

第23回日本乳癌学会近畿地方会 教育セミナー 診断部門 問題編

手術に向けた術前化学療法中・後の画像診断と病理

京都府立医科大学大学院医学研究科放射線診断治療学

喜馬 真希



The Japanese Breast Cancer Society
since 1992



筆頭演者の利益相反状態の開示

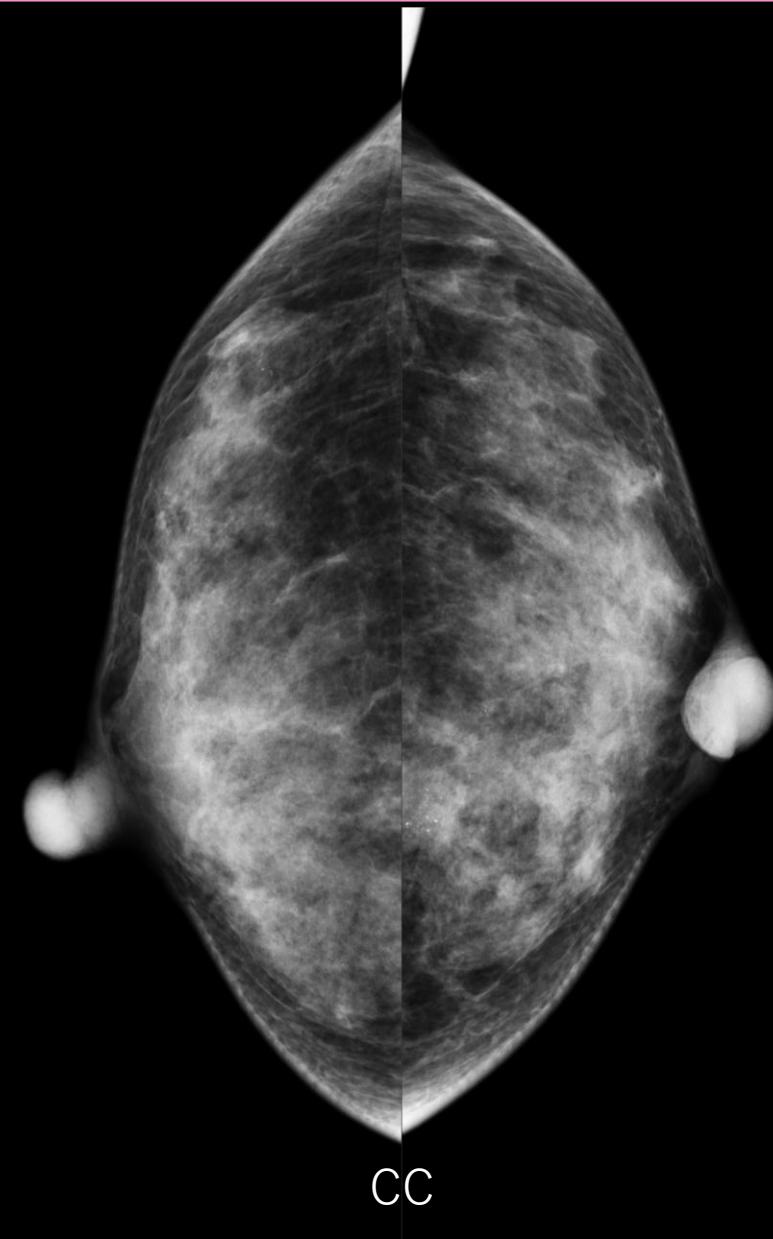
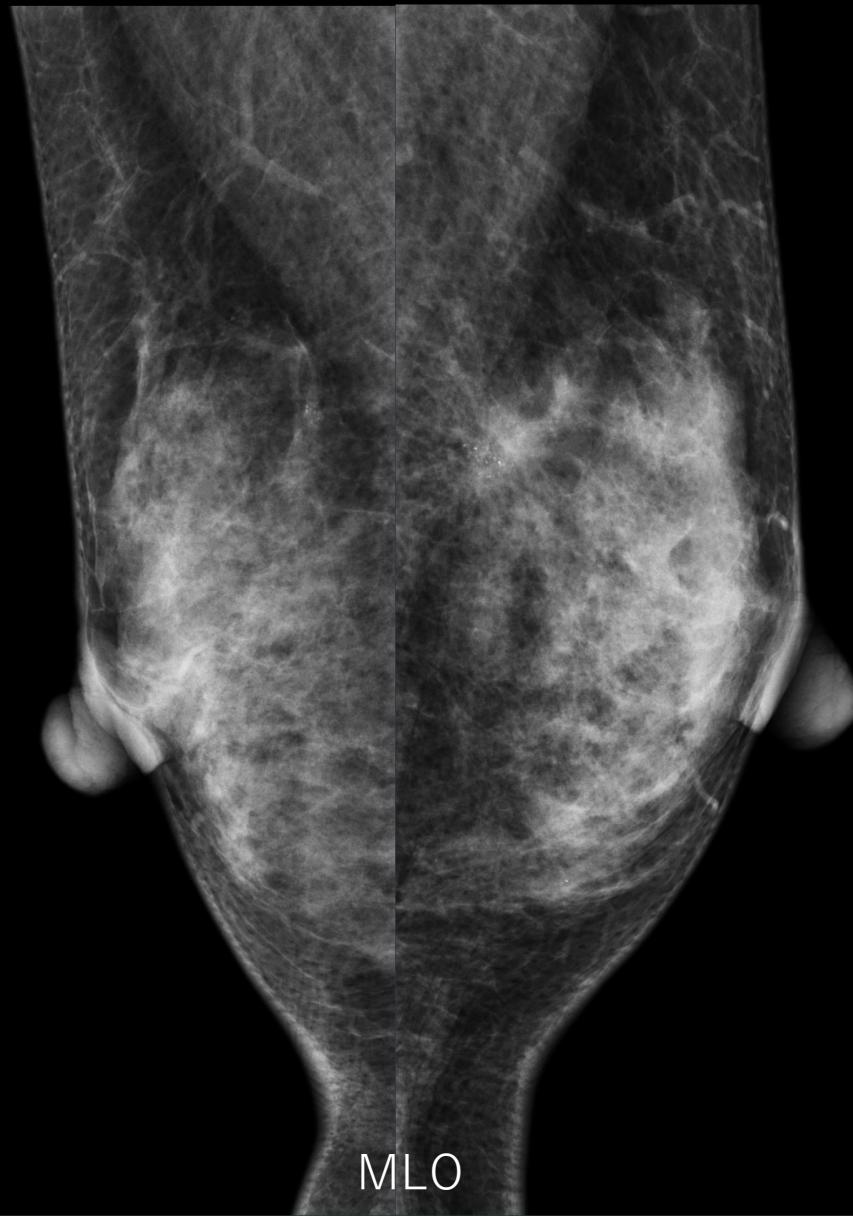
すべての項目に該当なし

症例 1

- 50代女性
- 人間ドックの超音波で要精査となり紹介受診
- 左 A 区域に 2 cm 大の腫瘍を触知

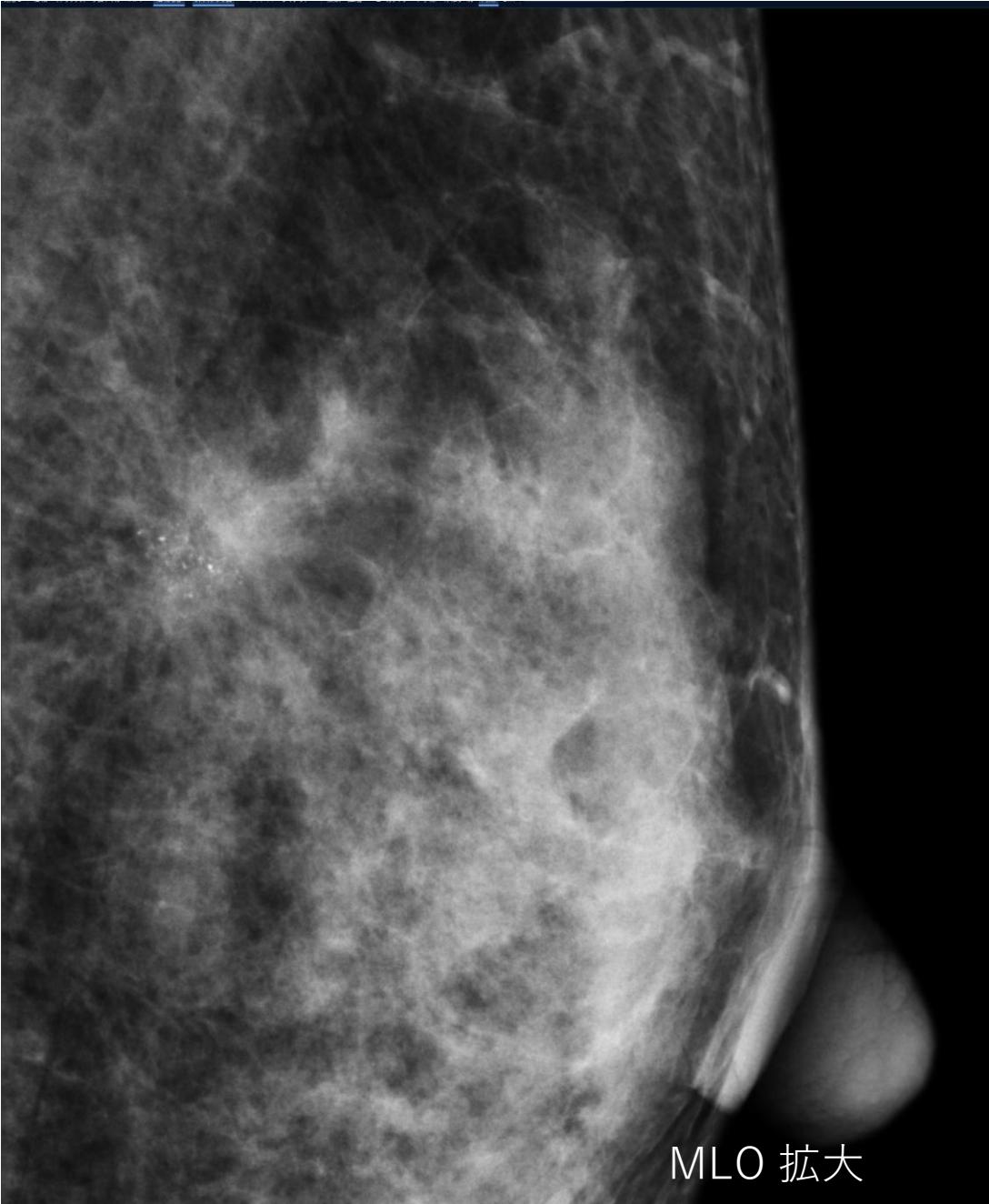
マンモグラフィ(MG)

所見と診断カテゴリー分類をお願いします



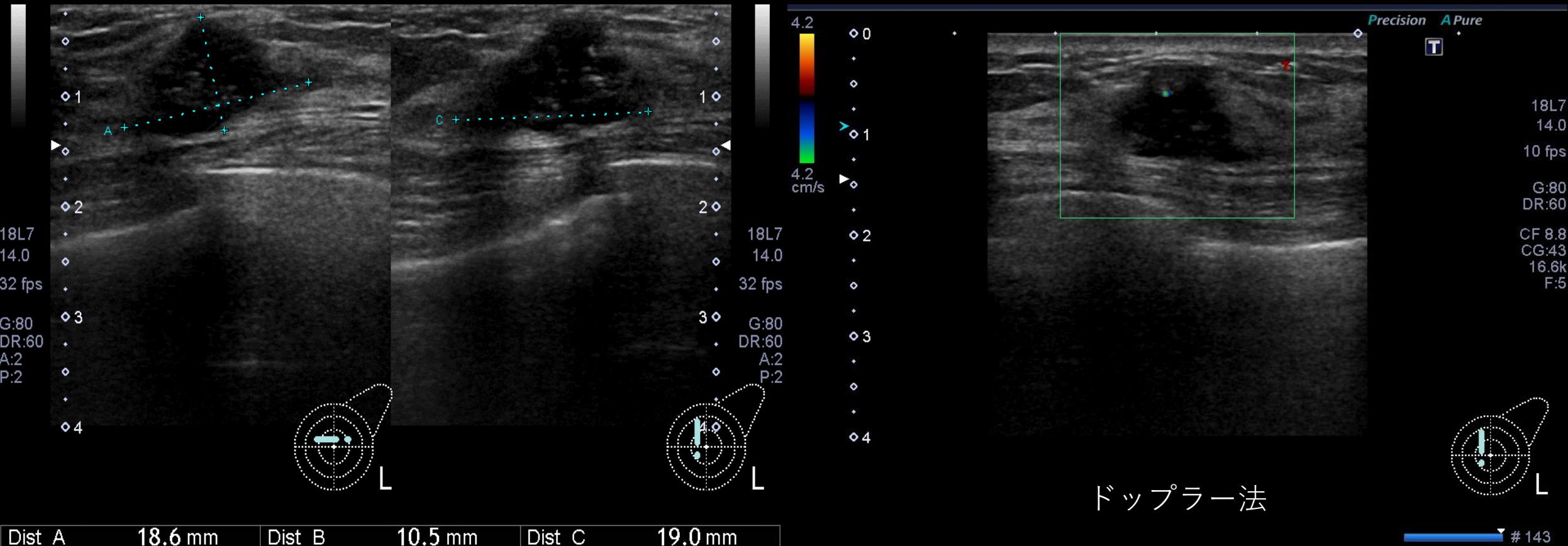
所見と診断カテゴリー分類をお願いします

MLO 拡大



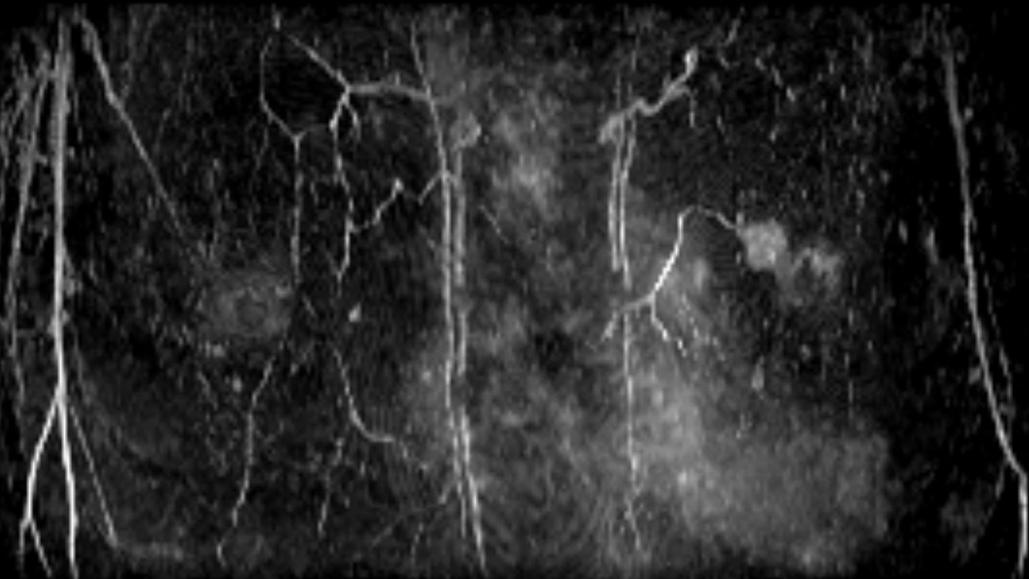
超音波(US)

所見と診断カテゴリー分類をお願いします

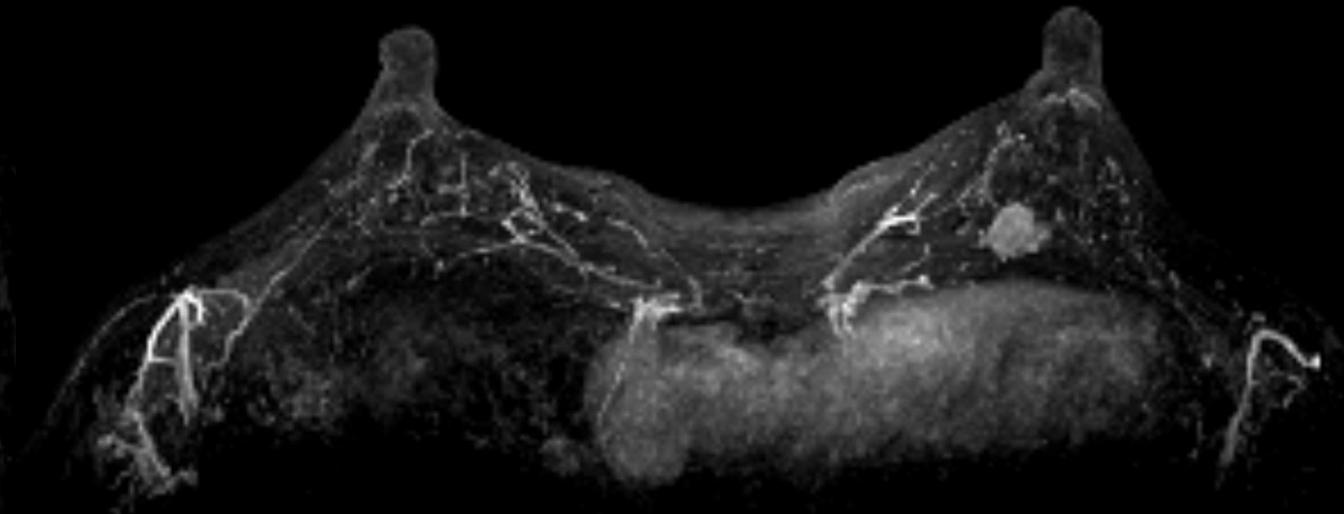


造影 MRI

BPE の判定と病変の局在評価
をお願いします



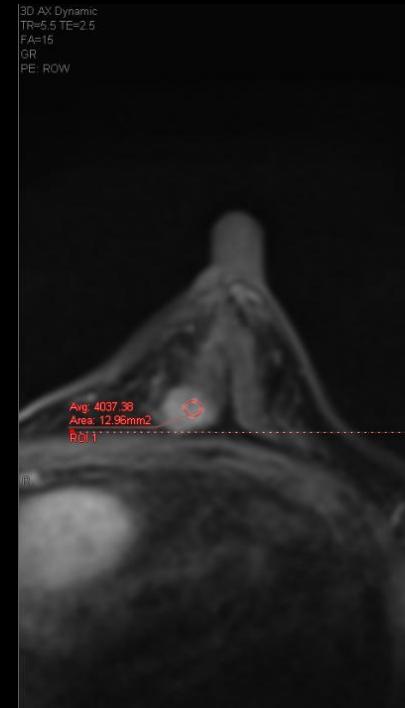
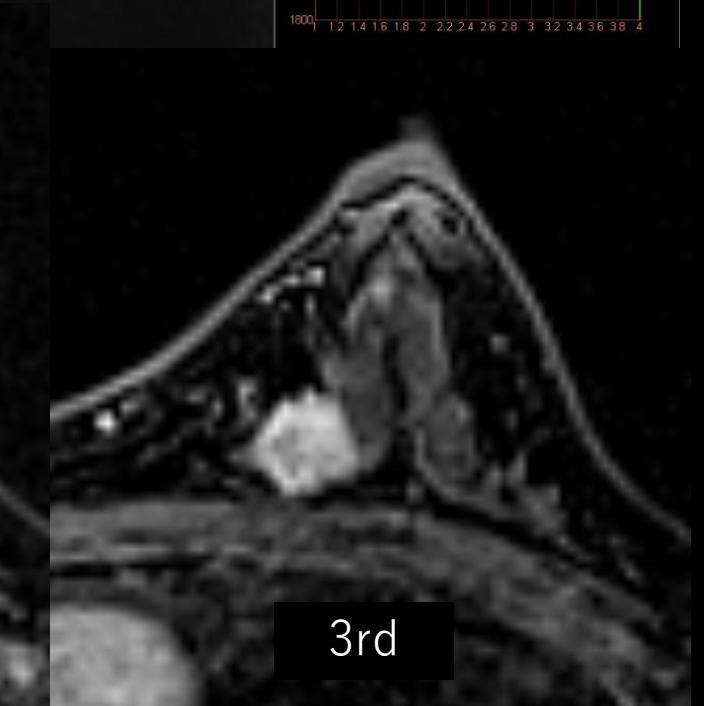
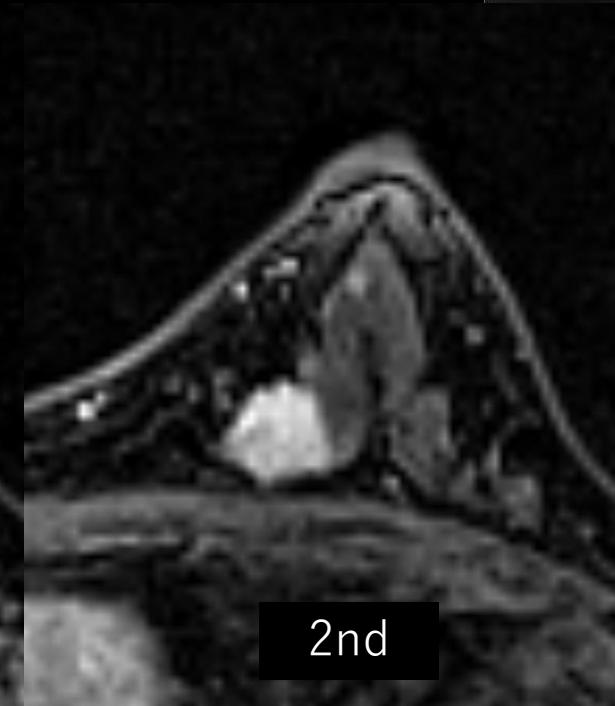
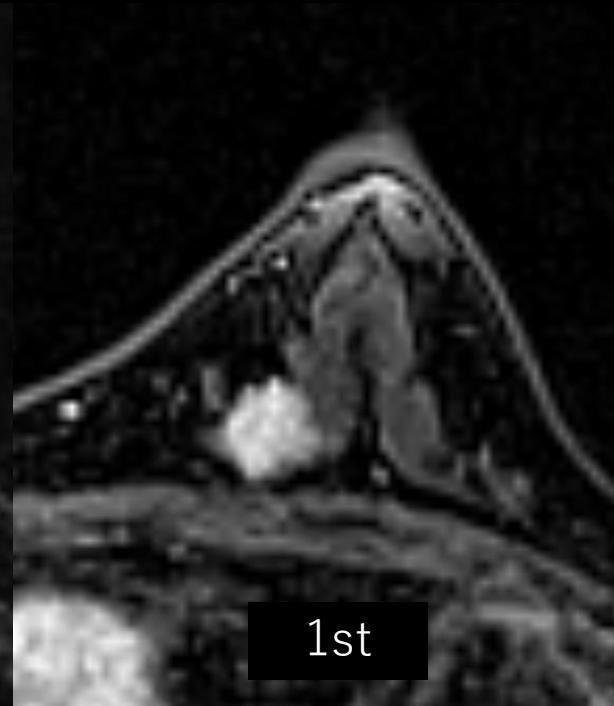
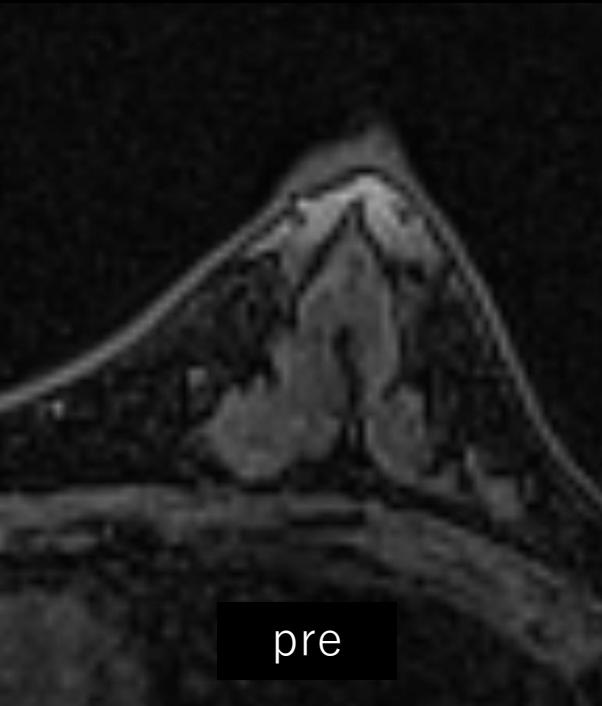
早期相 MIP coronal



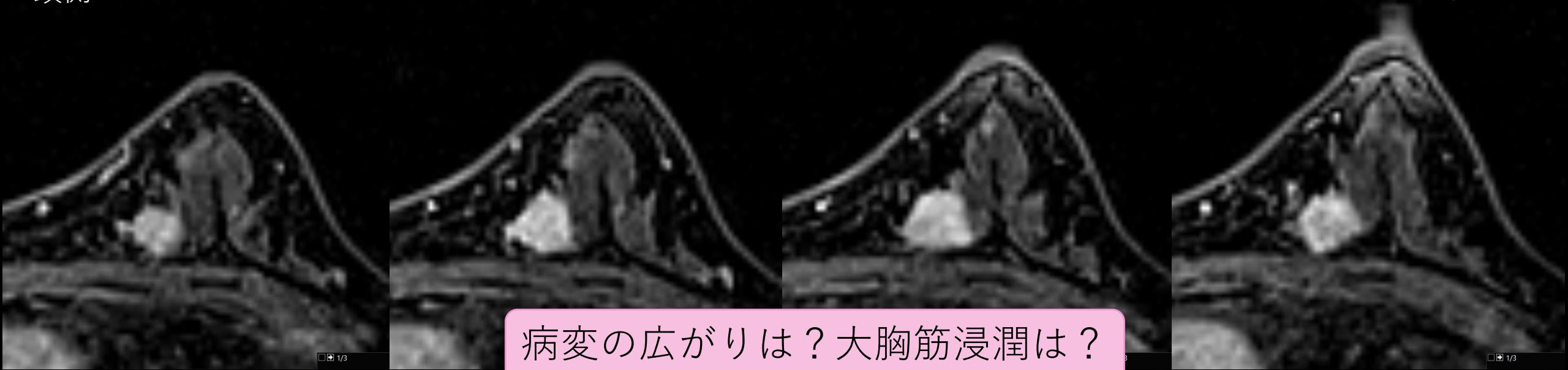
早期相 MIP axial

造影 MRI

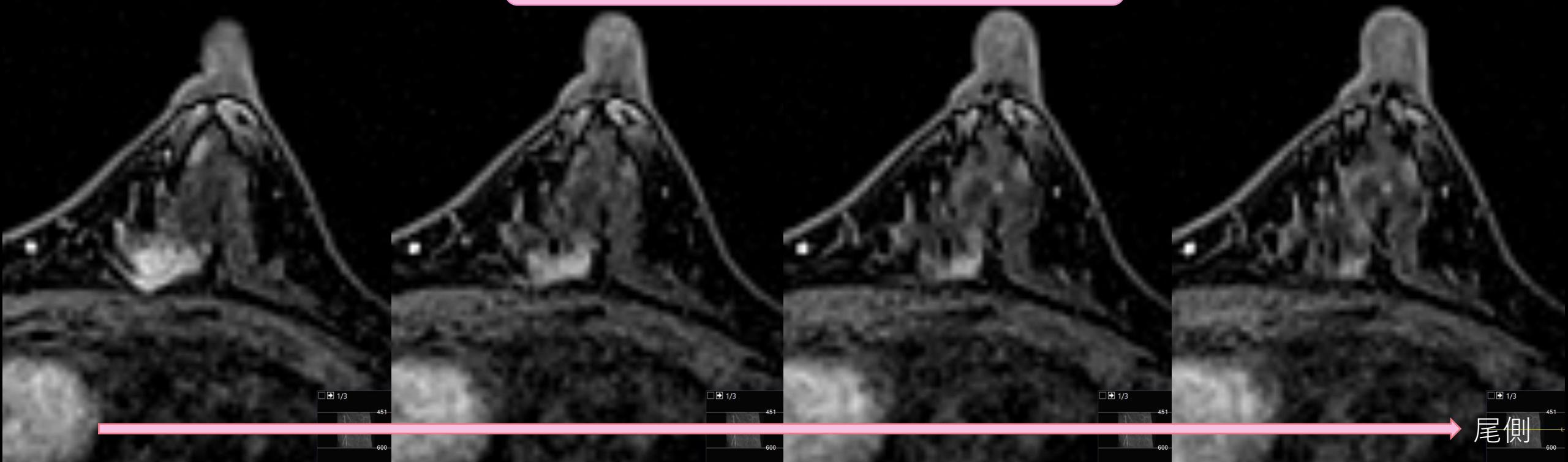
所見とBIRADSカテゴリー分類をお願いします



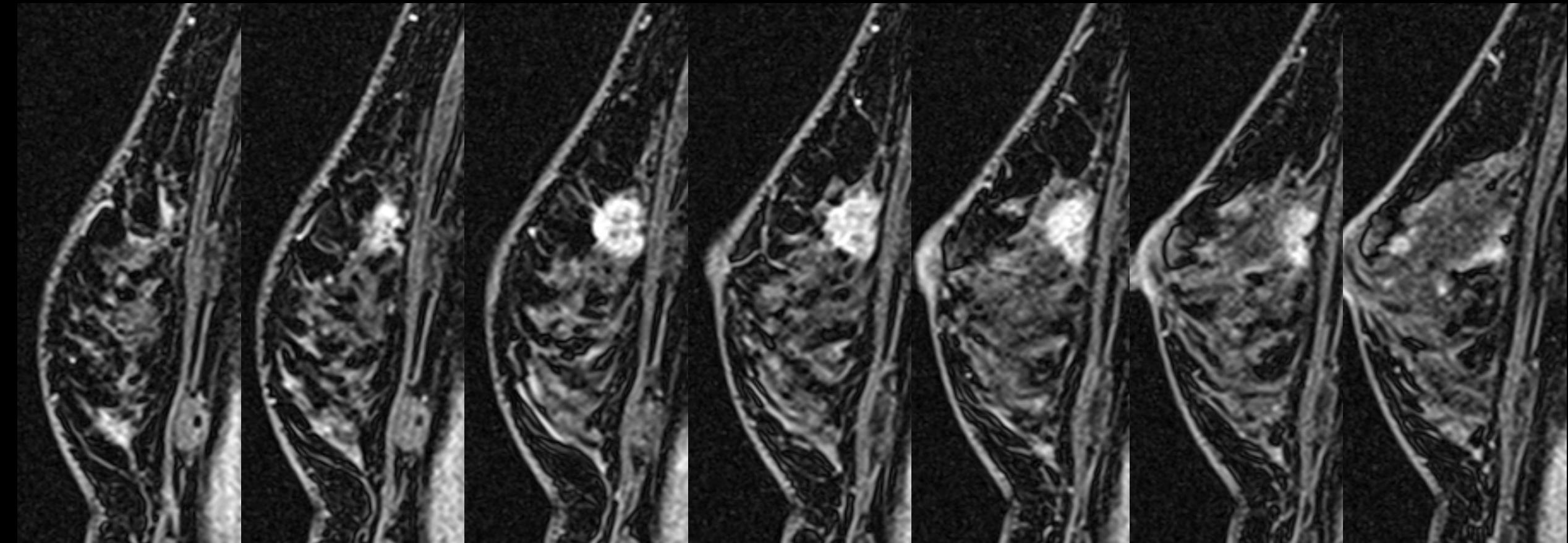
頭側



病変の広がりは？ 大胸筋浸潤は？

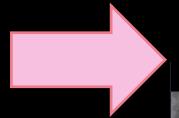


尾側

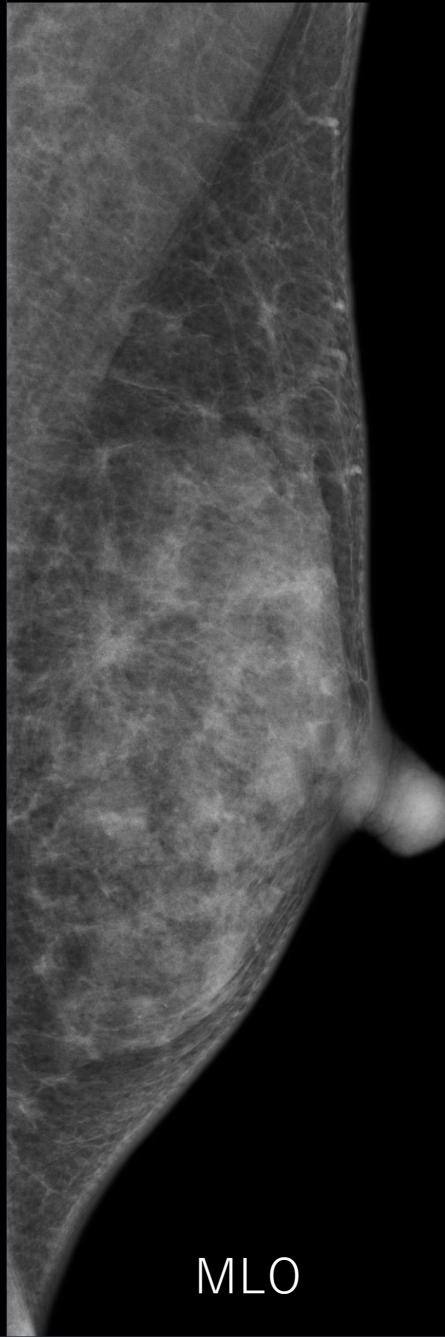
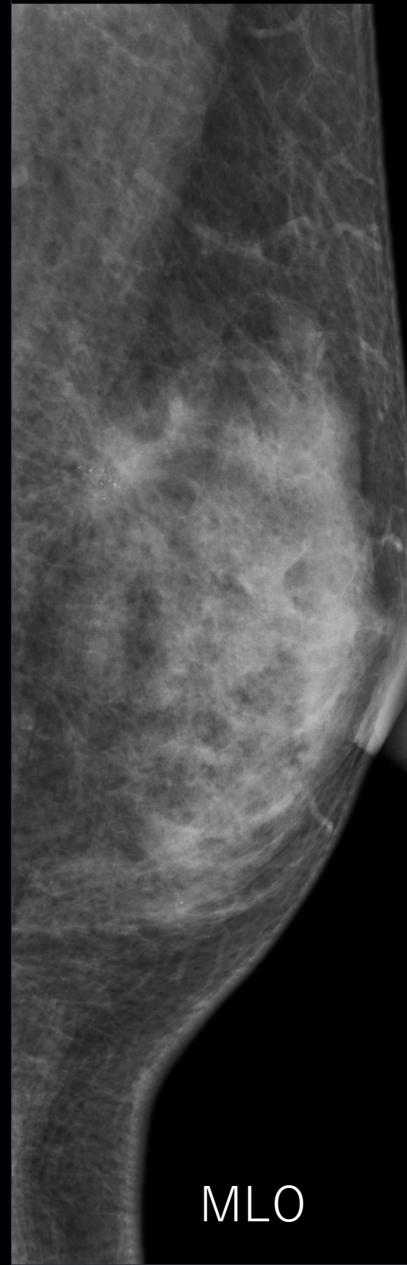


病変の広がりは？大胸筋浸潤は？

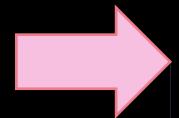
NAC 前



NAC 後

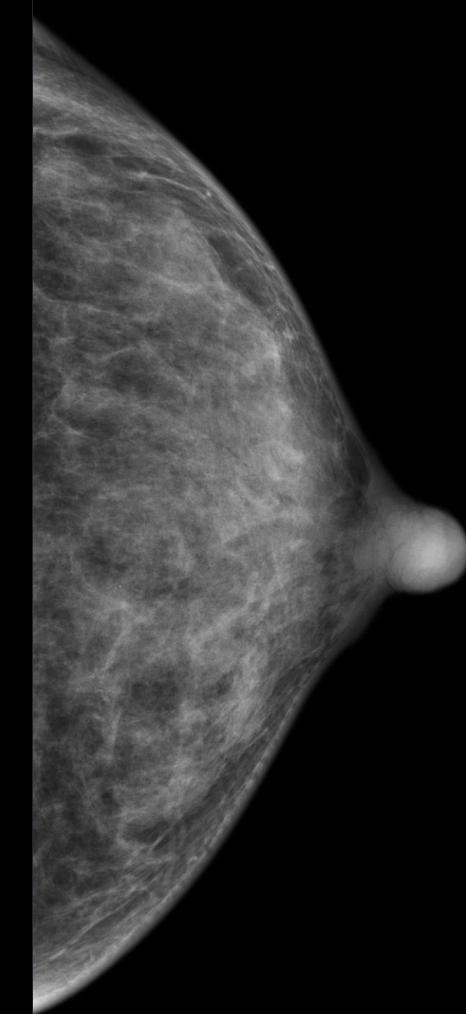
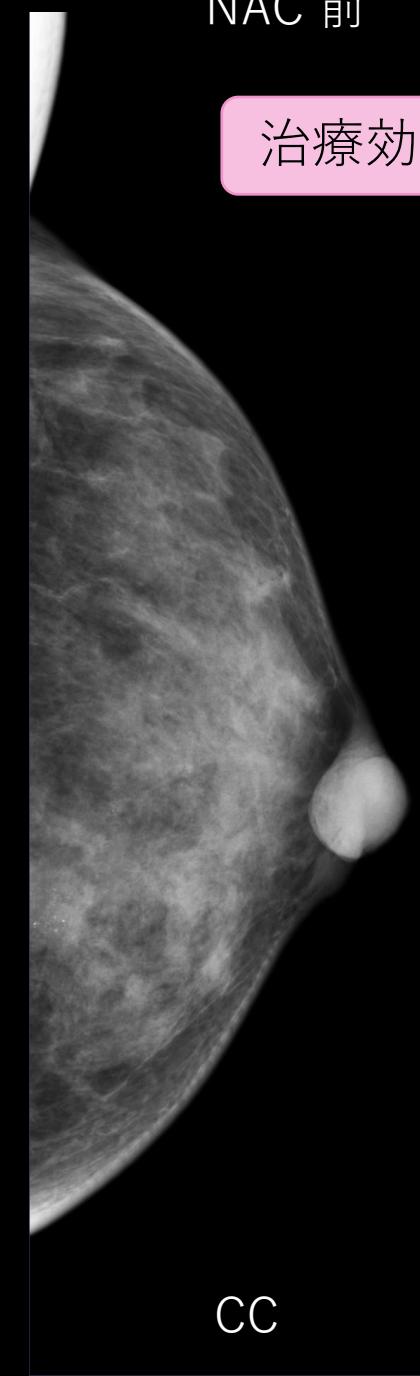


NAC 前



NAC 後

治療効果判定をお願いします



NAC 前



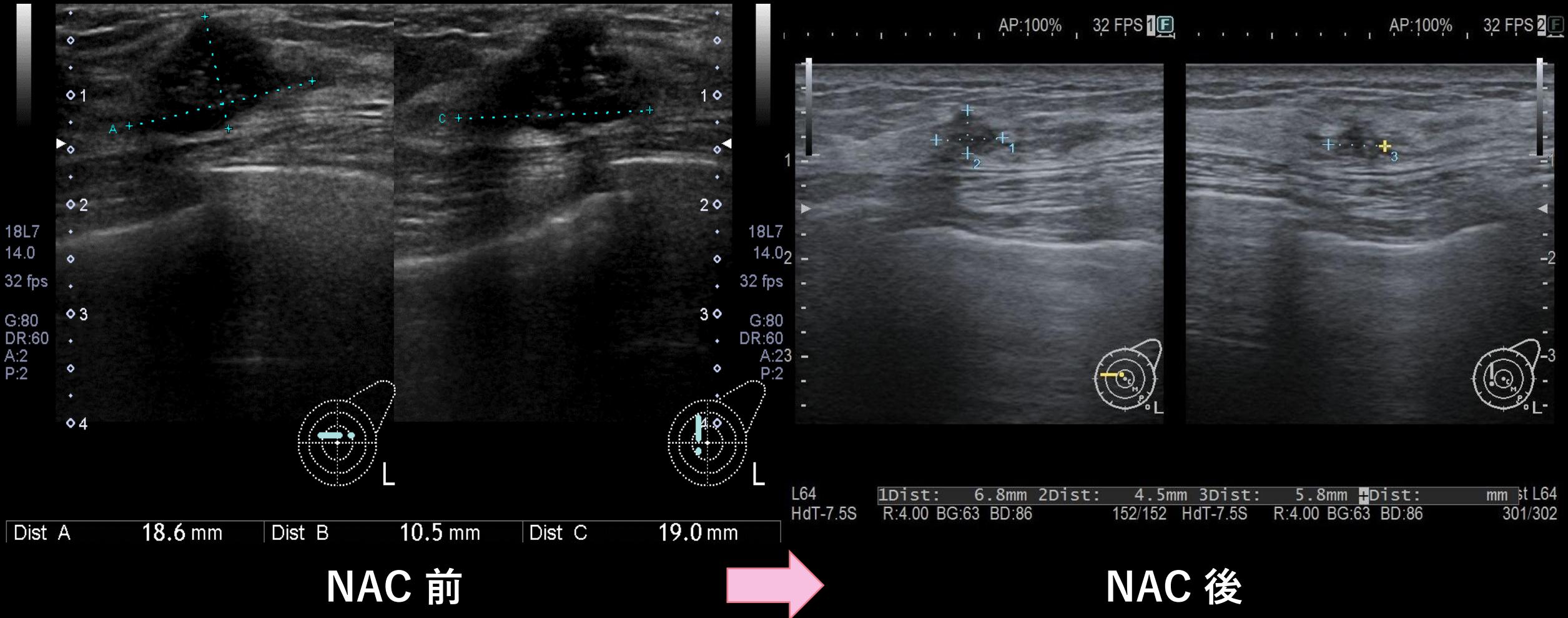
NAC 後

治療効果判定をお願いします

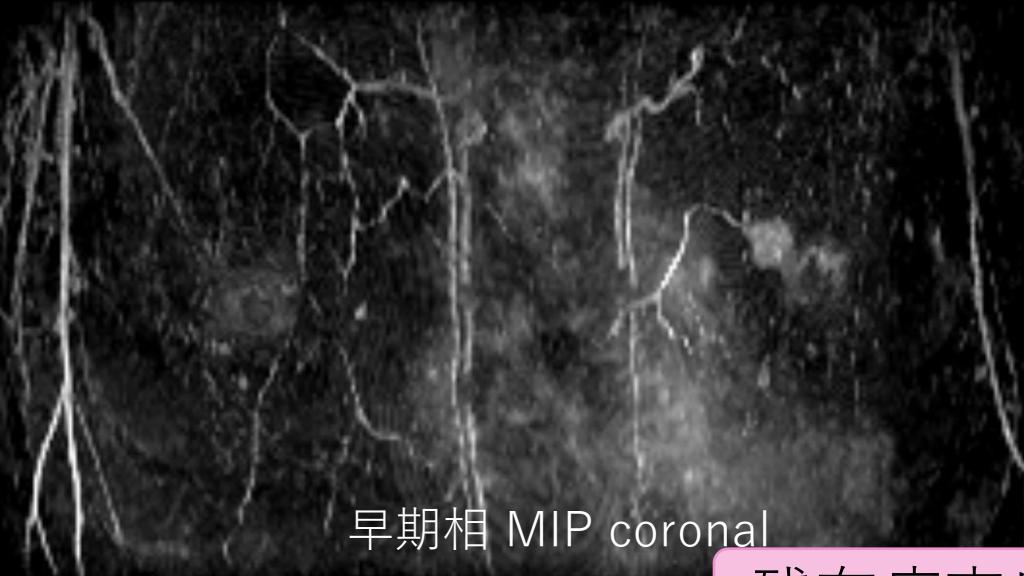
MLO 拡大

治療効果判定をお願いします

US

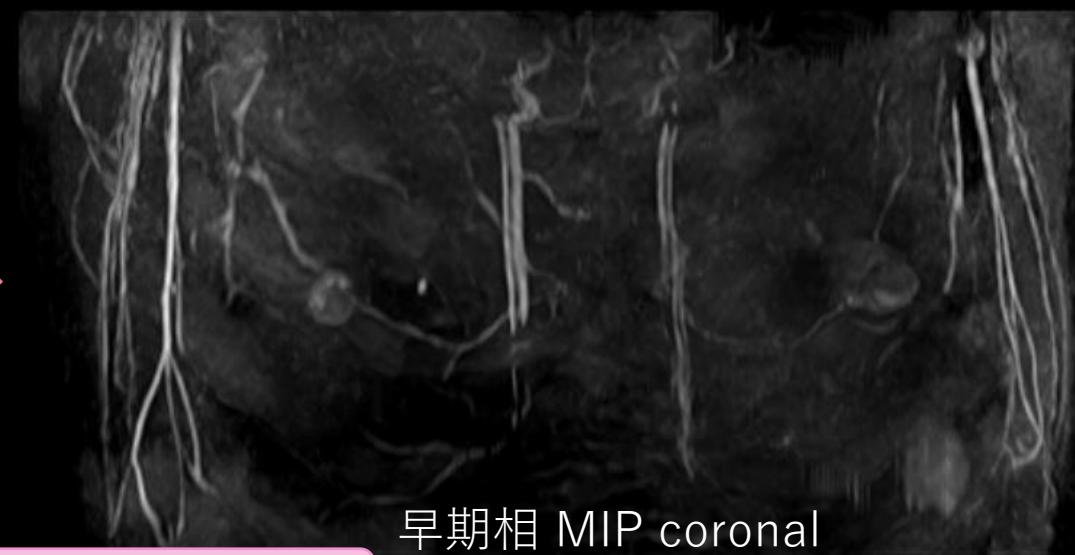


NAC 前



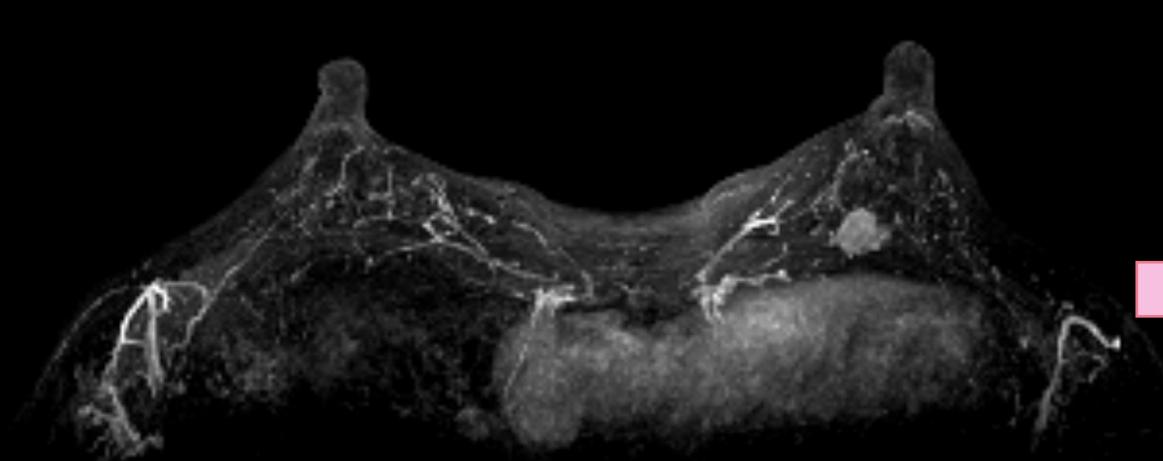
早期相 MIP coronal

NAC 後

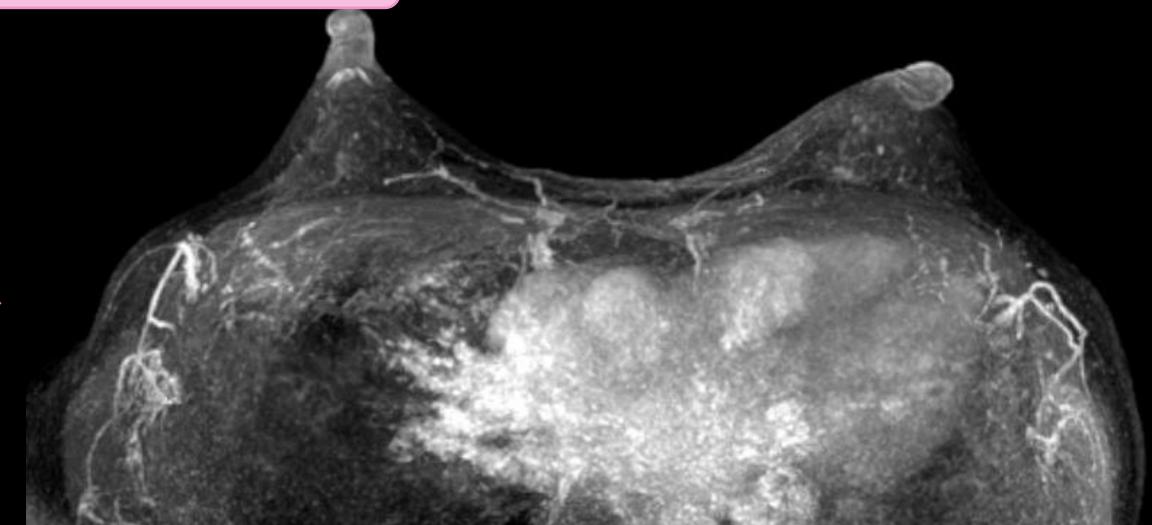
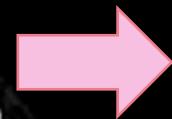


早期相 MIP coronal

残存病変はあるでしょうか？



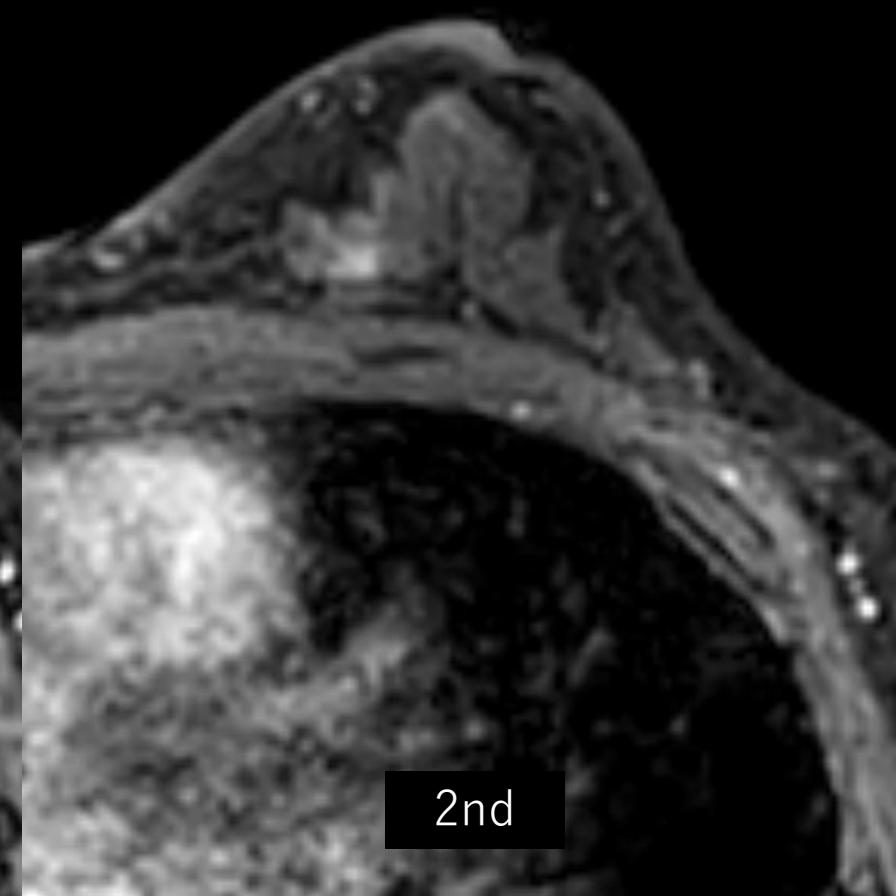
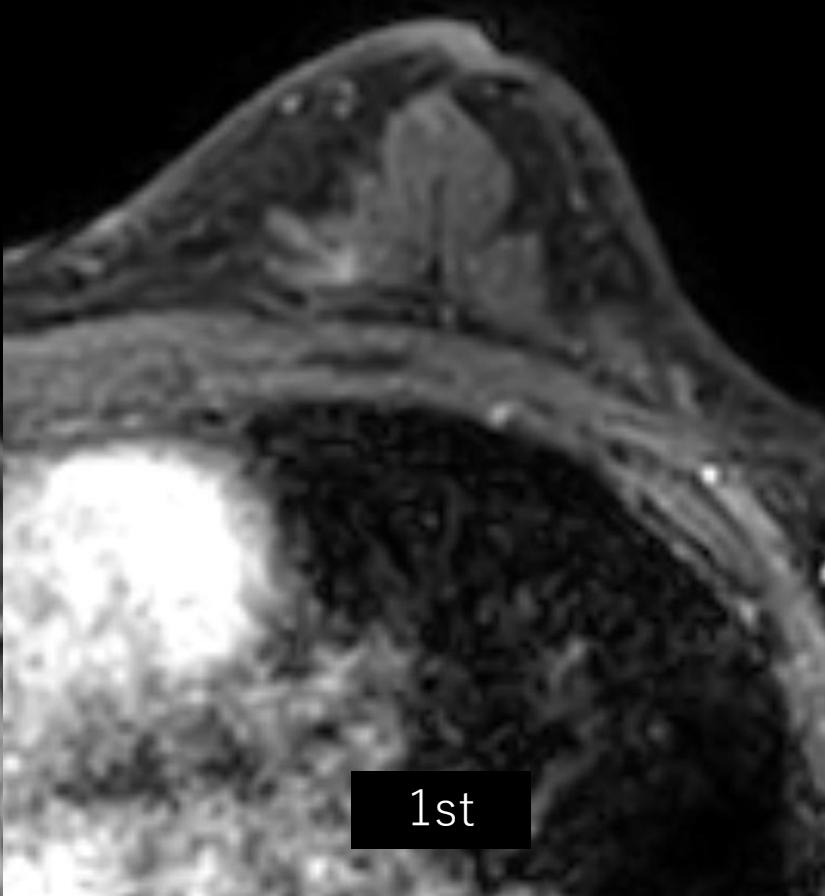
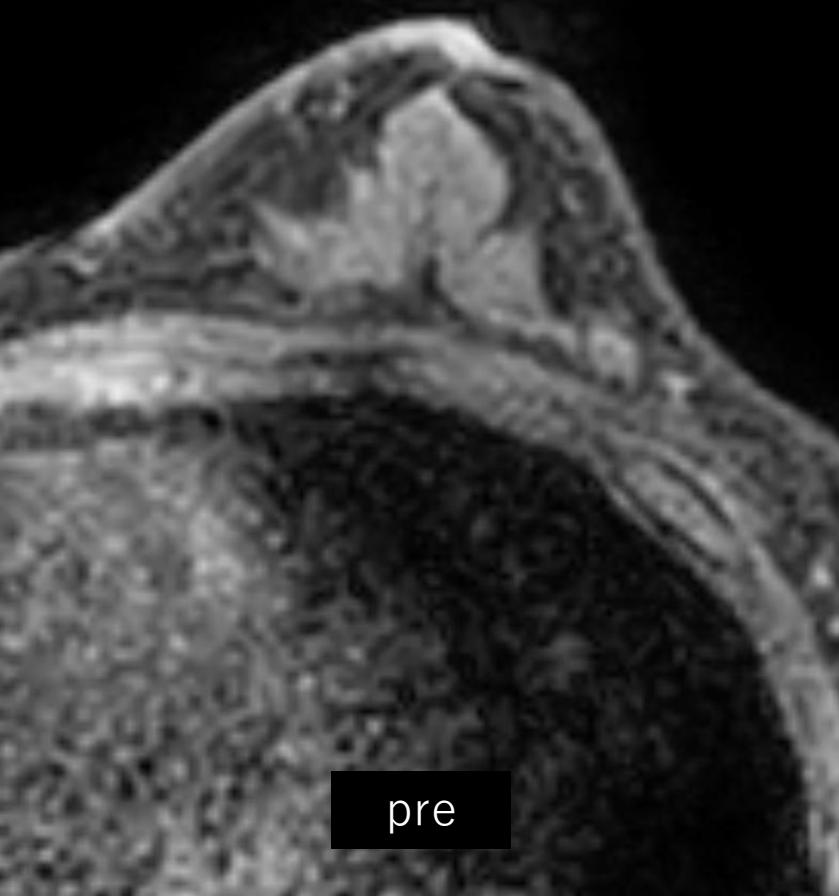
早期相 MIP axial



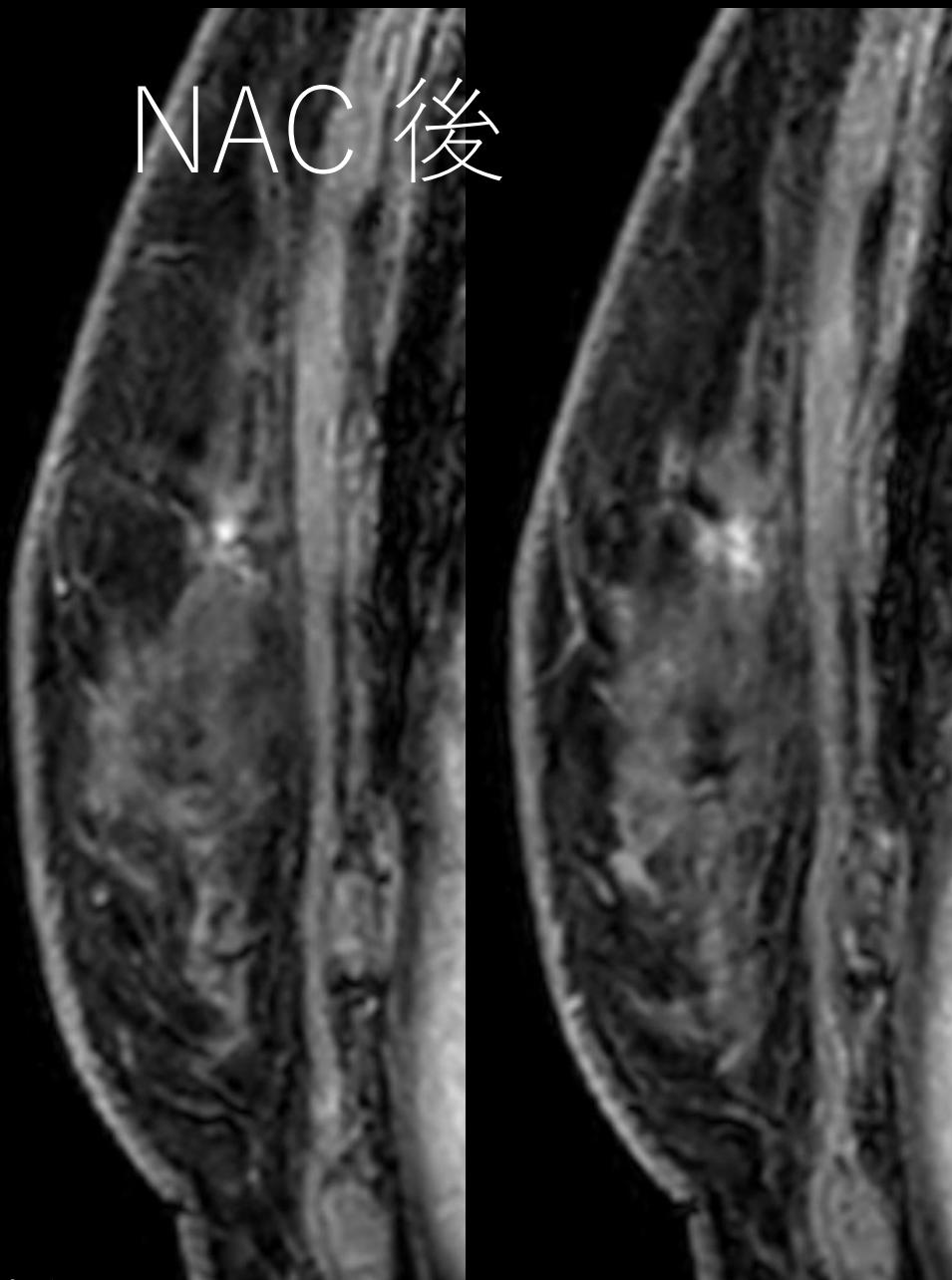
早期相 MIP axial

治療効果判定をお願いします

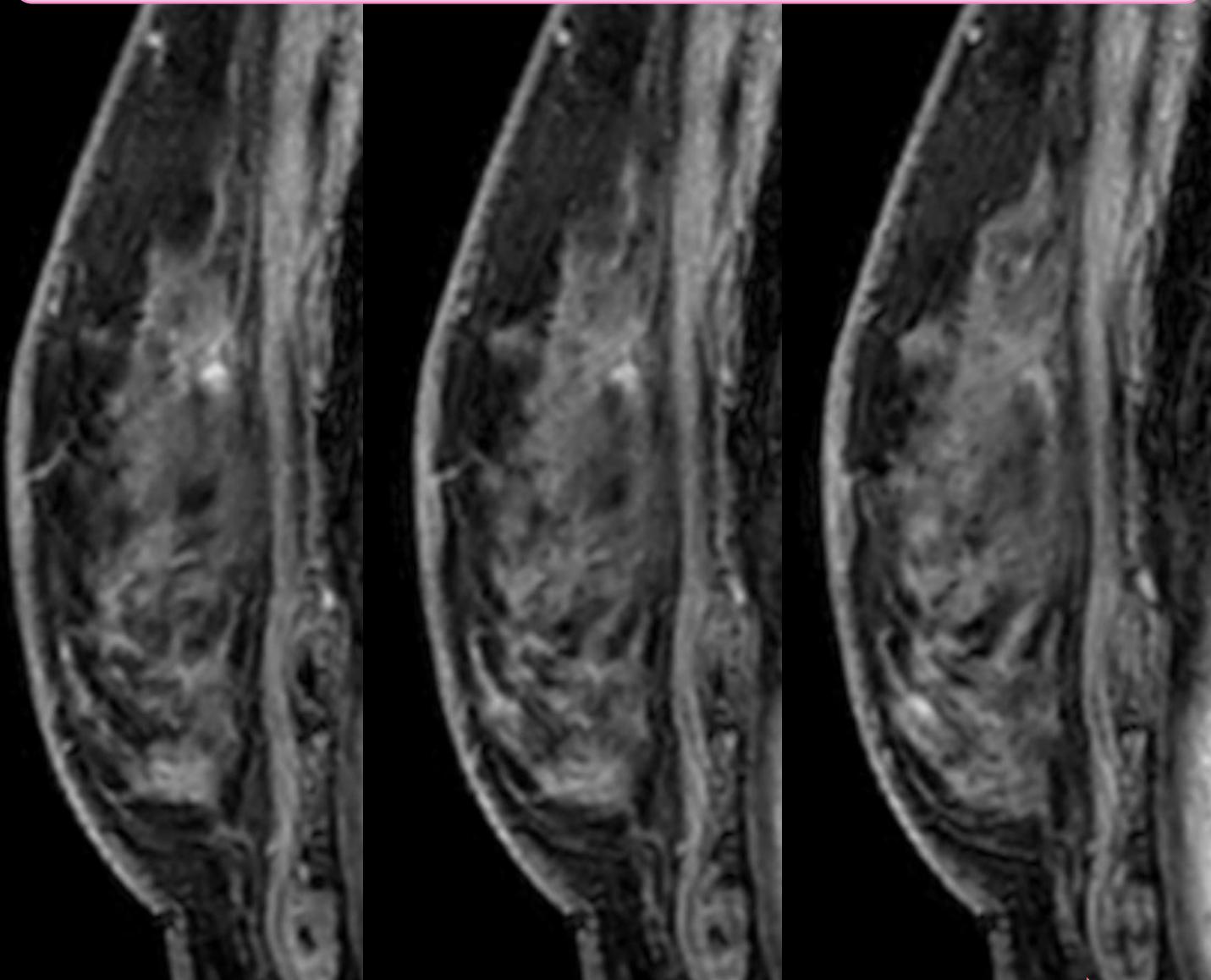
NAC 後



NAC 後



治療効果判定をお願いします



内側

外側

症例 2

- 40代女性
- 右腋窩腫瘍を自覚し前医受診

所見と診断カテゴリー分類をお願いします

MG

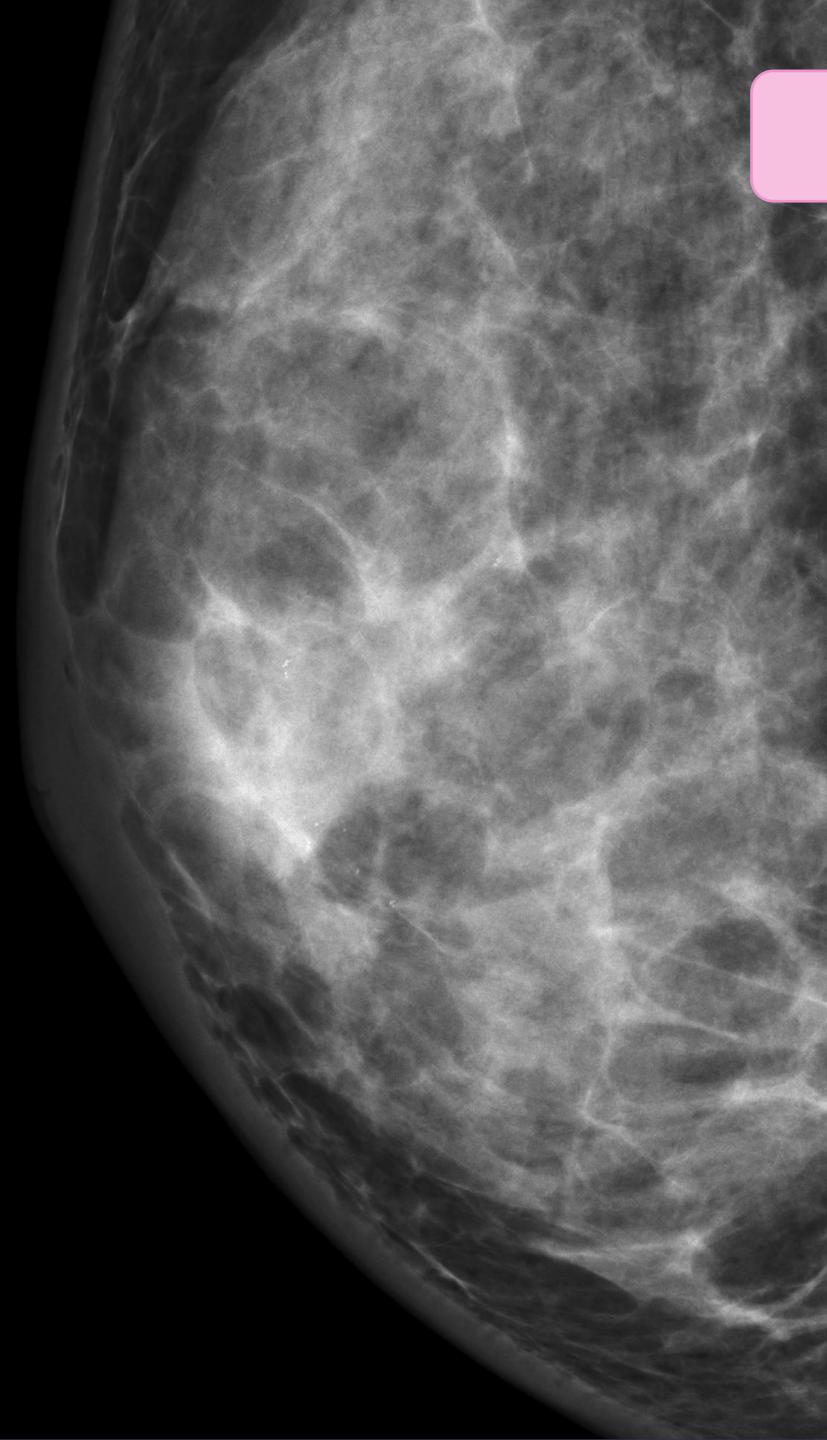
MLO



CC

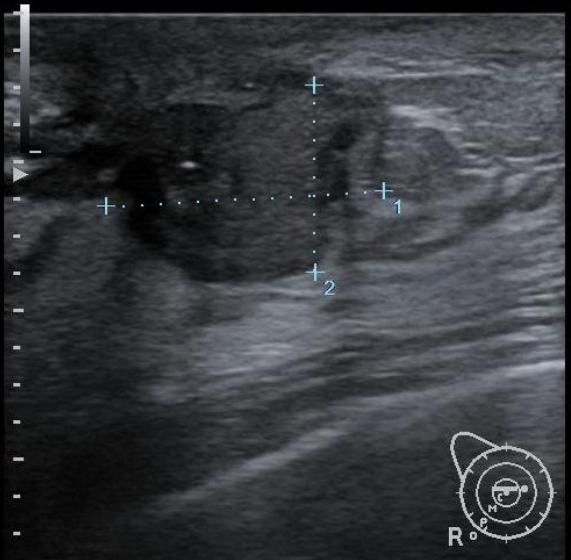


MLO 拡大



所見と診断カテゴリー分類をお願いします

AP:100% 32 FPS 1 [F]



AP:100% 32 FPS 2 [F]



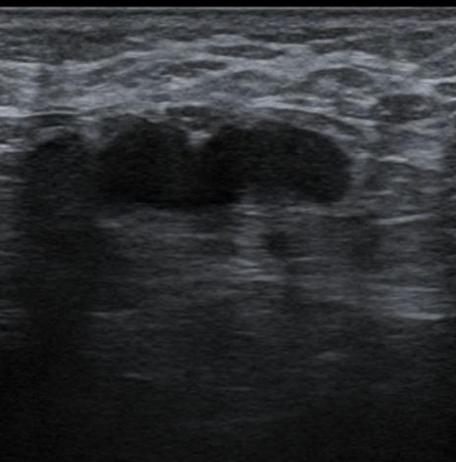
AP:100% 14 FPS 2 [F]



L64
HdT-7.5S 1Dist: 18.7mm 2Dist: 12.6mm 3Dist: 15.7mm +Dist: mm st L64
R:4.00 BG:63 BD:86 1821/1822 HdT-7.5S R:4.00 BG:63 BD:86

L64
HdT-7.5S R:4.00 BG:63 BD:86
0.7k/8.57MHz CG:60

AP:100% 32 FPS 2 [F]



L64
HdT-7.5S R:4.00 BG:63 BD:86

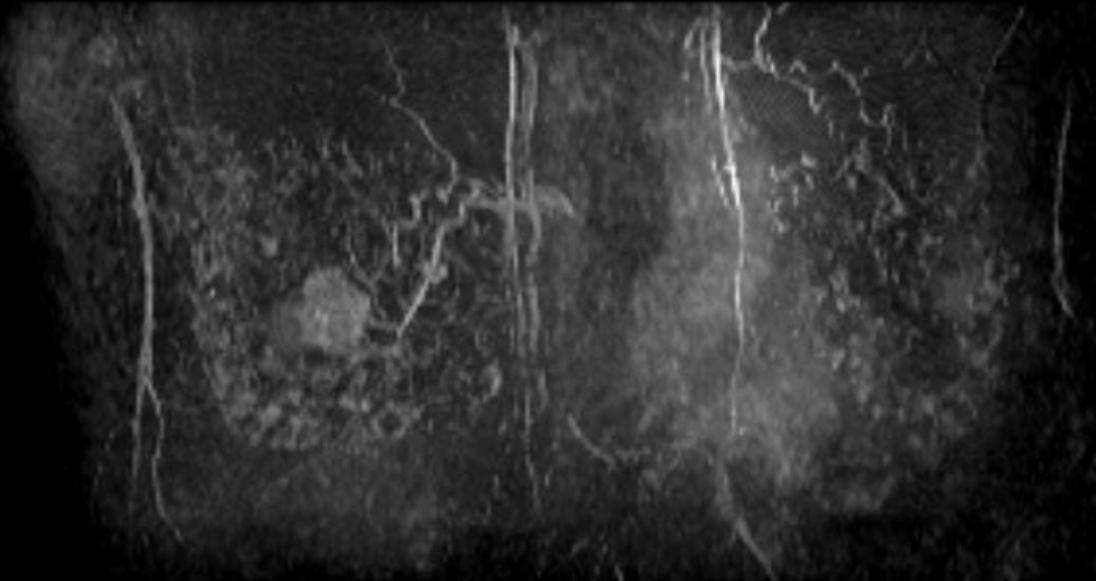
Breast L64
468/469

所見と
診断カテゴリー
分類をお願い
します

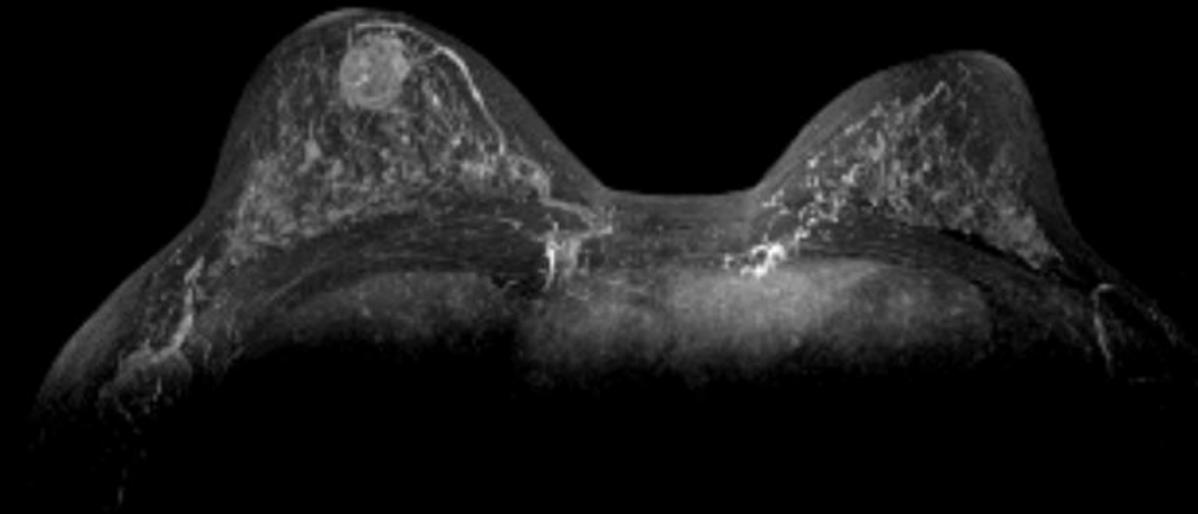


造影 MRI

BPE の判定と病変の局在評価
をお願いします



早期相 MIP coronal



早期相 MIP axial

所見とBIRADSカテゴリー分類をお願いします

FS-T2WI

DWI

ADC map

pre

1st

2nd

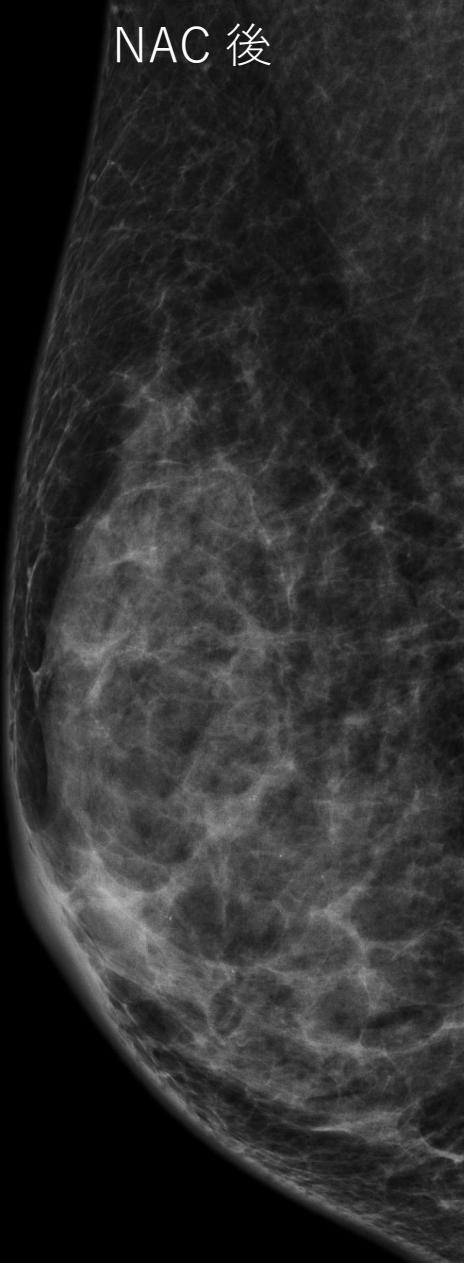
3rd

NAC 前

MLO

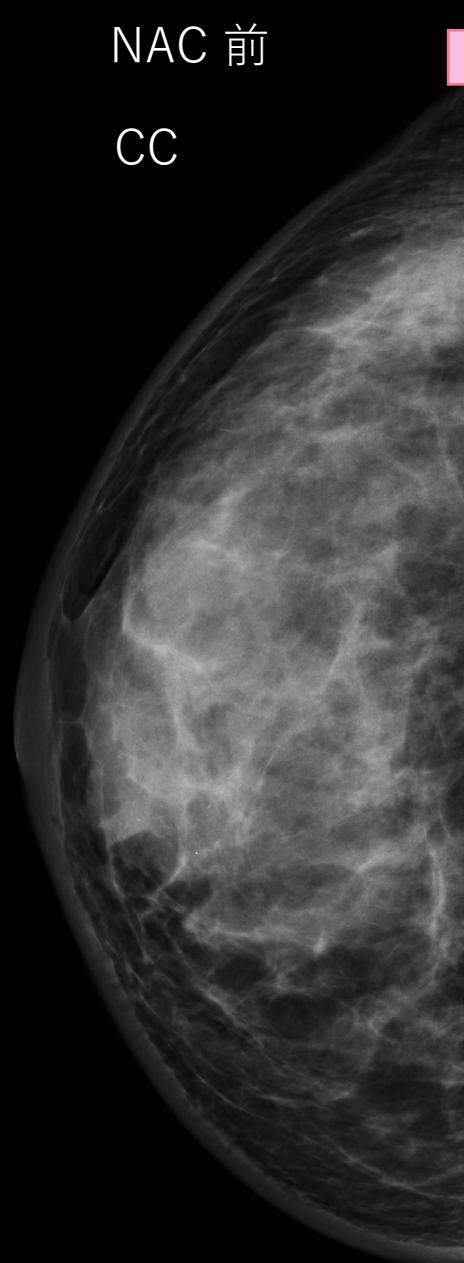


NAC 後

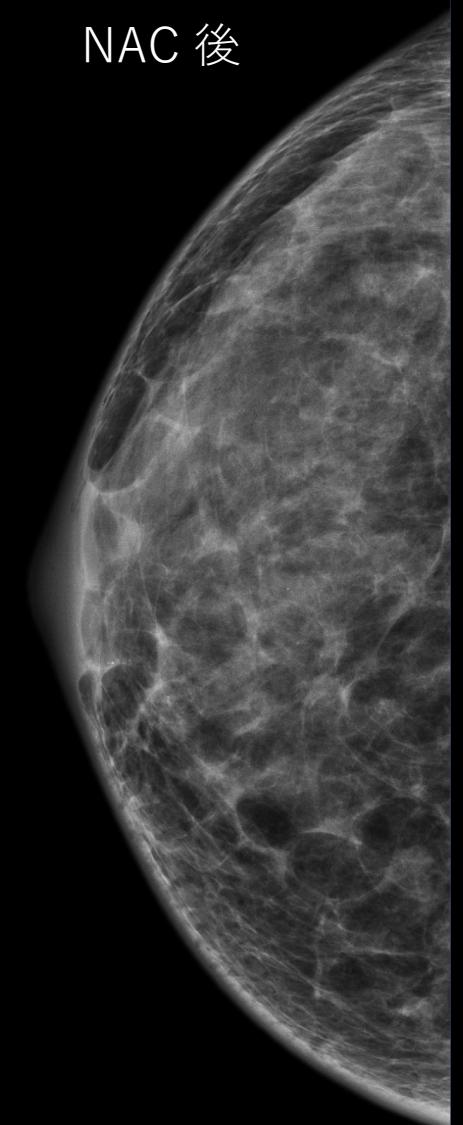


NAC 前

CC

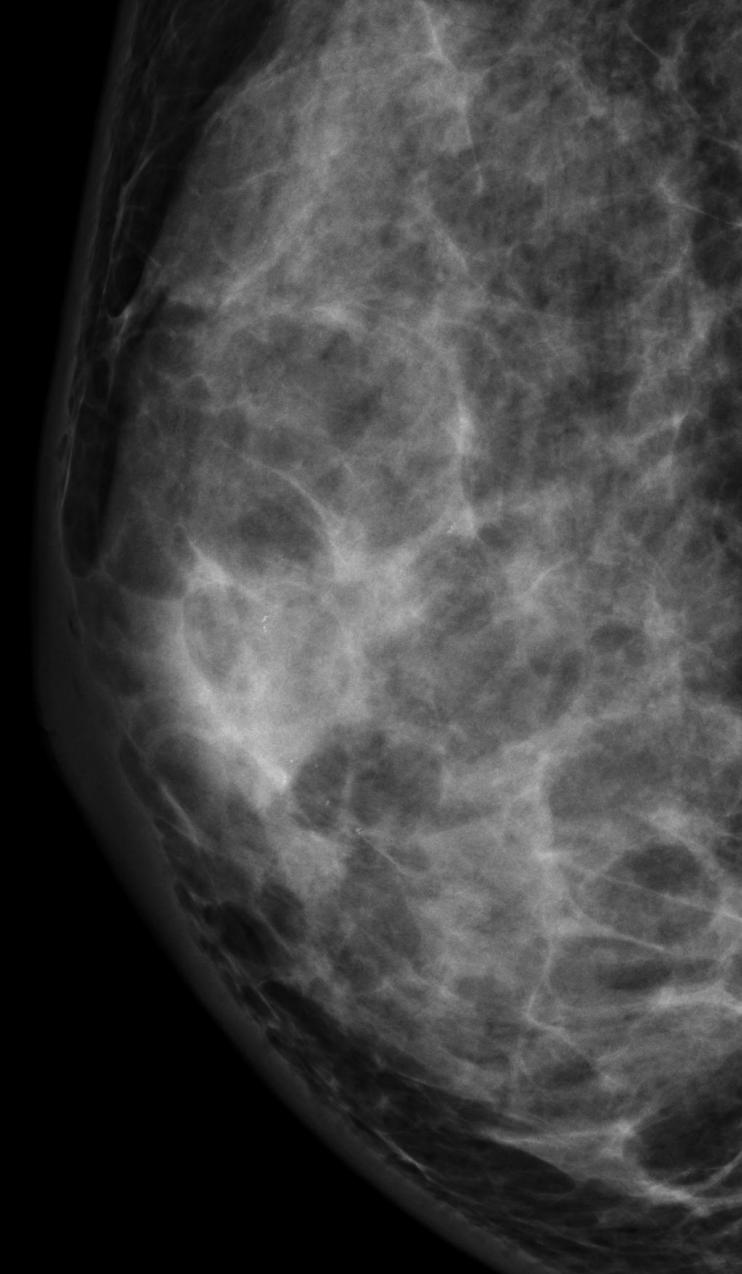


NAC 後

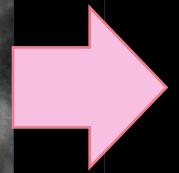
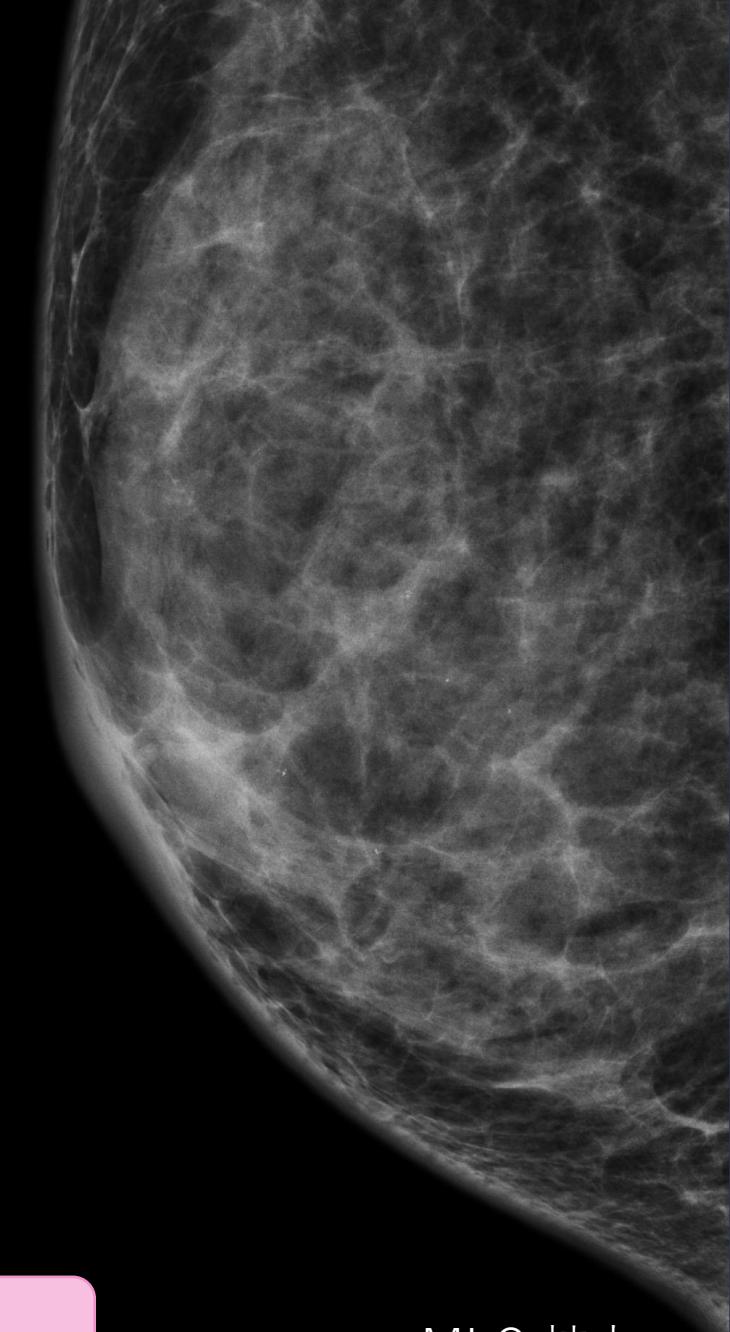


治療効果判定をお願いします

NAC 前



NAC 後



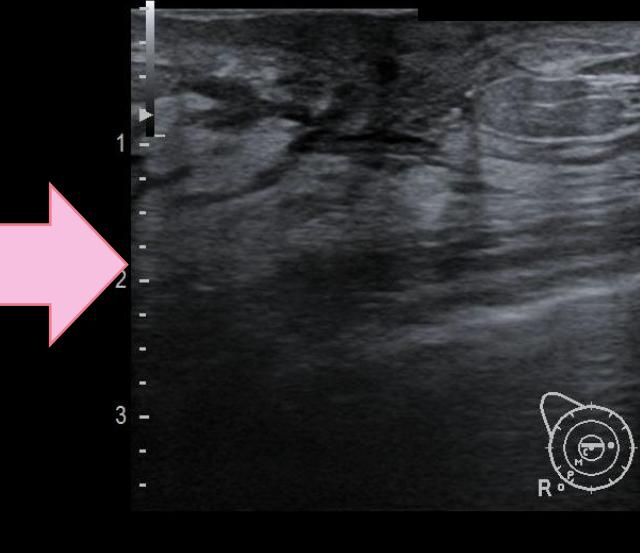
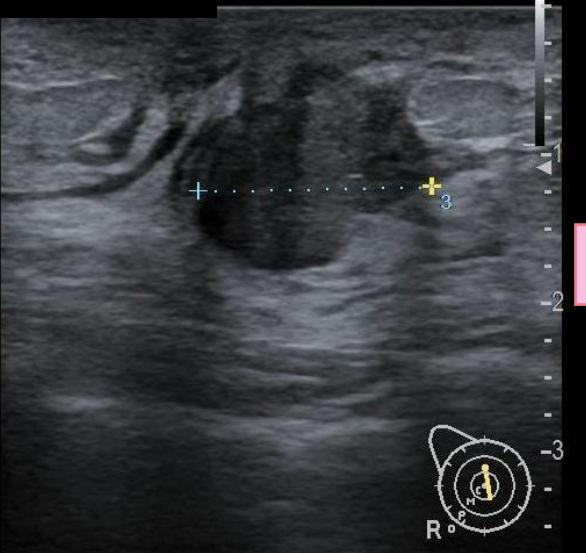
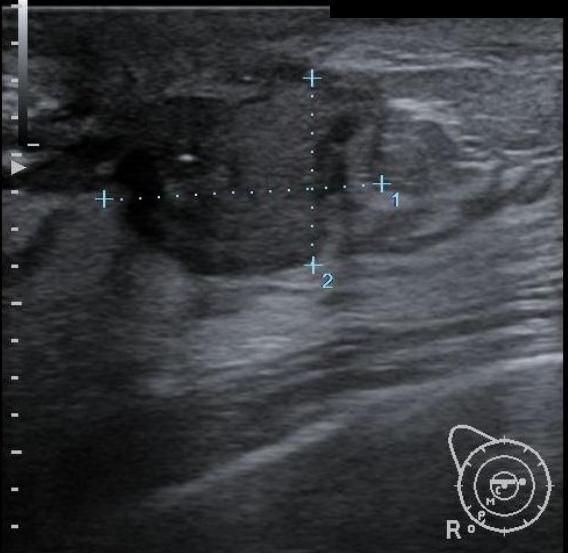
治療効果判定をお願いします

MLO 拡大

A

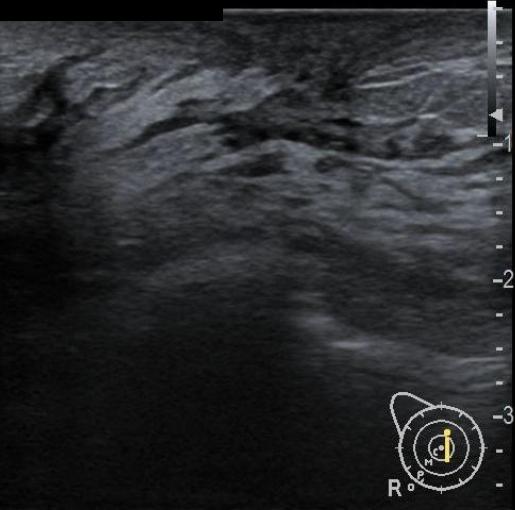
NAC 前

AP:100% 32 FPS 2 F



NAC 後

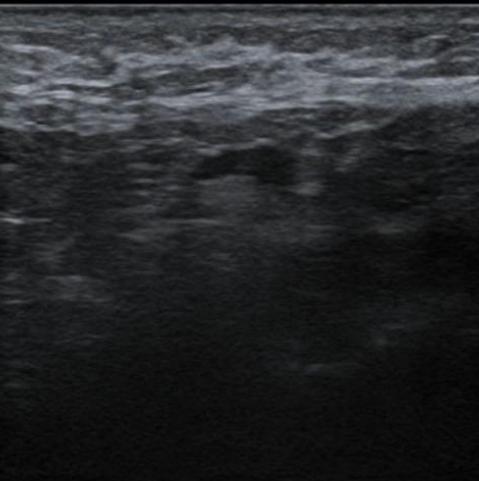
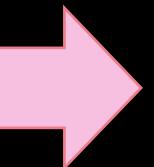
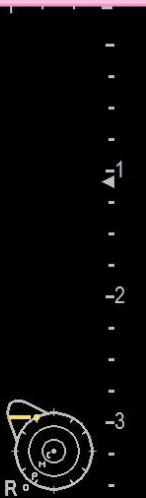
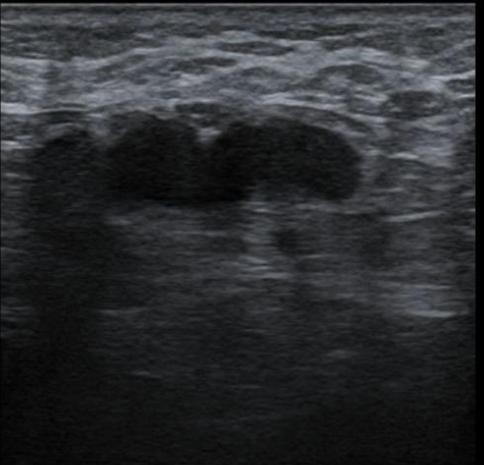
AP:100% 32 FPS 2 F



L64

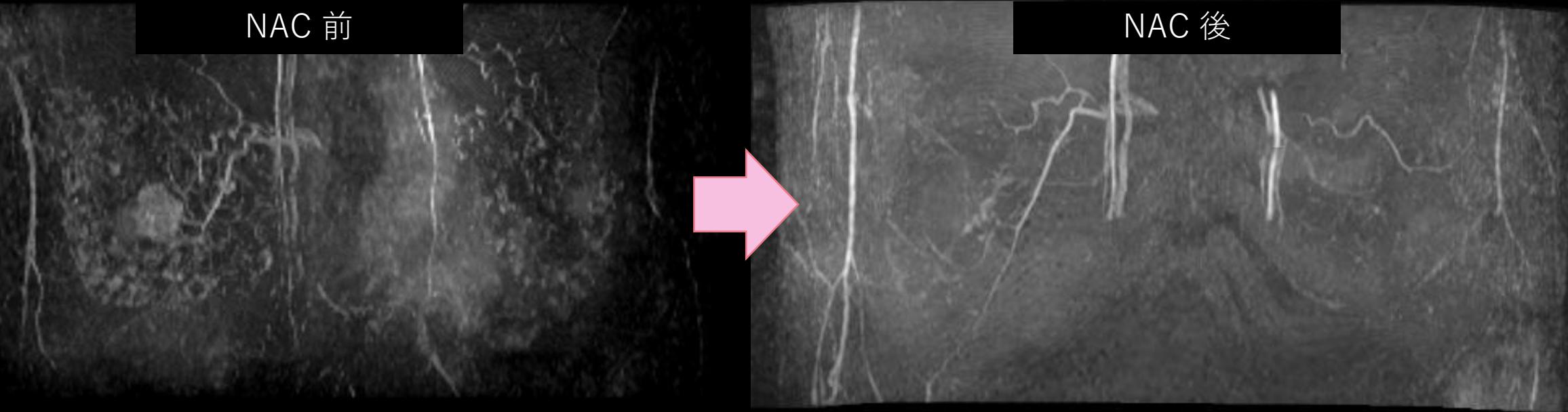
1Dist: 18.7mm 2Dist: 12.6mm 3Dist:

治療効果判定をお願いします

L64
HdT-7.5S R:4.00 BG:63 BD:86Breast L64
468/469L64
HdT-7.5S R:4.00 BG:63 BD:86Breast L64
263/263L64
964/2965 HdT-7.5S R:4.00 BG:63 BD:86
AP:100% 32 FPS 2 F
Breast L64
275/275

NAC 前

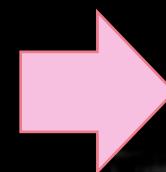
NAC 後



早期相 MIP coronal

早期相 MIP coronal

残存病変はあるでしょうか？



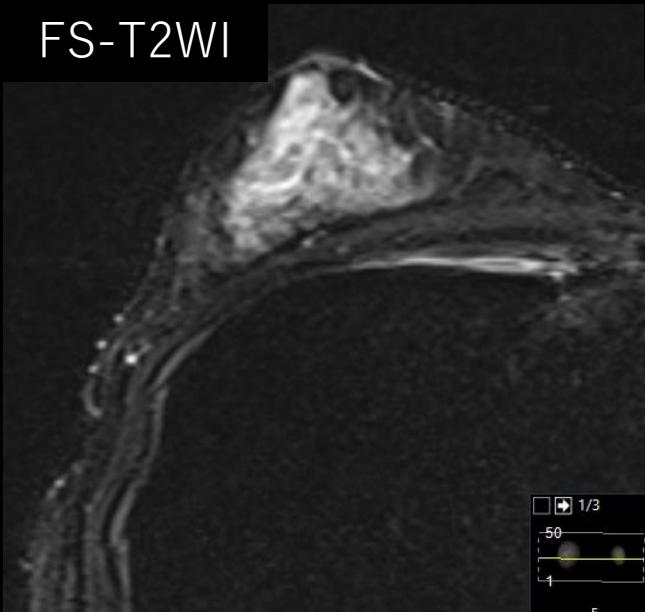
早期相 MIP axial

早期相 MIP axial

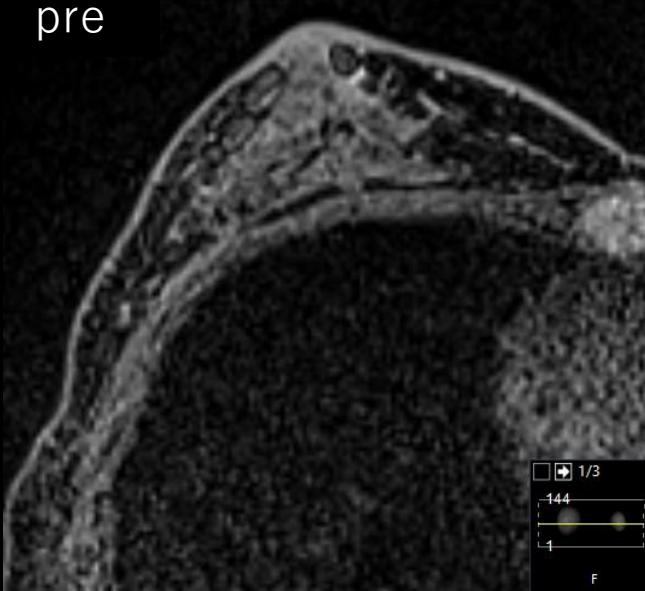
NAC 後

治療効果判定をお願いします

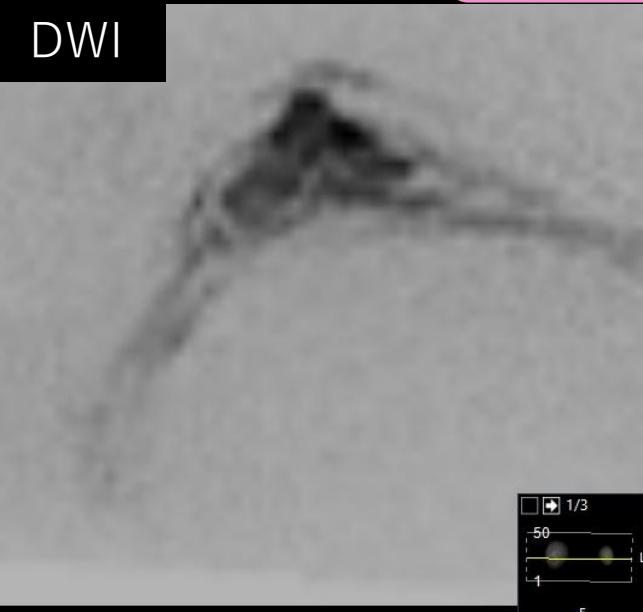
FS-T2WI



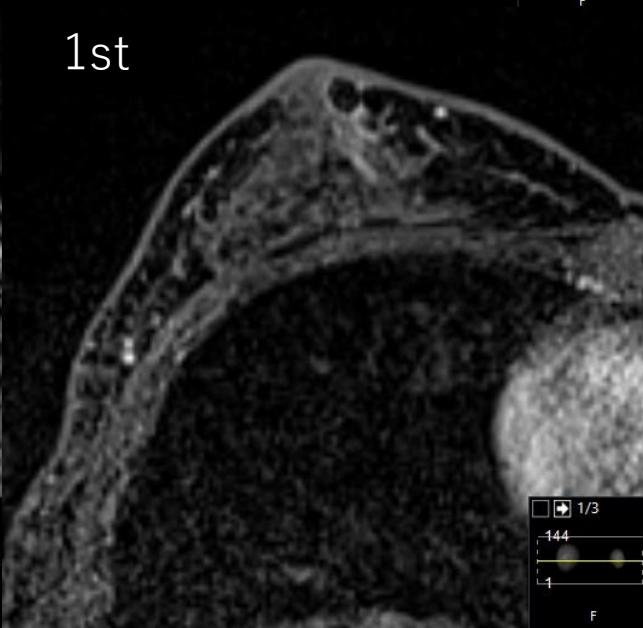
pre



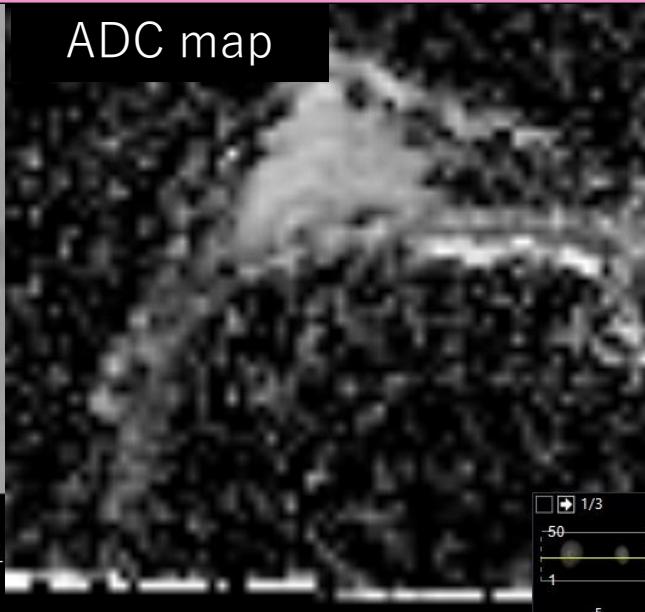
DWI



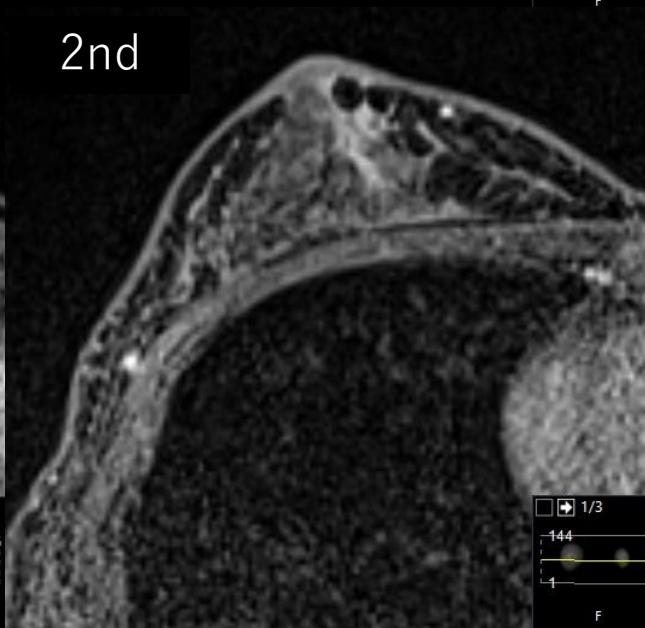
1st



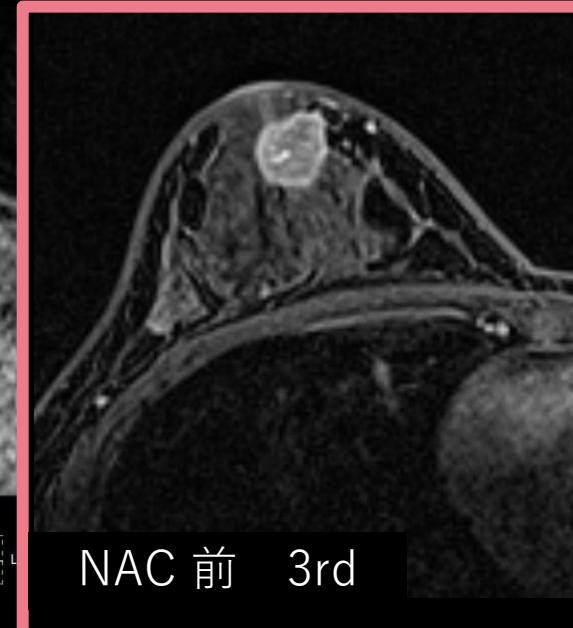
ADC map



2nd



NAC 前 3rd

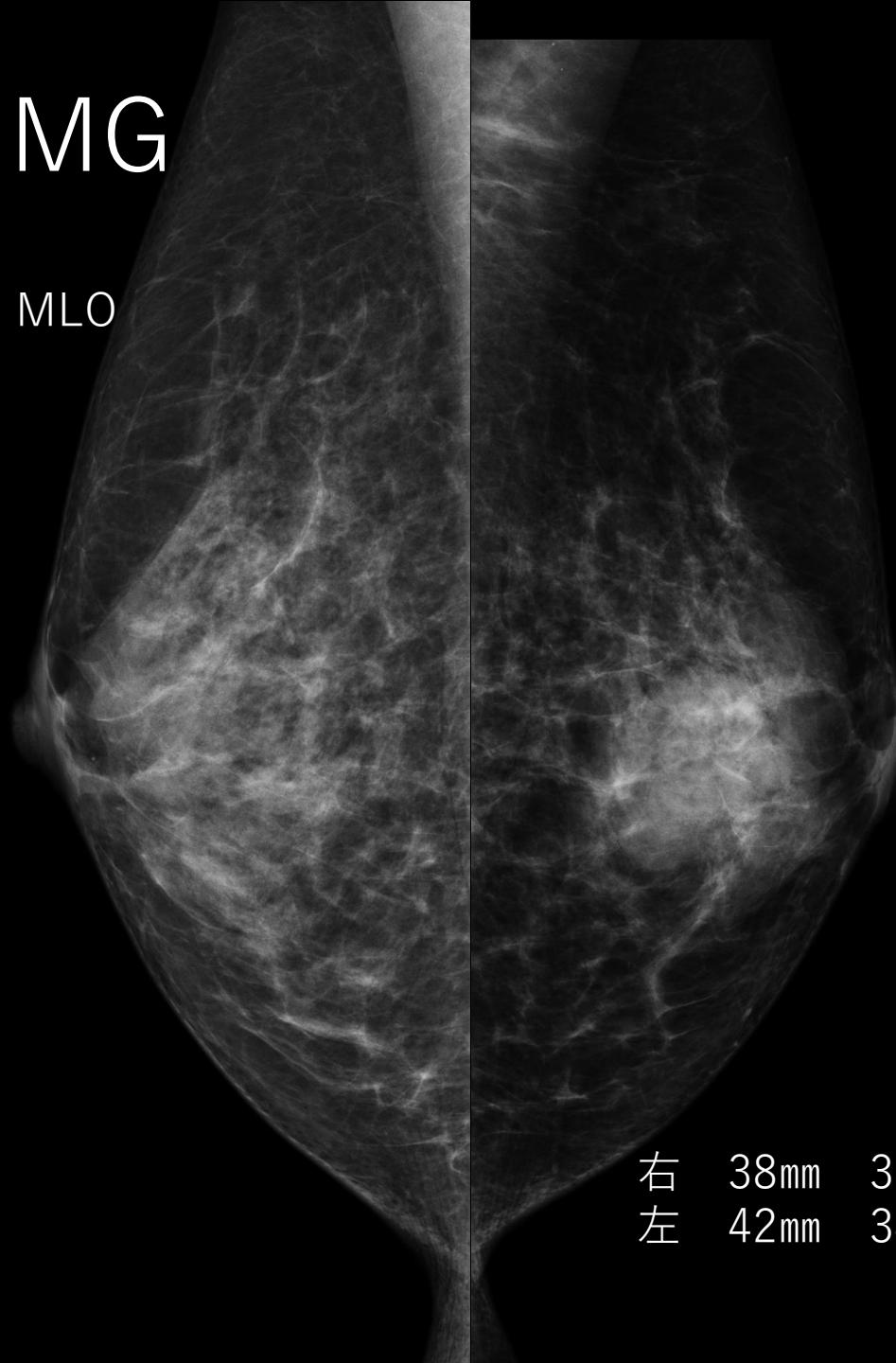


症例 3

- 40代女性
- 乳癌検診で要精査となり受診
- 左 CD 境界に3cm大の腫瘍を触知

MG

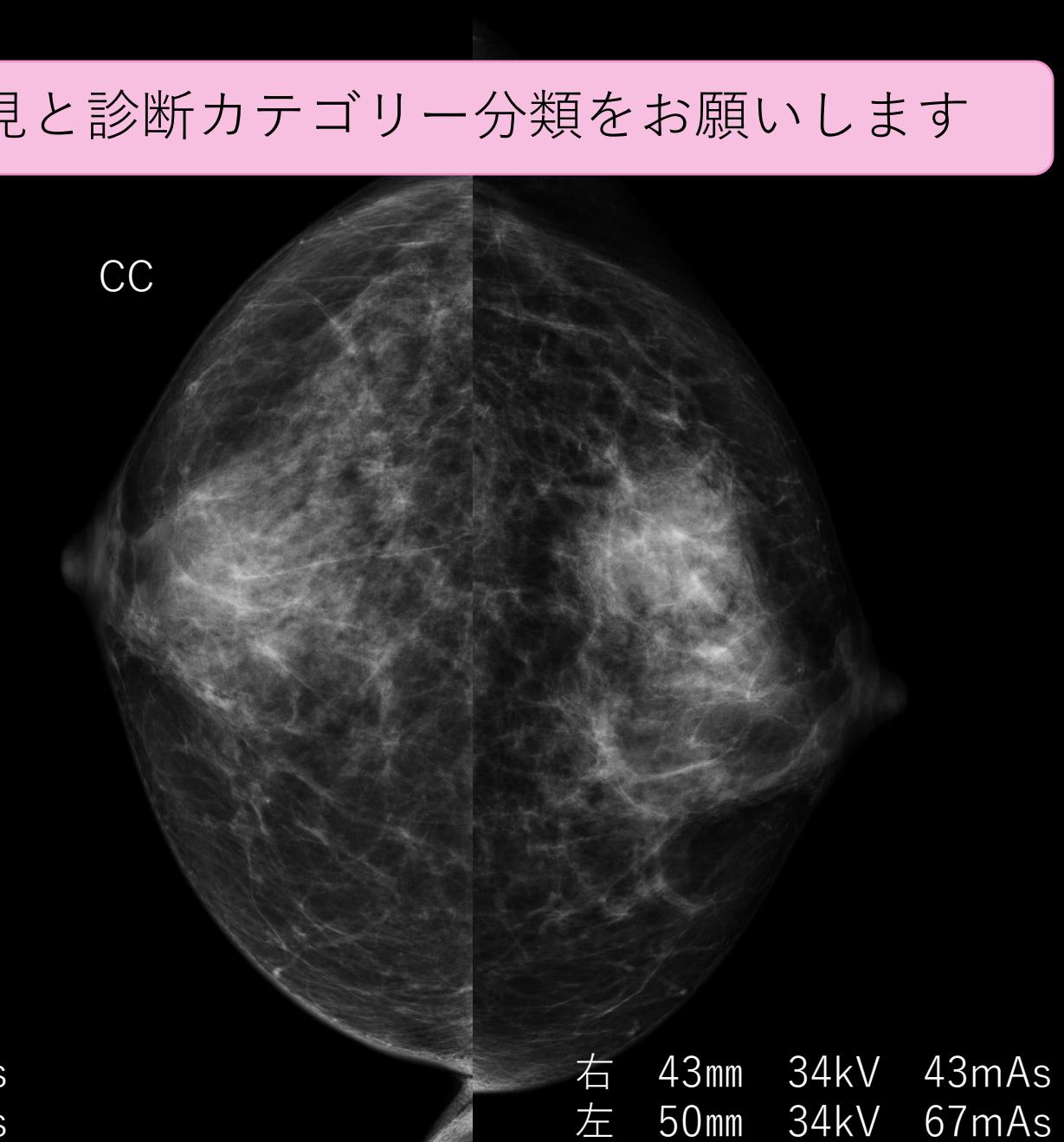
MLO



所見と診断カテゴリー分類をお願いします

CC

右 43mm 34kV 43mAs
左 50mm 34kV 67mAs



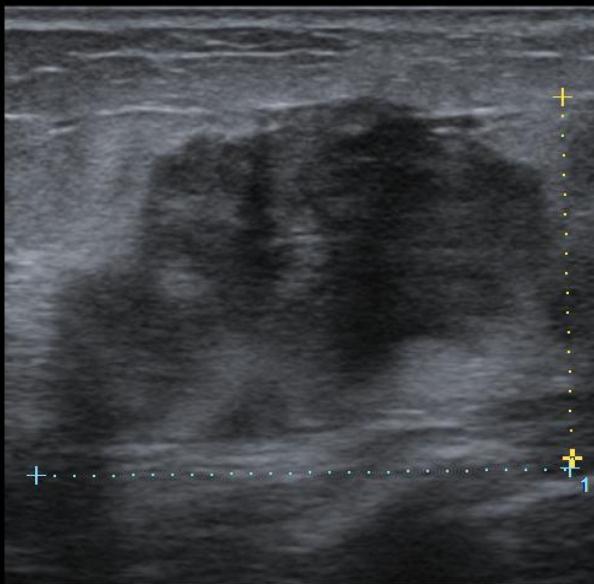
所見と診断カテゴリー分類をお願いします

MLO 拡大



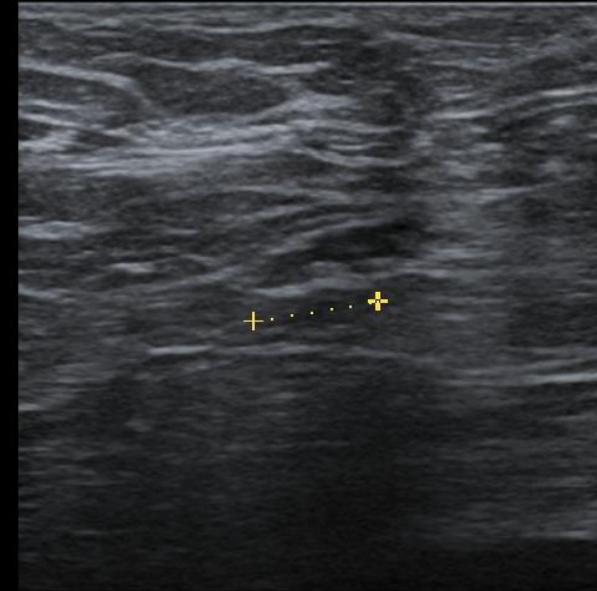
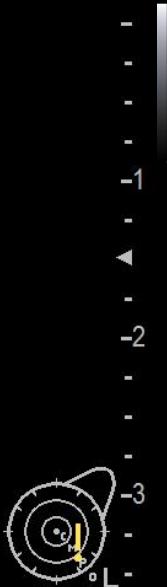
所見と診断カテゴリー分類をお願いします

US



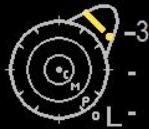
L64 Dist: 34.0mm Dist: 23.0mm
HdT-7.5S R:4.00 BG:63 BD:86

AP:100% 32 FPS 1
F



Breast L64 L64
342/344 HdT-7.5S Dist: 7.9mm
R:4.00 BG:63 BD:86

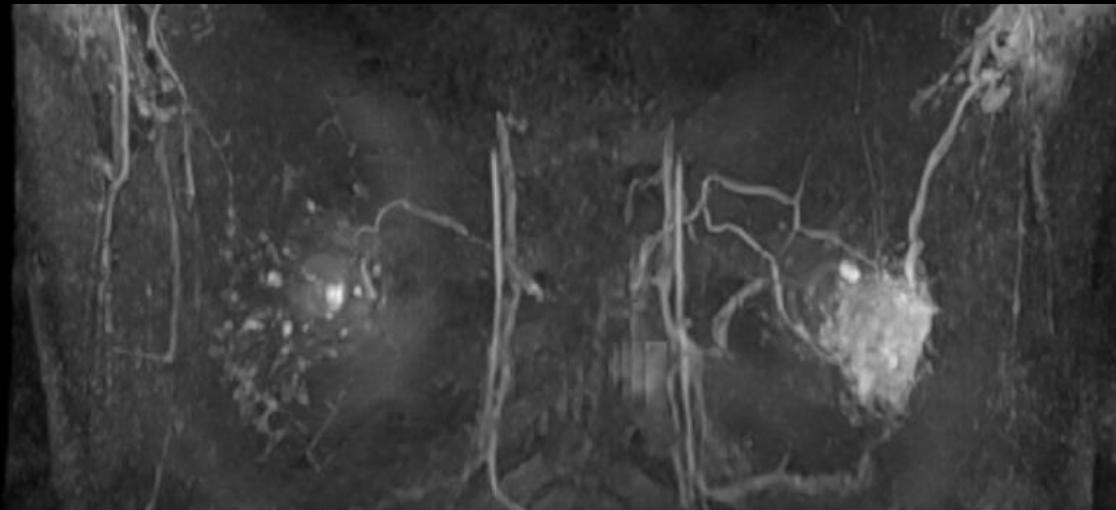
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F



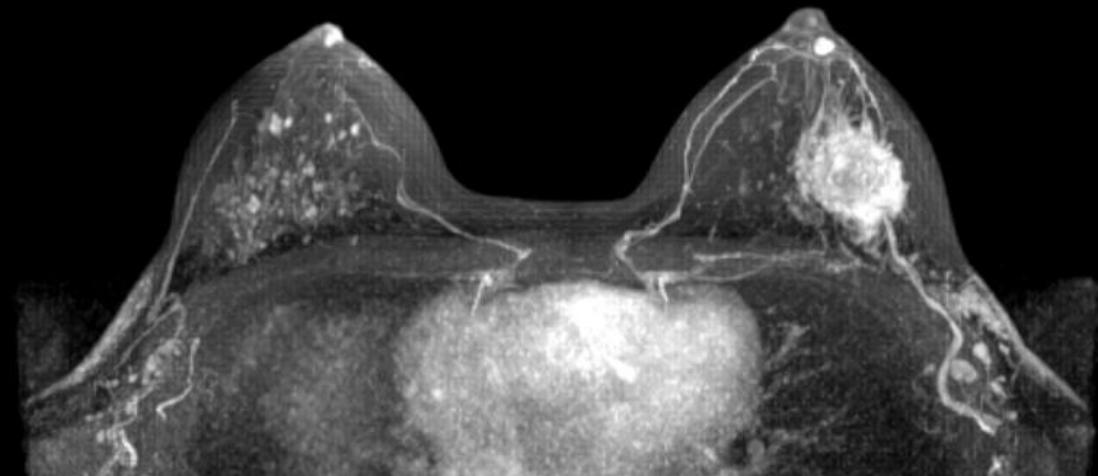
Breast L64
603/604

造影 MRI

BPE の判定と病変の局在評価
をお願いします

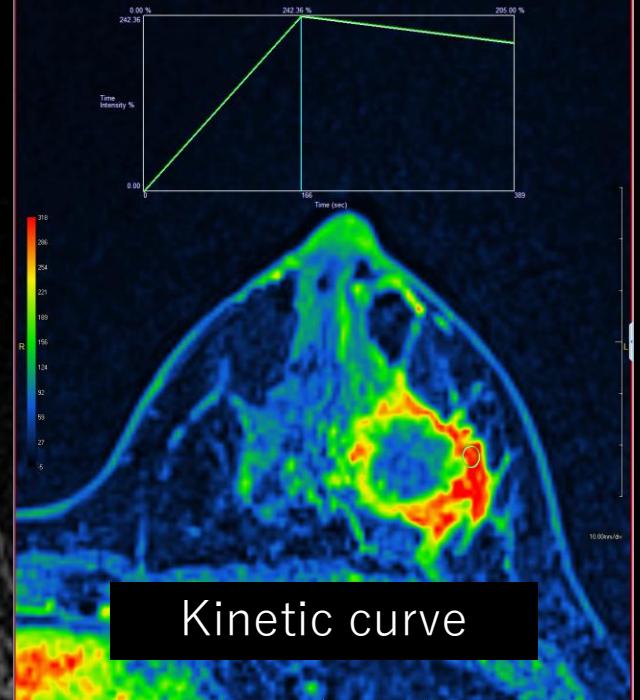
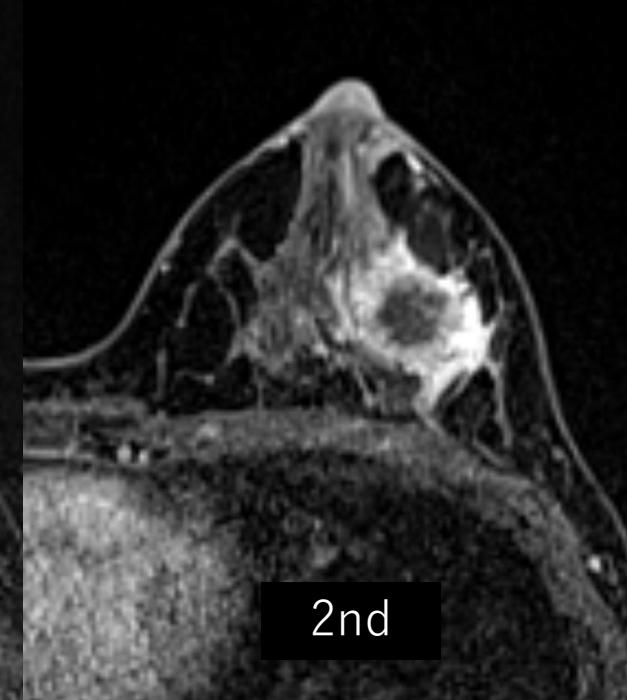
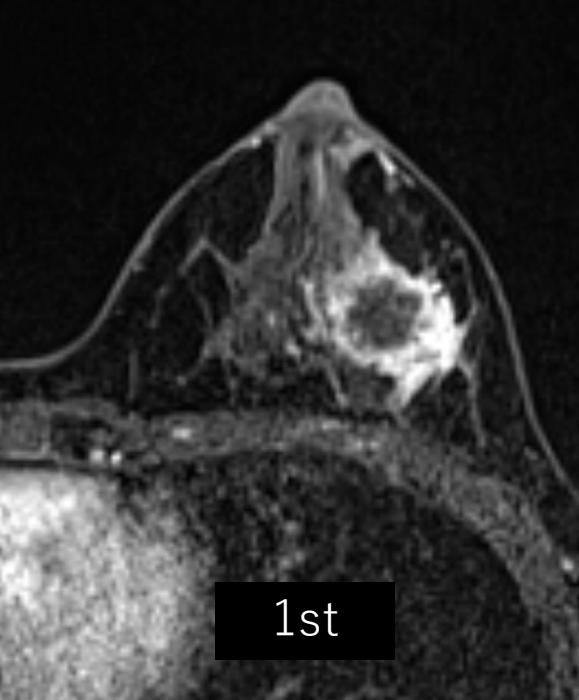
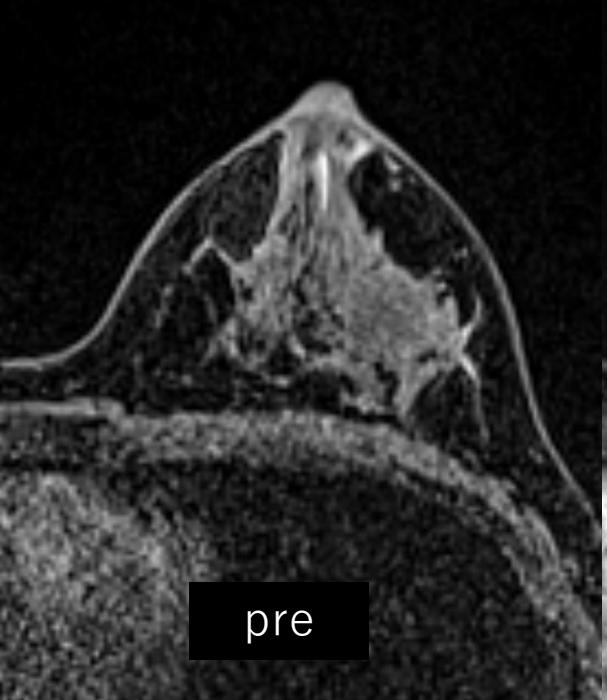
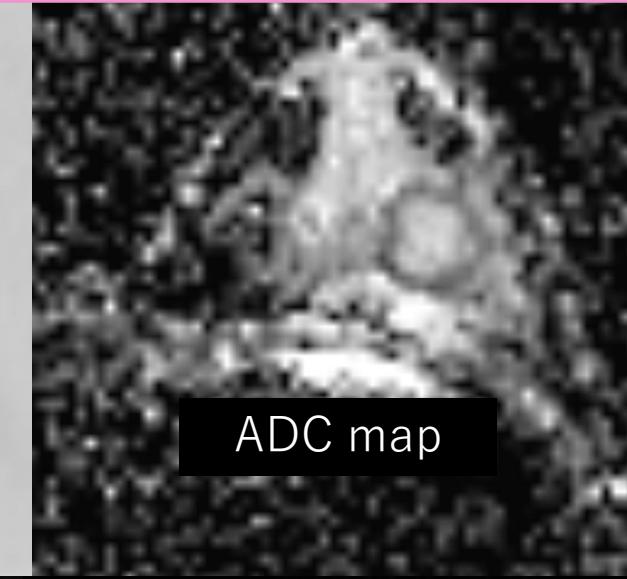
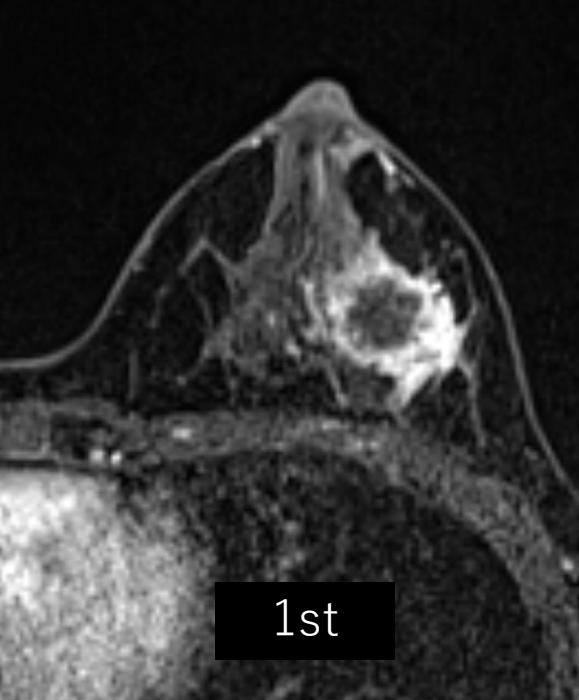
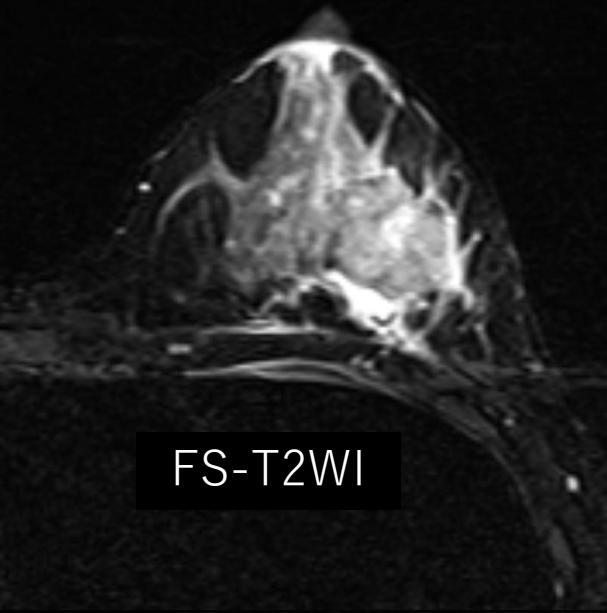


早期相 MIP coronal



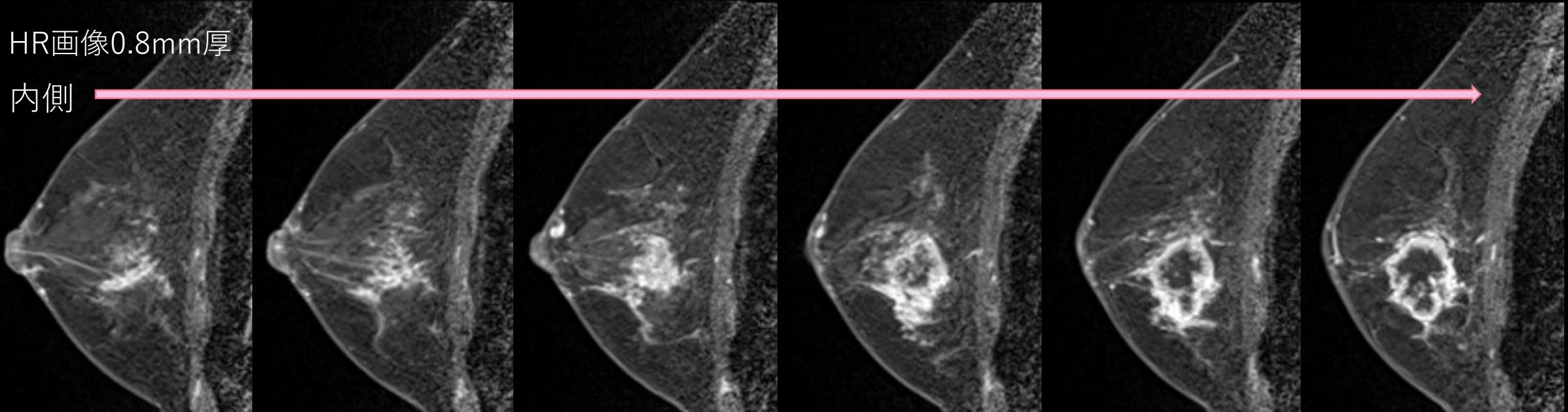
早期相 MIP axial

所見とBIRADSカテゴリー分類をお願いします

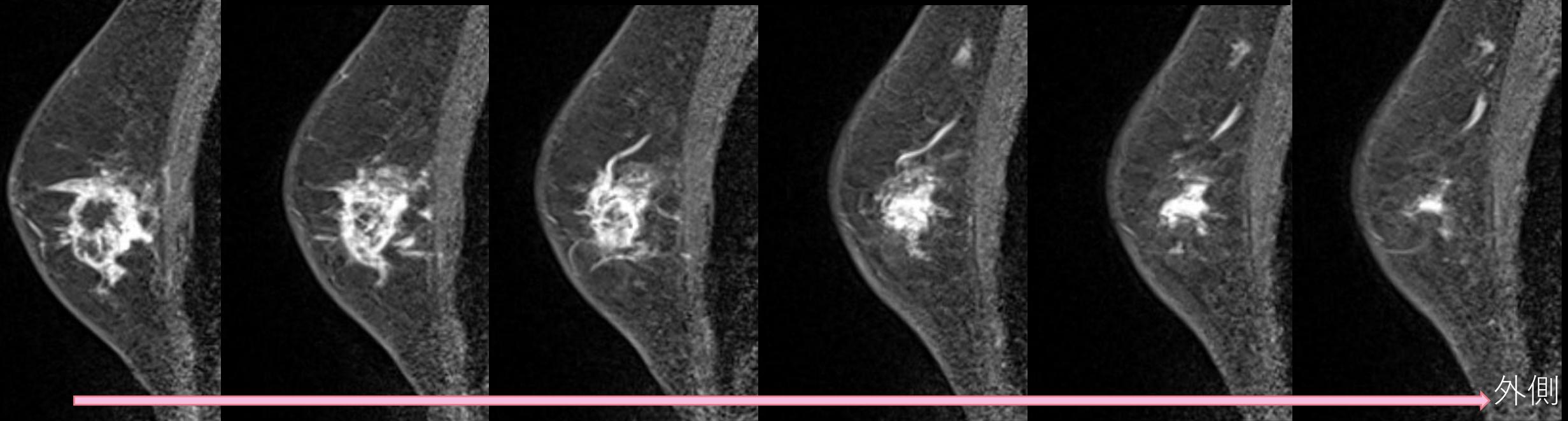


HR画像0.8mm厚

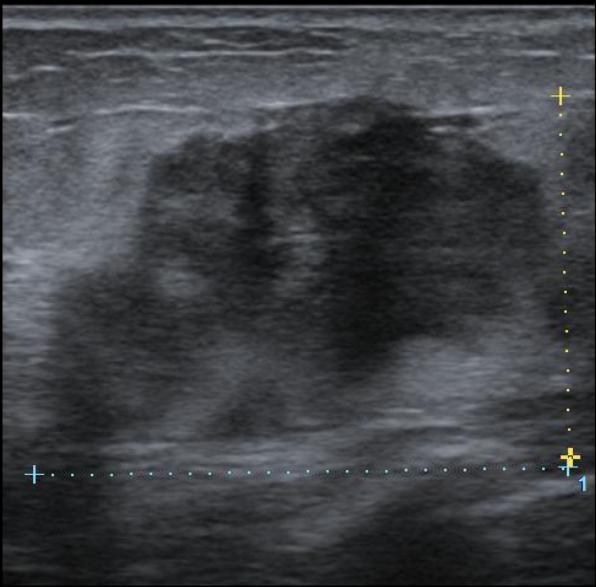
内側



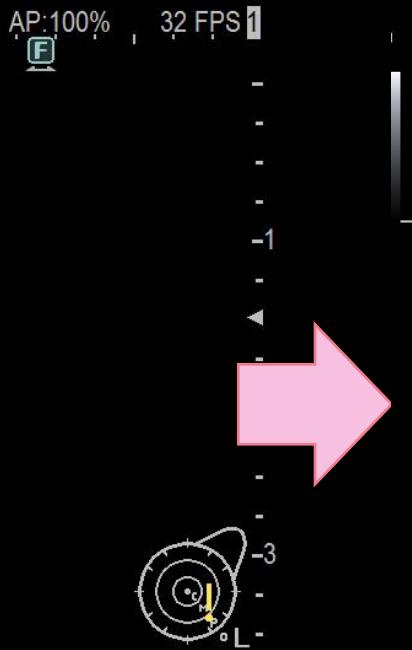
病変の広がりは？乳頭・皮膚・大胸筋浸潤は？



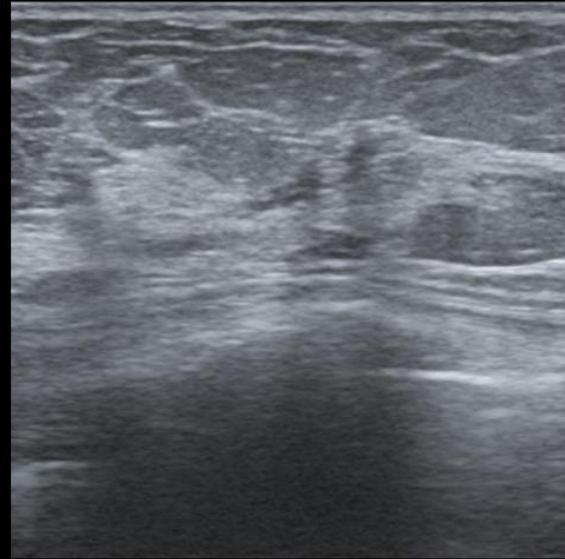
NAC 前



L64 1Dist: 34.0mm +Dist: 23.0mm
HdT-7.5S R:4.00 BG:63 BD:86



NAC 後



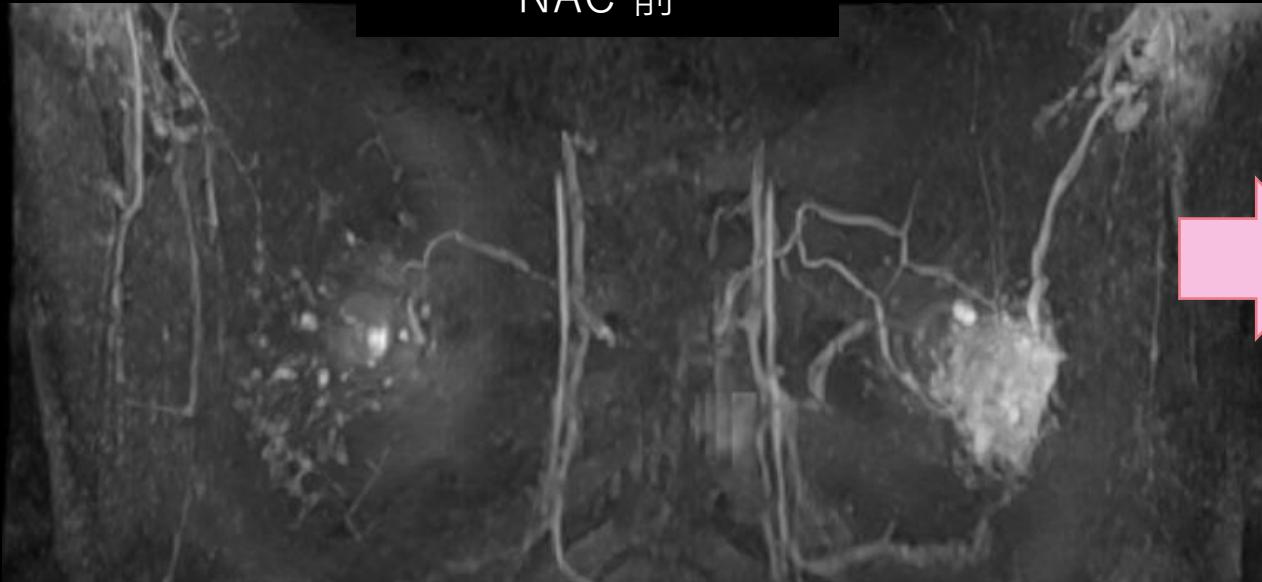
L64
Breast L64
342/344
HdT-7.5S R:4.00 BG:63 BD:86



Breast L64
101/102

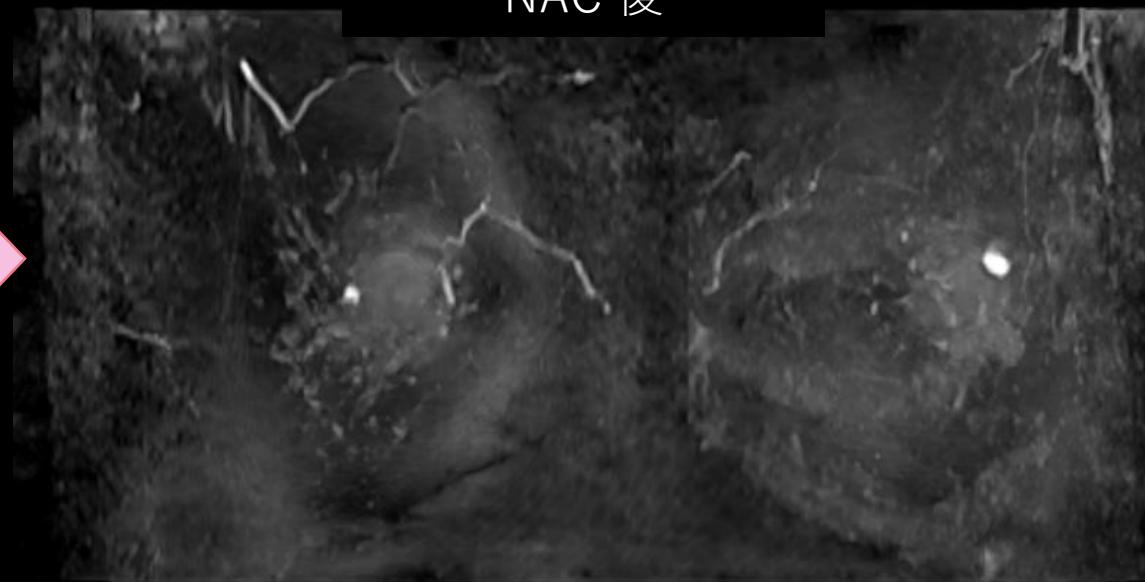
治療効果判定をお願いします

NAC 前



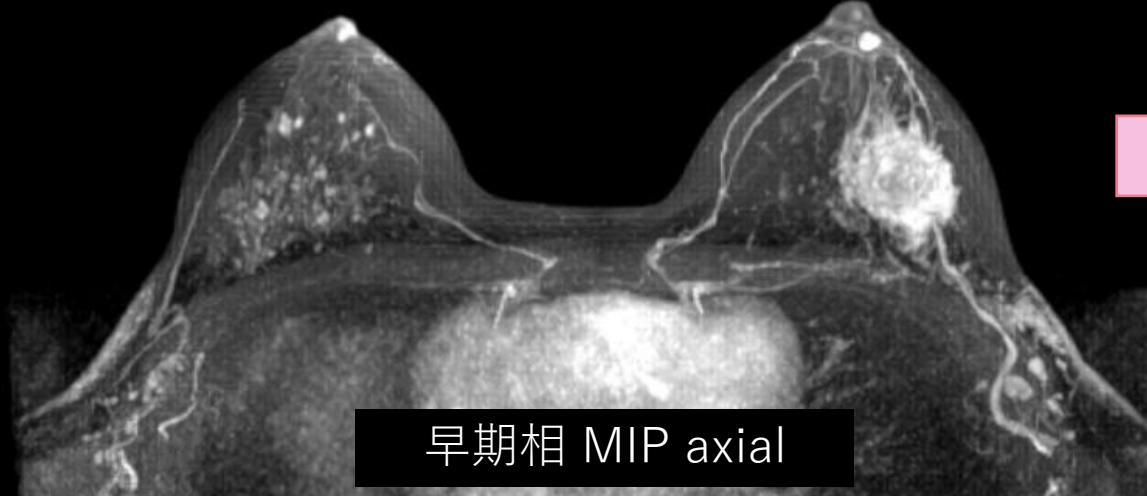
早期相 MIP coronal

NAC 後

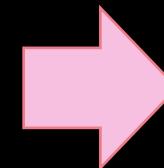


早期相 MIP coronal

残存病変はあるでしょうか？



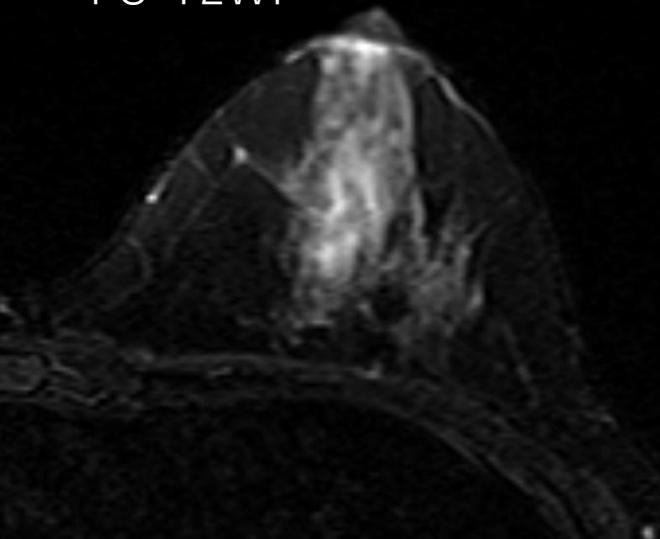
早期相 MIP axial



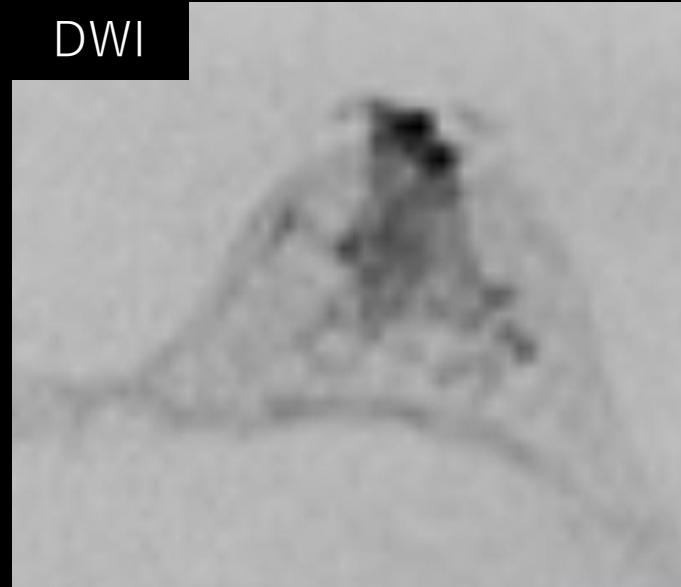
早期相 MIP axial

治療効果判定をお願いします

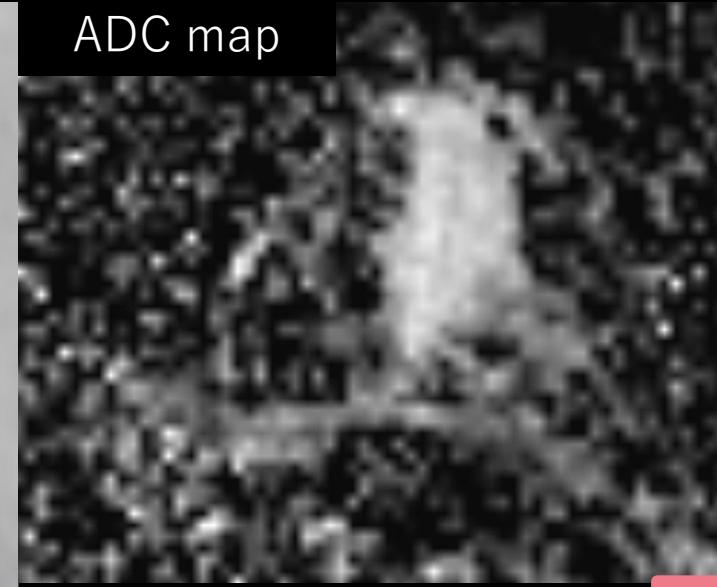
FS-T2WI



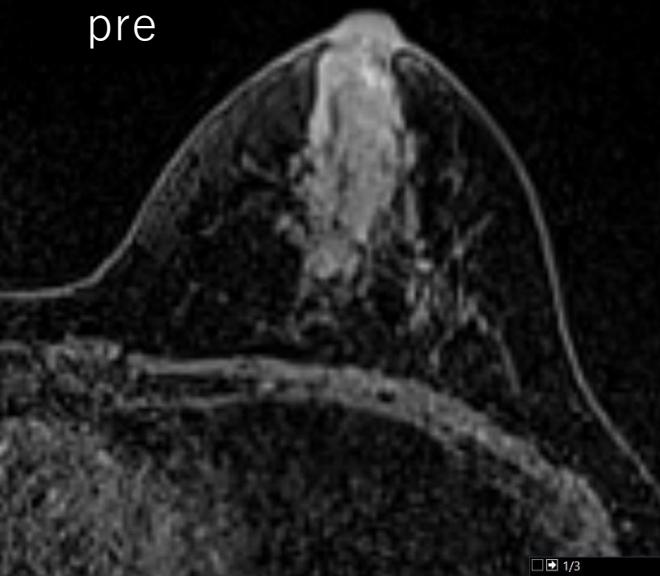
DWI



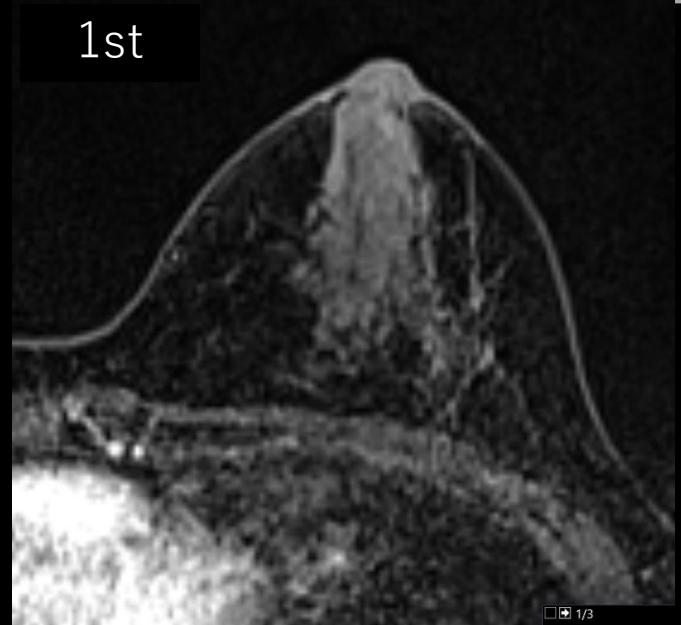
ADC map



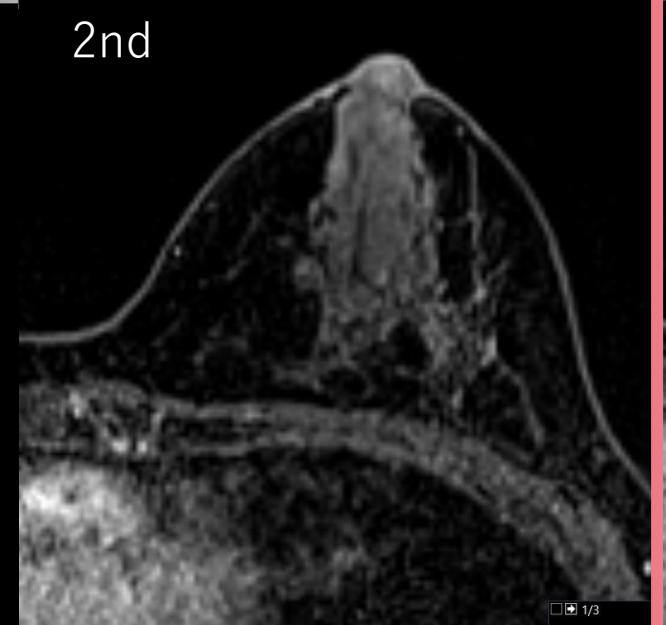
pre



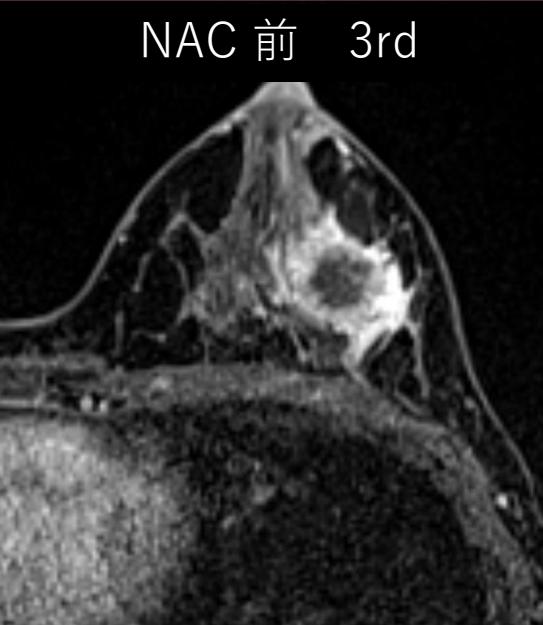
1st



2nd

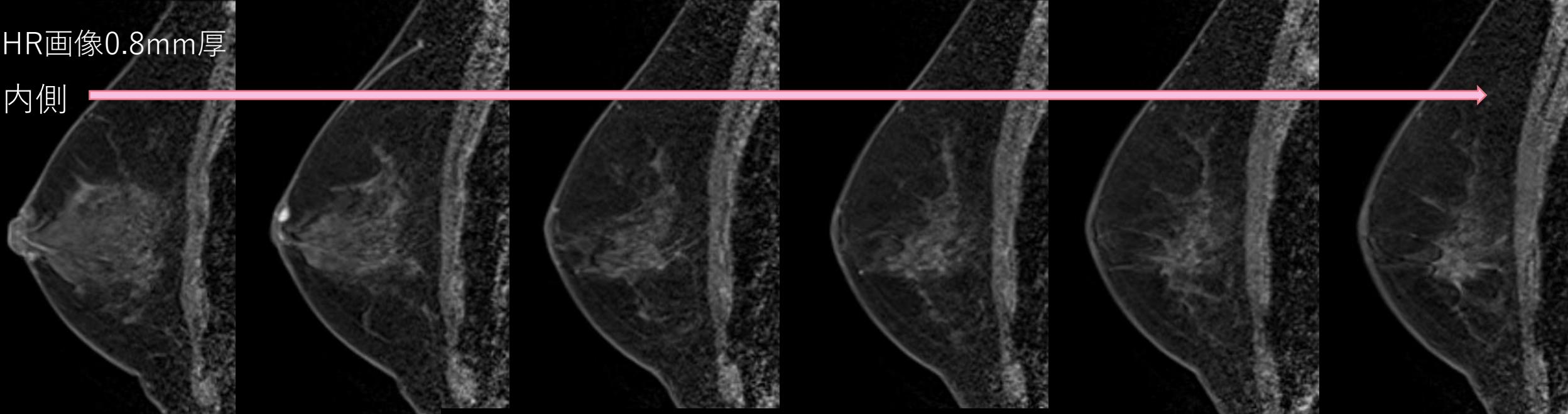


NAC 前 3rd

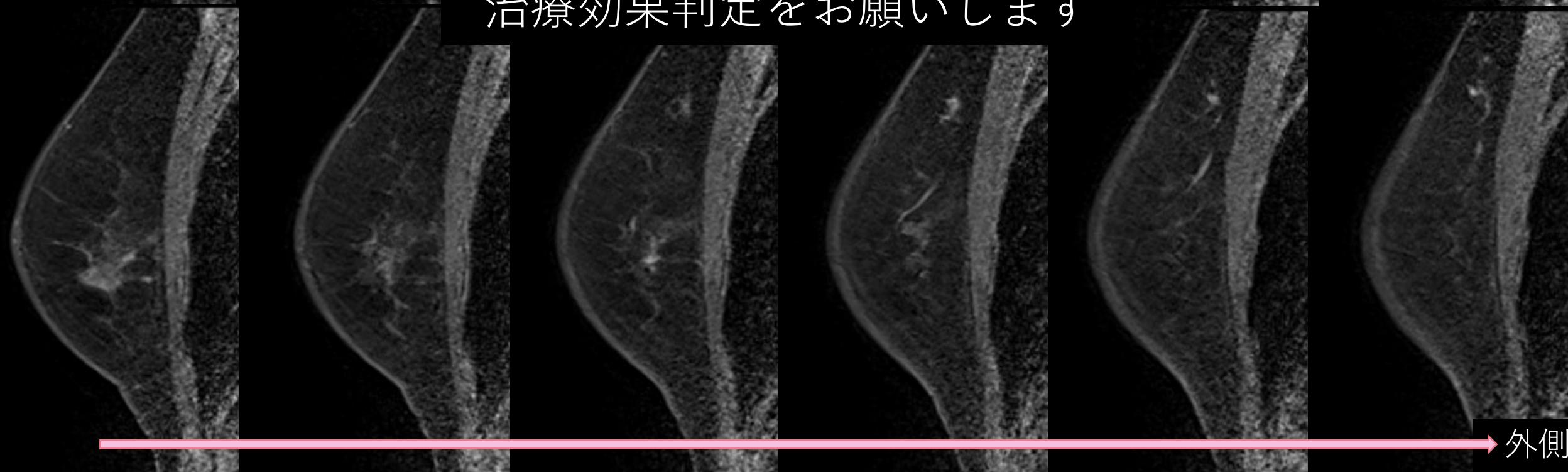


HR画像0.8mm厚

内側



治療効果判定をお願いします



外側