



# Breast Cancer ASCO Abstracts: Prevention & Adjuvant Therapy

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- Abs # LBA-504- Goss, PE et al. (NCIC MAP.3)

#### Adjuvant Therapy:

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- Abs# LBA-1003- Whelan, TJ et al. (NCIC MA.20)
- ACOSOG Z11- Giuliano, AE et al. (JAMA 2011)
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Table 2. Incidence of Invasive and Preinvasive Breast Events by Treatment Group.*						
Type of Event	Exen (N=	nestane = 2285)	Pla (N =	cebo 2275)	Hazard Ratio (95% CI)†	P Value:
	No. of Cases	Annual Incidence (%)	No. of Cases	Annual Incidence (%)		
Invasive breast cancer		()		()		
All cases	11	0.19	32	0.55	0.35 (0.18-0.70)	0.002
ER-positive	7	0.12	27	0.46	0.27 (0.12-0.60)	< 0.001
ER-negative	4	0.07	5	0.09	0.80 (0.21-2.98)	0.74
PR-positive	5	0.09	20	0.34	0.26 (0.10-0.69)	0.004
PR-negative	6	0.10	12	0.20	0.50 (0.19-1.33)	0.16
HER2/neu-positive	0	0.00	6	0.10	NA	NA
HER2/neu-negative	10	0.17	26	0.44	0.40 (0.19-0.82)	0.01
HER2/neu unknown	1	NA	0	NA	NA	NA
T stage 1	8	0.14	28	0.48	0.29 (0.13-0.65)	0.001
T stages 2 to 4	3	0.05	3	0.05	0.98 (0.20-4.86)	0.98
T stage X	0	NA	1	NA	NA	NA
Node-positive	3	0.05	9	0.15	0.33 (0.09-1.71)	0.08
Node-negative	7	0.12	22	0.38	0.33 (0.14-0.78)	0.008
Node unknown	1	NA	1	NA	NA	NA
M stage 0	11	0.19	30	0.51	0.38 (0.19-0.75)	0.004
M stage X1	0	NA	2	NA	NA	NA
DCIS§	9	0.16	14	0.24	0.65 (0.28-1.51)	0.31
Invasive breast cancer and DCIS§	20	0.35	44	0.77	0.47 (0.27-0.79)	0.004
ADH, ALH, and LCIS	4	0.07	11	0.20	0.36 (0.11-1.12)	0.08

able 3. Side Effects during To	reatment,	According	g to Severi	ity.≑							
Side Effect			Exemesta (N = 224	ine 0)				Placebo (N = 2248)			P Value
	Grade 1	Grade 2	Grade 3	Grade 4	Total	Grade 1	Grade 2	Grade 3	Grade 4	Total	
			io.		no. (%)			o.		no. (%)	
Any	464	931	536	32	1963 (88)	557	877	437	30	1901 (85)	0.003
Cardiac: hypertension	119	109	112	1	341 (15)	124	118	109	3	354 (16)	0.65
Endocrine											
Hot flashes	489	344	67		900 (40)	450	225	43		718 (32)	< 0.001
Fatigue	342	150	31	2	525 (23)	305	135	25		465 (21)	0.03
Sweating	284	201	1		486 (22)	263	169	1		433 (19)	0.046
Insomnia	117	98	15		230 (10)	127	55	7		189 (8)	0.04
Constitutional and gastrointestinal											
Diarrhea	77	32	9		118 (5)	58	16	1		75 (3)	0.002
Heartburn	223	92	17		332 (15)	200	79	10		289 (13)	0.06
Nausea	137	15	3		155 (7)	102	18	2		122 (5)	0.04
Musculoskeletal: arthritis	102	113	30	2	247 (11)	96	83	17		196 (9)	0.01
Neurologic											
Dizziness	145	35	9		189 (8)	152	48	9		209 (9)	0.32
Mood alteration or depression	123	90	19	4	236 (11)	128	98	8	1	235 (10)	0.96
Pain											
Back	106	77	21	2	306 (9)	119	80	23		222 (10)	0.45
Extremity	67	68	17	1	153 (7)	60	54	8		122 (5)	0.054
Joint	294	293	75	3	665 (30)	308	264	33	1	606 (27)	0.04
Muscle	69	62	16		147 (7)	111	67	14		192 (9)	0.01
Upper respiratory: cough	196	28	10		234 (10)	224	31	11		266 (12)	0.14
Sexual function: vaginal dryness	209	142	1		352 (16)	219	124			343 (15)	0.68
Secondary-end-point toxic effects											
Clinical skeletal fracture					149 (6.7)					143 (6.4)	0.72
New osteoporosis					37 (1.7)					30 (1.3)	0.39
Cardiovascular events					106 (4.7)					111 (4.9)	0.78
Other solid tumors or he- matologic malignant lesions					43 (1.9)					38 (1.7)	0.58





# First analysis of SWOG S0221: A phase III trial comparing chemotherapy schedules in high-risk early breast cancer.

G. T. Budd, W. E. Barlow, H. C. F. Moore, T. J. Hobday, J. A. Stewart, C. Isaacs, M. Salim, J. K. Cho, K. Rinn, K. S. Albain, H. K. Chew, G. V. Burton, T. D. Moore, G. Srkalovic, B. A. McGregor, L. E. Flaherty, R. B. Livingston, D. Lew, J. Gralow, G. N. Hortobagyi

Abs# 1004

# AC+G Regimen: Background (1)

- U. Washington Adjuvant Experience
  - Dox 24 mg/m2/wk + Cyclo 60 mg/m2/d po + GCSF days 2-7
  - 85% 5 year disease-free survival in node+ breast cancer when followed by weekly paclitaxel
- S9625: Locally Advanced SWOG Phase II
   26% pCR rate to neo-adjuvant AC+G (without taxane)
- S0012: Locally Advanced SWOG Phase III
  - AC+G vs AC q 3 wk x 5, followed by weekly paclitaxel
  - 24% pCR vs 21% overall (p=0.45)
  - 27% pCR vs 12% in inflammatory cancer (p=0.06)









# S0221: 1<sup>st</sup> Interim Analysis

- At the first interim analysis, the prescribed 99.5% confidence interval boundary for futility for the AC+G arm was crossed, excluding the hypothesis that the hazard ratio was 0.82 or better in favor of the AC+G arm.
- No boundary was crossed for the paclitaxel comparison and there was no significant interaction of the two factors.
- DSMC recommended suspending randomization to the AC factor – recommendation accepted by SWOG and NCI



Characteristic	Continuous AC+G	AC q 2 weeks x 6	Total
Randomized	1341	1375	2716
Known ineligible or withdrew consent	21 (1.6%)	33(2.4%)	54 (2.0%)
Analyzed	1320	1342	2662
Black race	155 (11.7%)	147 (11.0%)	302 (11.3%)
Age			
Median (years)	50	51	51
Range (years)	21-79	23-86	21-86
Menopausal status			
Pre	620 (47.5%)	627 (47.6%)	1247 (47.6%)
Post	685 (52.5%)	689 (52.4%)	1374 (52.4%)
Unknown/NA(males)	15	26	41
Node +	1016 (77.3%)	1016 (76.2%)	2032 (76.7%)
Node -	298 (22.7%)	318 (23.8%)	616 (23.3%)
ER-/PR-	431 (32.8%)	442 (33.1%)	873 (33.0%)
ER+ or PR+	883 (67.2%)	892 (66.9%)	1775 (67%)
HER2+	231 (17.7%)	243 (18.4%)	474 (18.0%)



	60221: First Interim Analy	ysis
DF	5 Subset Analy	SIS
Subgroup	HR (Weekly vs. Q 2 week)	95% CI
All	1.15	0.95 – 1.41
Receptor Positive	1.14	0.87 – 1.50
Receptor Negative	1.21	0.89 – 1.63
Node Negative	1.44	0.85 – 2.42
Node Positive	1.09	0.88 – 1.36
HED2 Decitive	1.19	0.73 – 1.93



	Hemogle	obin: AC Segme	nts	
Q 2 \	Neek	We	ekly	
3	4	3	4	p-value
9%	0.6%	5%	0.25%	<0.001
	WBC	: AC Segments	·	•
Q 2 \	Neek	We	ekly	
3	4	3	4	p-value
8%	12%	11%	4%	0.001
	Neutrop	hils: AC Segme	nts	
Q 2 \	Neek	We	ekly	
3	4	3	4	p-value
8%	18%	15%	8%	0.09
	Platele	ets: AC Segment	S	
Q 2 \	Neek	We	ekly	
3	4	3	4	p-value
2%	0.8%	3%	0.4%	0.6

Q 2	Week	We We	ekly	
3	4	3	4	p-value
5%	1%	1.7%	0.25%	<0.001
	Infection – Non-I	Neutropenic: AC	Segments	
Q 2	Week	We	ekly	
3	4	3	4	p-value
2.8%	0.08%	2.4%	0.33%	0.84
Grade	5: 0.08%	Grade 5	5: 0.16%	

0.2 M	Mucos	itis: AC Segment	is okly	
3	4	3	4	p-valu
2%	0	8%	0.2%	<0.00
De	rmatologic/Hand-	-Foot Syndrome:	AC Segments	•
Q 2 V	Veek	We	ekly	
3	4	3	4	p-valu
2%	0	15%	2%	<0.00
				6

S0221	Toxicity: First Int	erim Analysis - :	2480 patient	S
	Cardiac:	AC Segments		
Q 2 W	/eek	We	ekly	
3	4	3	4	p-value
0.9%	0.2%	0.4%	0	0.046
Grade 5:	0.08%			
C	ardiac: Both AC a	nd Paclitaxel Se	gments	
Q 2 W	/eek	We	ekly	
3	4	3	4	p-valu
1.7%	0.5%	0.5%	0	< 0.00
Grade 5	: 0.3%			
				G









# NCIC CTG MA.20:

# An intergroup trial of regional nodal irradiation in early breast cancer.

T. J. Whelan, I. Olivotto, I. Ackerman, J. W. Chapman, B. Chua, A. Nabid, K. A. Vallis, J. R. White, P. Rousseau, A. Fortin, L. J. Pierce, L. Manchul, P. Craighead, M. C. Nolan, J. Bowen, D. R. McCready, K. I. Pritchard, M. N. Levine, and W. Parulekar

Abs# LBA-1003









	WBI only	WBI + RNI (%)	n
XRT Dermatitis	40	50	ې د.001
neumonitis > grade 2	0.2	1.3	.01
nphedema	4.1	7.3	.004





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# ACOSOG Z0011

Axillary Dissection vs No Axillary Dissection in Women With Invasive Breast Cancer and Sentinel Node Metastasis A Randomized Clinical Trial

Giuliano AE, Hunt KK, Ballman KV, Beitsch PD, Whitworth PW, Blumencranz PW, Leitch AM, Saha S, McCall L, Morrow M

JAMA. 2011 Feb 9;305(6):569-75.

# ACOSOG Z0011

• Hypothesis:

SLND alone achieves similar locoregional control and survival as Level I and II ALND for H&E SN node-positive women.



# ACOSOG Z0011 Target accrual=1900 Primeru ordenist unce averall

- Primary endpoint was overall survival as a measure of noninferiority of the experimental arm (i.e. SLND alone)
  - 500 deaths needed for 90% power
- Accrual closed early at DMSC recommendation (n=891)
  - Lower than expected mortality (94 deaths at 6.3 yrs median follow-up)
  - Would take 20+ years to complete at target accrual

- Adjuvant systemic therapy (ctx or endo) given to most women
  - 96% in ALND group
  - 97% in SLND group
- WBI given to most women
  - 88.9% in ALND group
  - 89.6% in SLND group
  - No data on RNI
- Adjusted HR:
  - OS= 0.87 (p= .03)
  - DFS= 0.88 (p= .47)

































