## nature research

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## **Reporting Summary**

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see our Editorial Policies and the Editorial Policy Checklist.

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For	all statistical an	nalyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a	Confirmed					
$\boxtimes$	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement					
$\boxtimes$	A stateme	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
$\boxtimes$	The statistical test(s) used AND whether they are one- or two-sided  Only common tests should be described solely by name; describe more complex techniques in the Methods section.					
$\boxtimes$	A description of all covariates tested					
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)					
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.					
	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
	$\square$ Estimates of effect sizes (e.g. Cohen's $d$ , Pearson's $r$ ), indicating how they were calculated					
	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.					
So	ftware an	d code				
Poli	cy information	about availability of computer code				
Da	ata collection	N/A				
Da	ata analysis	Data were analyzed in Stata 14.2 (StataCorp LLC, College Station, TX, USA)				
	,	g custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.				

## Data

Policy information about availability of data

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($
- A description of any restrictions on data availability

The data generated and analyzed during this study are described in an Excel spreadsheet named ILC database 6.28.19.xls. The data supporting all three tables in this manuscript are not publicly available to protect patient privacy, but can be accessed from the corresponding author upon reasonable request, as described in the data record above. Data will be made available to authorized researchers who have obtained institutional review board (IRB) approval from their own institution and from the UCSF IRB.

Field-spe	cific	c reporting		
Please select the or	ne below	v that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.		
∠ Life sciences		Behavioural & social sciences Ecological, evolutionary & environmental sciences		
For a reference copy of t	he docume	ent with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>		
Life scien	ices	study design		
All studies must dis	close on	n these points even when the disclosure is negative.		
Sample size	Fixed	Fixed		
Data exclusions	We excl	We excluded patients with de novo stage 4 disease and those with less than 6 months of follow-up time.		
Replication	Not app	Not applicable		
Randomization	Not app	olicable		
Blinding	Not applicable			
We require information	on from a	er specific materials, systems and methods authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, evant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.		
Materials & exp	perime	ental systems Methods		
n/a Involved in the	e study	n/a Involved in the study		
Antibodies		ChIP-seq		
Eukaryotic	cell lines			
Animals and other organisms				
Human research participants   Clinical data				
Dual use re	search of	f concern		
,				
Clinical data				
Policy information a		inical studies with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.		
·	Clinical trial registration N/A - not a clinical trial			
Study protocol		N/A - not a clinical trial		

We conducted a retrospective analysis of a cohort of women who received neoadjuvant therapy for invasive lobular carcinoma at the

Sensitivity, specificity, negative predictive value, positive predictive value, and overall accuracy of breast MRI

University of California, San Francisco (UCSF), between 2006 and 2019.

Data collection

Outcomes