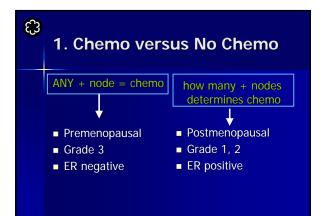
සු

WHEN IS THE POSITIVE SENTINEL NODE NOT **ENOUGH FOR SYSTEMIC THERAPY DECISIONS?**

Caroline Lohrisch Medical Oncologist, BCCA

සු Why send someone with a positive sN back for AXND?

- 1. Chemo vs no chemo decision
- 2. Guides which chemo to give
- Determines the size of RT field
- 4. It may affect survival
- 5. Provides prognostic information



1. C	herr	າດ ທ	s no	che	emo			
predic Numb	ctive fac per of no	tor (for odes and	nostic fac benefit fi I grade a al cancer: (i	rom che re prog	emo) nostic fa	actors		
	1	node posi	tive	5 nodes positive				
	No chx	FEC	Chx/HT	No chx	FEC D	Chx/HT		
40 yo Recurrence BC death	J7.070 J4.770 Z2.070 J7.370 J07.70 Z4.470							
60yo Recurrence BC death	56% 33.7%	44.2%	30.3%	65.6% 43.3%	46.5% 29.5%	32.1%		

1. Chemo versus No Chemo									
Node positive postmenopausal ER+ patients Multiple trials of chemo + Tam vs Tam: 3 show OS advantage									
Trial	Design	%DFS diff	% OS diff	population					
		-	E.	menopausal					
INT 10) CAF/tam v tam	9	5	Inchopudsu					
INT 10 PACS 0	3	9 Hz 0.67	5 4*	Pre and pos up to age 65					

ස

- 1. Chemo versus No Chemo
- Would AXND potentially alter your decision to give chemotherapy (vs no chemo) for a ductal cancer, 2.3 cm grade 2, ER 2+, her2neu -, no LVI, one sentinel node + of 2 with a 4mm deposit in a:

	Yes	No
40 year old	3	6
50 year old	4	5
60 year old	8	1
70 year old	5	4

Number of respondents: 9 of 15

³ 2. Which chemo to give								
Chemo	%1-3 NP	% MenoP	% >60	Upper age limit	5) DFS	y OS	Non Heam Gr3, 4 tox	%G3,4 neut
AC ²	56	21	0	59	62	83	35 n/v	4 / NR
FEC100 ⁶ FEC100 ³	61 17	49 NR	53	64 64	73 66	87 77	10 n/v 35 n/v	20 / 1 25 / NR
AC T ⁴ AC T ⁸	46 70	40 48	13 19	none none	70 70	80 85	mucositis PNS	11(17) <u>3/3</u>
CAF ⁵	58	100	*32	none	76	84	20 n/v	44 /NR
FEC D ⁶	62	50		64	78	91	10 nails	11/5
TAC ⁷	62	50	NR	70	75	87	10 nails asthenia	65/25
	* %>65yo ² NSABP B15 · ³ FASG JCO 01· ⁴ CALGB9344· ⁵ INT100· ⁶ PACS01: ⁷ BCIRG001· ⁹ B28							

¢	2. Which chemo to give									
	 Would your chemo regimen be altered by AXND following lumpectomy and SNB for a 1.9cm grade 3, ER -, her2neu -, no LVI, one sentinel node + of 1 with a 2mm deposit in a: 									
		Yes No Maybe								
	40 year old	6	2	1						
	50 year old	5	1	1						
	60 year old	4	4	1						
	70 year old	3	5	1						
	Number of responden	its: 9 of 15								

3. Determines the size of RT field

Radiation Field options:

- Breast tangents only (BCT)
- Chest wall only (Mastectomy)
- Breast/chest wall plus low axilla
- Breast/chest wall plus full axilla
- Breast/chest wall plus axilla, supraclav
- Breast/chest wall plus axilla, supraclav, internal mammary chain

3. Determines the size of RT field

Factors which determine who needs RT and how much:

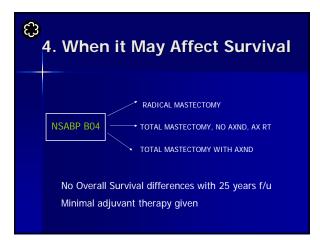
INTENT: LOCAL CONTROL

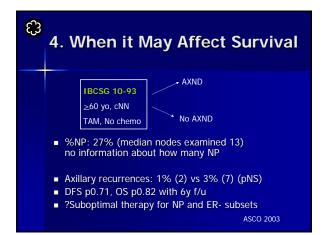
- Breast surgery
- LVINumber and size of nodal deposit
- Extranodal spread
- Age of patient
- Location of the primary
- INTENT: LOCAL +/- DISTANT
 Number and size of nodal deposits
- Extranodal spread
- Age of patient
- Location of the primary (internal mammary drainage)

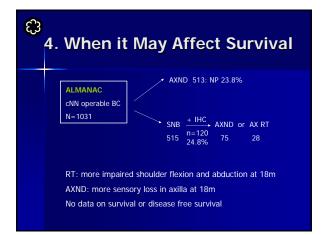
3. Determines the size of RT field

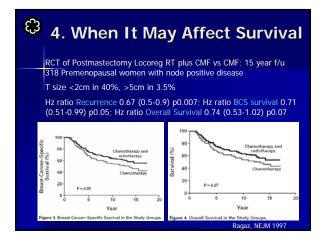
 Do you think that axillary dissection might change the extent of radiation field following lumpectomy and SNB for a 2.0cm grade 3, ER-, her2neu -, LVI +, one sentinel node + (of 1) in a:

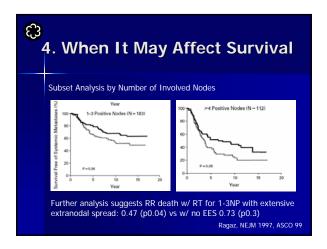
	2mm deposit			1cm deposit		
Size of sN deposit	Yes	No	Maybe	Yes	No	Maybe
40 year old	10	0	0	9	0	1
50 year old	9	0	1	8	0	2
60 year old	8	0	1	8	0	2
70 year old	6	2	2	7	3	0

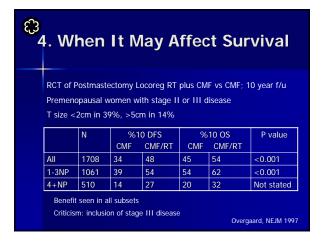


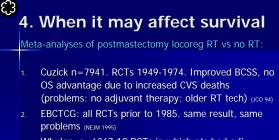




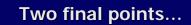








 Whelan. n=6367 18 RCTs in which pts had adj therapy. Showed reduced locoregional failure Odds 0.25 (0.19-0.34); reduced mortality Odds 0.83 (0.74-0.94) Problems: follow up short for secondary cardiac events; but RT safer (JCO 2000)

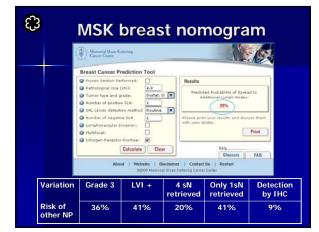


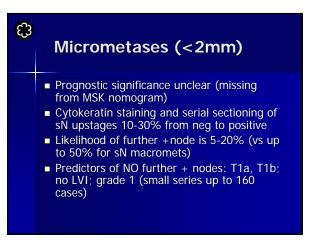
සු

සු

- The number of sentinel nodes removed and the proportion that are positive matters
- Micrometases vs macrometases (method of detection, processing the sentinel node)







Micromets Dilemma

- 80-90% no further + nodes: they need neither AXND nor AX RT. +/- chemo (age, ER, grade)
- 10-20% have further nodal mets: the extent of RT and chemo may be dictated AXND findings
- SO: Dissect in 100 for the 10-20 in whom treatment may change and for whom it MAY be therapeutic , OR radiate in 100 for whom 10-20 may benefit (with loss of prognostic info)
- OR forgo AXND AND RT to avoid the toxicity in 80 although it *might* affect outcome in 20?

ONGOING TRIALS to determine the worth of:

- post AXND RT vs nil (pN+):
- MA20; AMAROS-EORTC
 SNB v AXND (pN0):
- NSABP B32; KiSS ; Milan
- SNB v AXND:
- ACOSOG ZOO11 (1-2+nodes, IHC); IBCSG 23-01 (Micromets only)
 AXND vs RT:
- (ALMANAC)
- Micromets Prognostic import:
 ACOSOG Z0010

Conclusions

සු

- Since B04, IBCSG10-93... Systemic therapy has improved
- This may reduce or augment the therapeutic impact of axillary clearance (+RT) for sN positive disease...
- New chemotherapy choices come with toxicities which are not appropriate for everyone...

Conclusions

What will help us grapple with the evolving need for AXND with a + sN:

- Trials of AXND vs AX RT

සු

- Trials of locoregional RT vs no RT after AXND (for 1-3, 4+ positive nodes)
- Better predictors of no further nodes +
- Whenever possible, >1 sN retrieved
- Better understanding of prognostic import of micrometases

Conclusions But until we have MORE information: We will continue to struggle when a pt with a positive sentinel node has not had an AXND.... And we'll probably keep sending them back to you...at least some of them

