subject 1: Woman 27 year, palpable mass  
 CDU and Imagio OA BI-RADS and POM  
 OA feature scoring and OA nomograms

OA BI-RADS	3	} 1-step-DG
OA POM	2	
biopsy recommended from OA	NO	
OA internal vessel score	2	
OA internal blush score	1	
OA internal hemoglobin score	1	
OA boundary zone score	0	
OA peripheral zone score	0	} mean = 4.2
OA NPP nomogram	6.9	
OA NPC nomogram	1.4	
CDU BI-RADS	4A	
CDU POM	5	

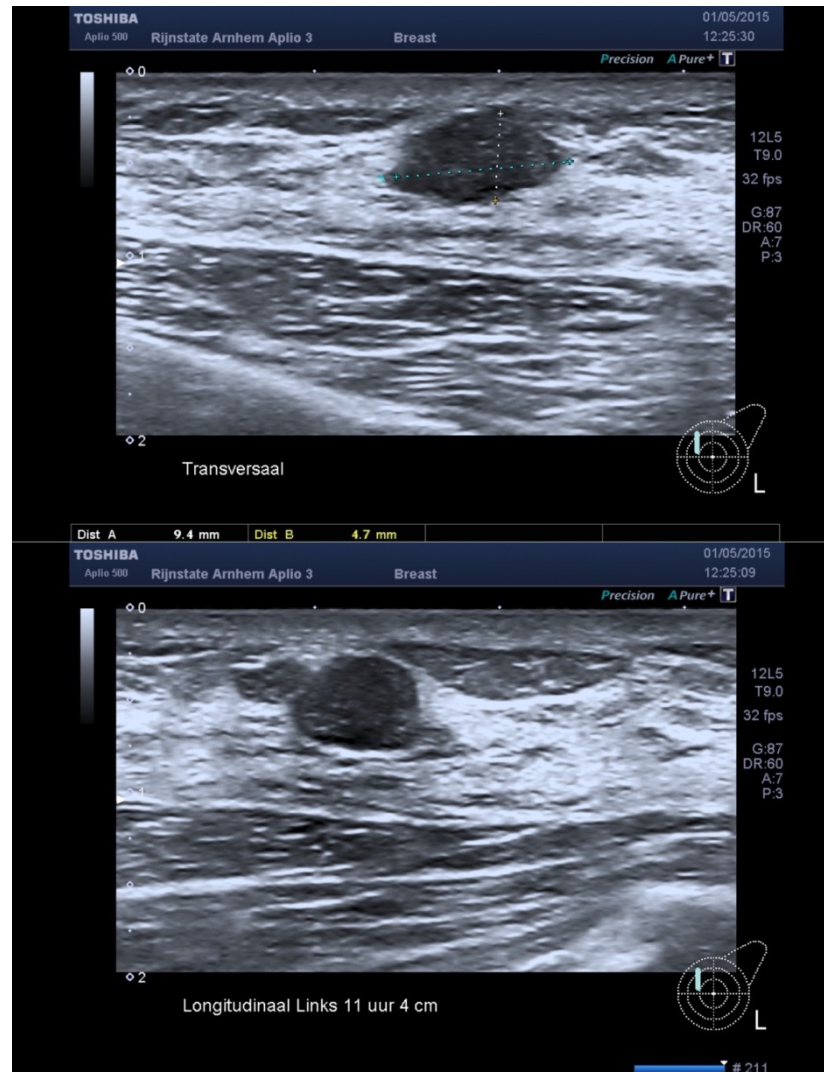
# Subject 1

BIRADS 4a => BIRADS 3

Pathology: Fibroadenoma



# Subject 2 - 26 y/o woman, palpable mass





# Subject 2 - 26 y/o woman, palpable mass

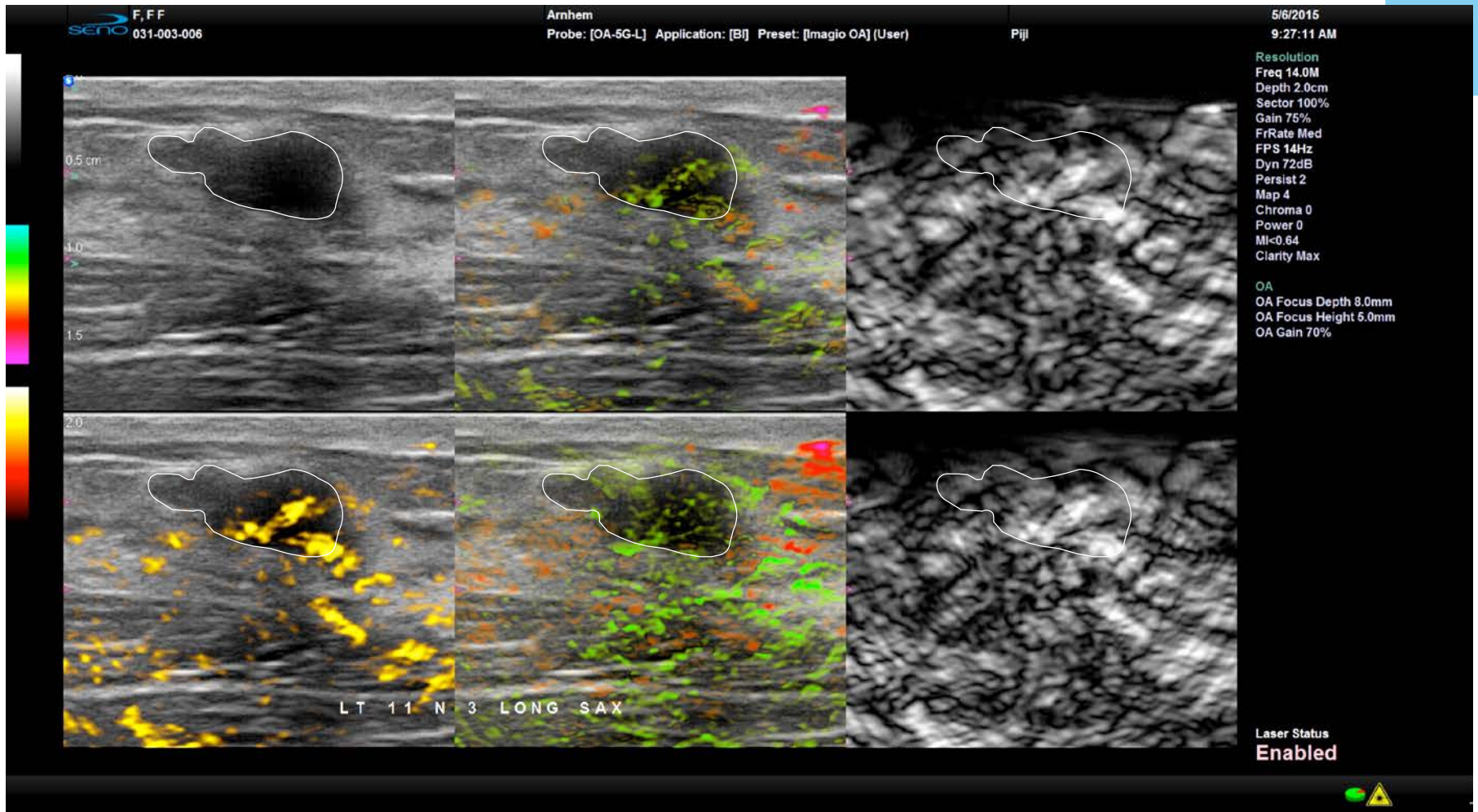


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Subject 2 - 26 y/o woman, palpable mass  
 CDU and Imagio OA BI-RADS and POM  
 OA feature scoring and OA nomograms

OA BI-RADS	3	} 1-step DG
OA POM	2	
biopsy recommended from OA	NO	
OA internal vessel score	2	
OA internal blush score	2	
OA internal hemoglobin score	1	
OA boundary zone score	1	
OA peripheral zone score	1	} mean = 2.9
OA NPP nomogram	0.5	
OA NPC nomogram	5.3	
CDU BI-RADS	4A	
CDU POM	5	

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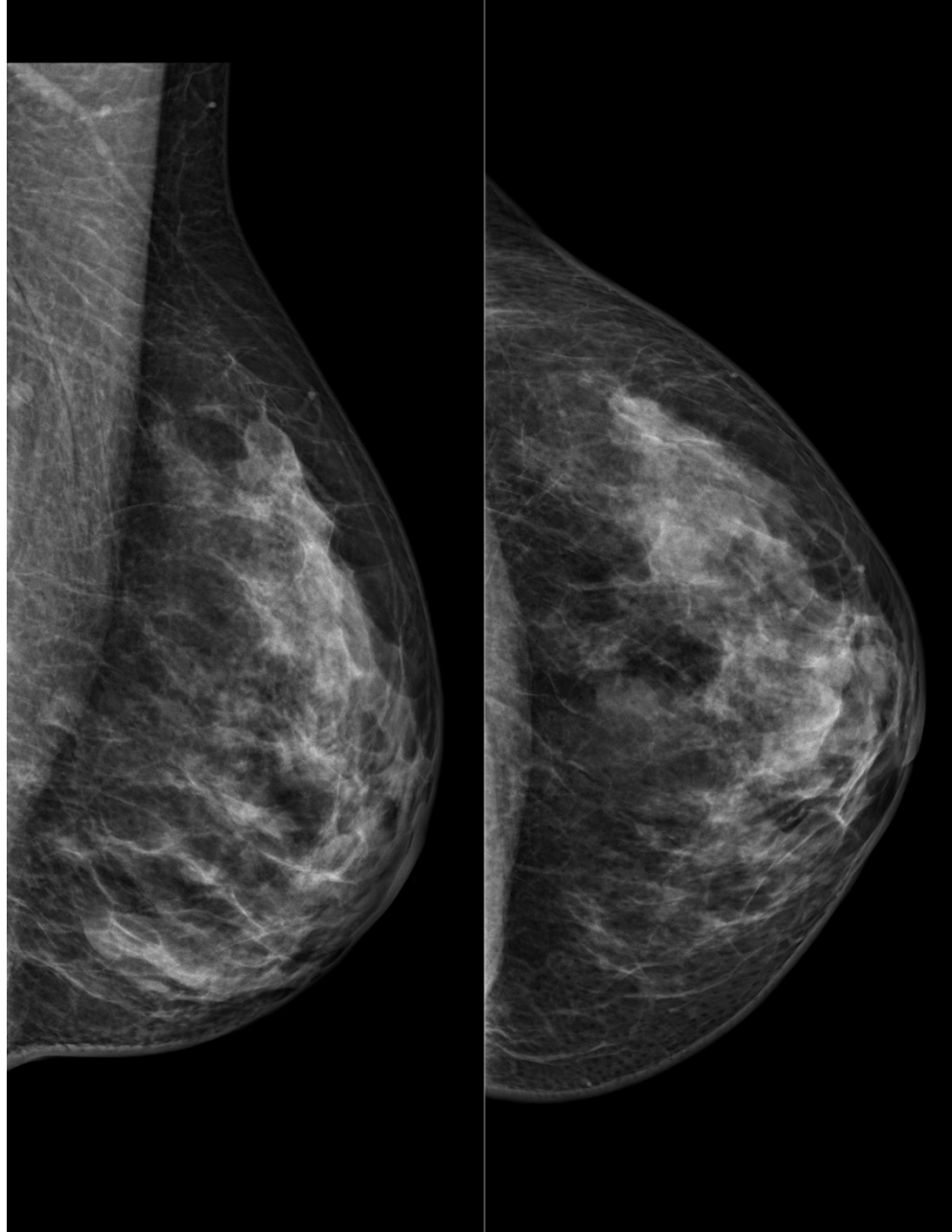
## Subject 2

BIRADS 4 a => BIRADS 3

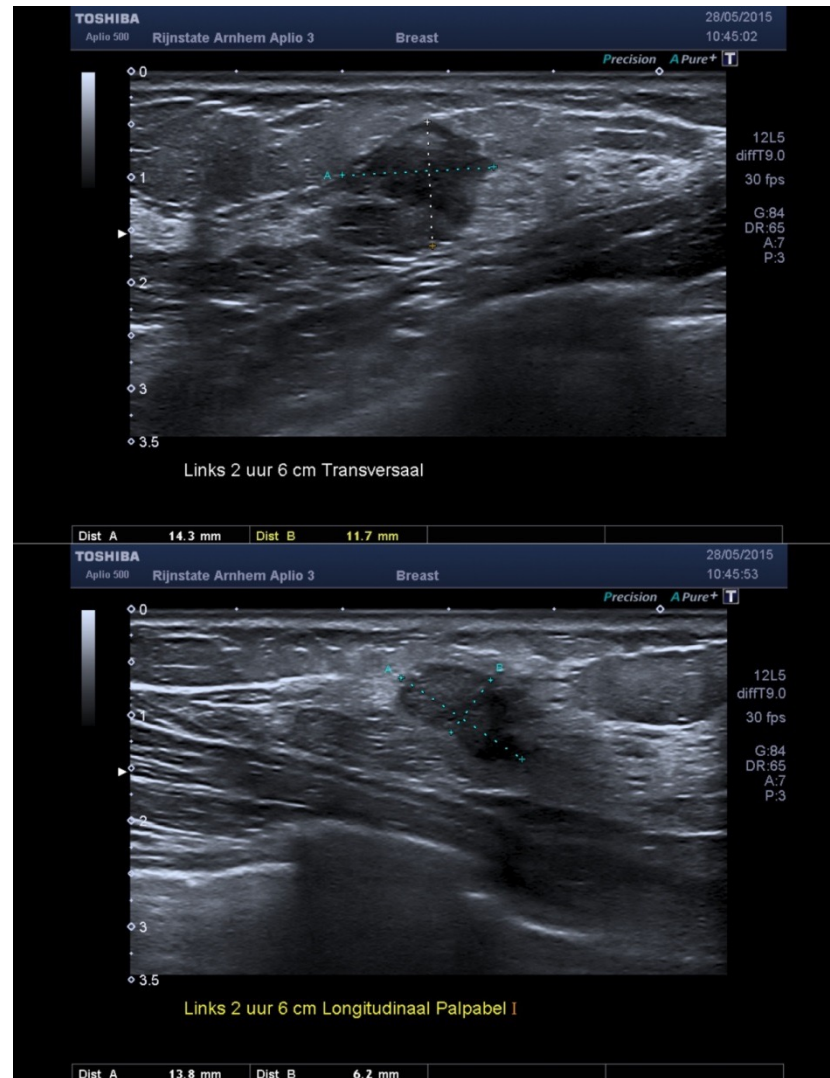
Pathology: Fibroadenoma



# Subject 3 - Woman 30 year, palpable mass



# Subject 3 - Woman 30 year, palpable mass





# Subject 3 - Woman 30 year, palpable mass

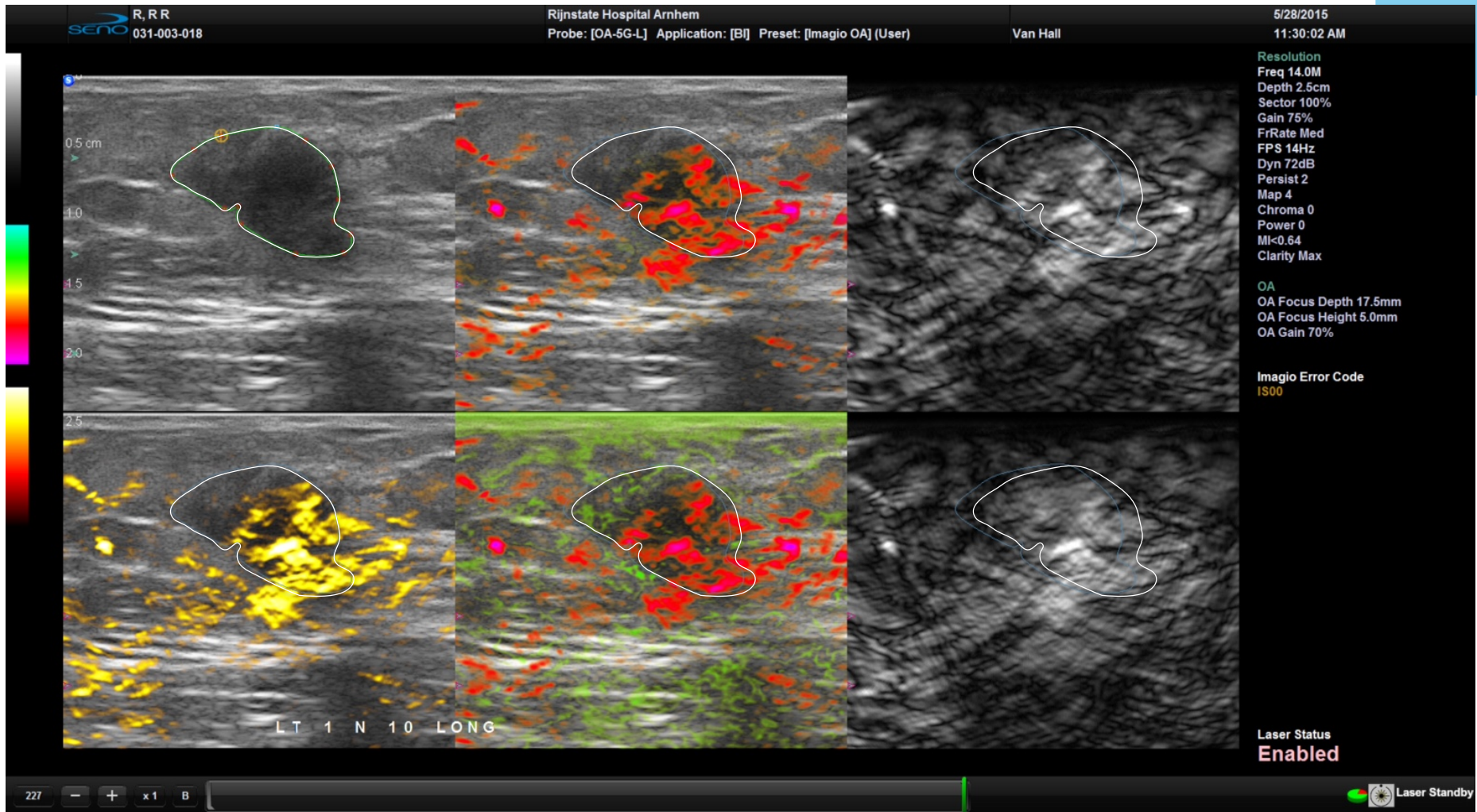


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# subject 3 - Woman 30 year, palpable mass

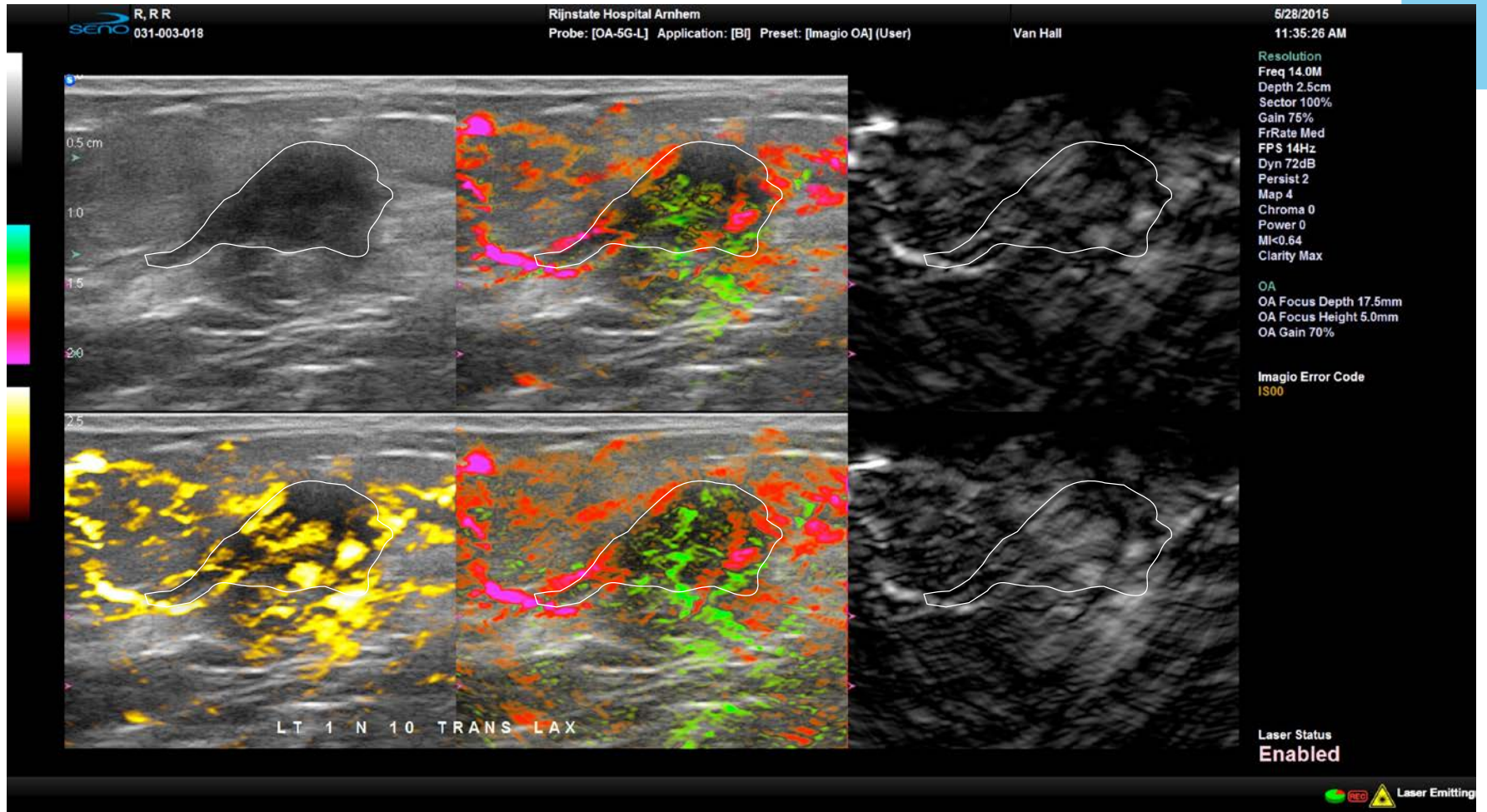


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Subject 3 - Woman 30 year, palpable mass  
 CDU and Imagio OA BI-RADS and POM  
 OA feature scoring and OA nomograms

OA BI-RADS	4C	} 1-step UG
OA POM	85	
biopsy recommended from OA	YES	
OA internal vessel score	2	
OA internal blush score	2	
OA internal hemoglobin score	3	
OA boundary zone score	5	
OA peripheral zone score	5	
OA NPP nomogram	80.9	mean = 86.2
OA NPC nomogram	91.4	
CDU BI-RADS	4B	
CDU POM	35	

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## Subject 3

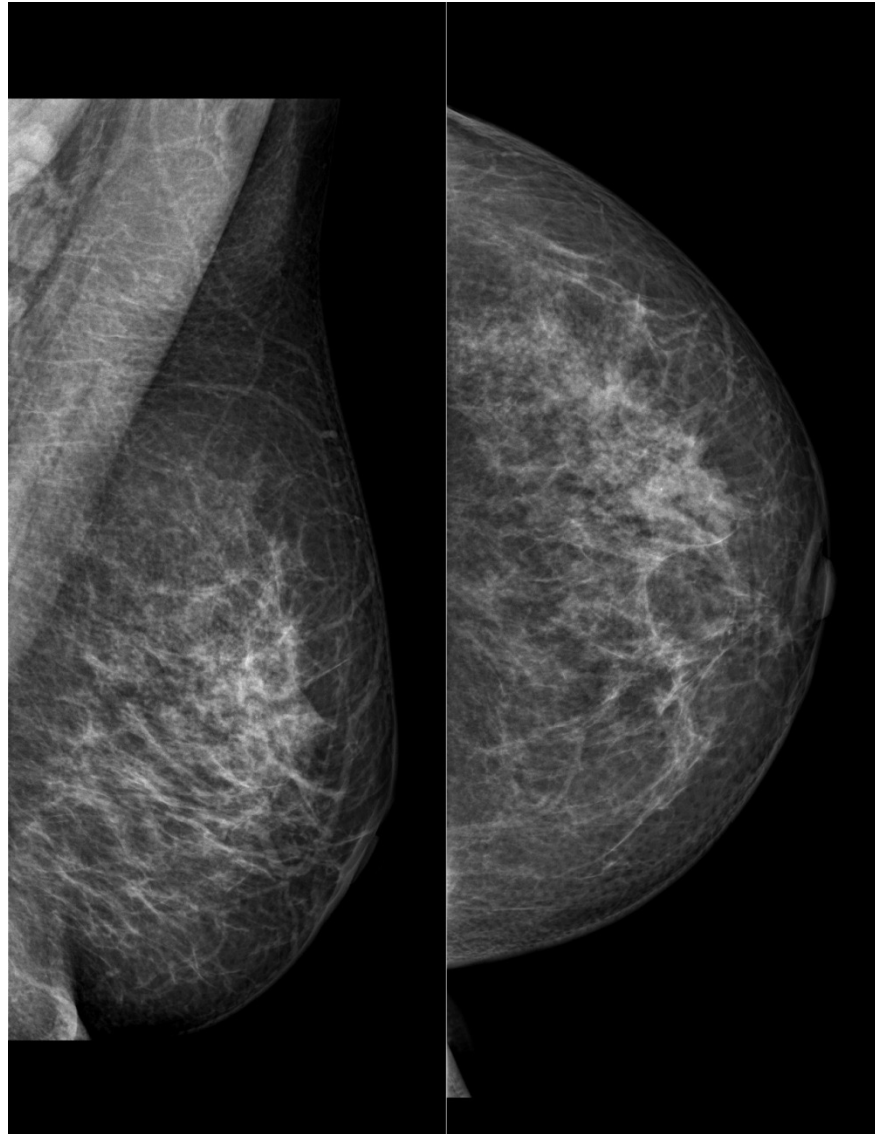
BIRADS 4b => BIRADS 4c

Pathology: invasive ductal carcinoma

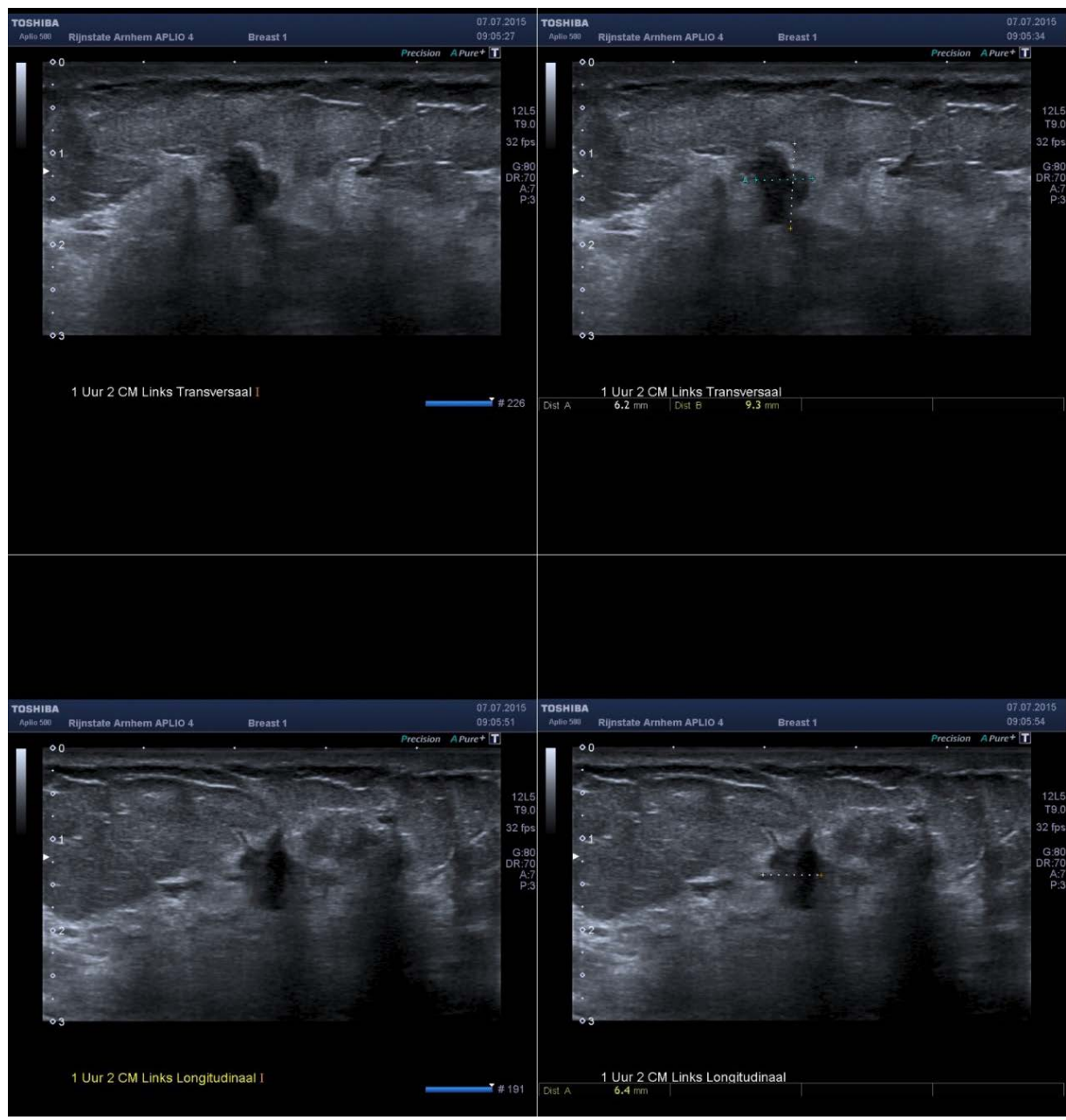




# Subject 4 - Woman 48 year, palpable mass



# Subject 4 - Woman 48 year, palpable mass



# Subject 4 - Woman 48 year, palpable mass

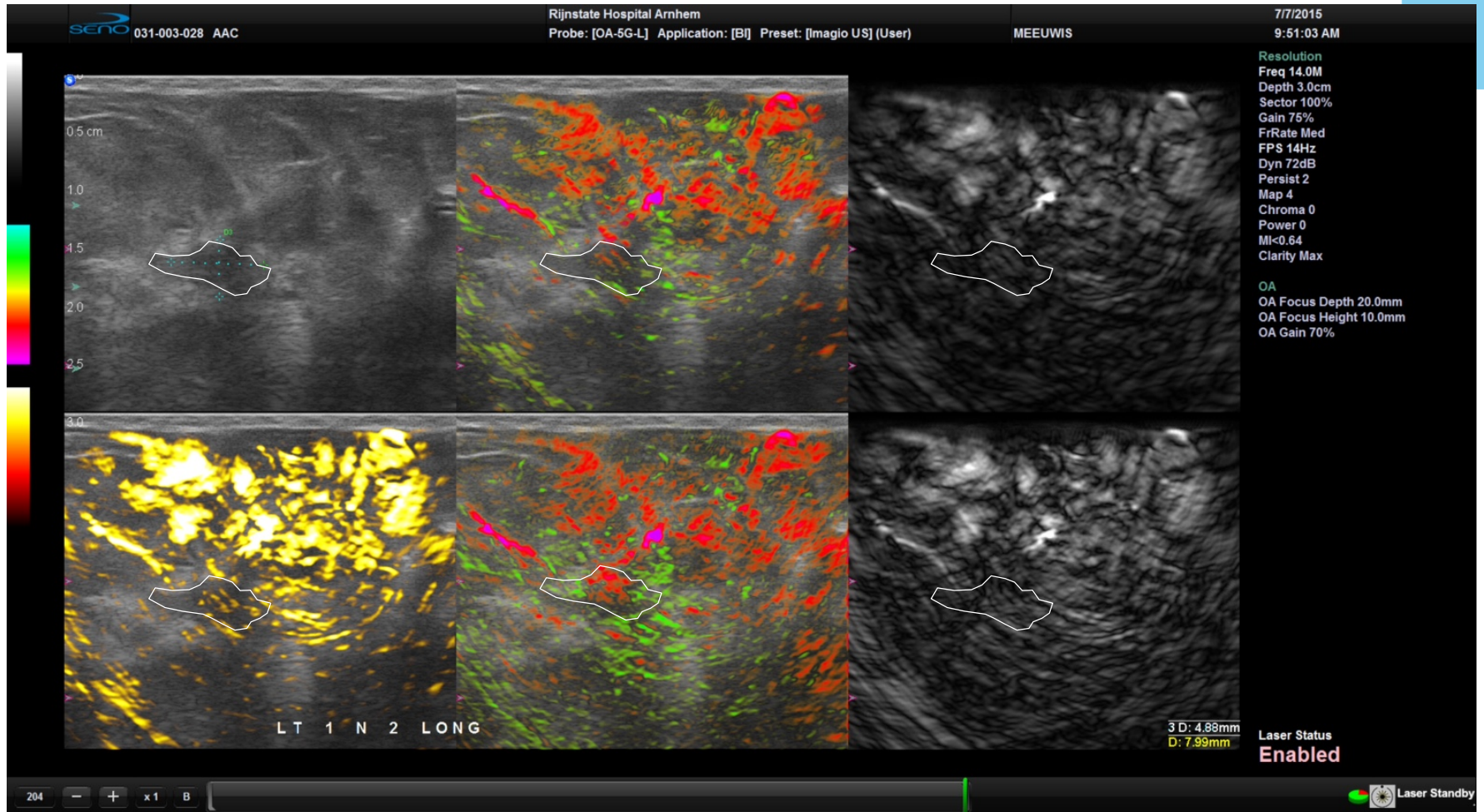


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Subject 4 - Woman 48 year, palpable mass  
 CDU and Imagio OA BI-RADS and POM  
 OA feature scoring and OA nomograms

OA BI-RADS	4C	} 1-step-UG
OA POM	60	
biopsy recommended from OA	YES	
OA internal vessel score	4	
OA internal blush score	3	
OA internal hemoglobin score	1	
OA boundary zone score	4	
OA peripheral zone score	3	
OA NPP nomogram	59.5	} mean = 62.8
OA NPC nomogram	66.1	
CDU BI-RADS	4B	
CDU POM	35	

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## Subject 4

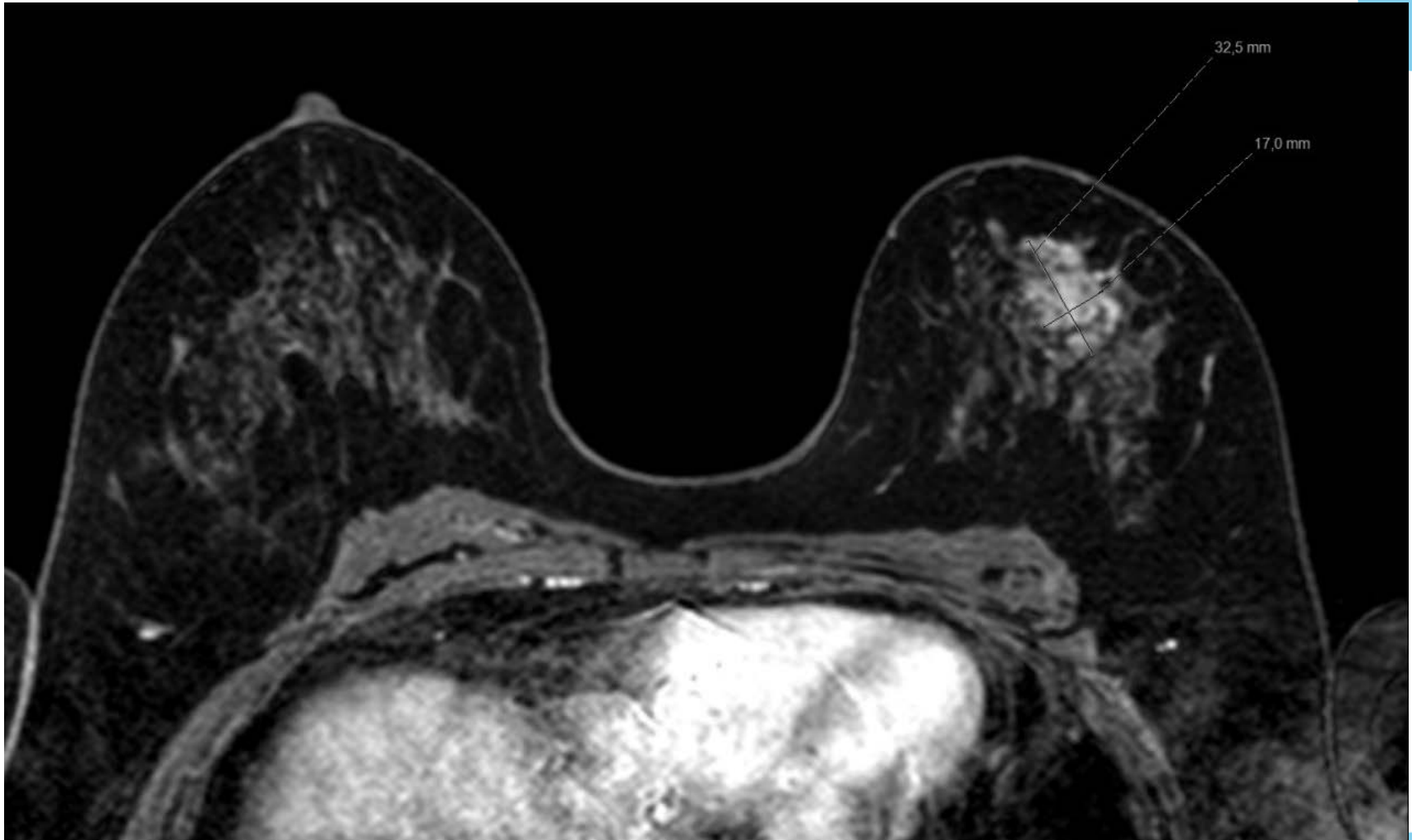
BIRADS 4b => BIRADS 4c

Pathology: invasive ductal carcinoma





Subject 4 - Woman 48 year, palpable mass  
mass appears larger on MRI than on ultrasound or mammography,  
but the same size as on OA





Subject 4 - Woman 48 year, palpable mass  
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