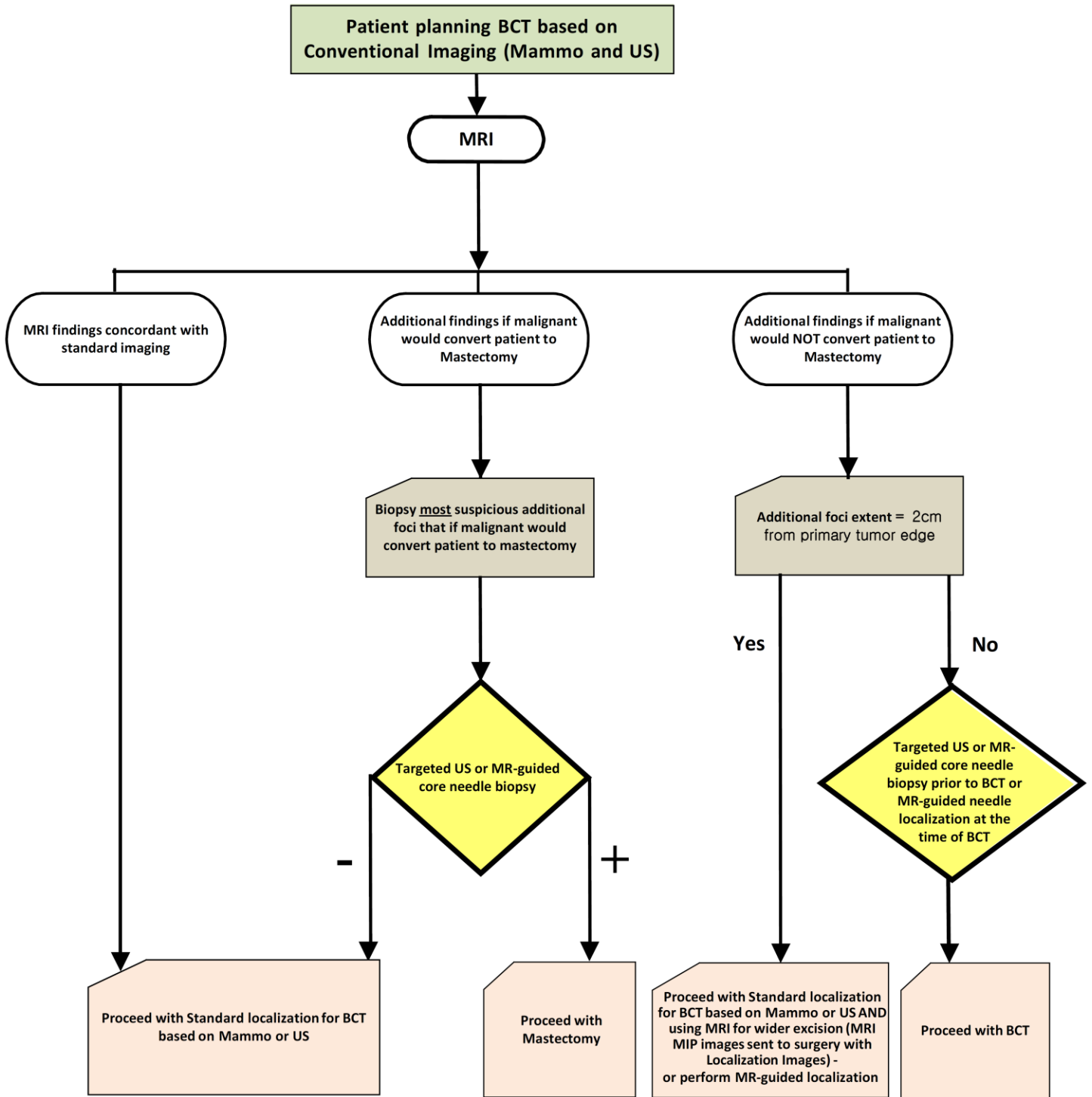# Supplementary Online Content

Lehman CD, Gatsonis C, Romanoff J, et al. Association of magnetic resonance imaging and a 12-gene expression assay with breast ductal carcinoma in situ treatment. *JAMA Oncol.* Published online January 17, 2019. doi:10.1001/jamaoncol.2018.6269

eFigure. MRI Findings Management Flowchart

eTable. Baseline Demographics and Diagnostic Core Needle Biopsy and Mammography Characteristics

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure. MRI Findings Management Flowchart

eTable. Baseline Demographics and Diagnostic Core Needle Biopsy and Mammography Characteristics

	All enrolled (n = 368)	Pure DCIS Pre-operative MRI Final surgery known (n = 339)	Radiotherapy recommendation based on DCIS Score (n = 171)
Age, median (range), years	59 (34, 87)	60 (34, 87)	60 (36, 87)
Race, No. (%)			
African descent	54 (15)	49 (14)	23 (13)
European descent	283 (77)	262 (77)	137 (80)
Other	31 (8)	28 (8)	11 (6)
Ethnicity, No. (%)			
Hispanic/Latino	21 (6)	21 (6)	8 (5)
Not Hispanic/Latino	328 (89)	302 (89)	155 (91)
Not reported/Unknown	19 (5)	16 (5)	8 (5)
Insurance status, No. (%)			
Private insurance	281 (76)	261 (77)	125 (73)
Medicare/Other government insurance	68 (18)	62 (18)	41 (24)
Medicaid/Uninsured	19 (5)	16 (5)	5 (3)
DCIS grade, No. (%)			
Low nuclear	62 (17)	54 (16)	23 (13)
Intermediate nuclear	149 (40)	136 (40)	72 (42)
High nuclear[a]	144 (39)	137 (40)	72 (42)
Not reported/Unknown	13 (4)	12 (4)	4 (2)
ER status, No. (%)			
Positive	282 (77)	258 (76)	137 (80)
Negative	48 (13)	47 (14)	19 (11)
Unknown	38 (10)	34 (10)	15 (9)
PR status, No. (%)			
Positive	224 (61)	202 (60)	109 (64)
Negative	81 (22)	79 (23)	31 (18)
Unknown	63 (17)	58 (17)	31 (18)
Breast density, No. (%)			
Almost entirely fat (<25% fibroglandular)	10 (3)	8 (2)	5 (3)
Scattered fibroglandular densities (25%-50% fibroglandular)	153 (42)	143 (42)	75 (44)
Heterogeneously dense (51%-75% fibroglandular)	134 (36)	123 (36)	61 (36)
Extremely dense (>75% fibroglandular)	20 (5)	17 (5)	7 (4)
Not reported/Unknown	51 (14)	48 (14)	23 (13)
Longest diameter, median (IQR), mm	11 (6, 20)	11 (6, 19.5)	11 (6, 19)
Lesion type[b], No. (%)			
Calcification(s)	305 (79)	281 (79)	145 (82)
Mass	28 (7)	24 (7)	10 (6)
Asymmetry/Focal asymmetry	21 (5)	19 (5)	5 (3)
Architectural distortion	6 (2)	6 (2)	4 (2)
Other	16 (4)	16 (5)	8 (5)
Not reported/Unknown	9 (2)	8 (2)	4 (2)

Abbreviations: DCIS, ductal carcinoma in situ; ER, estrogen-receptor; IQR, interquartile range; MRI, magnetic resonance imaging; PR, progesterone-receptor.

[a] For one patient the DCIS grade was assessed as "Intermediate to high nuclear". This is counted as High nuclear.

[b] 15/368 patients had multiple lesions reported on the diagnostic mammogram. Thus, the lesion type counts are greater than the number of patients in each column.