

XVII JORNADAS ONCOLÓGICAS

ARAGÓN · NAVARRA · RIOJA

20
JUNIO
2024



Organizador:

FBMS
Fundación Biomédica Miguel Servet

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- **#ABSTRACT 512#** Baseline (BL) characteristics and efficacy endpoints for patients (pts) with node-negative (N0) HR+/HER2- early breast cancer (EBC): NATALEE trial.
- **#ABSTRACT LBA 500#** A-BRAVE trial: A phase III randomized trial with avelumab in early triple-negative breast cancer with residual disease after neoadjuvant chemotherapy or at high risk after primary surgery and adjuvant chemotherapy.
- **#ABSTRACT LBA 502#** A randomized, multicenter, open-label, phase III trial comparing anthracyclines followed by taxane versus anthracyclines followed by taxane plus carboplatin as (neo) adjuvant therapy in patients with early triple-negative breast cancer: Korean Cancer Study Group BR 15-1 PEARLY trial.
- **#ABSTRACT 516#** Non-basal subtype defined by FOXC1 expression as an independent predictor of capecitabine efficacy in the triple negative breast cancer GEICAM/2003-11_CIBOMA/2004-01 trial.

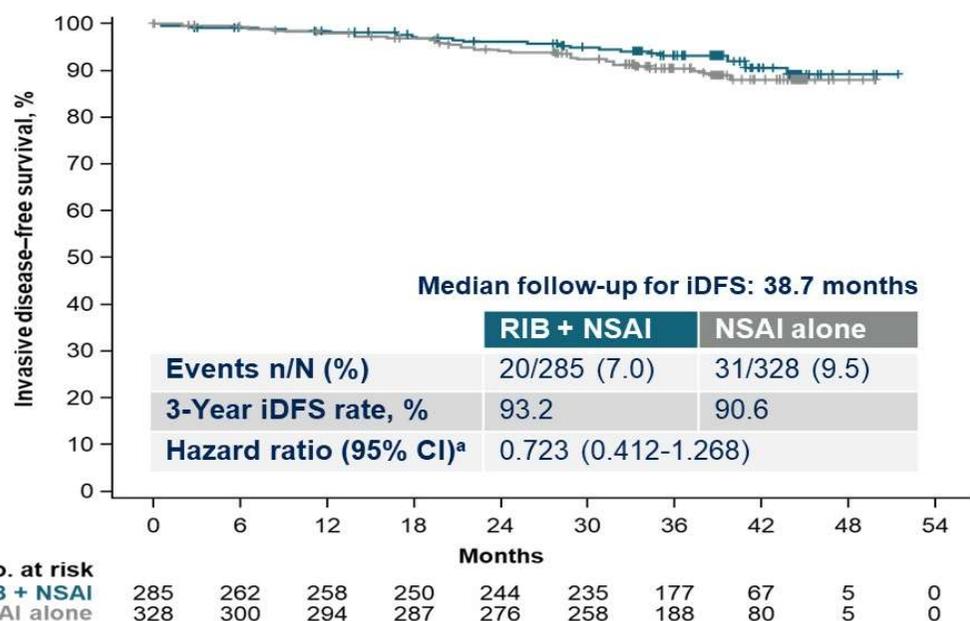
- **#ABSTRACT 10503#** Clinical behavior of breast cancer in young *BRCA* carriers and prognostic impact of the timing of genetic testing: Results from an international cohort study.
- **#ABSTRACT 504#** Impact of hormone receptor status and tumor subtypes on clinical behavior and outcomes of breast cancer in young *BRCA* carriers.
- **#ABSTRACT 505#** Correlation of serum anti-Müllerian hormone (AMH) levels on identification of premenopausal patients (pts) with hormone receptor positive (HR+), HER2-negative, node-positive breast cancer most likely to benefit from adjuvant chemotherapy in SWOG S1007 (RxPONDER).

- **#ABSTRACT LBA 507#** Prognostic utility of ctDNA detection in the monarchE trial of adjuvant abemaciclib plus endocrine therapy (ET) in HR+, HER2-, node-positive, high-risk early breast cancer (EBC).
- **#ABSTRACT LBA 508#** Development and validation of RSclin N+ tool for hormone receptor-positive (HR+), HER2-negative (HER2-), node-positive breast cancer.

Ribociclib improved iDFS, DDFS, and DRFS in the NATALEE node-negative subgroup

- Patients with stage IIA N0 (T2N0) disease required additional specified high-risk features
- All patients with stage IIB N0 (T3N0) and IIIB N0 (T4N0) disease were included

iDFS in Node-Negative Subgroup



DDFS and DRFS in Node-Negative Subgroup

Efficacy outcome	RIB + NSAI n = 285	NSAI alone n = 328
DDFS		
Events, n	17	27
3-y rate (95% CI), %	94.3 (90.6-96.6)	91.5 (87.6-94.2)
Hazard ratio (95% CI)	0.703 (0.383-1.290)	
DRFS		
Events, n	12	23
3-y rate (95% CI), %	96.3 (93.0-98.1)	92.5 (88.8-95.1)
Hazard ratio (95% CI)	0.580 (0.289-1.170)	

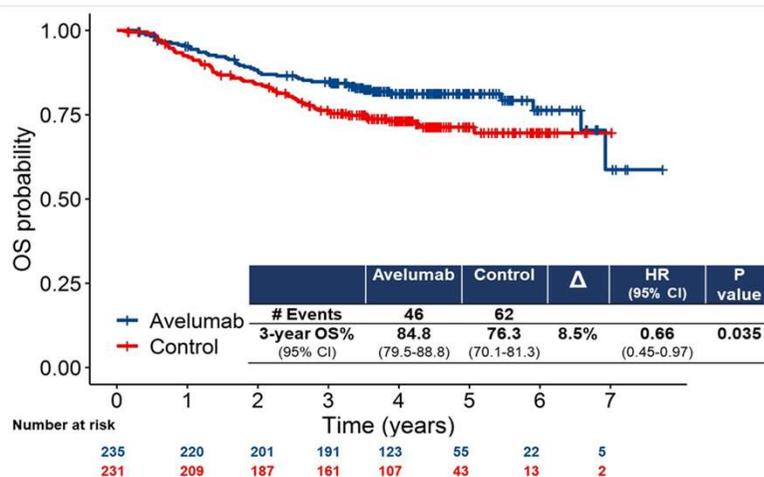
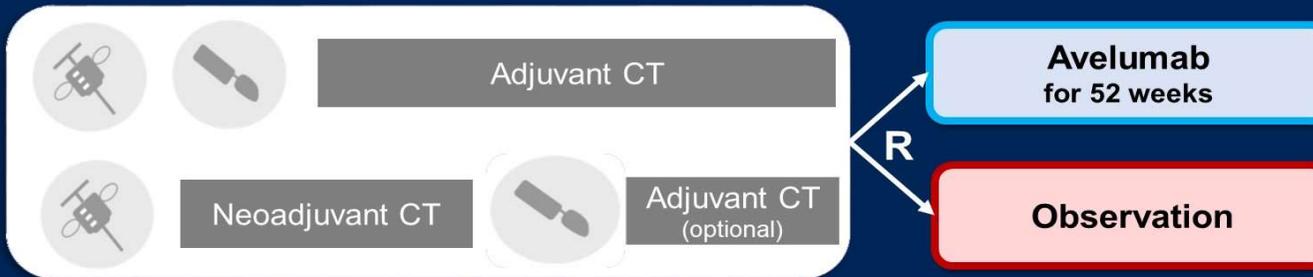
^a This was not a preplanned analysis and no formal P value was spent or tested.
DDFS, distant disease-free survival; DRFS, distant recurrence-free survival; iDFS, invasive disease-free survival; ITT, intention to treat; NSAI, nonsteroidal aromatase inhibitor; RIB, ribociclib.

These findings demonstrate the efficacy and tolerability of adding ribociclib to NSAI in select patients with node-negative HR+/HER2- EBC who are at high risk of recurrence despite current standard of care

A-BRAVE Trial - Key findings

2

Adjuvant trial in TNBC at high risk of relapse; n=466

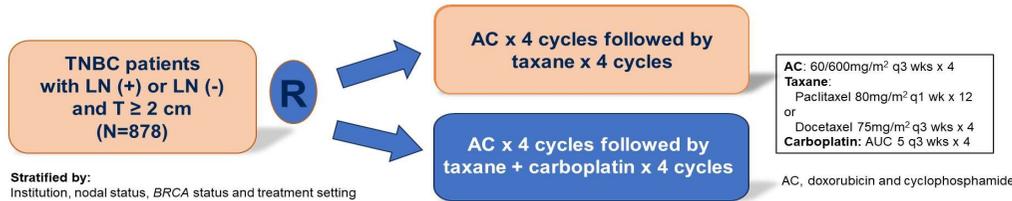


Endpoint and population			Δ 3-yr rate	HR (95% CI)
DFS	ITT	Co-primary	+ 5.1%	0.81 (0.61-1.09)
		Post-neoadj	+ 6.2%	0.80 (0.58-1.10)
OS	ITT	Secondary	+ 8.5%	0.66 (0.45-0.97)
		Post-neoadj	+ 8.6%	0.69 (0.46-1.03)
DDFS	ITT	Exploratory	+ 7.5%	0.70 (0.50-0.96)

The 30% reduction in the risk of distant metastases and 34% reduction in the risk of death suggest that avelumab may have a role in early triple negative breast cancer patients at high risk after primary surgery or with invasive residual disease after NACT.

ABSTRACT LBA 500 # A randomized, multicenter, open-label, phase III trial comparing anthracyclines followed by taxane versus anthracyclines followed by taxane plus carboplatin as (neo) adjuvant therapy in patients with early triple-negative breast cancer: Korean Cancer Study Group BR 15-1 PEARLY trial

PEARLY Study Design (NCT02441933)



Primary Endpoint

- 5-year EFS (Event-Free Survival) rate

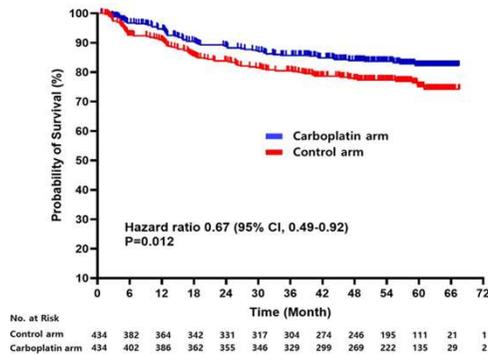
Disease progression or inoperable status for neoadjuvant group
 Local or distant recurrence, second primary cancer, or death from any cause

Secondary Efficacy Endpoints

Overall survival, OS
 Distant recurrence-free survival, DRFS
 Invasive disease-free survival, IDFS

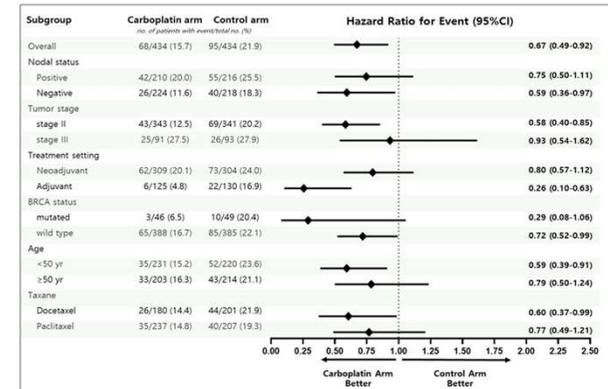
Safety Endpoints

Safety and tolerability
 QoL : EORTC-QLQ-CIPN20, EQ-5D



ITT analysis	Carbo arm (n=434)	Control arm (n=434)
5-year EFS rate	82.3%	75.1%
Stratified HR (95% CI)	0.67 (0.49-0.92)	
Stratified Log Rank P value	0.012	

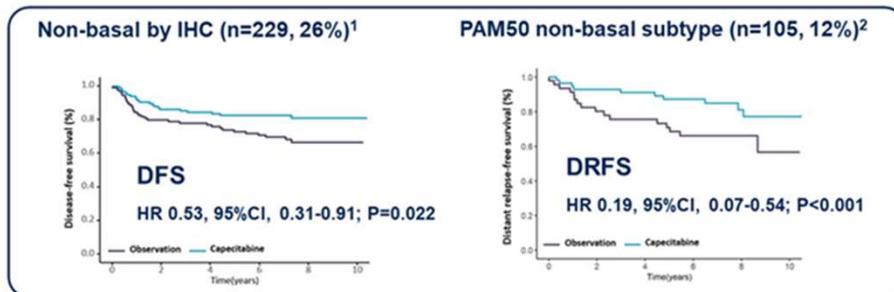
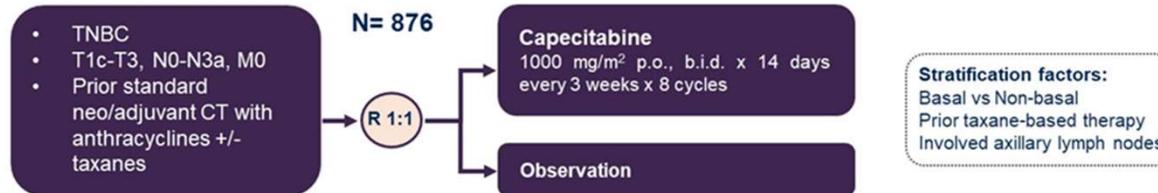
Characteristic	Carboplatin Arm (N=434)	Control Arm (N=434)
Age		
Median, yrs (range)	48 (21-77)	49 (23-76)
≥65, n (%)	33 (7.6)	22 (5.1)
ECOG PS, n (%)		
0	371 (85.5)	383 (88.2)
1	63 (14.5)	51 (11.8)
Germline BRCA status, n (%)		
Deleterious mutation	46 (10.6)	49 (11.3)
No deleterious mutation	388 (89.4)	385 (88.7)
Treatment setting, n (%)		
Neoadjuvant	309 (71.2)	304 (70.0)
Adjuvant	125 (28.8)	130 (30.0)
Tumor stage, n (%)		
T1 or T2	365 (84.1)	373 (85.9)
T3 or T4	69 (15.9)	61 (14.1)
Lymph node involvement, n (%)		
Negative	224 (51.6)	218 (50.2)
Positive	210 (48.4)	216 (49.8)
TNM, n (%)		
Stage II	343 (79.0)	341 (78.6)
Stage III	93 (21.0)	91 (21.4)
Taxane, n (%)		
Docetaxel	180 (43.2)	201 (49.3)
Paclitaxel	237 (56.8)	207 (50.7)
Surgery, n (%)		
BCS	278 (67.1)	256 (62.9)
Mastectomy	136 (32.9)	151 (37.1)



The PEARLY trial provides compelling evidence for including carboplatin in the treatment of early-stage TNBC, underscoring its value in the KN522 trial-based neoadjuvant setting and suggesting potential applicability in the adjuvant setting post-surgery

#ABSTRACT 516# Non-basal subtype defined by FOXC1 expression as an independent predictor of capecitabine efficacy in the triple negative breast cancer GEICAM/2003-11_CIBOMA/2004-01 trial.

GEICAM_CIBOMA clinical trial in early-stage TNBC (NCT00130533)



Subgroup	No. of Patients (%)	DRFS	HR	95%CI	P value
Overall	705 (100)		0.68	0.50 to 0.94	
VERESCA FOXC1 Score					
<4 (Non-Basal)	245 (35)		0.44	0.25 to 0.76	0.003
≥4 (Basal)	460 (65)		0.82	0.55 to 1.22	0.323
PAM50 Subtype					
PAM50 Non-basal	92 (15)		0.17	0.06 to 0.50	0.002
PAM50 Basal	511 (85)		0.79	0.54 to 1.14	0.207
IHC Subtype					
IHC Non-basal	178 (25)		0.41	0.19 to 0.89	0.024
IHC Basal	527 (75)		0.85	0.59 to 1.22	0.378

0 0.5 1 0.5
 <-- Capecitabine --- --- Observation -->

Non-basal breast cancer subtype defined by FOXC1 independently predicted capecitabine benefit after (neo)adjuvant chemotherapy (DRFS, DFS, OS)

#ABSTRACT 10503# Clinical behavior of breast cancer in young *BRCA* carriers and prognostic impact of the timing of genetic testing: Results from an international cohort study.

Key inclusion criteria

- Stage I - III invasive breast cancer
- Diagnosis between January 2000 and December 2020
- Age ≤ 40 years at diagnosis
- Known germline PV in the *BRCA1* or *BRCA2* genes

Key characteristics at breast cancer diagnosis

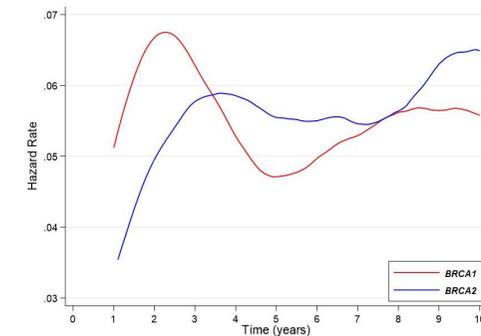
	<i>BRCA1</i> carriers n = 3069, N (%)	<i>BRCA2</i> carriers n = 1683, N (%)
Age at diagnosis, median (IQR) years	34 (31 – 37)	35 (32 – 38)
Age at diagnosis		
≤ 30 years	705 (23.0)	272 (16.2)
31 – 35 years	1088 (35.4)	636 (37.8)
36 – 40 years	1276 (41.6)	775 (46.0)
Region		
Southern Europe	1278 (41.6)	810 (48.1)
Asia	539 (17.6)	235 (14.0)
Northern Europe	470 (15.3)	250 (14.8)
North America	324 (10.6)	193 (11.5)
Eastern Europe	239 (7.8)	70 (4.2)
Australia/Oceania	114 (3.7)	84 (5.0)
Latin/South America	105 (3.4)	41 (2.4)
Year at diagnosis		
2000 – 2005	485 (15.8)	275 (16.3)
2006 – 2010	745 (24.3)	391 (23.2)
2011 – 2015	891 (29.0)	462 (27.5)
2016 – 2020	948 (30.9)	555 (33.0)
Tumor grade		
G1	23 (0.7)	56 (3.3)
G2	395 (12.9)	602 (35.8)
G3	2378 (77.5)	827 (49.1)
Unknown	273 (8.9)	198 (11.8)
Tumor size		
T1 (≤ 2 cm)	1138 (37.1)	681 (40.5)
T2 (>2 – ≤ 5 cm)	1385 (45.1)	662 (39.3)
T3 (> 5 cm) - T4	396 (12.9)	244 (14.5)
Unknown	150 (4.9)	96 (5.7)
Nodal status		
N0	1741 (56.7)	701 (41.6)
N1	919 (29.9)	640 (38.0)
N2 – N3	196 (6.3)	258 (15.3)
Unknown	113 (3.7)	84 (5.0)
Hormone receptor status		
ER and/or PR positive	736 (24.0)	1394 (82.8)
ER and PR negative	2282 (74.4)	261 (15.5)
Unknown	51 (1.7)	28 (1.7)
HER2 status		
HER2 negative	2776 (90.4)	1398 (83.1)
HER2 positive	147 (4.8)	188 (11.2)
Unknown	146 (4.8)	97 (5.8)

Results: *BRCA1* vs. *BRCA2*

Type of disease-free survival (DFS) events

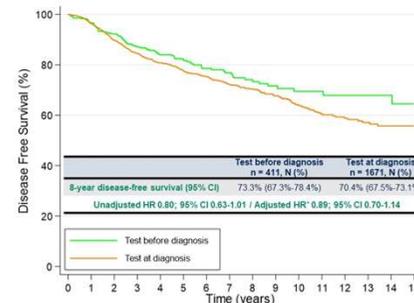
	<i>BRCA1</i> carriers n = 3069, N (%)	<i>BRCA2</i> carriers n = 1683, N (%)
Loco-regional recurrence	235 (7.7)	124 (7.4)
Distant recurrence	298 (9.7)	228 (13.6)
Second primary malignancy	139 (4.5)	50 (3.0)
Ovary	77 (2.5)	9 (0.5)
Pancreas	5 (0.2)	5 (0.3)
Cervix	5 (0.2)	4 (0.2)
Colorectal-anus	4 (0.1)	5 (0.3)
Hematological	4 (0.1)	4 (0.2)
Skin cancer	10 (0.3)	8 (0.5)
Thyroid	5 (0.2)	2 (0.1)
Endometrium	7 (0.2)	1 (0.1)
Upper gastrointestinal	4 (0.1)	1 (0.1)
Others	18 (0.6)	11 (0.6)
Second primary breast cancer	419 (13.7)	157 (9.3)
Death without any DFS event	25 (0.8)	16 (0.1)

Epanechnikov Kernel-Smoothed annual hazard of DFS events



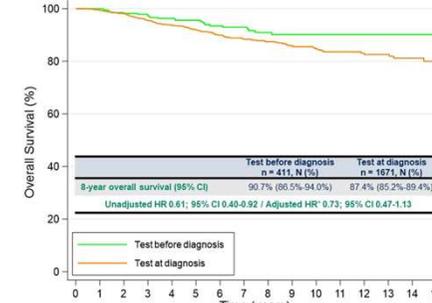
Results: *BRCA* Test Before vs. At Diagnosis

Disease-free survival



Number at risk	411	385	337	286	239	202	163	122	84	70	59	46	35	28	20	15
Test before diagnosis	411	1569	1346	1108	908	723	582	447	339	261	194	154	118	89	60	44
Test at diagnosis																

Overall survival



Number at risk	411	390	358	316	272	234	195	150	119	91	77	61	48	37	27	21
Test before diagnosis	411	1619	1467	1248	1036	849	695	548	422	335	265	212	162	127	83	56
Test at diagnosis																

* Adjusted for country, specific BRCA gene, grade, tumor size, nodal status axillary surgery and chemotherapy use

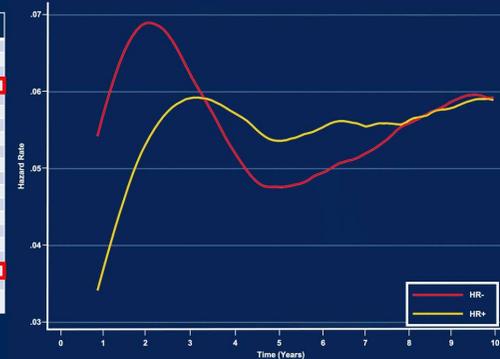
#ABSTRACT 504# Impact of hormone receptor status and tumor subtypes on clinical behavior and outcomes of breast cancer in young *BRCA* carriers.

Results: Analyses by Hormone Receptor Status

Pattern of first Disease-Free Survival event

	HR+ cohort n = 2,143, N (%)	HR- cohort n = 2,566, N (%)	P value*
Loco-regional recurrence	150 (7.0)	211 (8.2)	0.14
Distant recurrence	280 (13.1)	245 (9.6)	0.01
Second primary malignancy	72 (3.4)	115 (4.5)	0.07
Ovaries	25 (1.2)	60 (2.3)	
Pancreas	6 (0.3)	4 (0.2)	
Cervix	3 (0.1)	6 (0.2)	
Colon-rectal-anal	3 (0.1)	6 (0.2)	
Haematological	3 (0.1)	4 (0.2)	
Skin	8 (0.4)	10 (0.4)	
Thyroid	2 (0.1)	5 (0.2)	
Endometrial	6 (0.2)	3 (0.1)	
Upper-gastrointestinal	2 (0.1)	3 (0.1)	
Others	15 (0.7)	14 (0.6)	
Second primary breast cancer	195 (9.1)	378 (14.7)	<0.0001
Death without any disease-free survival event	23 (1.1)	17 (0.7)	0.13

Smoothed annual hazard rate of Disease-Free Survival

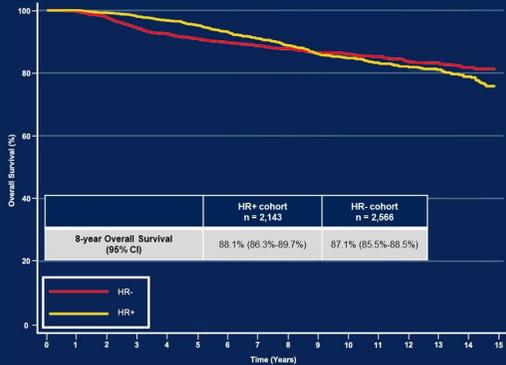


*P values for time-dependent events estimated by means of the Log-rank test

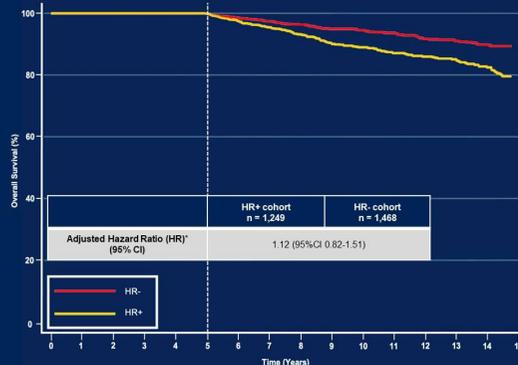
- Hormone receptor positivity did not seem to have a strong positive prognostic value in young *BRCA* carriers affected by early breast cancer
- Young *BRCA* carriers with luminal A-like disease showed a relatively worse prognosis (in terms of DFS) compared to the other breast cancer subtypes

Results: Analyses by Hormone Receptor Status

Overall Survival



Overall Survival (years >5)

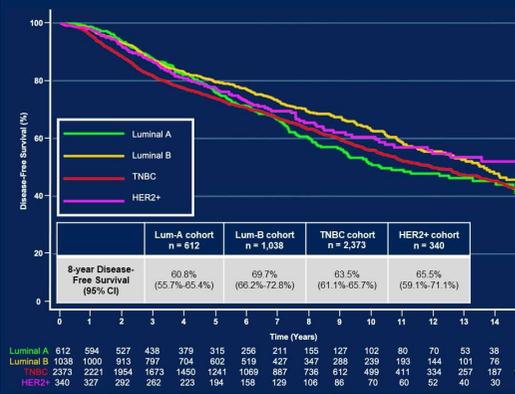


HR+ 2566 2504 2329 2080 1856 1645 1468 1284 1126 991 869 761 642 527 406 324
HR- 2143 2109 1977 1791 1632 1442 1249 1064 892 744 637 532 450 363 292 219

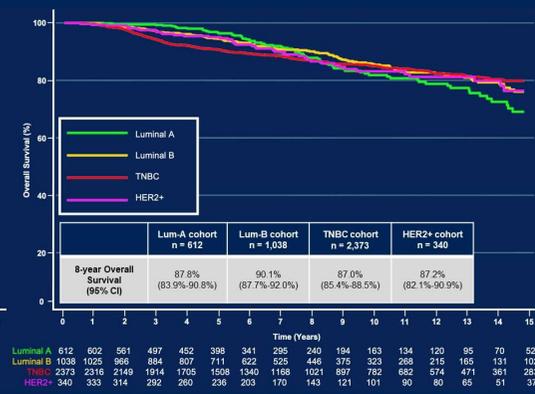
*Adjusted for age, year of diagnosis, country, histology, tumor size, grade, nodal status, HER2 expression, type of breast surgery, chemotherapy

Results: Analyses by Tumor Subtype

Disease-Free Survival



Overall Survival

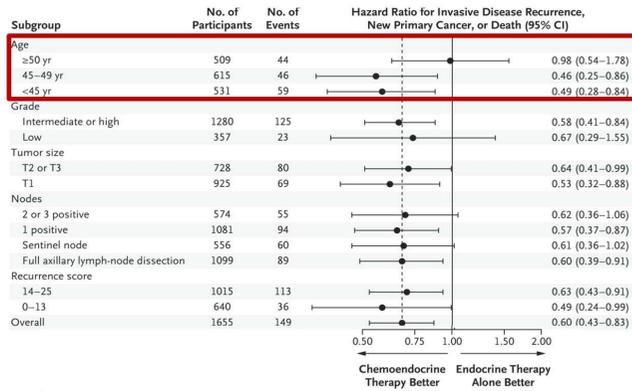


Luminal A 612 594 527 438 379 315 256 211 155 127 102 80 70 53 38 24
Luminal B 1038 1000 913 797 704 602 519 427 347 288 239 193 144 101 76 57
TNBC 2373 2221 1854 1673 1450 1241 1089 887 736 612 499 411 334 257 187 137
HER2+ 340 327 292 202 145 119 106 86 70 60 52 40 30 23

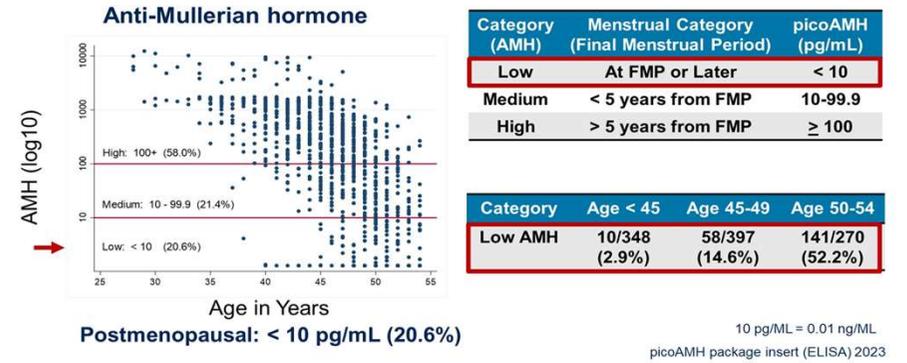
Luminal A 612 602 561 497 452 398 341 295 240 194 163 134 120 95 70 52
Luminal B 1038 1025 966 884 807 711 622 525 446 375 323 268 215 165 131 102
TNBC 2373 2316 2149 1914 1705 1508 1340 1168 1021 897 782 682 574 474 361 283
HER2+ 340 333 314 292 200 230 203 170 143 121 101 90 80 65 51 37

#ABSTRACT 505# Correlation of serum anti-Müllerian hormone (AMH) levels on identification of premenopausal patients (pts) with hormone receptor positive (HR+), HER2-negative, node-positive breast cancer most likely to benefit from adjuvant chemotherapy in SWOG S1007 (RxPONDER).

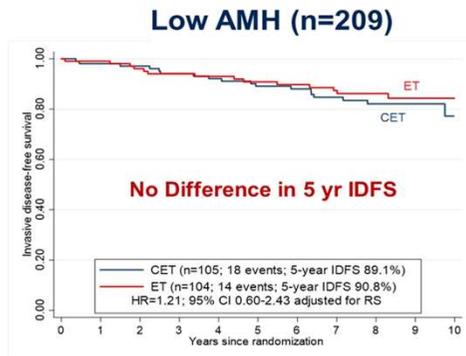
Chemotherapy benefit lower in older “premenopausal” in RxPONDER



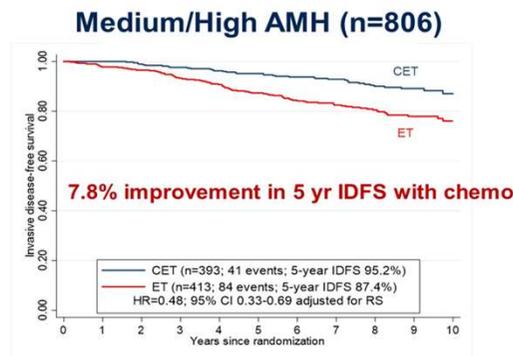
21% of “premenopausal” women < 55 years had serum AMH in postmenopausal range



“Premenopausal” < 55 years with low AMH have no IDFS benefit with chemotherapy



Postmenopausal: < 10 pg/mL

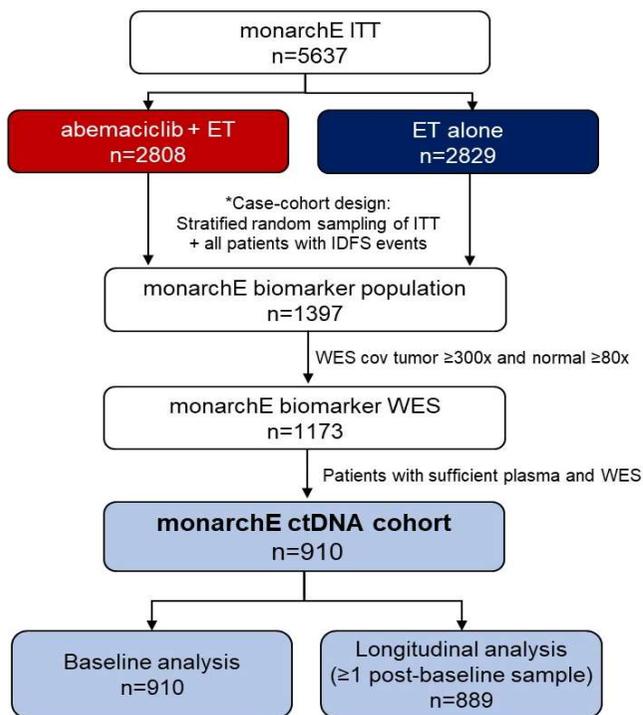


Premenopausal: ≥ 10 pg/mL

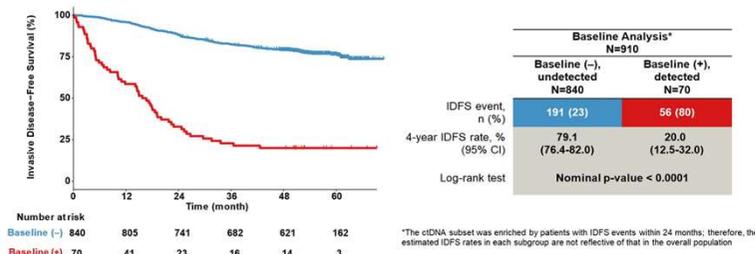
Significant interaction p=0.019, adjusting for RS

In RxPONDER, “premenopausal” women < 55 years with 1-3 LN+ and RS ≤ 25, 20.6% have low pre-treatment serum AMH levels < 10 pg/mL by traditional ELISA assay and did not benefit from adding chemotherapy to ET

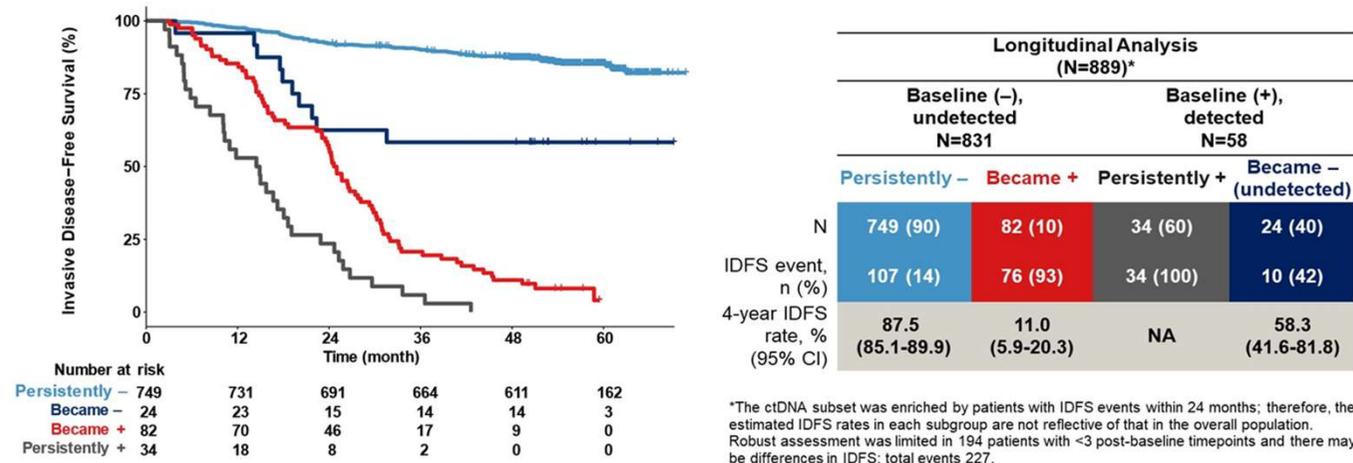
#ABSTRACT LBA 507# Prognostic utility of ctDNA detection in the monarchE trial of adjuvant abemaciclib plus endocrine therapy (ET) in HR+, HER2-, node-positive, high-risk early breast cancer (EBC).



Baseline ctDNA Detection is Associated with Worse Outcomes

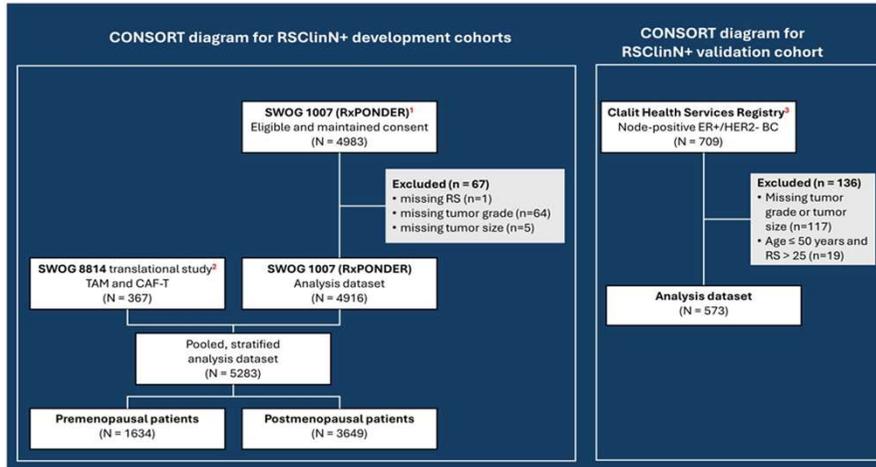


Dynamics of ctDNA Detection on Treatment is Associated with Outcomes

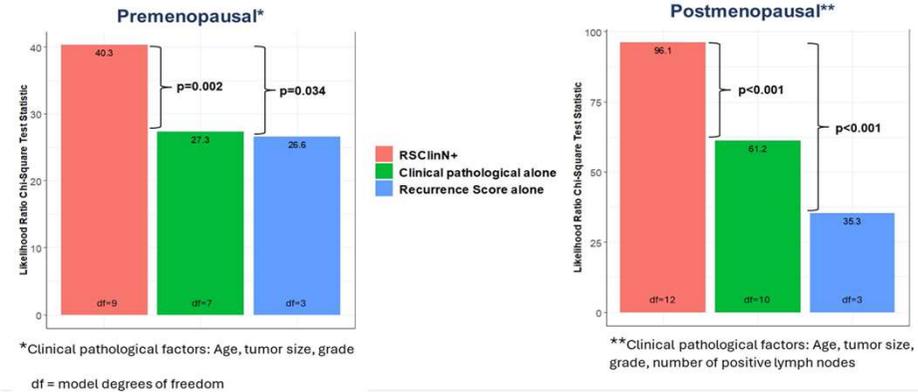


Patients who remained Persistently + or Became + on treatment were more likely to experience an IDFS event compared to those who Became - (undetected) or remained Persistently - on treatment

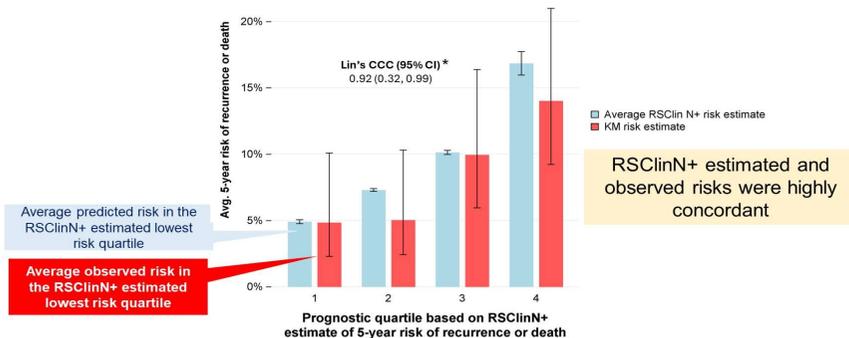
#ABSTRACT LBA 508# Development and validation of RSClin N+ tool for hormone receptor-positive (HR+), HER2-negative (HER2-), node-positive breast cancer.



RSClinN+ provides more prognostic information than RS alone, or clinical-pathological models alone in both pre- and post-menopausal women



External validation of RSClinN+ predictions in the Clalit registry (N= 573)



* CCC = Concordance Correlation Coefficient

- RSClinN+ provides more prognostic information than either the RS alone, or clinical-pathological factors alone in both pre- and postmenopausal women.
- In **postmenopausal** patients, RS showed interaction with chemotherapy benefit; absolute benefit from chemotherapy increased as RS increased above 25.
- In **premenopausal** patients, with RS ≤25, there was no interaction between RS and chemotherapy benefit, chemotherapy benefit was seen at all RS levels.
- In external validation, RSClinN+ risk estimates were prognostic and concordant with observed risk.

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What to do tomorrow?

- #ABSTRACT 512# Baseline (BL) characteristics and efficacy endpoints for patients (pts) with node-negative (N0) HR+/HER2- early breast cancer (EBC): NATALEE trial.
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-> I will use platin in the adjuvant treatment of CMTN
 - #ABSTRACT 516# Non-basal subtype defined by FOXC1 expression as an independent predictor of capecitabine efficacy in the triple negative breast cancer GEICAM/2003-11_CIBOMA/2004-01 trial.
-> I will ask to my pathologist if he can do the FOXC1 IHQ
-
- #ABSTRACT 10503# Clinical behavior of breast cancer in young *BRCA* carriers and prognostic impact of the timing of genetic testing: Results from an international cohort study.
 - #ABSTRACT 504# Impact of hormone receptor status and tumor subtypes on clinical behavior and outcomes of breast cancer in young *BRCA* carriers.
-> Be careful with luminal breast cancer in *BRCA* 1 / 2 carriers
 - #ABSTRACT 505# Correlation of serum anti-Müllerian hormone (AMH) levels on identification of premenopausal patients (pts) with hormone receptor positive (HR+), HER2-negative, node-positive breast cancer most likely to benefit from adjuvant chemotherapy in SWOG S1007 (RxPONDER).
-> If I am not sure about menopausal status, I will measure AMH level.
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- #ABSTRACT LBA 507# Prognostic utility of ctDNA detection in the monarchE trial of adjuvant abemaciclib plus endocrine therapy (ET) in HR+, HER2-, node-positive, high-risk early breast cancer (EBC).
 - #ABSTRACT LBA 508# Development and validation of RSclin N+ tool for hormone receptor-positive (HR+), HER2-negative (HER2-), node-positive breast cancer.
-> I will keep taking into account the clinical and pathologic factors to better understand the prognosis.