



# Microcalcificazioni mammarie: classificazione, management e casi clinici.

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- Calcificazioni mammarie: depositi di sali di calcio, radiopachi, reperto rinvenuto in circa 85% delle MX
- La maggior parte sono reperti benigni, MA possono essere l'unico segno visibile di una neoplasia
- Circa il 95% dei DCIS è scoperto in fase pre clinica con riscontro di microcalcificazioni
- Le microcalcificazioni si vedono solo con la MX!



Diagnosi precoce

# BI-RADS

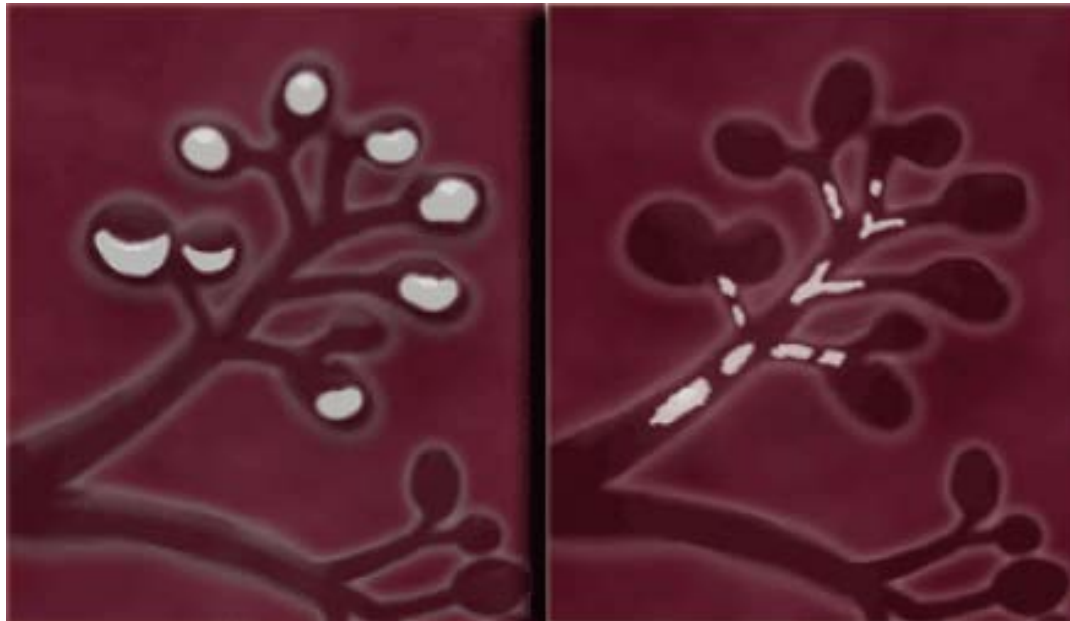


Final Assessment Categories			
	Category	Management	Likelihood of cancer
0	Need additional imaging or prior examinations	Recall for additional imaging and/or await prior examinations	n/a
1	Negative	Routine screening	Essentially 0%
2	Benign	Routine screening	Essentially 0%
3	Probably Benign	Short interval-follow-up (6 month) or continued	>0 % but ≤ 2%
4	Suspicious	Tissue diagnosis	4a. low suspicion for malignancy (>2% to ≤ 10%) 4b. moderate suspicion for malignancy (>10% to ≤ 50%) 4c. high suspicion for malignancy (>50% to <95%)
5	Highly suggestive of malignancy	Tissue diagnosis	≥95%
6	Known biopsy-proven	Surgical excision when clinical appropriate	n/a



- Valutare **morfologia** (dimensioni, numero, forma e densità), **distribuzione** (sparse o in cluster) e **cambiamenti nel tempo**.
- *Dimensioni: le calcificazioni associate a neoplasia sono di solito  $<0.5\text{mm}$ .*

# 1) MORFOLOGIA

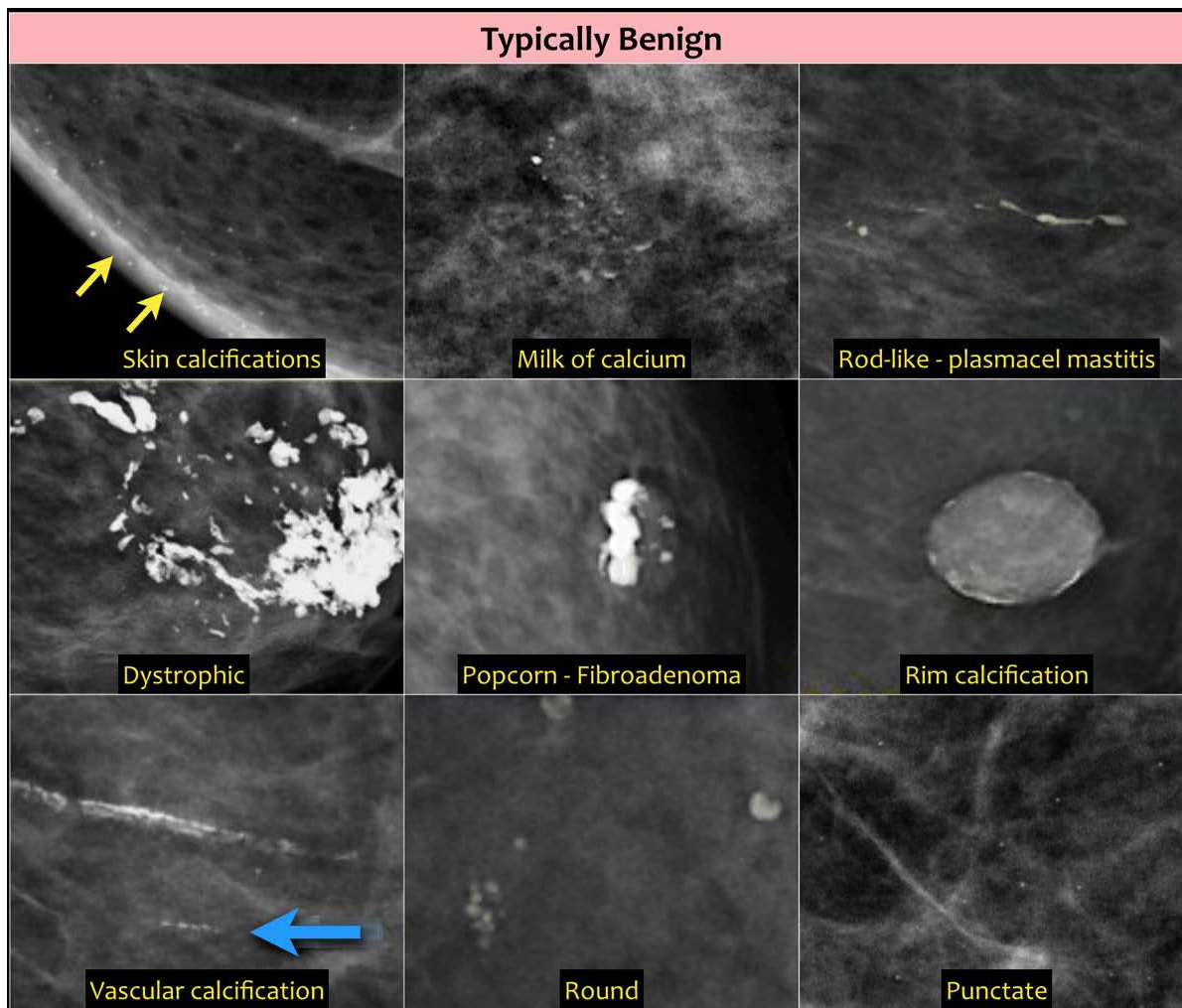


Lobulari: puntiformi,  
rotonde: freq. benigne



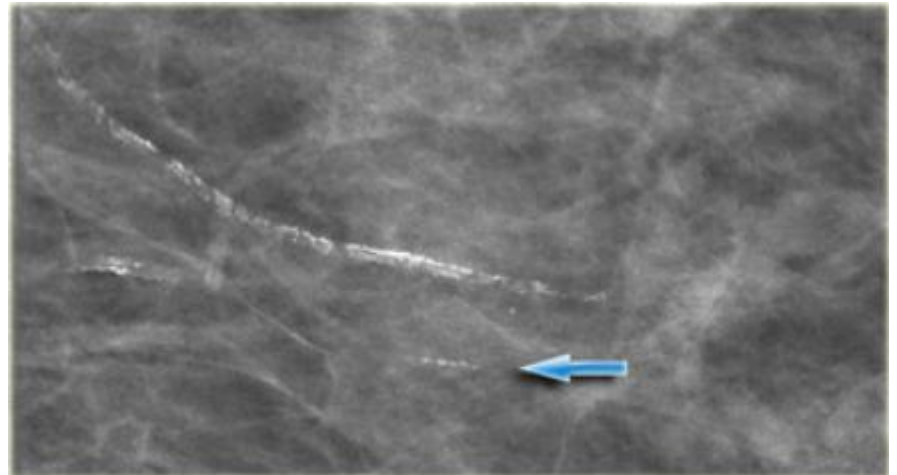
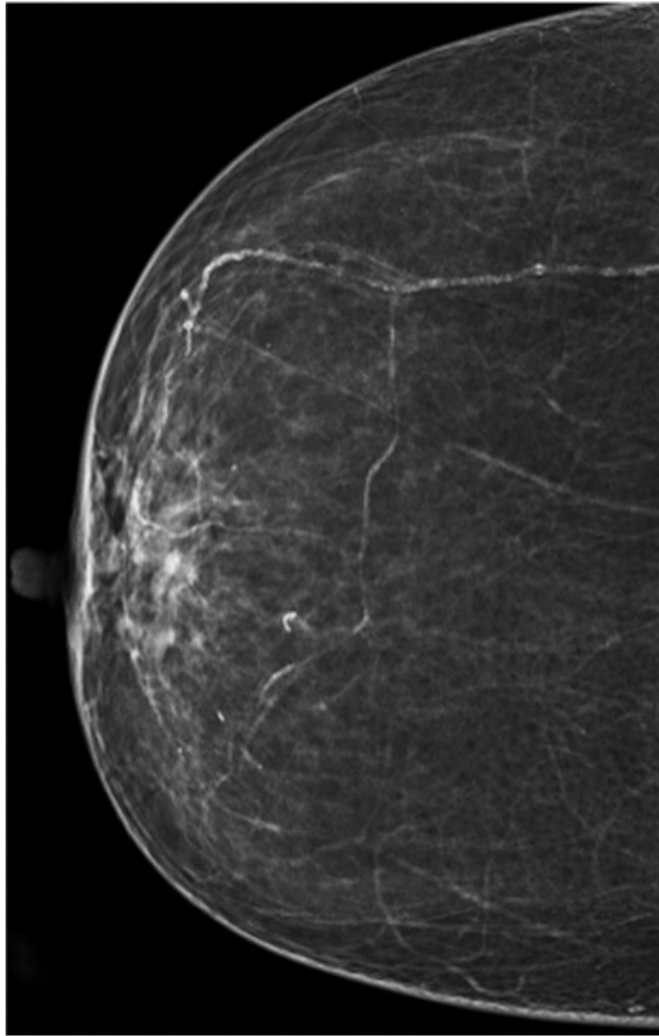
Intraduttali: pleomorfe,  
lineari, ramificate: sospette

# BENIGNE

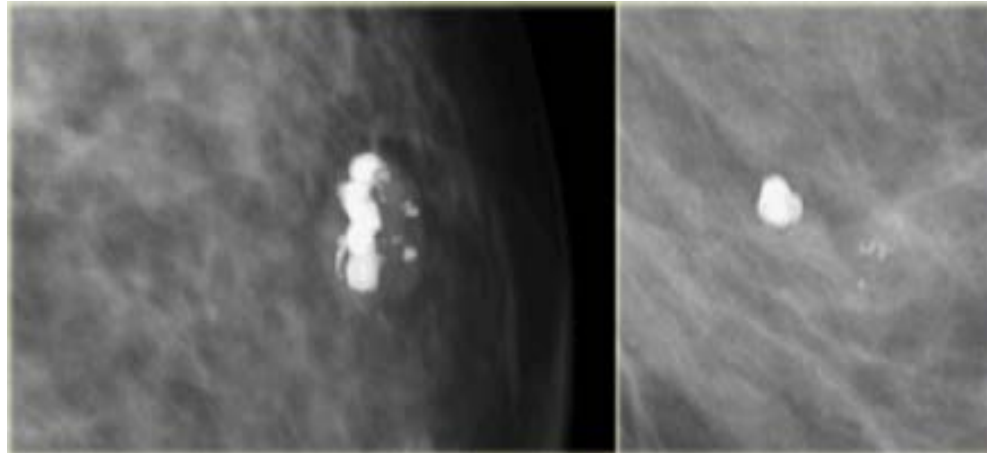




# BENIGNE: VASCOLARI

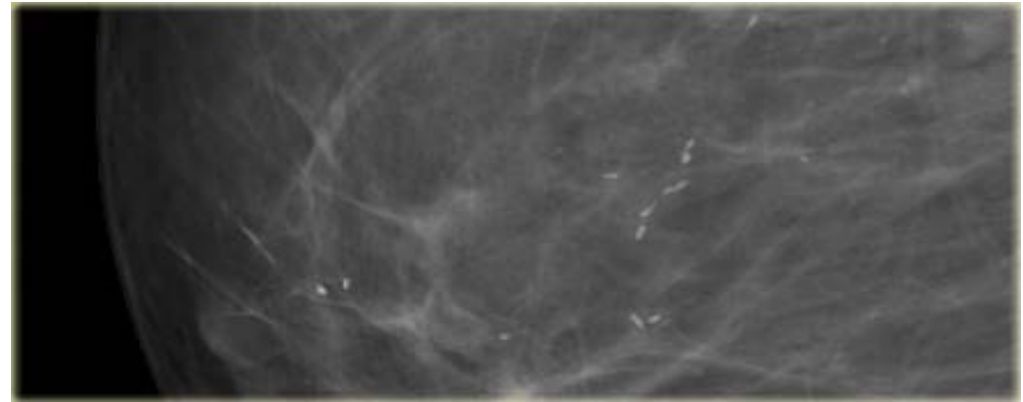


# BENIGNE: POP-CORN



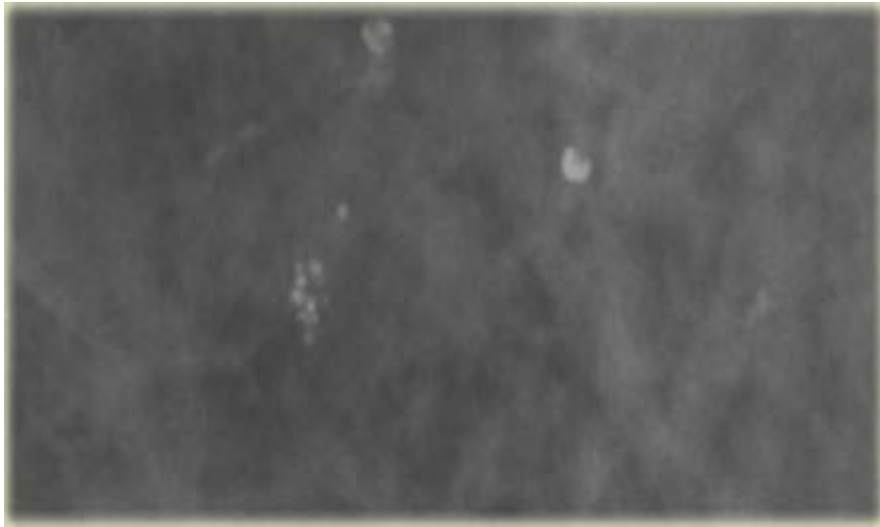


# BENIGNE: LARGE ROD-LIKE



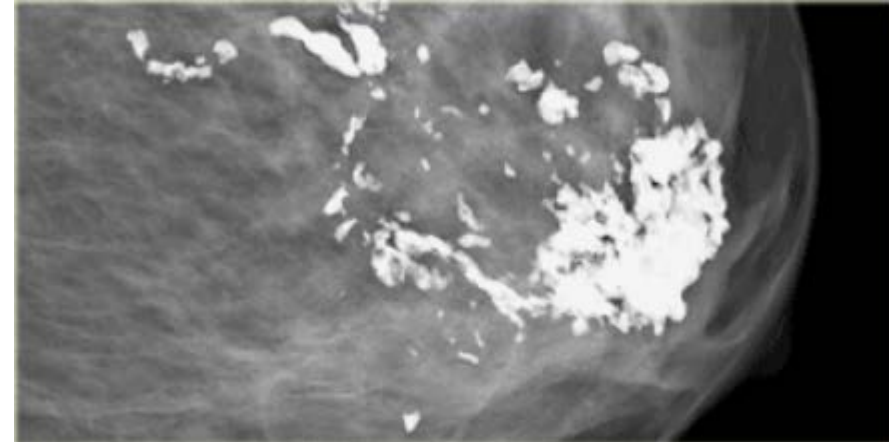
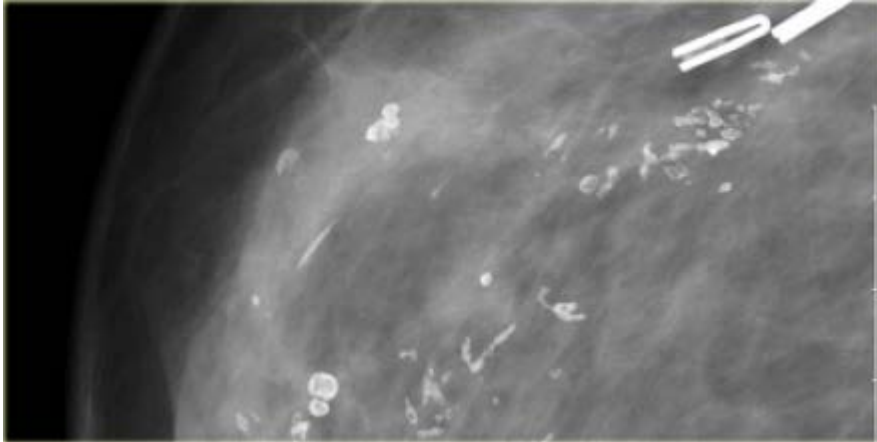
- Si formano nel contesto di dotti ectasici
- Spesso bilaterali, DM>1mm, donne >60 aa

# BENIGNE: ROTONDE E PUNTIFORMI



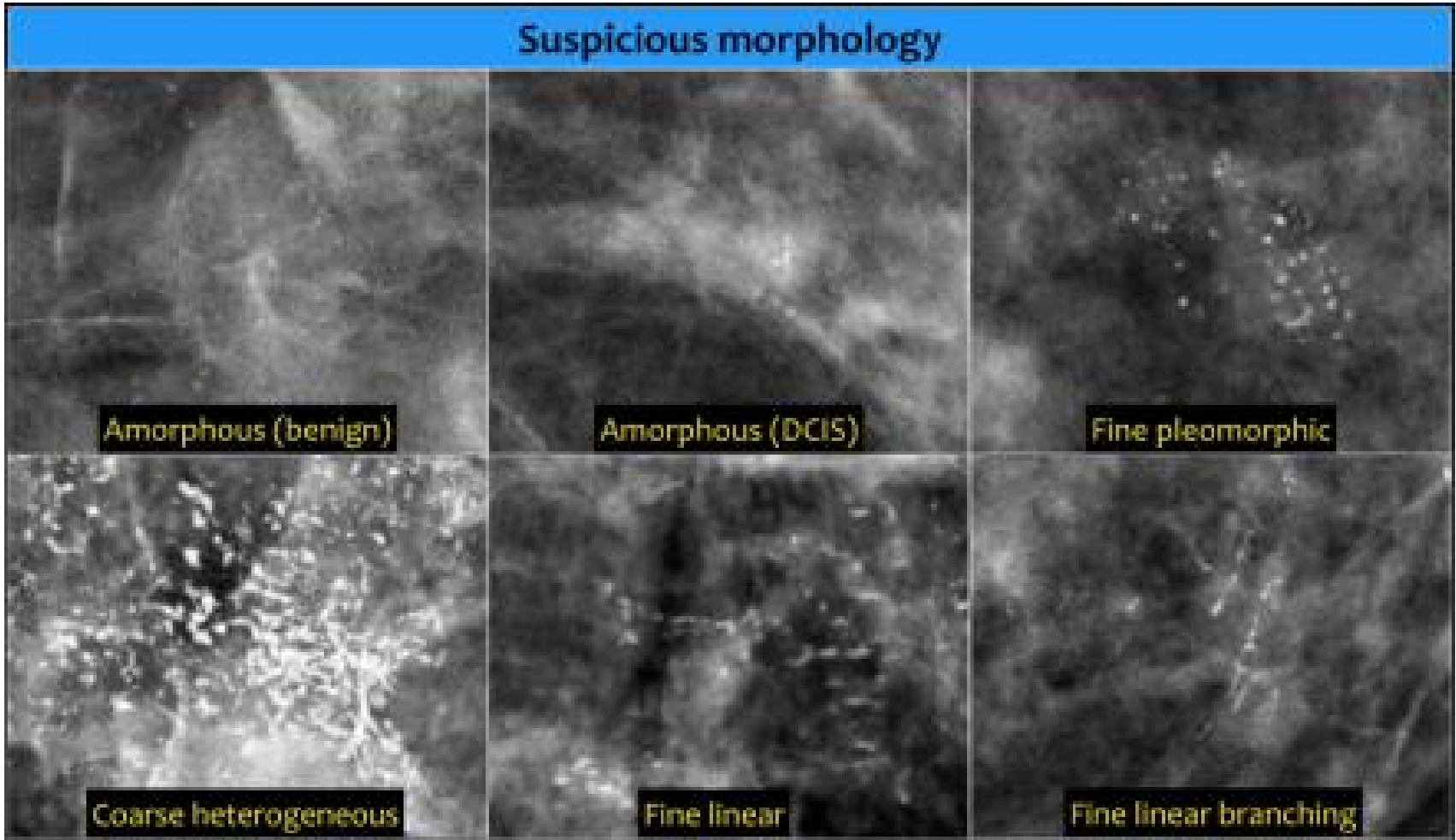
- Acinari, 0,5-1mm
- Adenosi, malattia fibro-cistica

# BENIGNE: DISTROFICHE



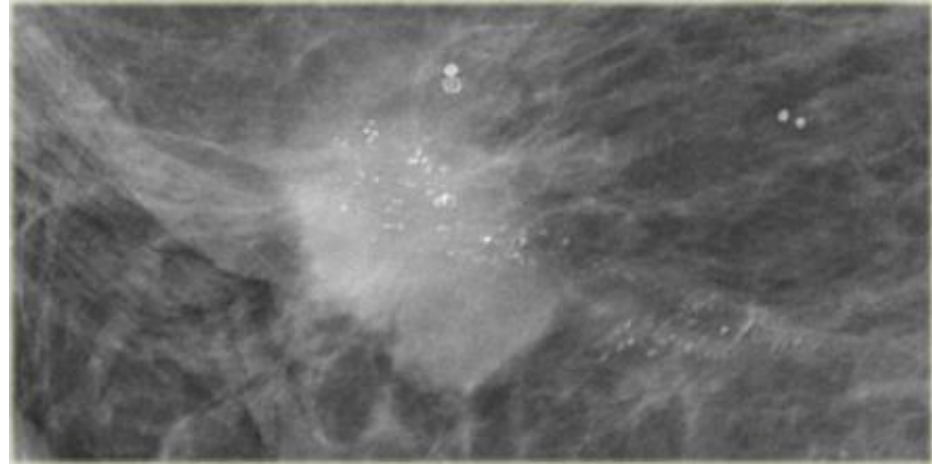
- Esiti di RT (steatonecrosi). DD recidiva

# MORFOLOGIA: SOSPETTE

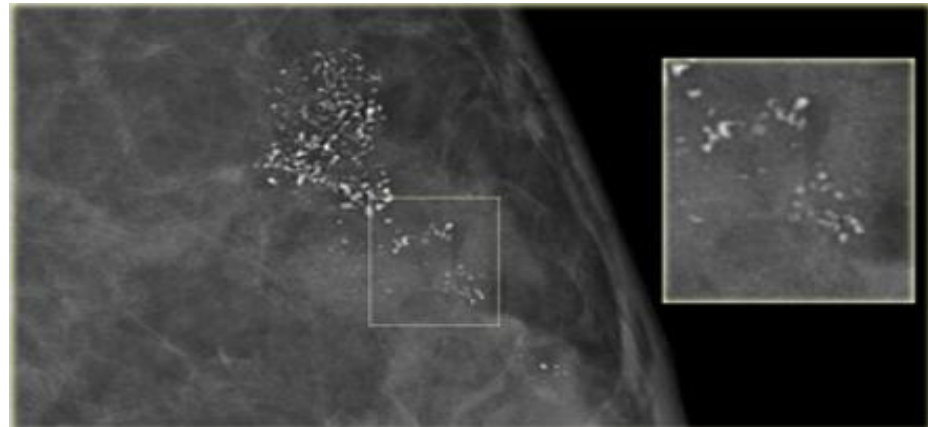




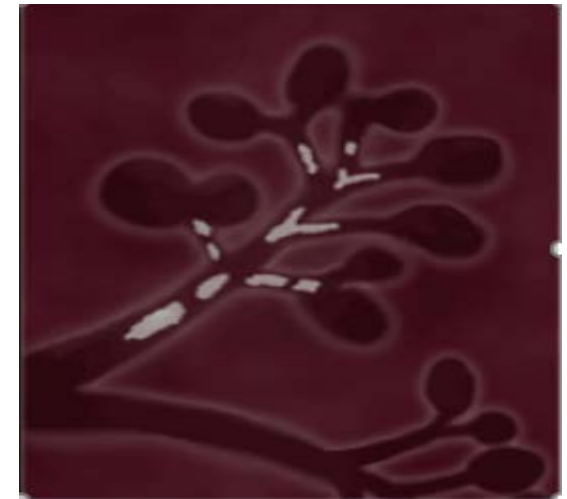
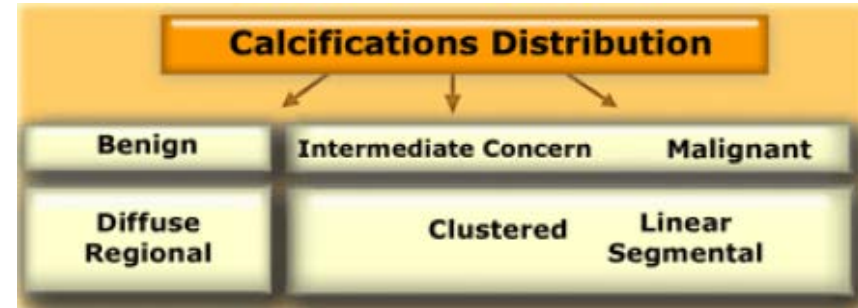
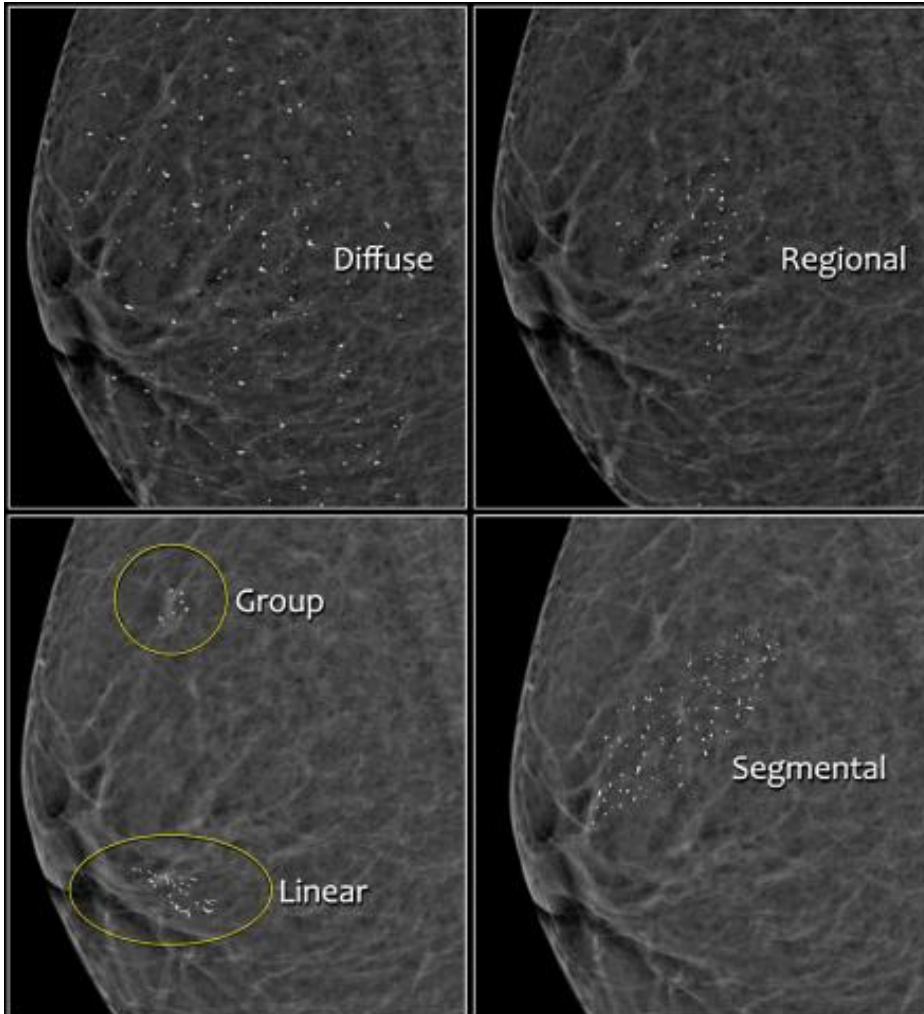
FINI  
PLEOMORFE



FINI LINEARI



# 2) DISTRIBUZIONE





### 3) CAMBIAMENTI NEL TEMPO



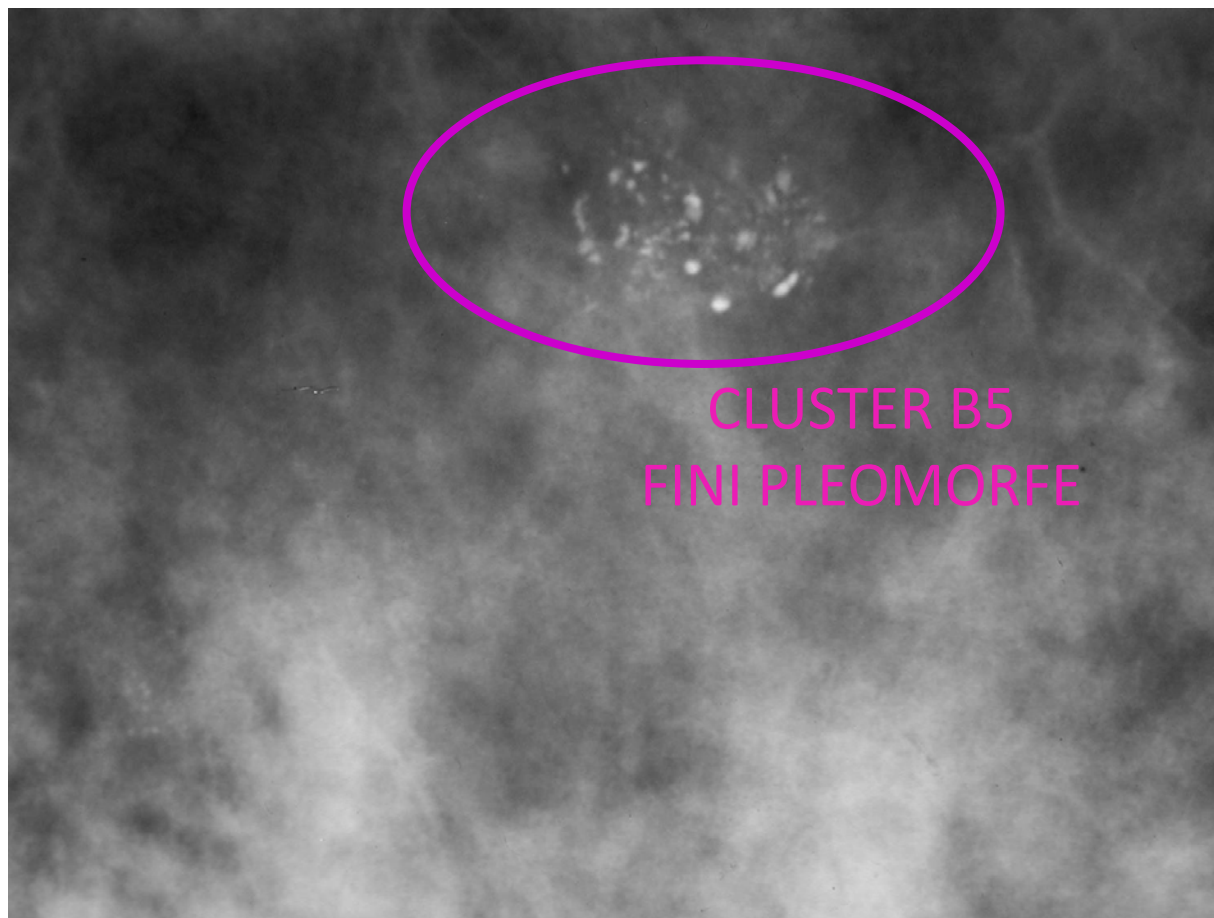
- La stabilità nel tempo di micro sospette non permette comunque di escluderne la malignità
- 25% di pazienti con patologia maligna avevano micro stabili in un periodo di follow-up di 8-63 mo



# BI-RADS



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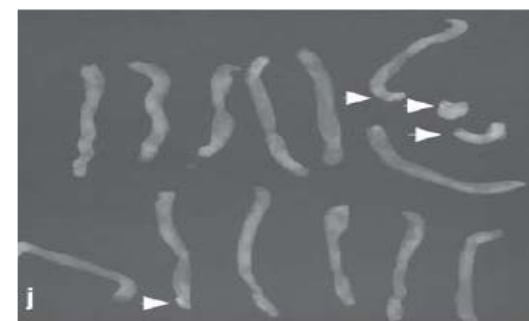
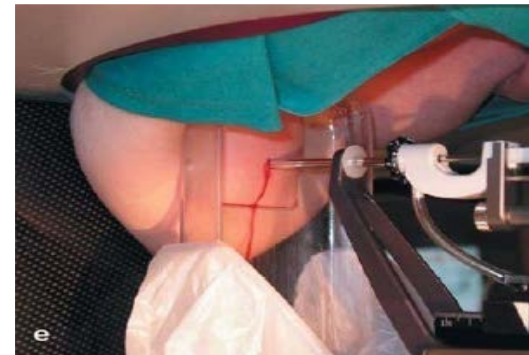
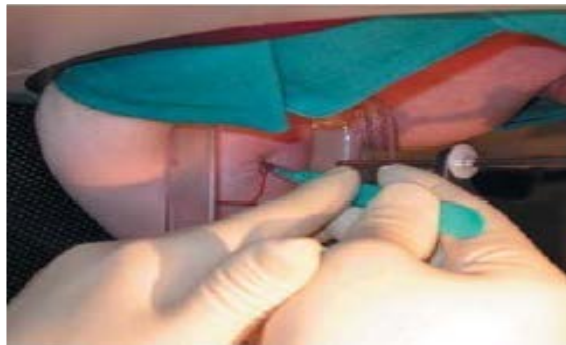
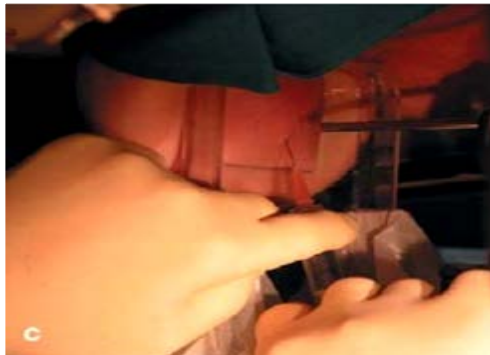
# VABB GUIDA STEREOTASSICA



Mammotome Mammotest™



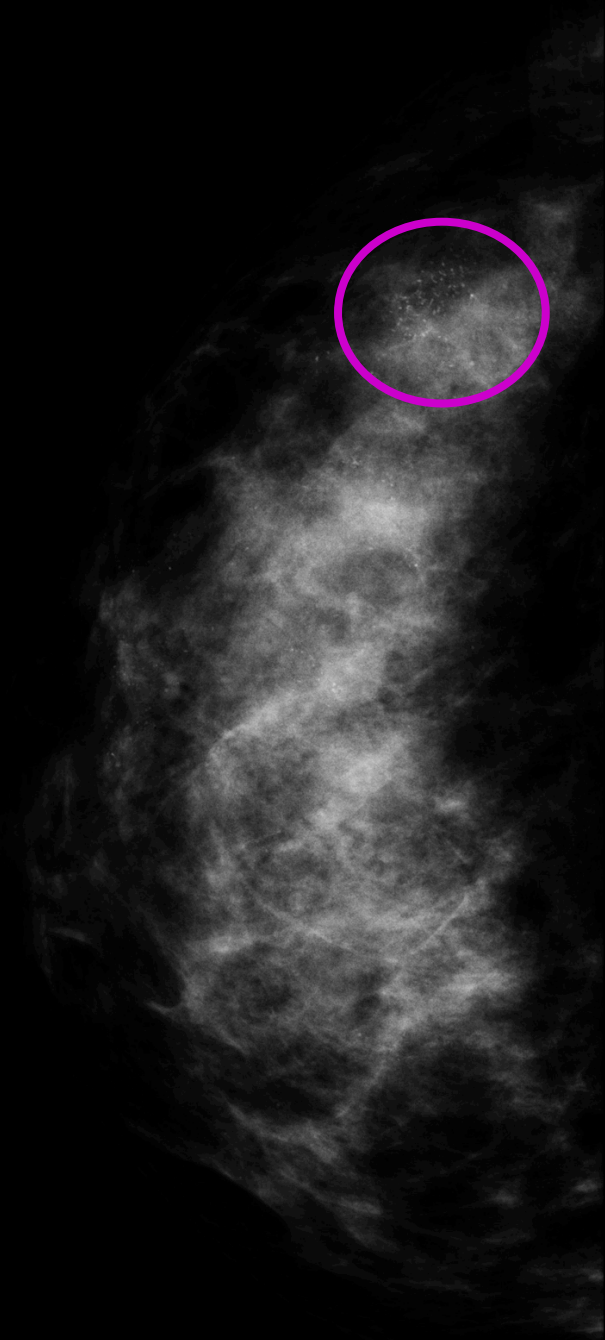
# VABB STEREOTASSICA



# CASO 1

DONNA, 47 ANNI

DummyPatName!  
01/01/1980  
DummyPatID!  
SESSO: F  
Zoom: 1.4, NZF: 0.0  
Se: 9865  
Im: 1/2  
Modalità non diagnostica



18/06/2019

11:39:24

KV: 30.0

mAs: 143.0

15249

2310

MA: 62.0

0.02654

15.249

W: 496

C: 2480



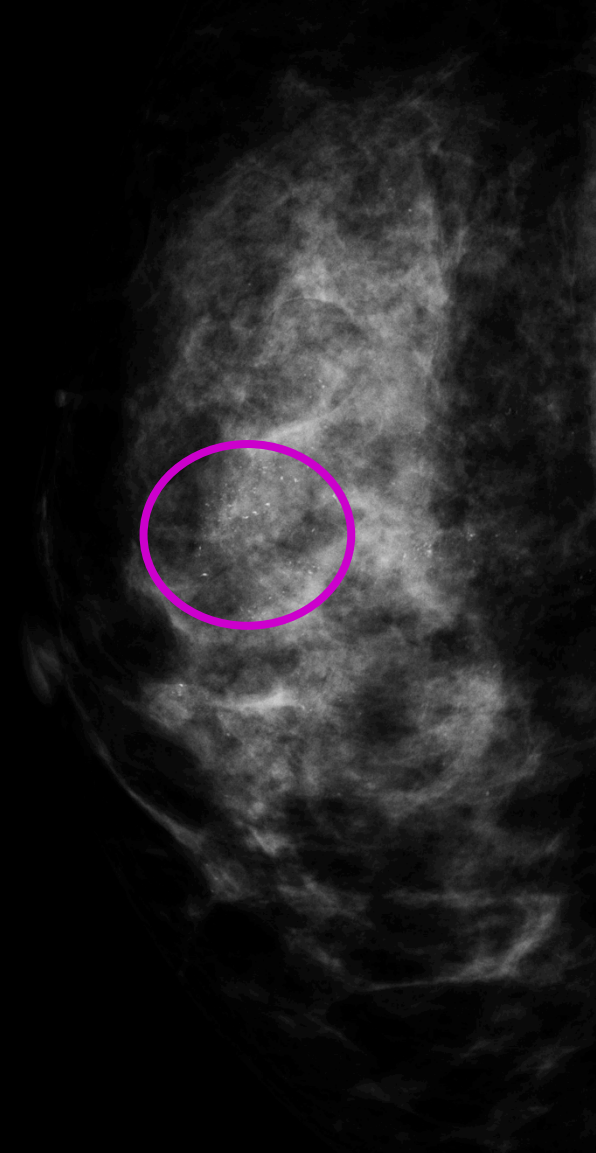
DummyPatName:  
01/01/1960  
DummyPatID:  
SESSO: F  
Zoom: 1.3, NZF: 0.0  
Se: 9865  
Im: 2/2  
Modalità non diagnostica

18/06/2019

11:39:24

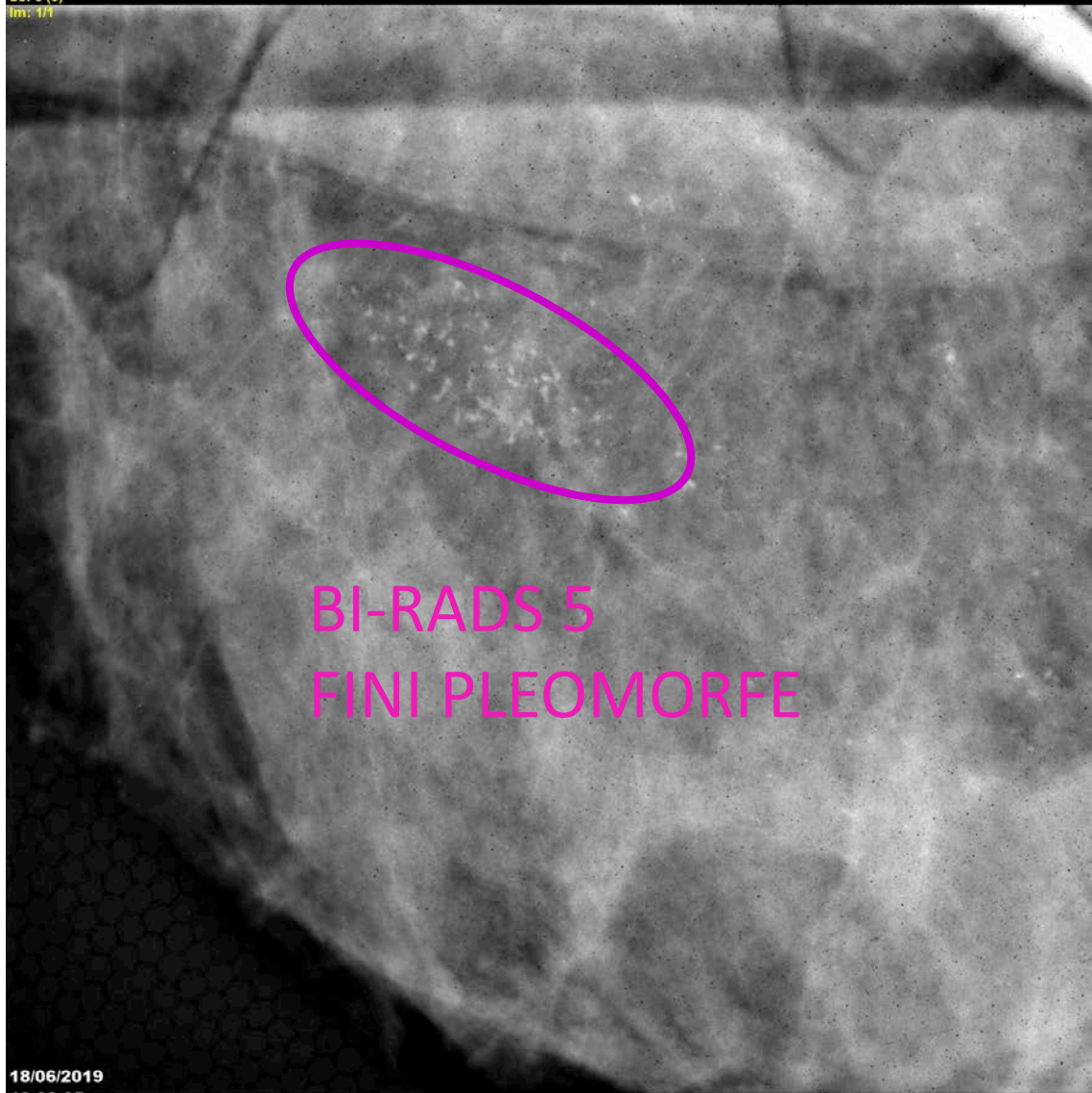
KV: 28.0  
mAs: 145.0  
11625  
2335  
MA: 62.0  
0.02385  
11.625

W:496  
C:2144





DummyPatName!  
01/01/1960  
DummyPatID!  
SESSO F  
Zoom:2.0  
Se: 0 (0)  
Im: 1/1



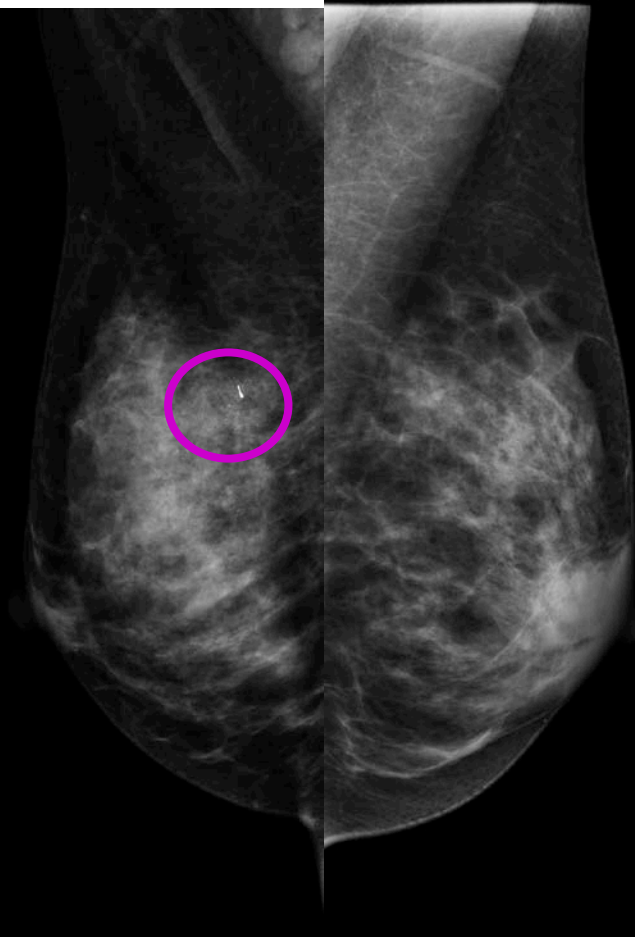
BI-RADS 5  
FINI PLEOMORFE

18/06/2019  
13:03:35  
KV: 28.0  
360  
MA: 99.0  
W:2722  
C:2005



DummyPatName1  
01/01/1960  
DummyPatID1  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 10187  
Im: 1/2  
Modalità non diagnostica

DummyPatName1  
01/01/1960  
DummyPatID1  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 13375  
Im: 1/2  
Modalità non diagnostica



DummyPatName!  
01011980  
DummyPatID!  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 10187  
Im: 2/2  
Modello non diagnostica

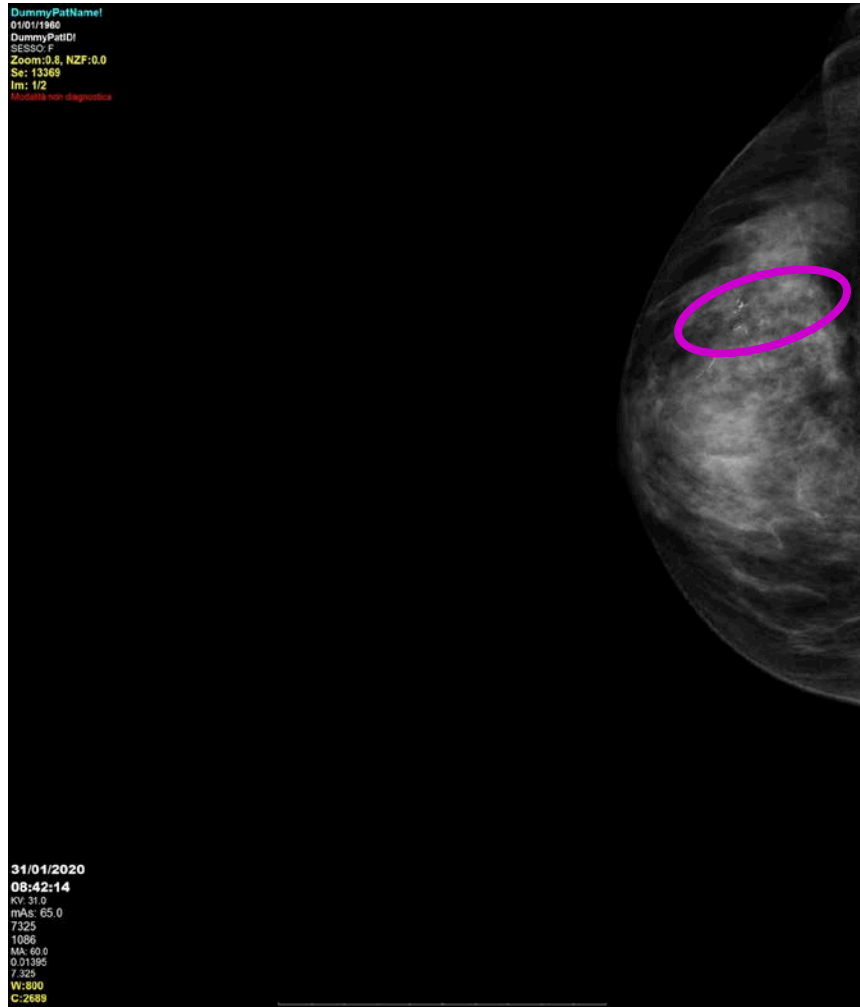
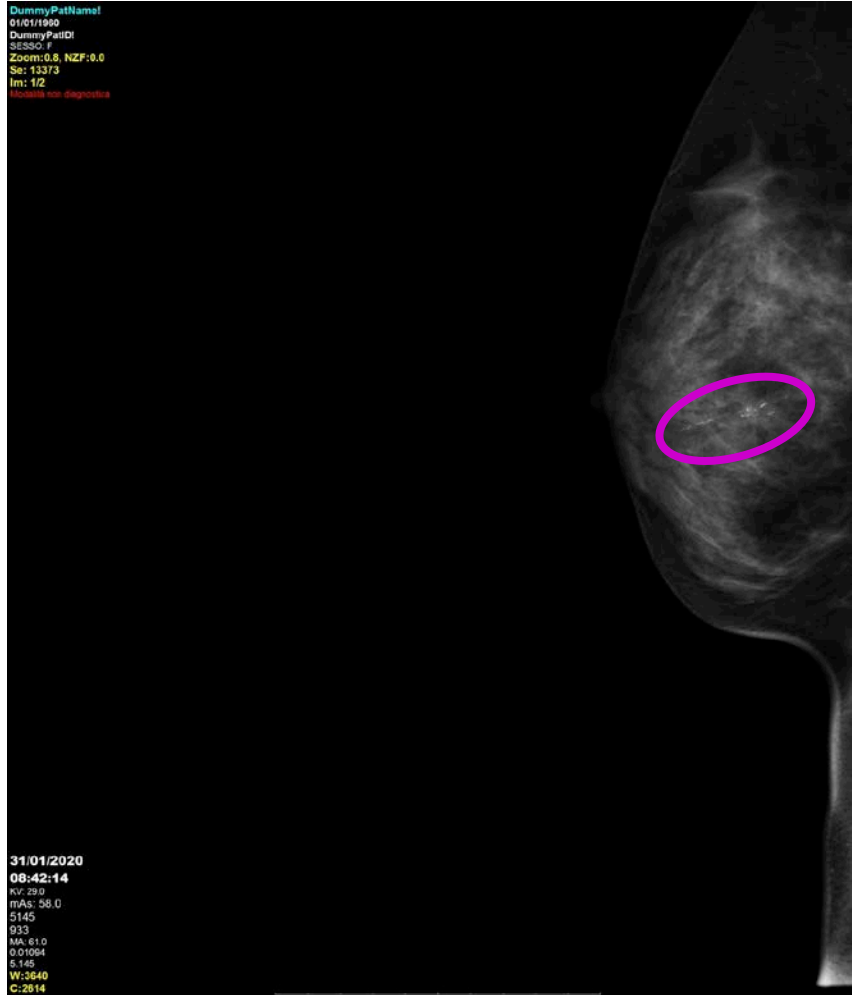


DummyPatName!  
01011980  
DummyPatID!  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 13375  
Im: 2/2  
Modello non diagnostica

# CARCINOMA DUTTALE INFILTRANTE G2

# CASO 2

DONNA, 39 ANNI







BI-RADS 5 LINEARI E PLEOMORFE

DummyPatName!  
01/01/1980  
DummyPatID!  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 13373  
Im: 2/2  
Modalità non diagnostica

31/01/2020  
08:42:14  
W:1742  
C:2122



DummyPatName!  
01/01/1960  
DummyPatID!  
SESSO: F  
Zoom:0.8, NZF:0.0  
Se: 13369  
Im: 2/2  
Modalità non diagnostica

31/01/2020  
08:42:14  
W:264  
C:2085

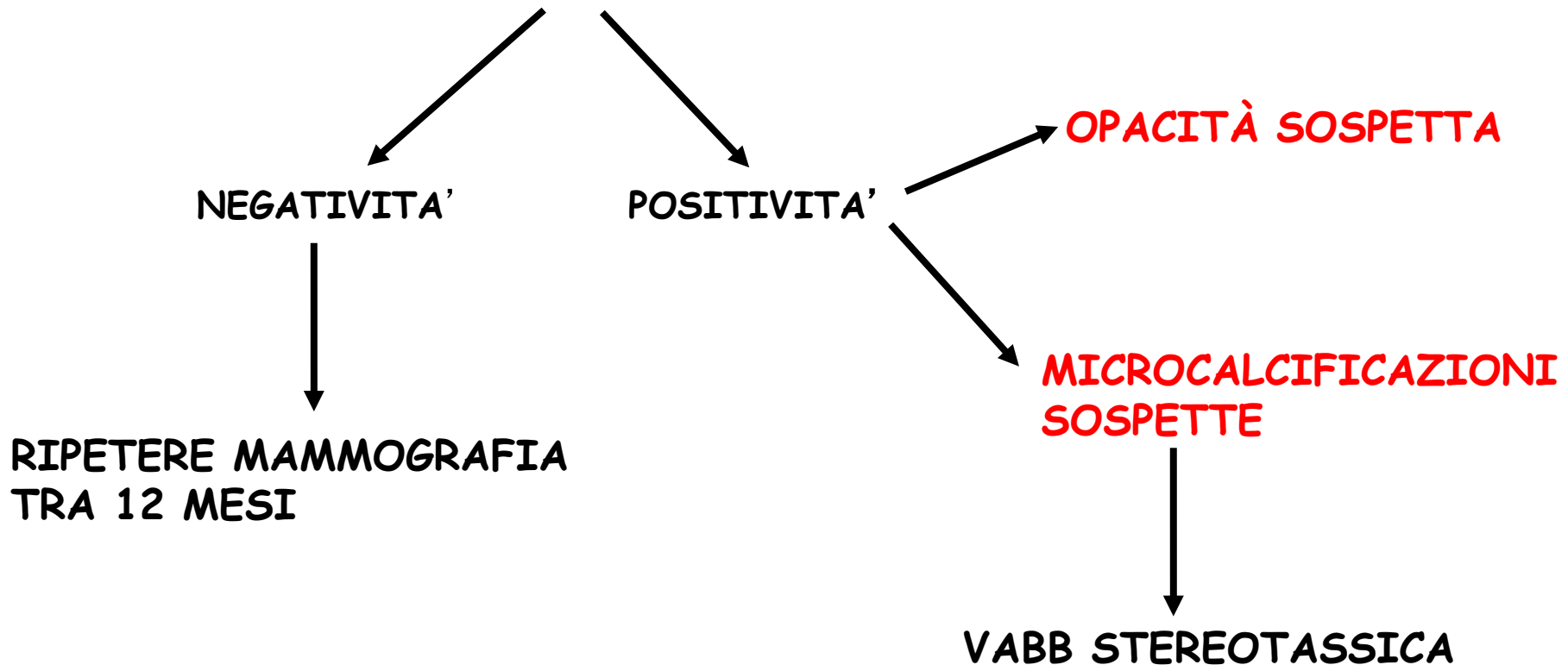


# CARCINOMA DUTTALE G2

# ITER DIAGNOSTICO

ANAMNESI ED ESAME CLINICO

## RX MAMMOGRAFIA



# Ho vinto io!

*Il cancro al seno è curabile.*

Oggi, grazie alla prevenzione, alla ricerca,  
alla tecnologia e ai farmaci, il tumore al seno  
può essere sconfitto.



## Grazie per l'attenzione