

# Poster Number: 1206 Disease behavior and treatment response of special histological types of triple-negative breast cancer

# BACKGROUND

- Special histological types of triple negative breast cancer (TNBC) are heterogenous and poorly understood diseases (1, 2).
- This study aim to characterize the clinical features, disease behavior, treatment and outcomes of patients (pts) with special histological types of TNBC.

### **METHODS**

- Retrospective cohort of pts with special histological types of TNBC treated from 2009 to 2020 at the Instituto do Câncer do Estado de São Paulo.
- Electronic records were reviewed for data collection.
- Comparisons of continuous variables between groups were done using one-way ANOVA, while categorical variables were compared using Chi-square test or Fisher exact test. Kaplan-Meier and Cox regression were used for survival analyses.

## RESULTS

- 141 pts with TNBC special histological types were evaluated: 75 metaplastic, 16 medullary, 13 lobular, 13 adenoid cystic, 10 apocrine, and 14 other types.
- Among 125 pts with localized disease, 55 and 48 received neo- and adjuvant chemotherapy, respectively. 48 pts had metastatic disease at diagnosis or after recurrence.
- Median follow-up was 50 months.
- Clinical features and disease behavior differed importantly according to the special histological type (Tables 1 and 2).

# Table chara Age (median, Stage at diag |-|| IV Grade (n, %) 3

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# Table 2. Tre

Localized dis

Response to Complete re Partial respo

Stable disea Progressive

Disease recu

5y-DFS rates

### Metastatic d

1st line CT (n, %) Platinum-based Taxane Anthracycline-based Other Median PFS, months

Abbreviations: AC, Adenoid cystic; CT, chemotherapy; DFS, disease-free survival; PFS, progression-free survival; NR, not reached; NA, not applicable.

16 (61.5%)

1 (3.8%)

3 (11.4%)

6 (23.1%)

4.3 mo

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1. Patients' acteristics		olastic :75)	Medullary (n=16)		Lobular (n=13)		AC (n=13)		Apocri (n=1(	
n, range)	51 (22	2 – 83)	54 (3	54 (34 – 74)		56 (28 - 84)		2 (40 – 78)	66 (46 –	- (
gnosis (n, %)	34 (4	5.3%) 5.3%) .3%)	10 (62.5%) 5 (31.2%) 1 (6.2%)		5	(38.5%) (38.5%) (23.1%)		0 (76.8%) 1 (7.7%) 1 (7.7%)	6 (42.8% 3 (21.4% 4 (28.6%	
)	0 (0%) 17 (22.7%) 56 (74.7%)		0 (0%) 1 (6.2%) 14 (87.5%)		1 (7.7%) 3 (23.1%) 9 (69.2%)		5 (38.5%) 6 (46.1%) 2 (15.4%)		1 (10% 6 (60% 3 (30%	%
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eatment and outc	omes	Metapl	astic	Medull	ary	Lobula	r	AC	Ароси	ri
isease		(n=6	58)	(n=16	5)	(n=10)		(n=12)	(n=9	9)
neoadjuvant CT (n, %) response oonse ease e disease		4 (12.5%) 16 (50%) 4 (12.5%) 7 (21.9%) 23 (33.8%)		7 (100%) 0 (0%) 0 (0%) 0 (0%) 2 (12.5%)		2 (33.3%) 1 (16.7%) 0 (0%) 1 (16,7%) 3 (30%)		0 (0%) 2 (50%) 1 (25%) 1 (25%) 2 (25%)	0 (0% 0 (0% 2 (100% 0 (0%	
urrence (n, %)		•	,				)	3 (25%)	-	
s (%)		60%		87%		60%		70%	100%	
isease		(n=3	50)	(n=2)	)	(n=5)		(n=4)	(n=′	Г)
n. %)										

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0 (0%)

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6.1 mo

0 (0%)

3 (100%)

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1 (100%)

0 (0%)

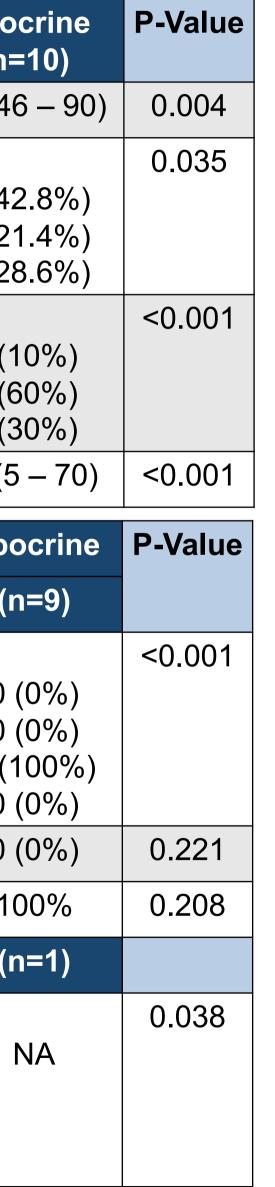
0 (0%)

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NR



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Disease-	-free	survi	val (Ka	aplan-	Meier	curve)				
1.00 - 00.0 - 00										
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	Ó	12	24	36 Time	48 (monthe	60 s)	72	84	96	
Number at risk Lobular Metaplastic Medullary Apocrine Adenoid cystic	10 68 16 9 12	9 57 14 8 10	6 41 13 5 10	5 34 13 5 9	5 28 13 4 7	4 22 11 2 4	4 12 5 1	2 7 5 1	2 5 5 1 0	

# CONCLUSIONS

• Our data confirm that TNBC has diverse disease behavior, response to chemotherapy, and oncologic outcomes according to histological type.

• A better comprehension of special types' biology and molecular features is urgently needed for the development of personalized therapy.

### References

- 1. Ishikawa Y, et al. Cancer Sci. 2011;102(3):656-62.
- 2. Dieci MV, et al. Oncologist. 2014;19(8):805-13.

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NA

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