

# **Treatment Strategies for Early Stage Breast Cancer: Past, Present, and Future**

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# The Plan

- A brief look back
- The progress we have made, and state of the science today
- A look into the future

# Breast Cancer: circa 1990 in the U.S.

- 150,000 cases and 44,300 deaths
- Seen as single monolithic disease
- Most cancers presented as lump/mass
- Extensive surgery often performed and resulted in psychological and physical distress
- Adjuvant chemotherapy and hormonal therapy were recent additions to treatment approach

# Progress Over the Past 25 Years

## A Few Comments About Local Therapy

- Less extensive surgery to breast
  - Widespread acceptance of conservative surgery and radiation, though still underutilized
  - Less extensive axillary surgery – in patients with and without axillary involvement
- Reduction in late radiation toxicity and more convenient fractionation schedules
- More rational use of radiation – with appropriate increase and reduction in use in selected patients
- Improvement in reconstructive surgery
- Greater individualization based on stage, subtype, and patient preferences

# NCI Consensus Conference: 2001

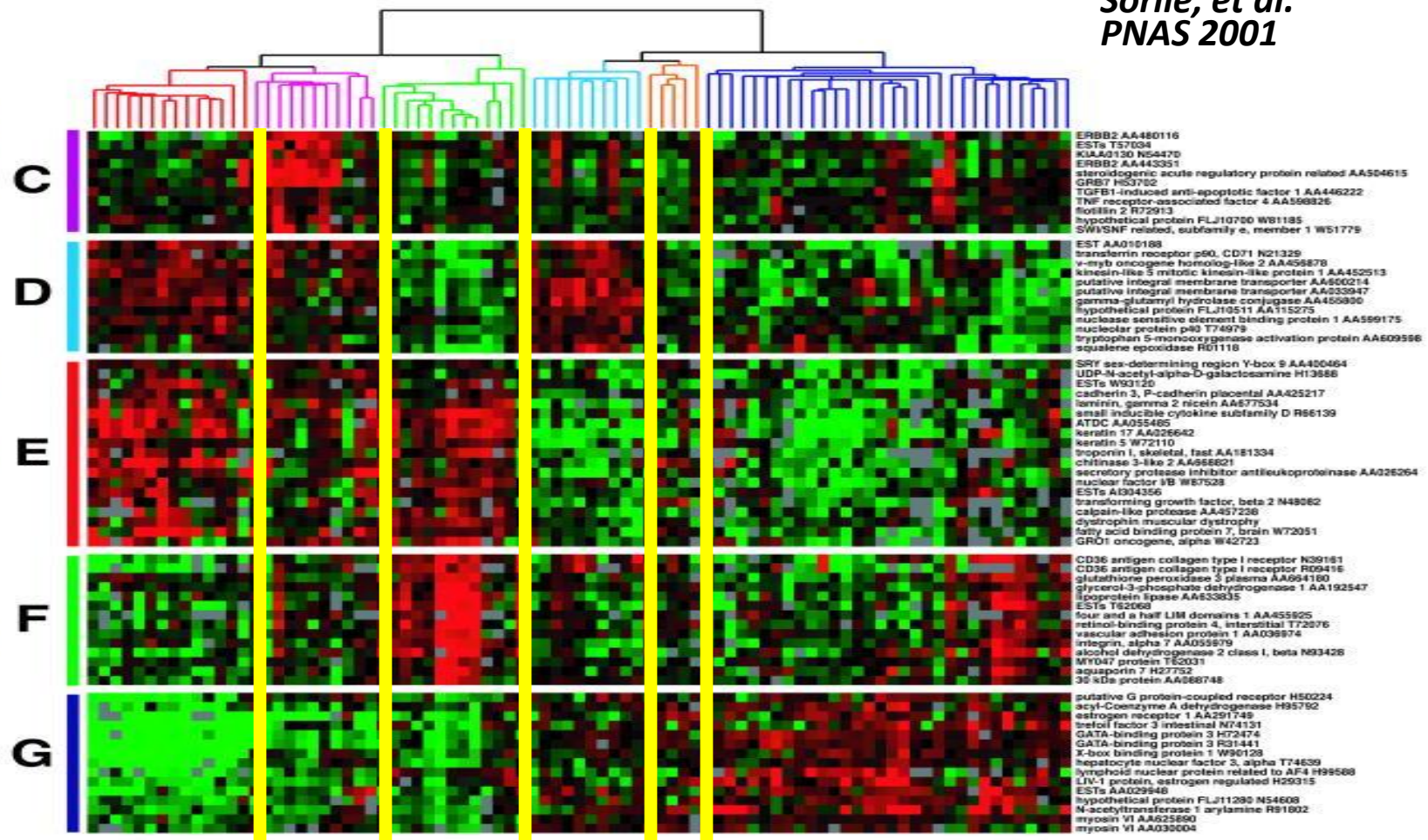
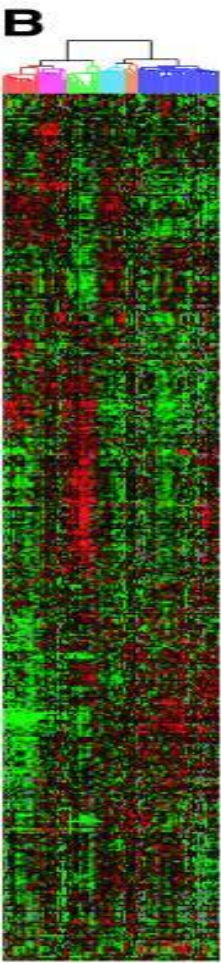
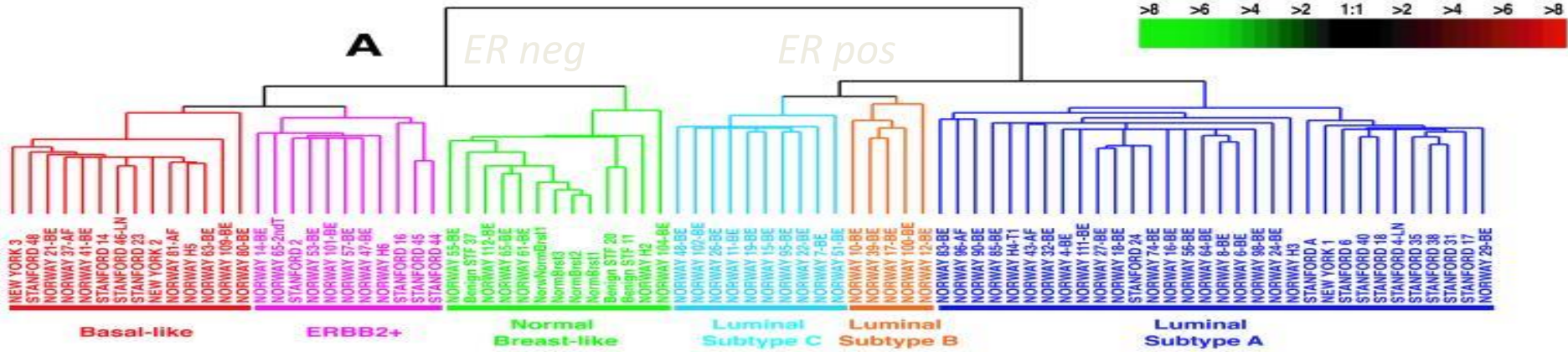
## Little Variation in Treatment Among Patients

- All women with tumors > 1 cm with or without nodal involvement should receive adjuvant chemotherapy
- As a result, vast majority of patients were treated with chemotherapy, often with considerable toxicity
- Only endocrine treatment was tamoxifen which was added to all patients with ER+ tumors
- There was no adjuvant anti-HER2 therapy

# Three Major Changes That Have Changed The Approach to Systemic Therapy

- Understanding of heterogeneity across breast cancer – prognosis varies by subtype
- Recognition that benefits of treatment track with subtype
- Development of targeted therapeutics, particularly for HER2+ disease

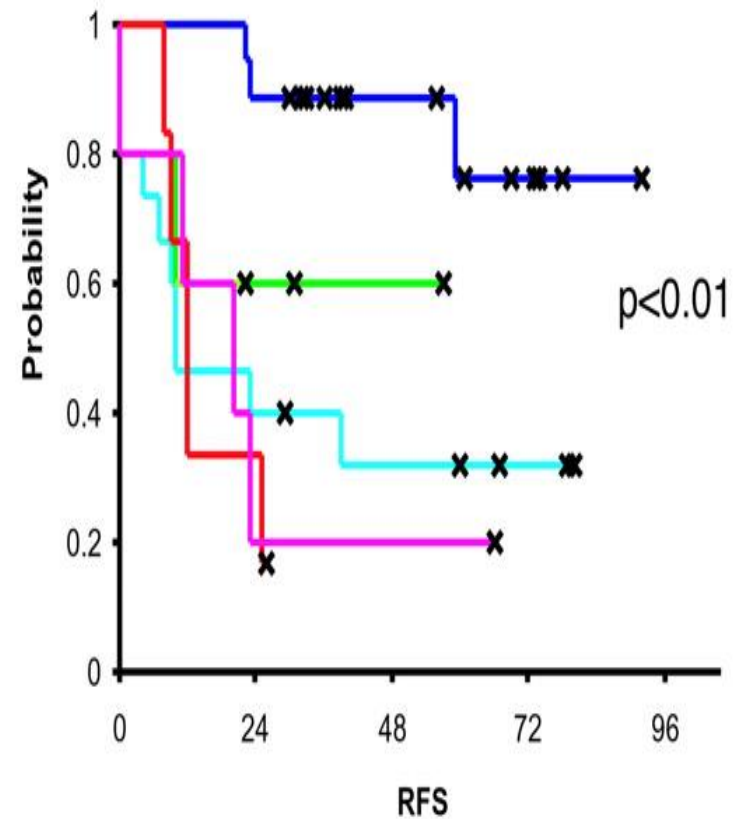
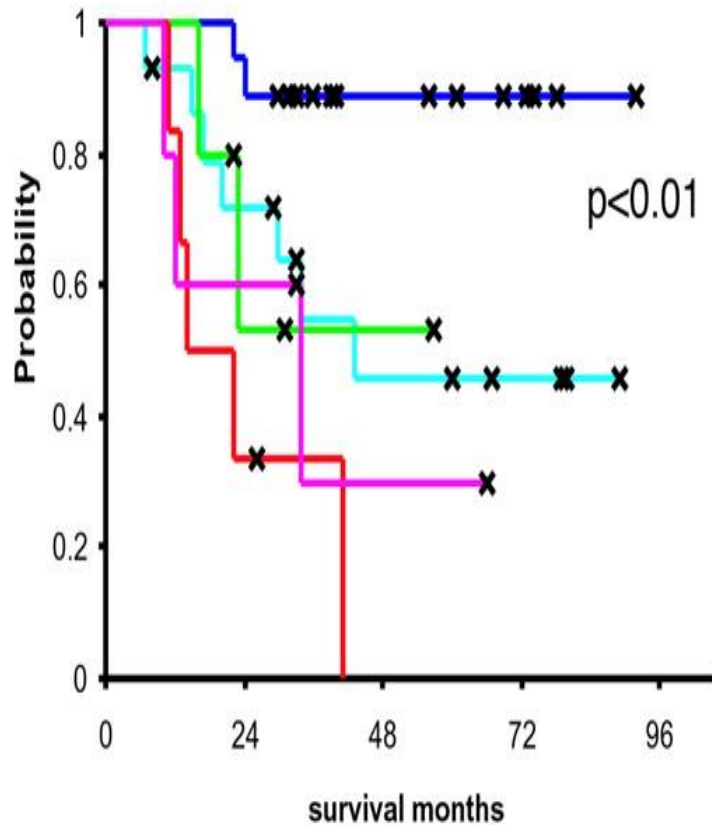
**HETEROGENEITY**



Sorlie, et al.  
PNAS 2001



# Overall and Relapse Free Survival by Tumor Types Defined with Gene Expression Patterns



X Censored, ■ Lum A, ■ Lum B+C, ■ NorB-like, ■ Basal., ■ ERBB2+

# Breast Cancer is a Family of Diseases

- Convergence of clinical and genomic data
- Still uncertain how many members of
- At a minimum:
  - HER-2 +
    - HER-2 enriched
    - Luminal
  - Basal-like or triple negative
    - Several
  - Luminal (ER-positive)
    - Luminal A

WE WILL RETURN TO THE CONCEPT OF HETEROGENEITY LATER IN THE TALK, THAT IS HETEROGENEITY WITHIN SUBTYPES

“Basal-like”  
ER/PR-negative  
HER2-negative

HER2-positive

ER-positive  
Luminal B  
*High Grade*

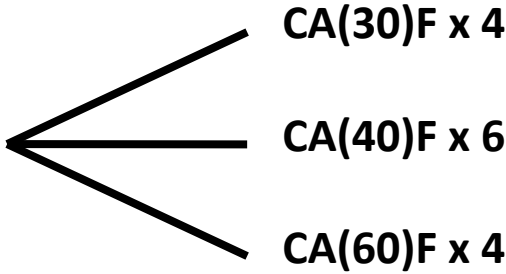
ER-positive  
Luminal A  
*Low Grade*

# Reduction in Breast Cancer Recurrence from Chemotherapy by Age and Receptor Status

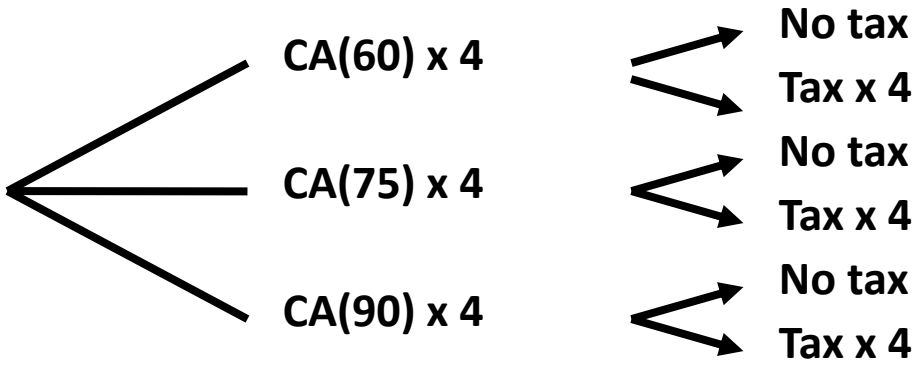
Patient Population	#	% Node Positive	Absolute Gain
< 50, ER-poor	1757	20%	13.2% p<0.00001
< 50, ER+ tamoxifen	2254	34%	7.6% p<0.00001
50-69 ER- poor	4071	67%	9.6% p<0.00001
50-69, ER+ tamoxifen	11,333	73%	4.9% p<0.00001

# Impact of ER Status and on Benefits of More Effective Chemotherapy

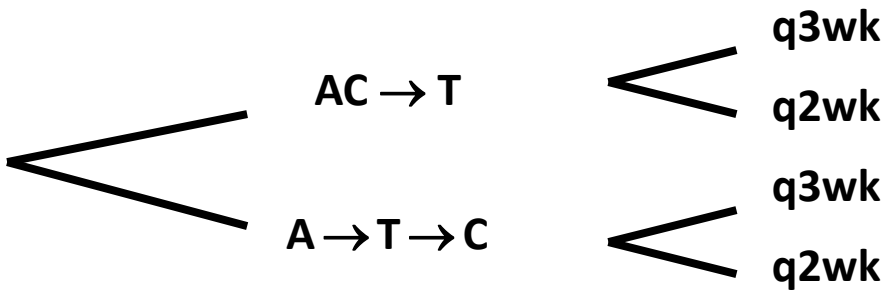
**CALGB 8541**  
**1985-1991**  
**1550 pts**



**CALGB 9344**  
**Int 0148**  
**1994-1996**  
**3121 pts**



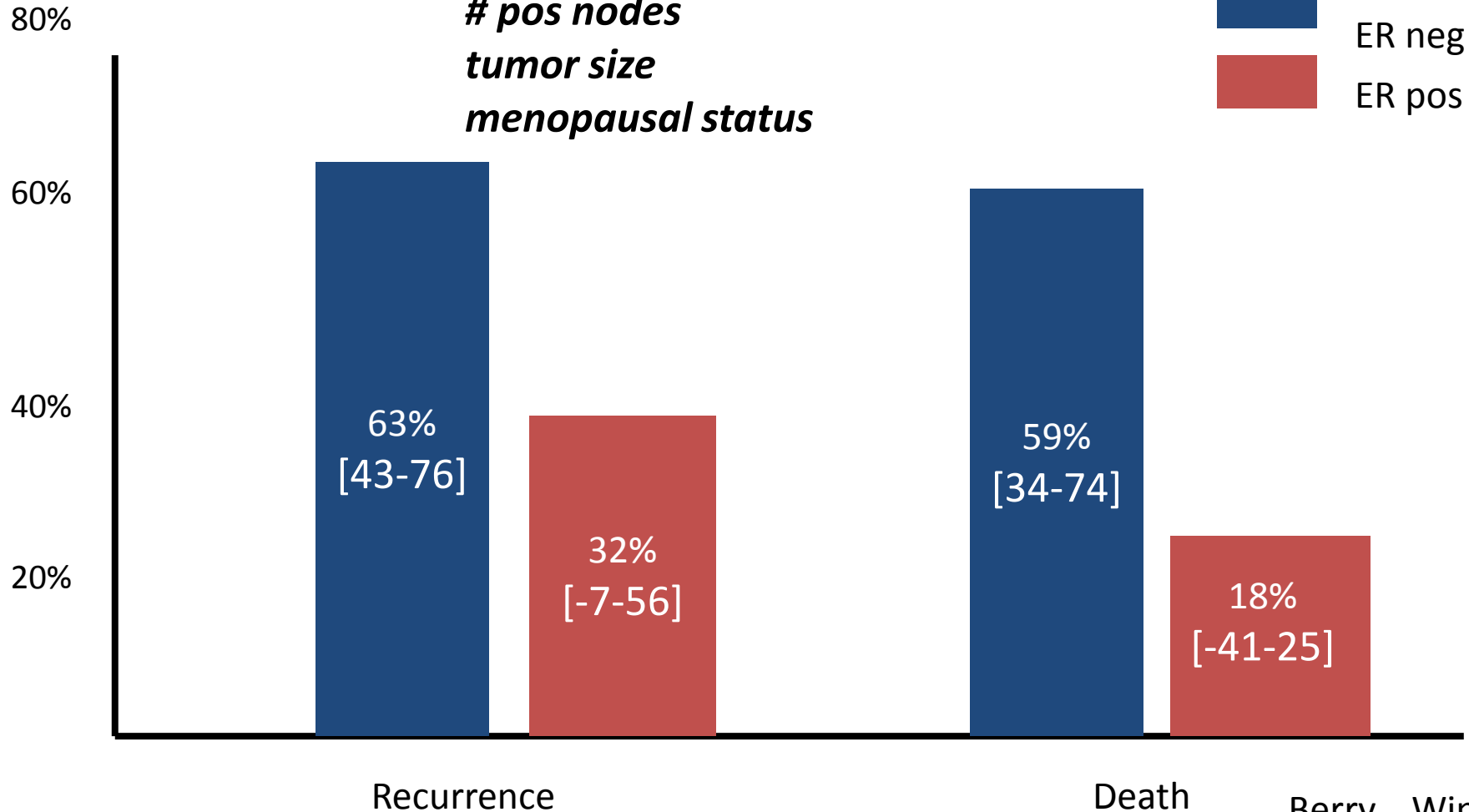
**CALGB 9741**  
**Int C9741**  
**1997-1995**  
**2005 pts**



# Reduction in Hazards (Lower Dose CAF → Dose Dense AC-T)

*Adjusted for:*  
*# pos nodes*  
*tumor size*  
*menopausal status*

ER neg  
ER pos



Berry...Winer;  
JAMA 2005

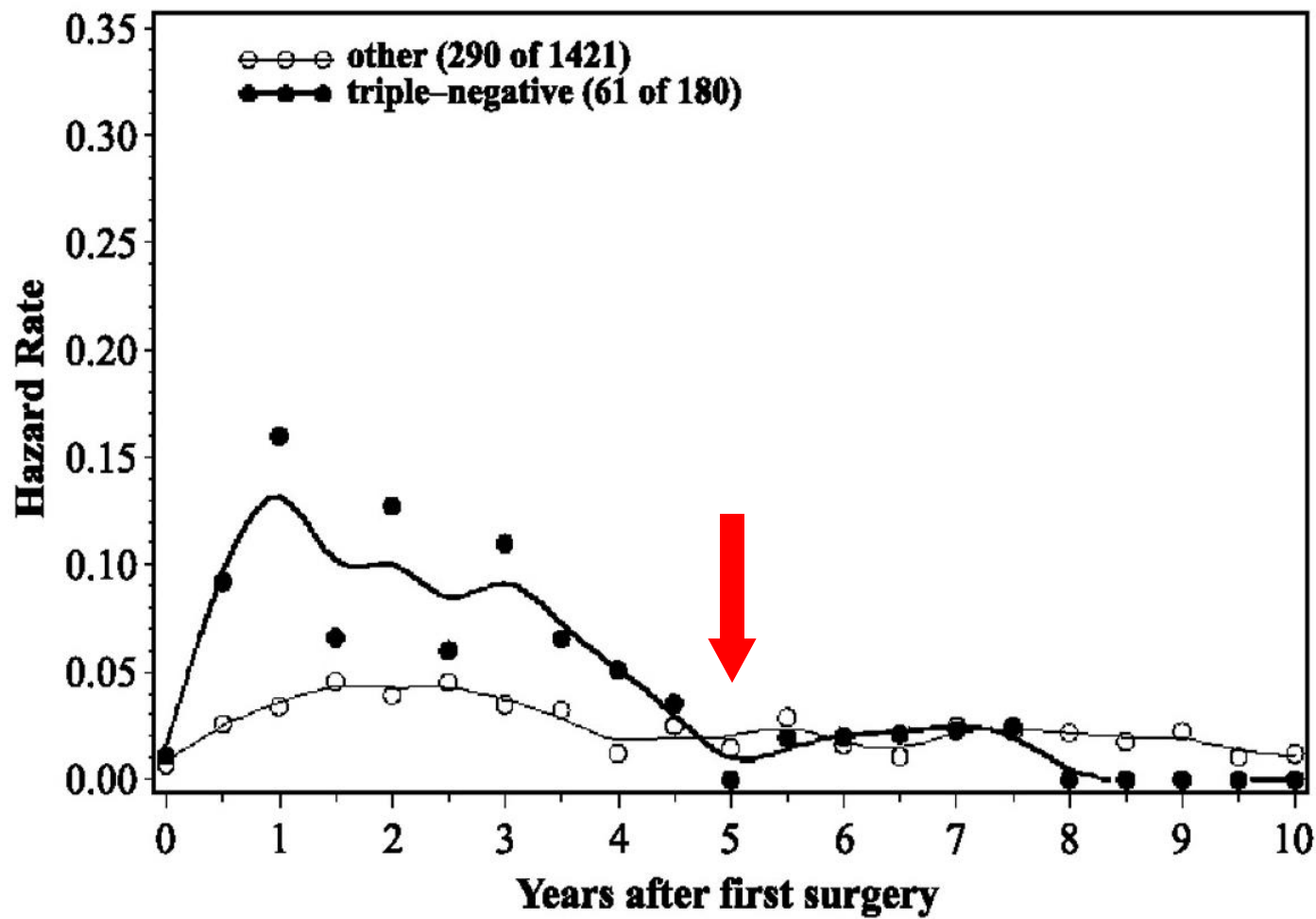
# Prevention of Recurrence is Now Subtype Dependent

- Triple Negative
- ER+/HER-
  - Low grade (Luminal A)
  - High grade. (Luminal B)
- HER2+

***Why get it right?***

***Still over 40,000 deaths per year from breast cancer in U.S. and >500,000 worldwide***

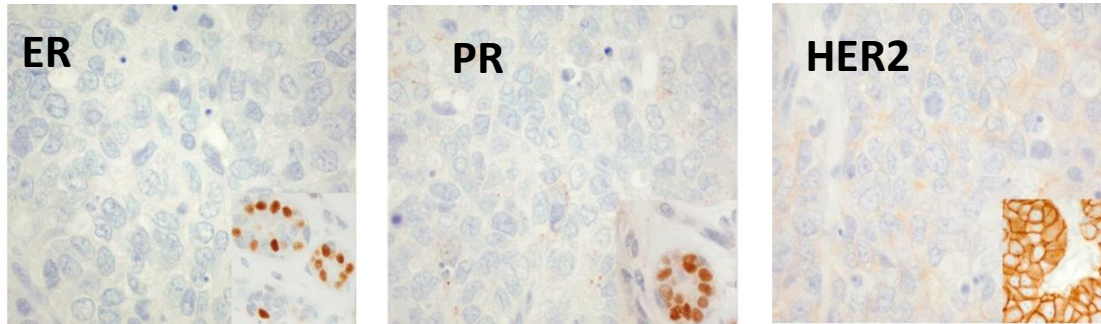
# Timing of TNBC Recurrence is Early



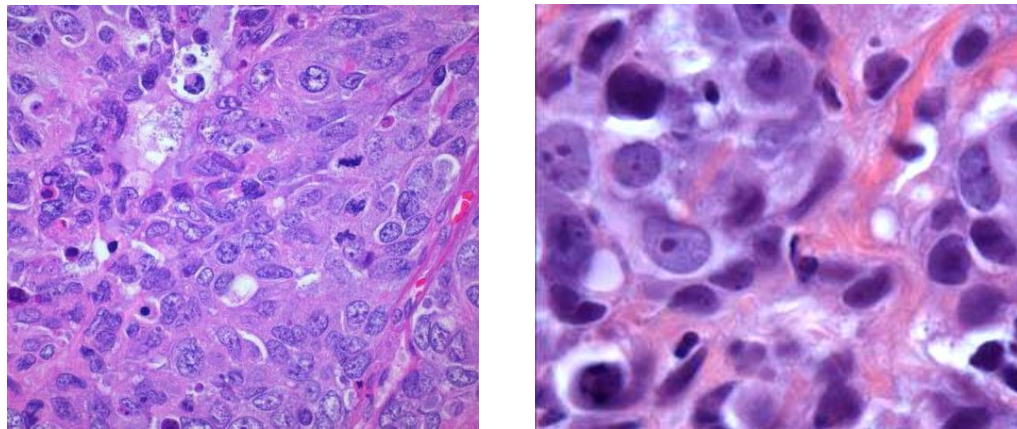
Rates of distant recurrence following surgery in triple-negative vs other breast ca

# What is Optimal Therapy for Early TNBC?

## Immunohistochemistry



## High grade ductal



- ER and PR <1% nuclear with positive normal breast internal control

- HER2 “negative” is 0 or 1+ staining or 2+ staining with negative FISH – usually HER2 is 0

- Rarely lobular



# ***Adjuvant = Neoadjuvant***

**Purpose of Neoadjuvant Therapy is  
Given to Minimize Extent of  
Surgery and to Decrease Risk of  
Disease Recurrence**

**Neoadjuvant Therapy Should Never Be  
Given If There Is a Question About the  
Need for Adjuvant Treatment**

# A Sequential Antracycline-Taxane Combination is the Standard of Care for Moderate-Risk TNBC

## NSABP-B30

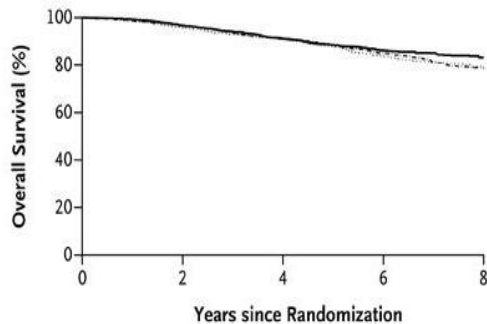
### AC-T x 8 vs AT x 4 vs TAC x 6

### POSSIBLE REGIMENS

1. AC-paclitaxel (dose dense)
2. AC- paclitaxel (weekly)
3. AC-docetaxel (every 3 weeks)
4. FEC-docetaxel

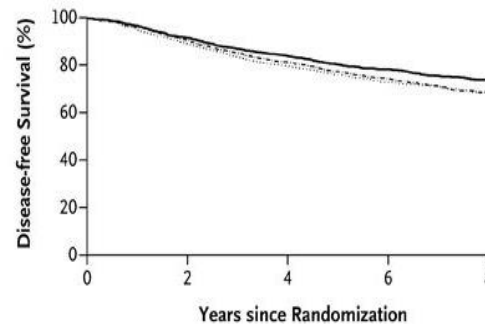
**A**

	No. of Patients	No. of Events	Hazard Ratio	P Value
— Sequential ACT	1753	240	0.86 vs. concurrent ACT	0.09
			0.83 vs. doxorubicin-docetaxel	0.03
— Doxorubicin-docetaxel	1753	285		
- - - Concurrent ACT	1758	278	0.96 vs. doxorubicin-docetaxel	0.67



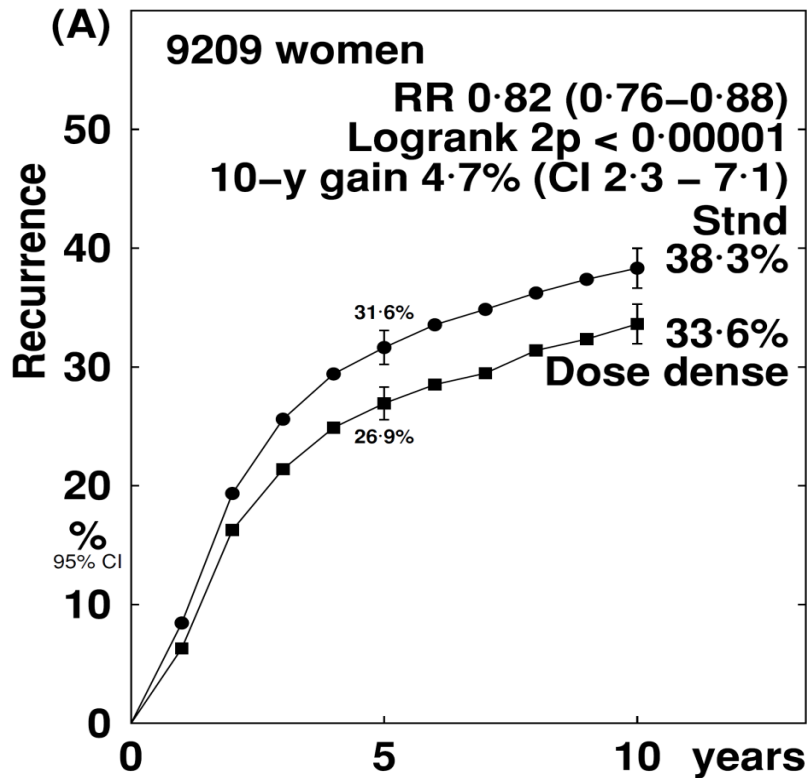
**B**

	No. of Patients	No. of Events	Hazard Ratio	P Value
— Sequential ACT	1753	388	0.83 vs. concurrent ACT	0.01
			0.80 vs. doxorubicin-docetaxel	0.001
— Doxorubicin-docetaxel	1753	468		
- - - Concurrent ACT	1758	457	0.96 vs. doxorubicin-docetaxel	0.58

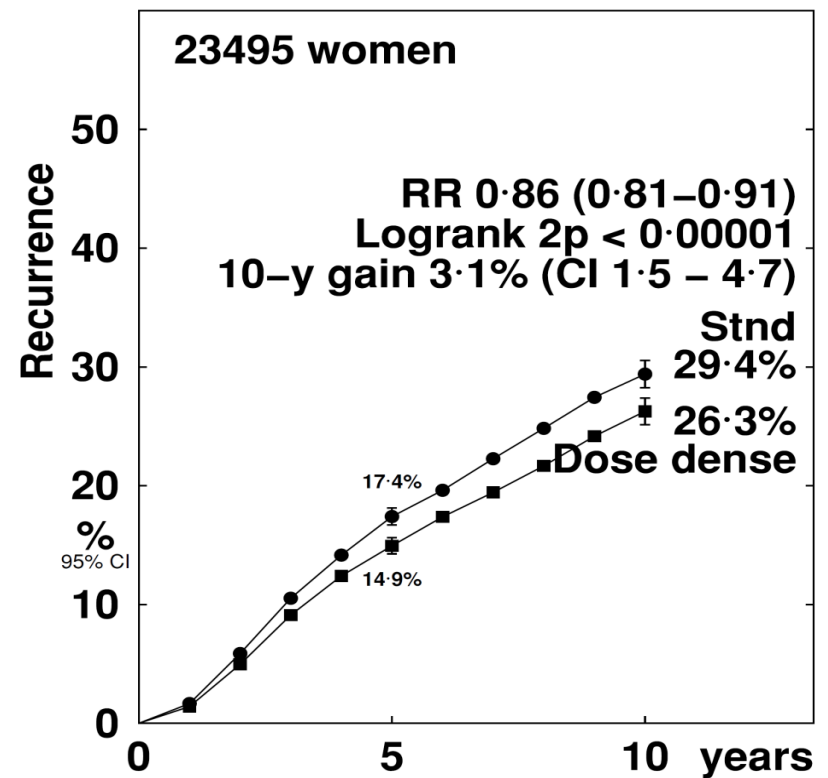


# Pooled Analysis of Dose Dense vs Not Fewer Recurrences with Dose Dense Approach

## ER Negative



## ER Positive



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# AC-T vs TC: Results

	Pts		Events		4 yr IDFS		4 yr IDFS	HR (95% CI)
	TaxAC	TC	TaxAC	TC	TaxAC	TC	Delta	
<b>ER/PgR (-)</b>								
N-	459	488	37	52	89.5	87.0	2.5%	1.31 (0.86-1.99)
1-3 N+	153	119	21	28	85.5	74.6	10.9%	1.58 (0.90-2.79)
4+ N+	42	40	11	16	71.8	60.8	11.0%	1.34 (0.62-2.91)
<b>ER or PgR (+)</b>								
N-	358	378	29	22	91.5	94.2	- 2.7%	0.69 (0.39-1.19)
1-3 N+	771	789	46	53	94.3	92.3	2.0%	1.14 (0.77-1.69)
4+ N+	279	280	35	49	87.2	81.4	5.8%	1.46 (0.95-2.26)

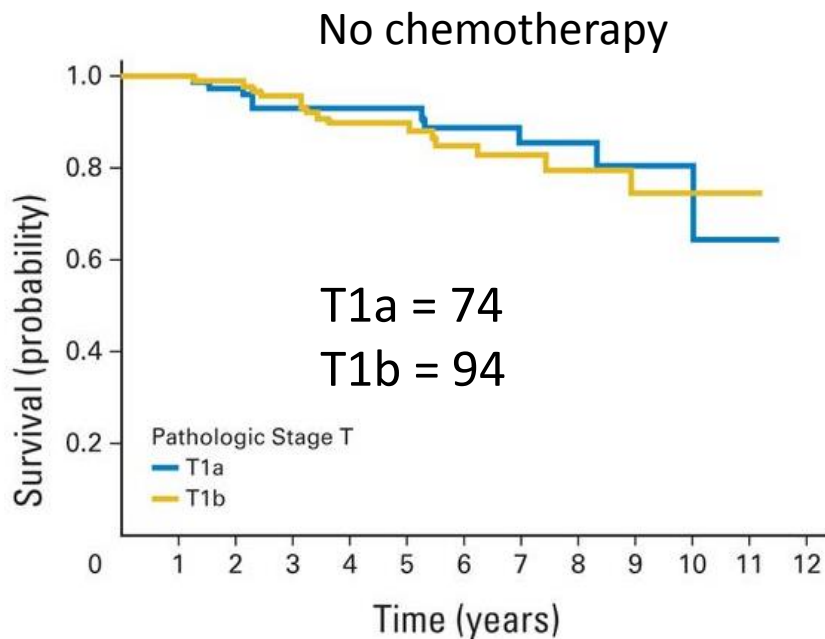
*Suggests all groups aside from ER+ N0 benefit from A-containing regimens, especially ER- N+*

# Should Stage Affect the Choice of of a Treatment Regimen?

*What is the optimal treatment for small,  
node negative TNBC tumors?*

*Do all patients need to be treated with AC-T?*

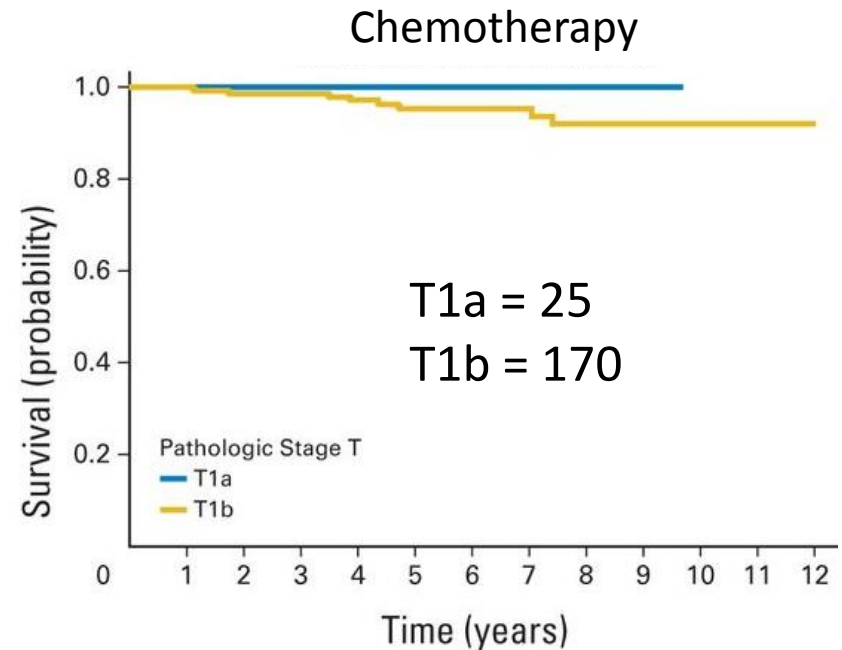
# Outcome in National Comprehensive Cancer Network Distant Relapse Free Survival HR-HER2-



No. at risk	0	1	2	3	4	5	6	7	8	9	10	11	12
T1a	74	-	72	65	58	44	36	28	20	10	5	3	0
T1b	94	-	90	83	68	59	46	29	22	15	6	3	0



**T1a 5- year estimate : 93% (84-97)**  
**T1b 5-year estimate : 90% (81-95)**



No. at risk	0	1	2	3	4	5	6	7	8	9	10	11	12
T1a	25	-	24	20	17	14	8	5	3	1	0	-	-
T1b	170	-	162	142	121	96	78	60	41	26	15	6	1



**T1a 5- year estimate : 100%**  
**T1b 5-year estimate : 96% (90-98)**

# Options for Stage 1 TNBC

- Chemotherapy treatment options for low risk disease:
  - 1) simple regimen (AC, TC, CMF)
  - 2) sequential anthracycline/taxane

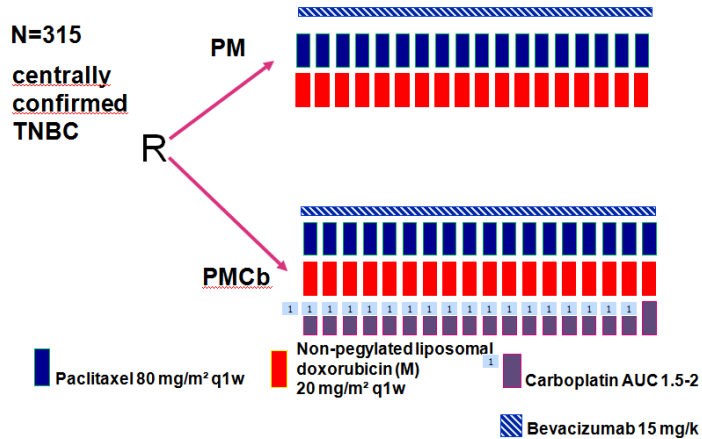
	Enthusiasm for Chemotherapy	Possible Regimens
<b>Microinvasion only</b>	<b>Virtually none</b>	<b>---</b>
<b>T1a</b>	<b>Low to moderate</b>	<b>Simple</b>
<b>T1b</b>	<b>Moderate to high</b>	<b>Simple</b>
<b>T1c</b>	<b>High</b>	<b>Simple or selectively sequential approach</b>

**Is There a Role for Platinum  
Chemotherapy in the Neo/Adjuvant  
Management of Triple Negative  
Breast Cancer?**

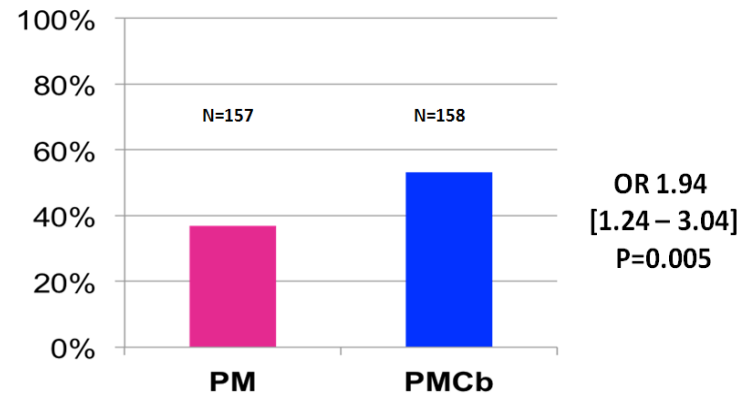


# Randomized Trials of Preoperative Platinum Chemotherapy for TNBC

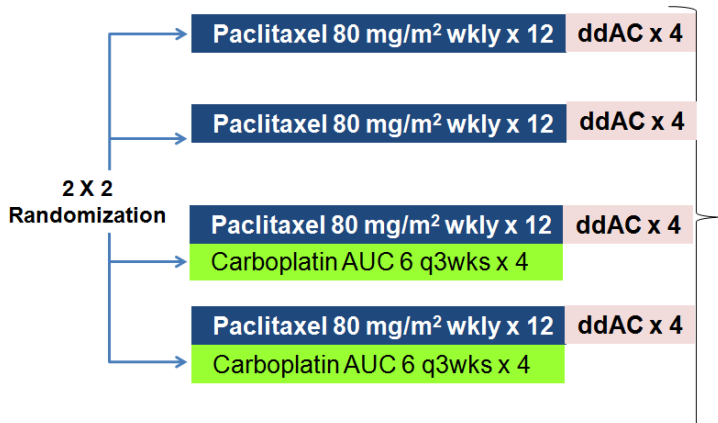
## GerparSixto Schema



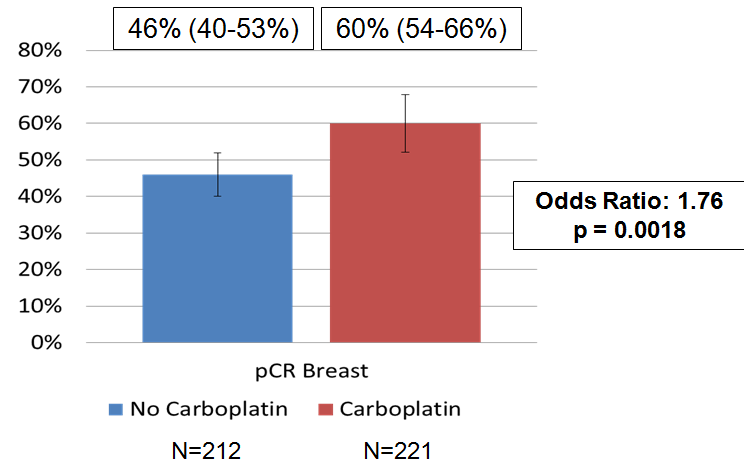
## GerparSixto pCR: platinum vs not



## CALGB 40603 Schema

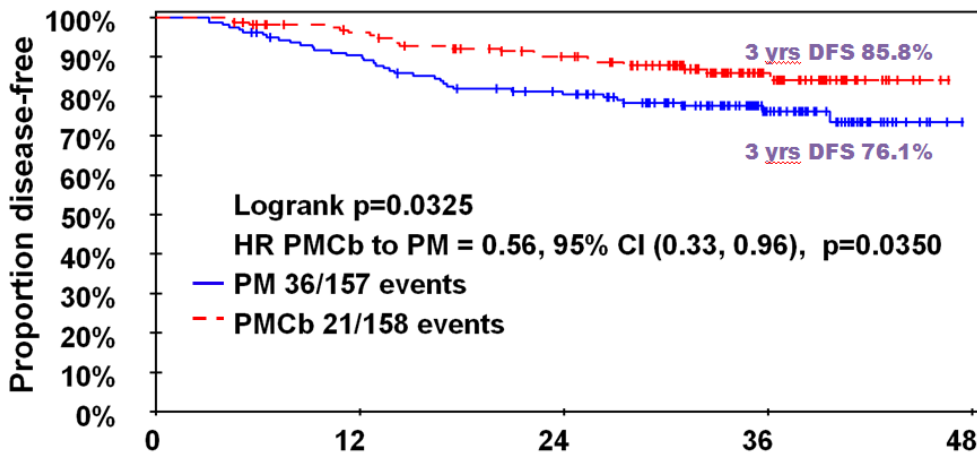


## CALGB pCR: platinum vs not

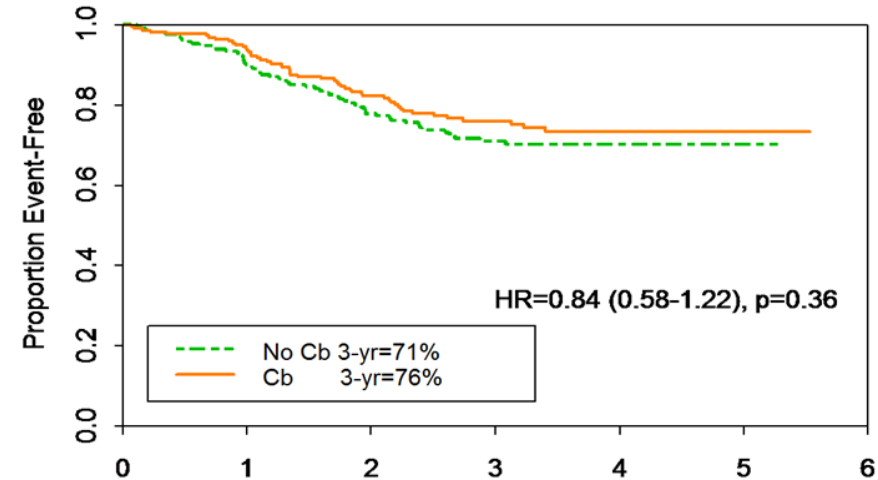


# Does Addition of Preoperative Platinum Improve Survival Outcomes for TNBC?

**GeparSixto 3Y DFS:  
Improved with Carbo**



**CALGB 40603 3Y EVS:  
Not Improved with Carbo**



- Mixed results on survival benefits from preop platinum in TNBC
- Achieving pCR is a good surrogate for long-term outcomes on a patient level
- No evidence that pCR rates can be used as a surrogate for survival on a trial level to compare regimens in TNBC

# Is Carboplatin Ready for Primetime in Unselected TNBC in the Adjuvant or Neoadjuvant Setting?

**NO**

- Need definitive improvement in DFS and/or OS
- If platinum is ultimately used, should it be added to standard therapy or substituted for one or more drugs?
- Are there triple negative subtypes that are particularly sensitive to platinum, ie biomarker driven?

# ER+ Disease: Hormonal Therapy

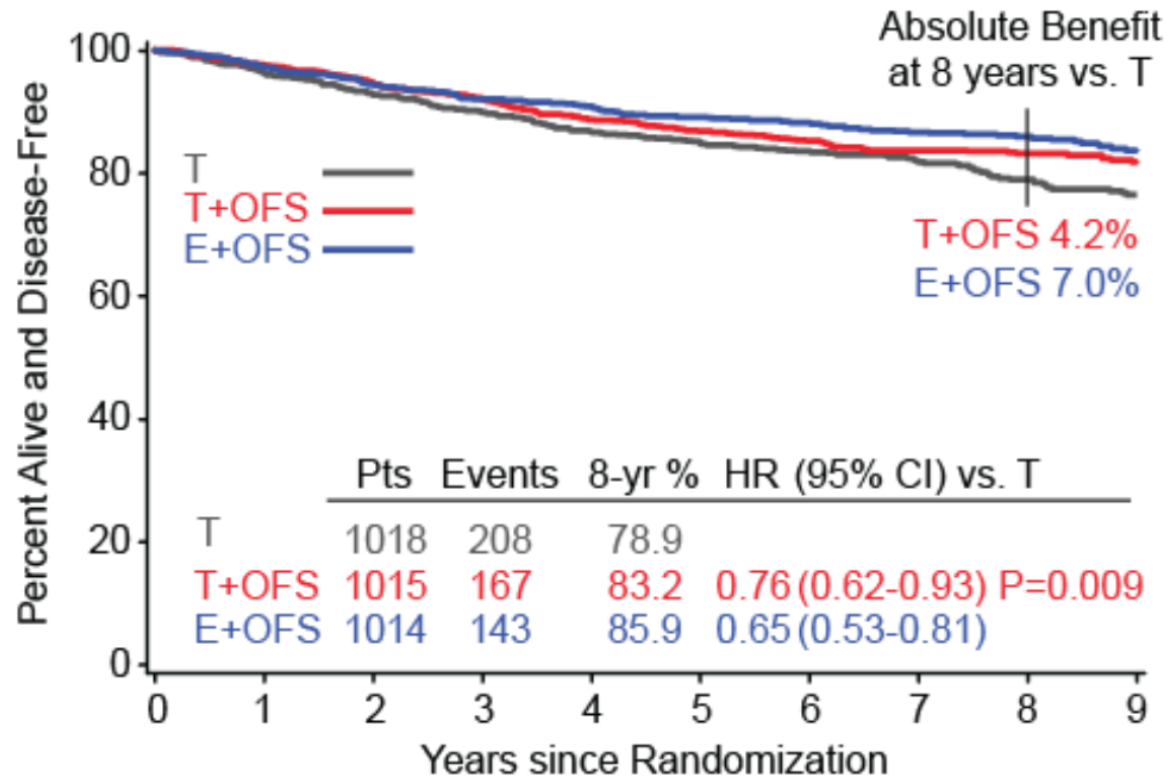
- Premenopausal
- Postmenopausal
- Extended Duration

# Premenopausal

- When to use OS?
- When to use AI?

# SOFT DFS

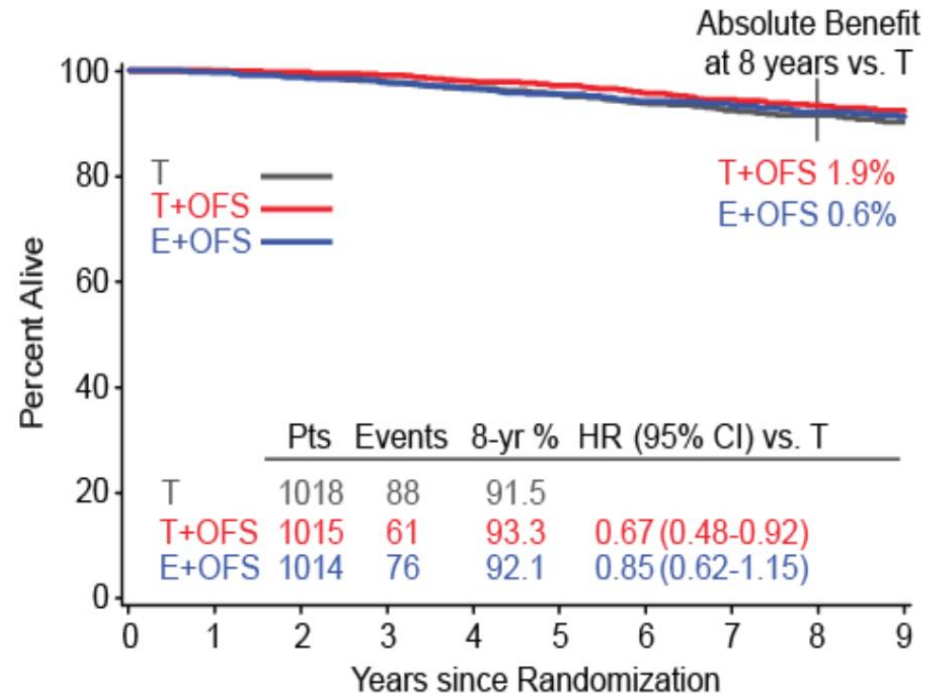
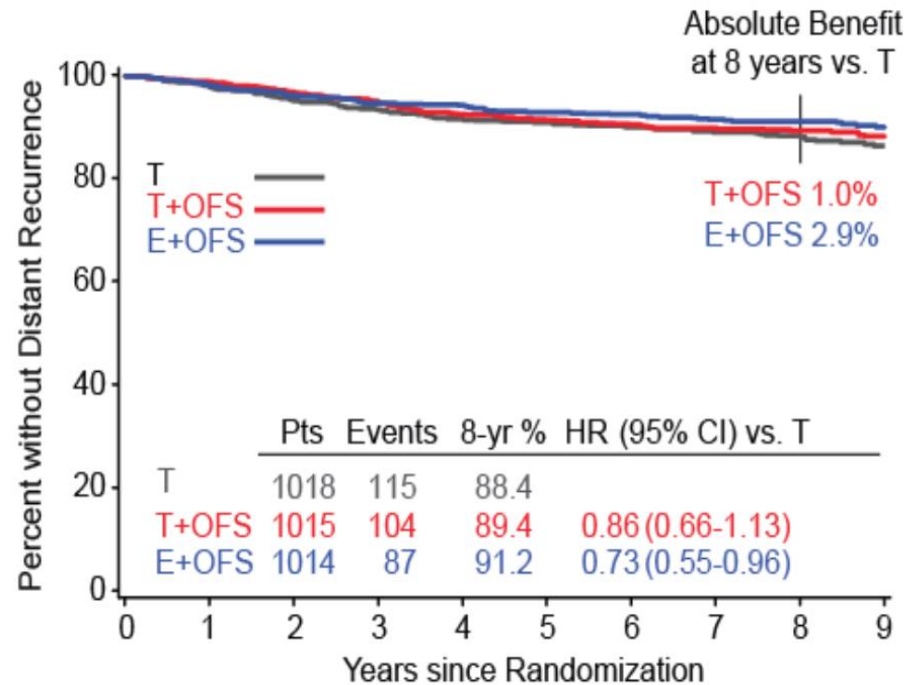
8 years median follow-up



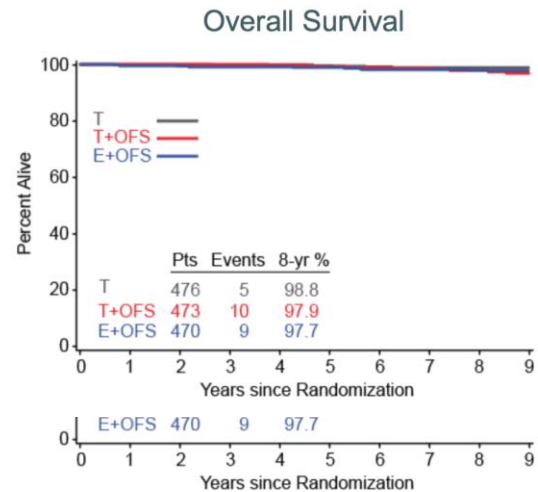
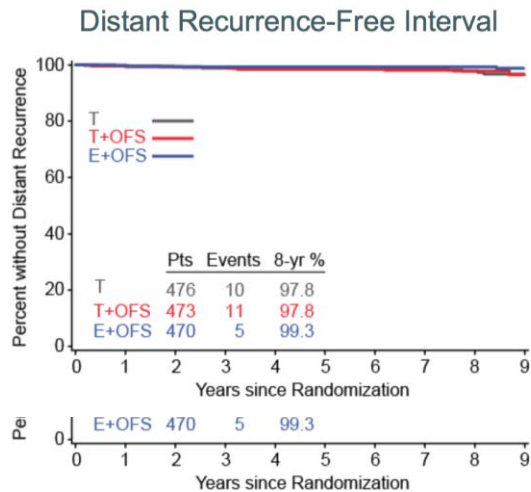
# SOFT Secondary Endpoints

## Distant Recurrence-Free Interval

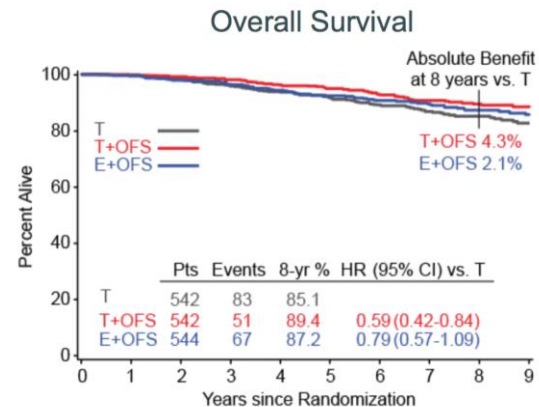
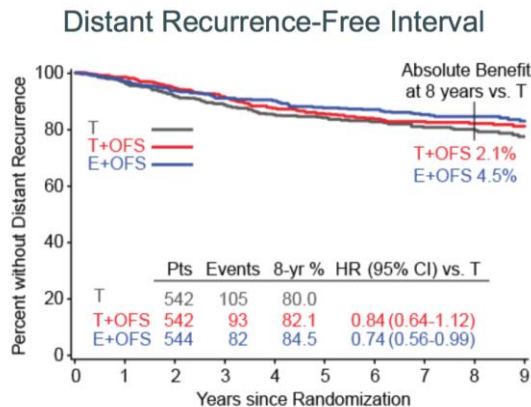
## Overall Survival



# SOFT Secondary Endpoints: No Chemo



# SOFT Secondary Endpoints: Chemotherapy





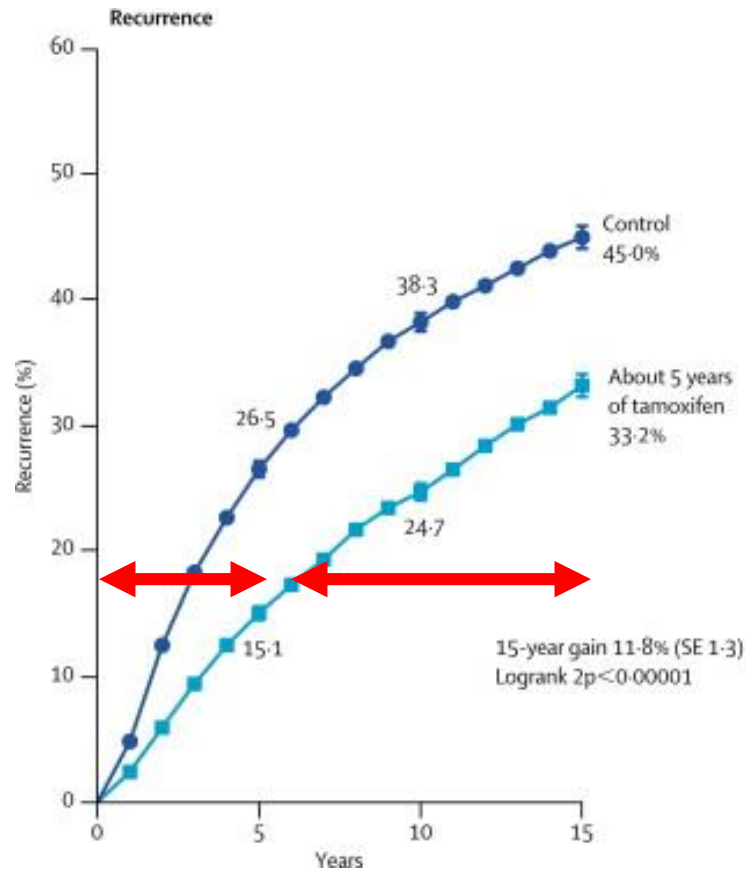
# Who Should Receive Ovarian Suppression +/- AI?

- High risk patients (node positive, larger node negative, higher grade)
- What about choice of OS + tam vs OS + AI
  - OS + AI is challenging treatment – may be best to start with tamoxifen
  - AI can always be substituted, though no data using switch strategy in premenopausal women apart from MA-17

# Postmenopausal

- ASCO Guideline: AI should be given either upfront, after 2-3 years, or after 5 years
- Very high risk patients should start with AI
- Very low risk patients probably fine with tamoxifen
- Side effects need to be considered carefully and managed effectively
- Far better to substitute one agent for another than to risk non-adherence

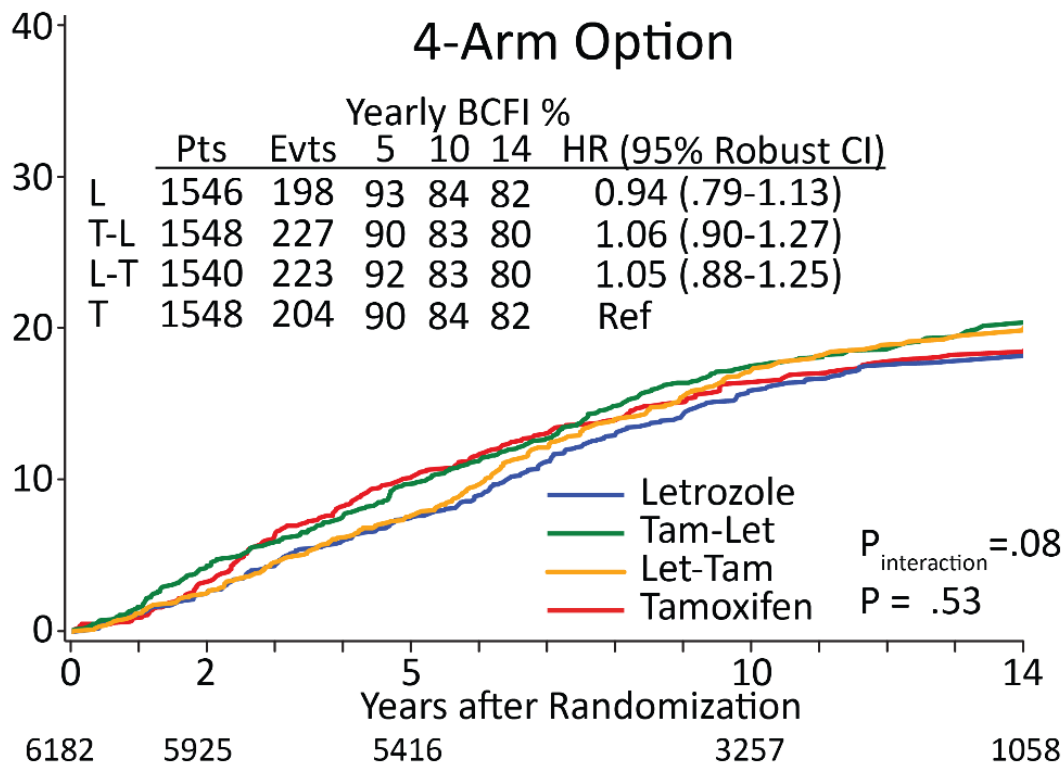
# Effects of Hormonal Therapy for Early Breast Cancer on Recurrence: EBCTCG Analysis



Early Breast Cancer Trialists' Collaborative Group. The Lancet 2005;365:1687-1717.

# BIG 1-98: Long-term Outcomes

## Initially Therapy Has Little Impact on Late Recurrence



Thurlimann B, et al. SABCS 2016

# The Problem of Late Recurrence

## Annual and Cumulative Risk by Subset

Variable	Women Who Were Event-free at 5 Yr		Annual Rate of Distant Recurrence		Cumulative Risk from 5 Yr to 20 Yr
	Total	Chemotherapy Scheduled	5 to <10 Yr	10 to 20 Yr	
	<i>no.</i>	<i>no. (%)</i>	<i>percent</i>		<i>percent</i>
Nodal involvement					
N0	28,847	9,136 (32)	1.0	1.1	15
N1–3	25,292	17,280 (68)	1.9	1.7	23
N4–9	8,784	6,664 (76)	3.9	2.8	38
Tumor diameter in N0 only					
T1a or T1b: ≤1.0 cm	5,527	910 (16)	0.5	0.8	10
T1c: 1.1–2.0 cm	13,875	4,034 (29)	0.8	1.1	14
T2: 2.1–3.0 cm	6,700	2,859 (43)	1.5	1.4	19
T2: 3.1–5.0 cm	2,745	1,333 (49)	1.7	1.4	20
Tumor grade in T1N0 only					
Low	3,524	401 (11)	0.4	0.8	10
Moderate	7,363	1,861 (25)	0.7	1.0	13
High	3,054	1,414 (46)	0.9	1.5	17

**All Patients Cancer Free at 5 Years and Received Adjuvant Tamoxifen**

# Long-term effects of continuing adjuvant tamoxifen to 10 years versus stopping at 5 years after diagnosis of oestrogen receptor-positive breast cancer: ATLAS, a randomised trial



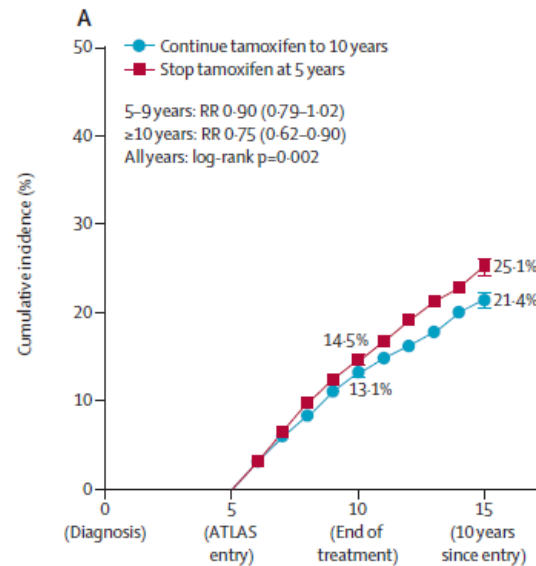
Christina Davies, Hongchao Pan, Jon Godwin, Richard Gray, Rodrigo Arriagada, Vinod Raina, Mirta Abraham, Victor Hugo Medeiros Alencar, Atef Badran, Xavier Bonfill, Joan Bradbury, Michael Clarke, Rory Collins, Susan R Davis, Antonella Delmestri, John F Forbes, Peiman Haddad, Ming-Feng Hou, Moshe Inbar, Hussein Khaled, Joanna Kielanowska, Wing-Hong Kwan, Beela S Mathew, Bettina Müller, Antonio Nicolucci, Octavio Peralta, Fany Pernas, Lubos Petruzelka, Tadeusz Pienkowski, Balakrishnan Rajan, Maryna T Rubach, Sera Tort, Gerard Urrutia, Miriam Valentini, Yaochen Wang, Richard Peto, for the Adjuvant Tamoxifen: Longer Against Shorter (ATLAS) Collaborative Group\*

## Summary

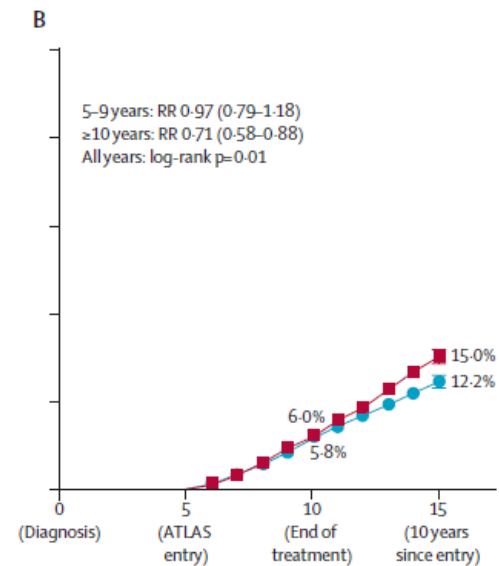
**Background** For women with oestrogen receptor (ER)-positive early breast cancer, treatment with tamoxifen for 5 years substantially reduces the breast cancer mortality rate throughout the first 15 years after diagnosis. We aimed to assess the further effects of continuing tamoxifen to 10 years instead of stopping at 5 years.

Published Online  
December 5, 2012  
[http://dx.doi.org/10.1016/S0140-6736\(12\)61963-1](http://dx.doi.org/10.1016/S0140-6736(12)61963-1)

## Disease-free Survival



## Overall Survival



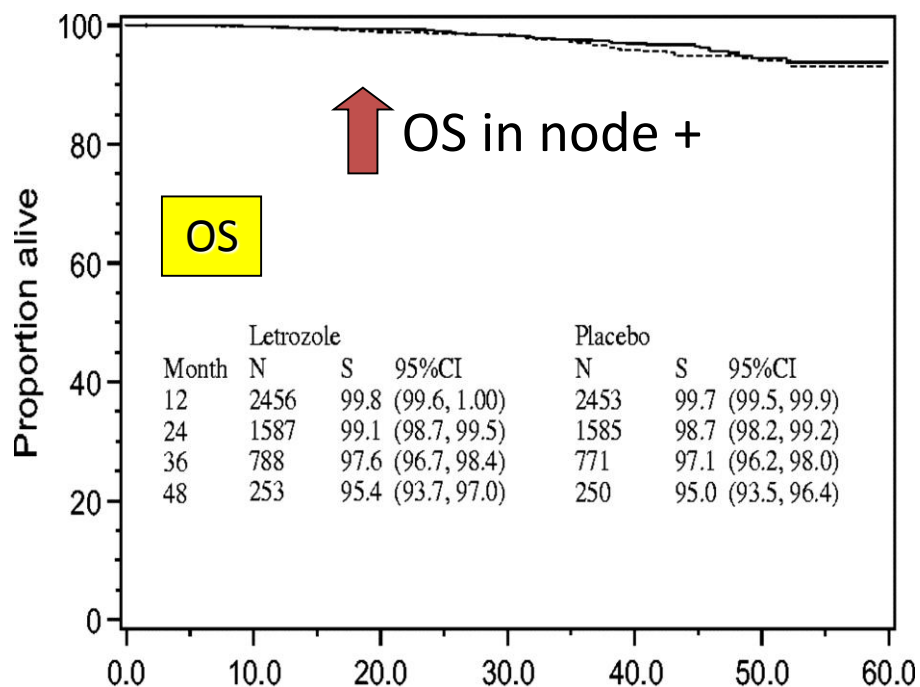
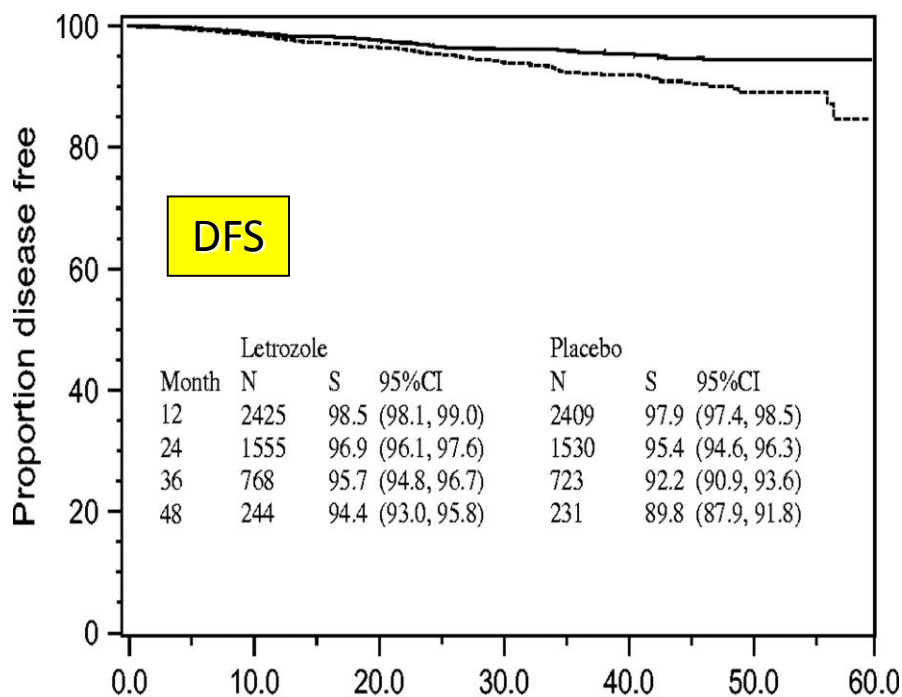
# Extended Letrozole After 5 yrs of Tamoxifen (MA17)

Tamoxifen for 4.5-6 yrs  
 Postmenopausal  
 N=5,187

PLACEBO

*5 yrs rx planned*

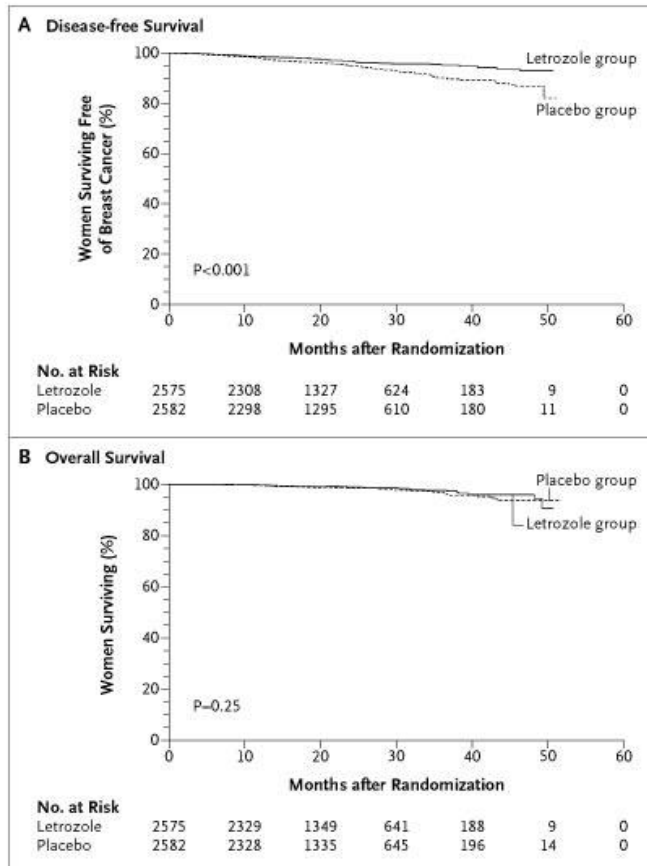
LETROZOLE



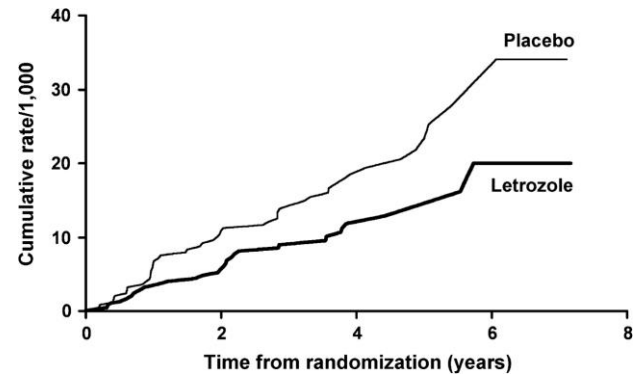
# MA 17: Letrozole or Placebo after 5 years of Tamoxifen

DFS and OS

Contralateral BC



Goss PE et al. N Engl J Med 2003;349:1793-1802.



Ingle J N et al. Ann Oncol 2008;19:877-882

***Difference in distant recurrences is only 10 events!***



# Frequency of ctDNA ESR1 mutations in ER+ MBC

Study	ESR1 mut
BOLERO2* (N=541)	28.8%
SOFeA** (N=161)	39.1%
PALOMA 3** (N=360)	25.3%
FERGI§ (N=70)	37%

\*D538G and Y537G

\*\*E380Q, L536R, Y537C, D538G, S463P, Y537N, and Y537S

§E380Q, S463P, P535H, L536Q, L536R, L536H, L536P, Y537C, Y537N, Y537S, D538G

Courtesy of Mafalda Oliveira

Chandarlapaty S. et al. JAMA Oncol. 2016;2(10):1310-1315

Fribbens C. et al. J Clin Oncol. 2016 Sep 1;34(25):2961-8

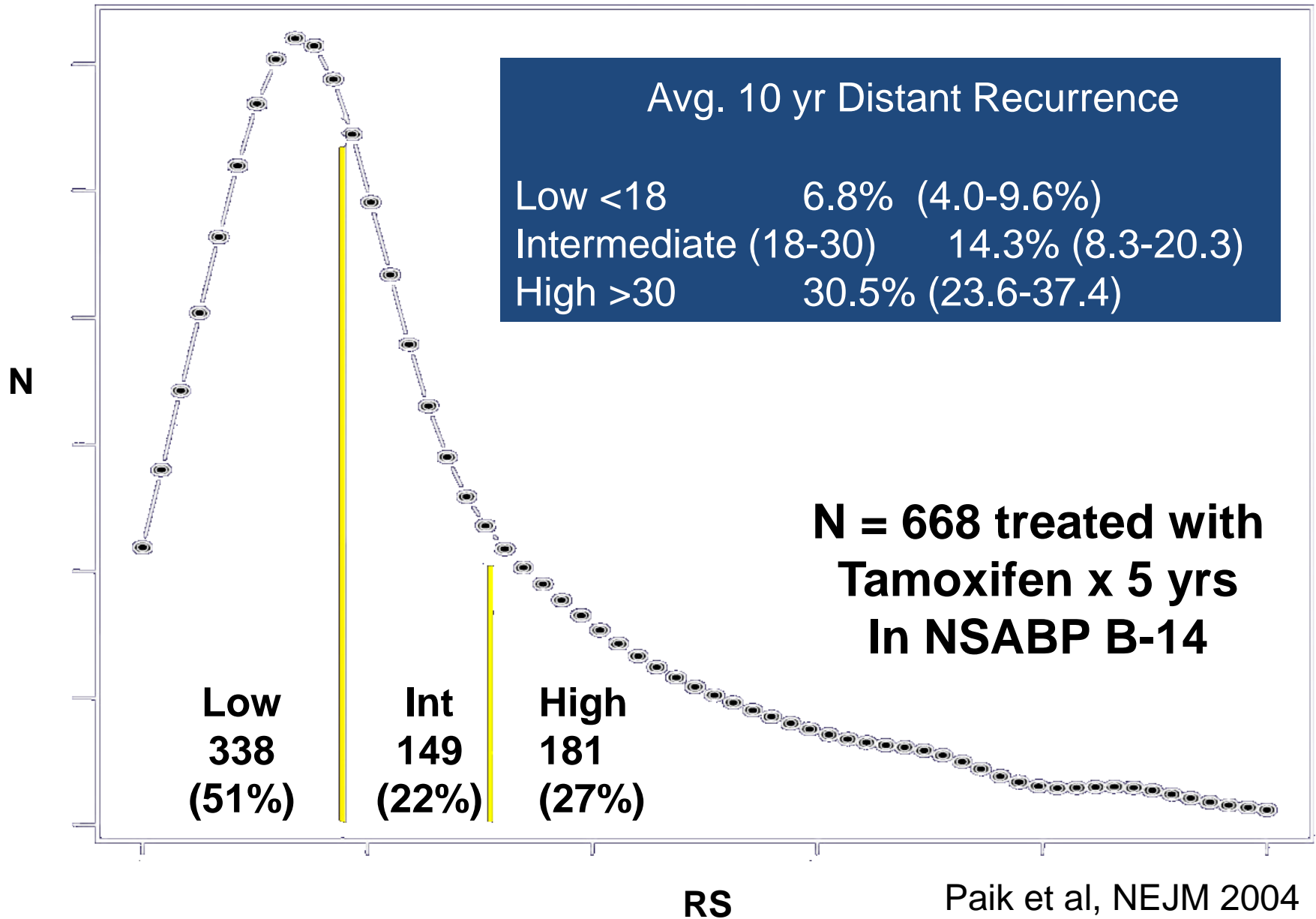
Gendreau S. et al. SABCs 2015

# Duration of Therapy

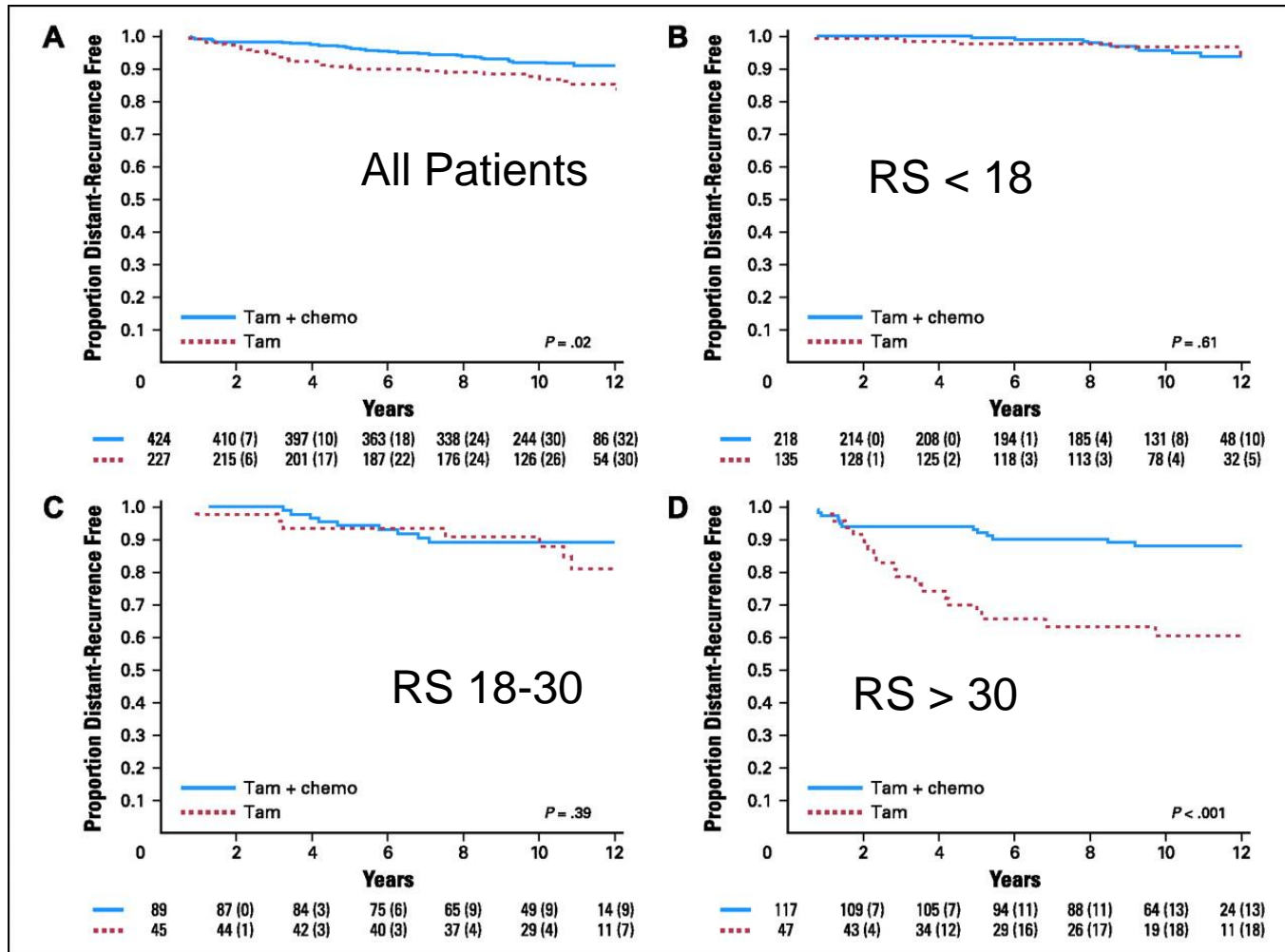
- 5 years adequate for many patients
- Longer duration reasonable for those at higher risk
  - 10 years of tamoxifen (in premenopausal)
  - 5 years of tamoxifen followed by 5 years of AI
  - 2-3 years of tamoxifen followed by 5-8 of AI
  - 10 years of AI

# **Which ER+ Patients Need Chemotherapy?**

# RS in Node Negative Pts Treated With Tamoxifen



# Benefit of Chemotherapy By Oncotype Dx Recurrence Score In Node Negative Breast Cancer Treated With Tamoxifen



Paik S et al. JCO 2006;24:3726-3734

# Recurrence Score and Benefit from Chemotherapy in NSABP B-20

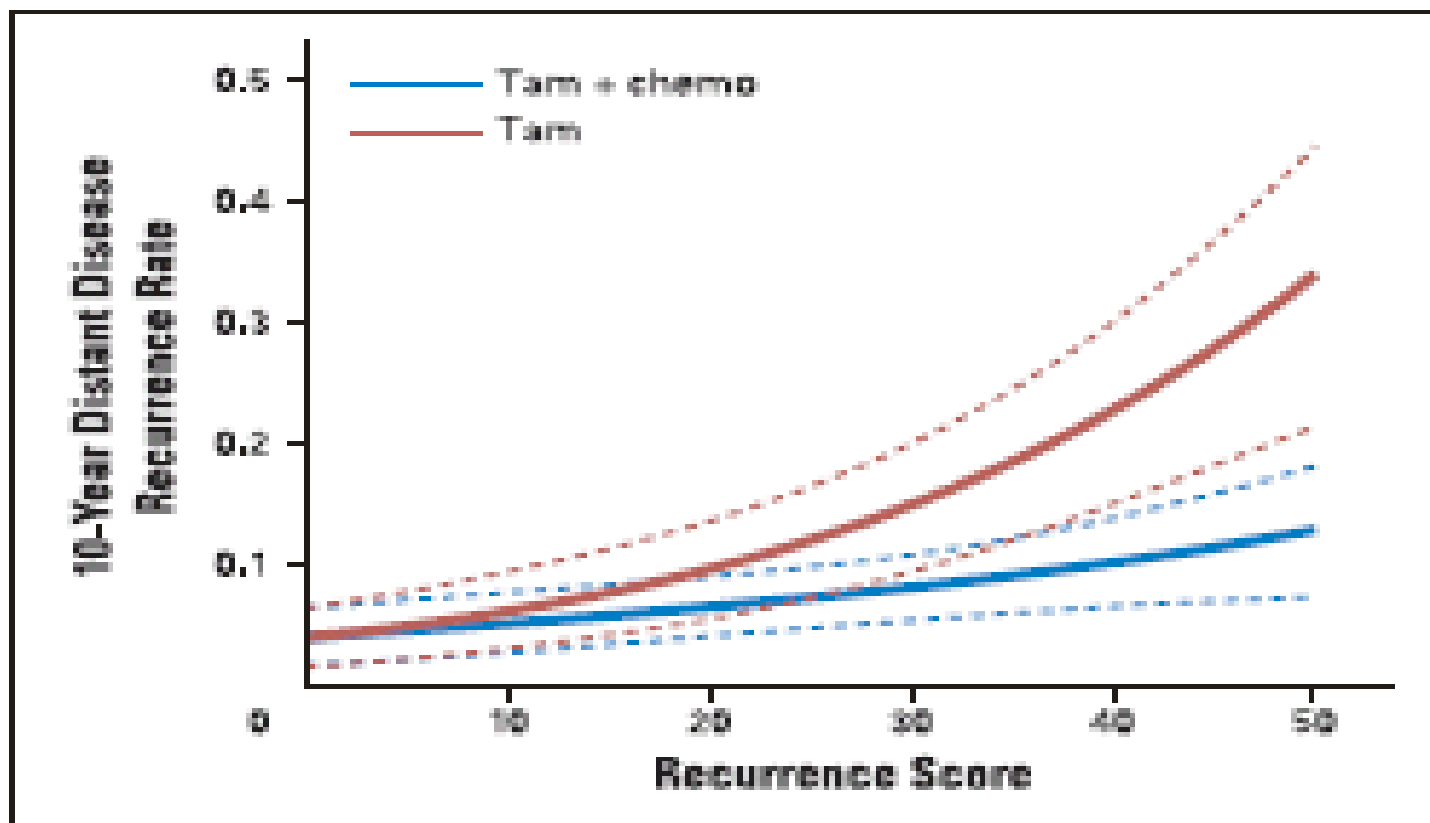
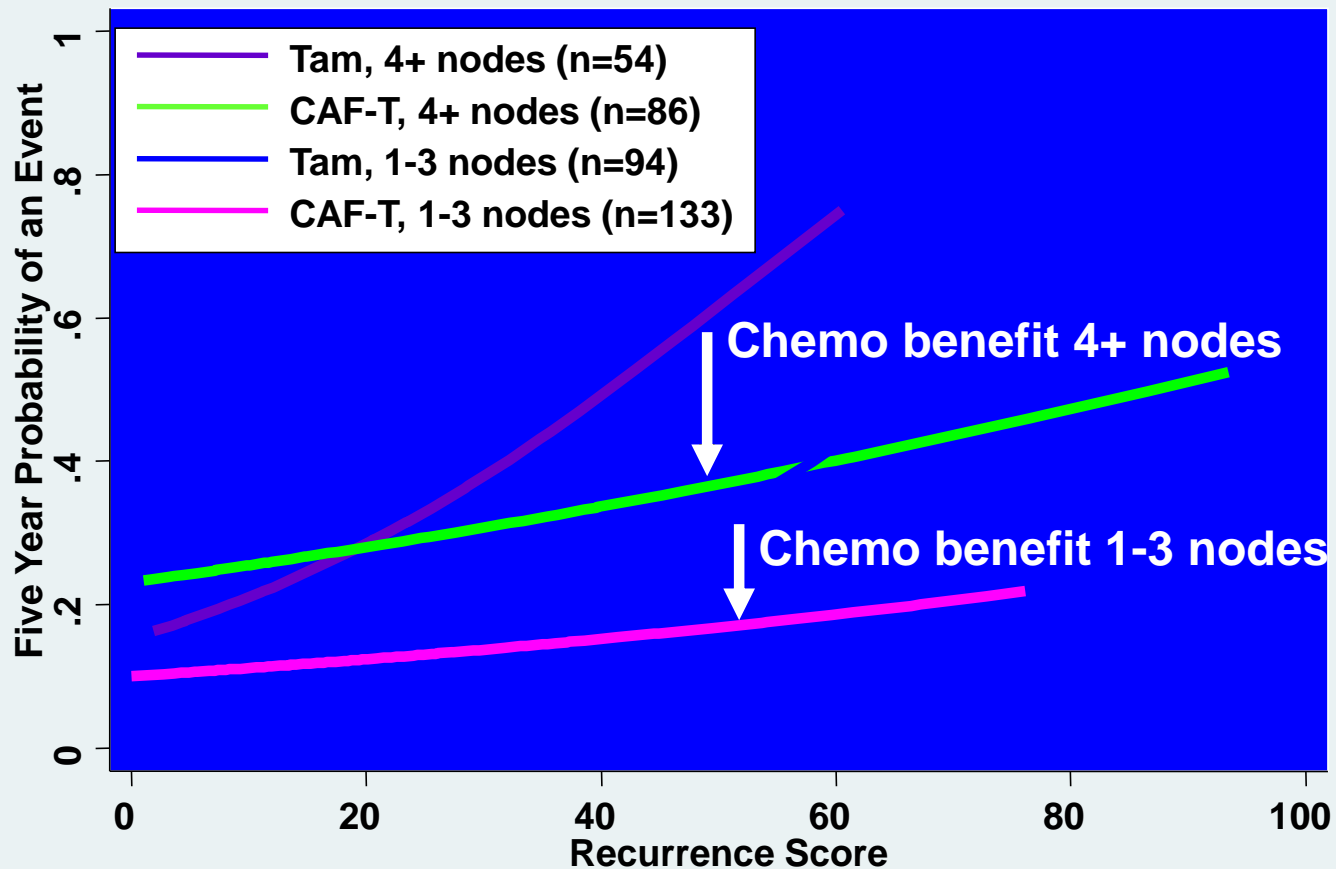


Fig 4. Linear fit of the likelihood of distant recurrence as a continuous function of recurrence score for the tamoxifen alone (TAM) and tamoxifen plus chemotherapy (TAM + chemo) treatment groups.

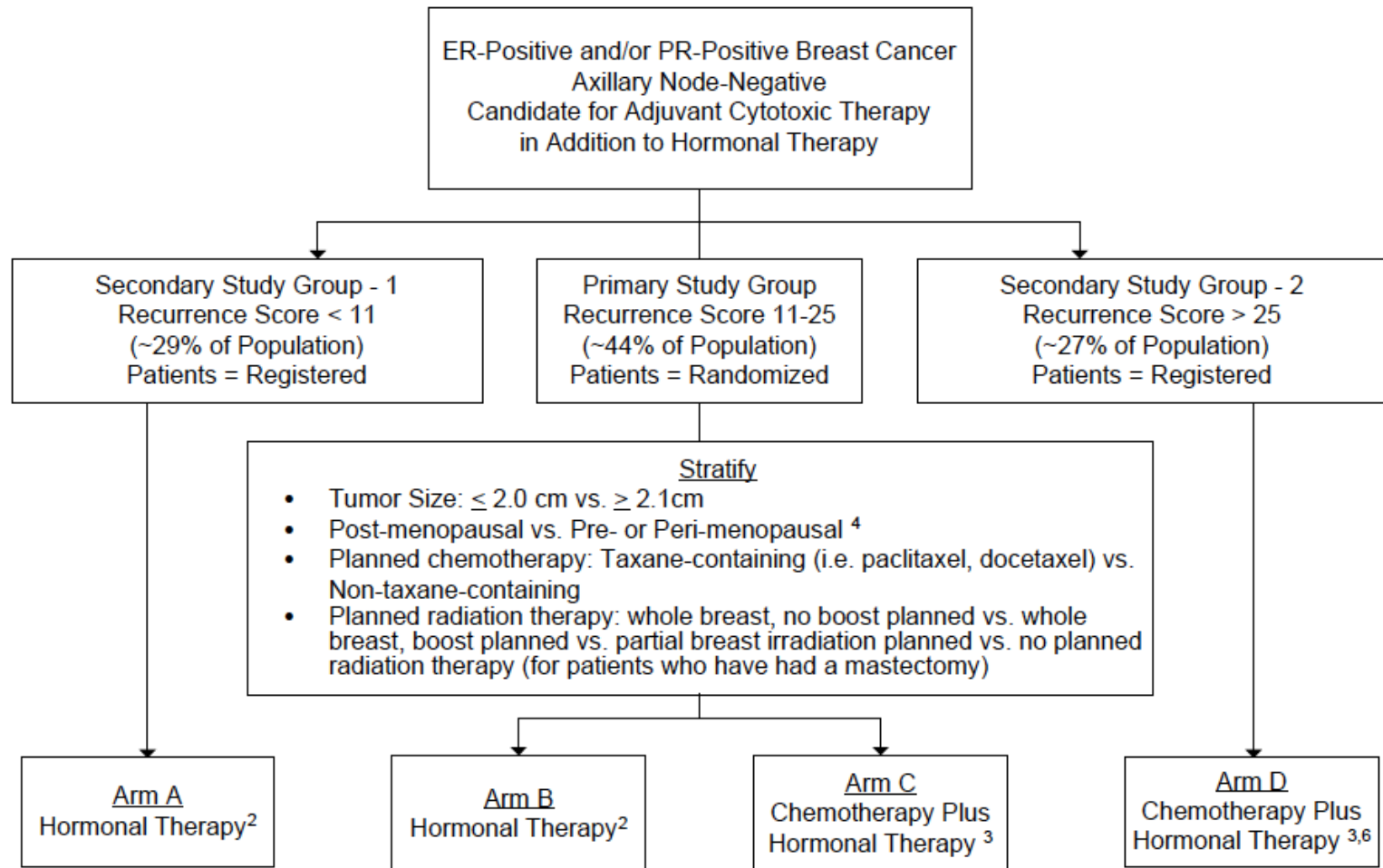
# CAF Benefit Greatest in Higher RS for Both Nodal Subsets, with No Benefit in Lower RS

## Five-Year Probability of Death or Disease Recurrence

Linear model for Recurrence Score and interactions with treatment



# Prospective Validation of 21-Gene RS in Node-Negative Patients: TAILORx





# Prospective Validation of 21-Gene RS in Node-Negative Patients: TAILORx

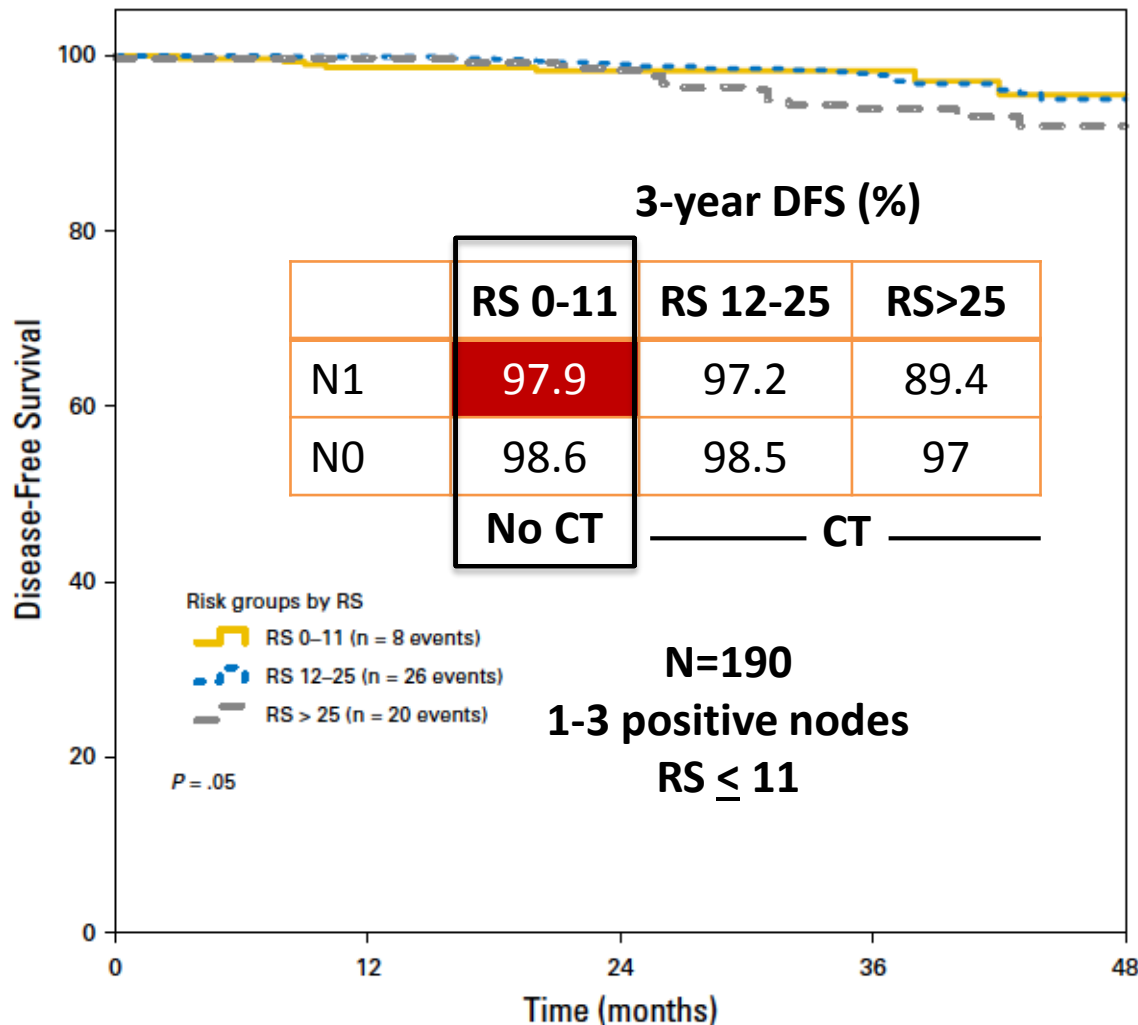
Secondary Group  
RS <11  
Assigned to Hormonal  
Therapy Only



5 Year Results

Distant Relapse Free Survival	99.3%
Invasive Disease Free Survival	93.8%
Overall Survival	98.0%

# Prospective Outcome Data for 21-Gene RS in Node-POSITIVE Patients: Plan B

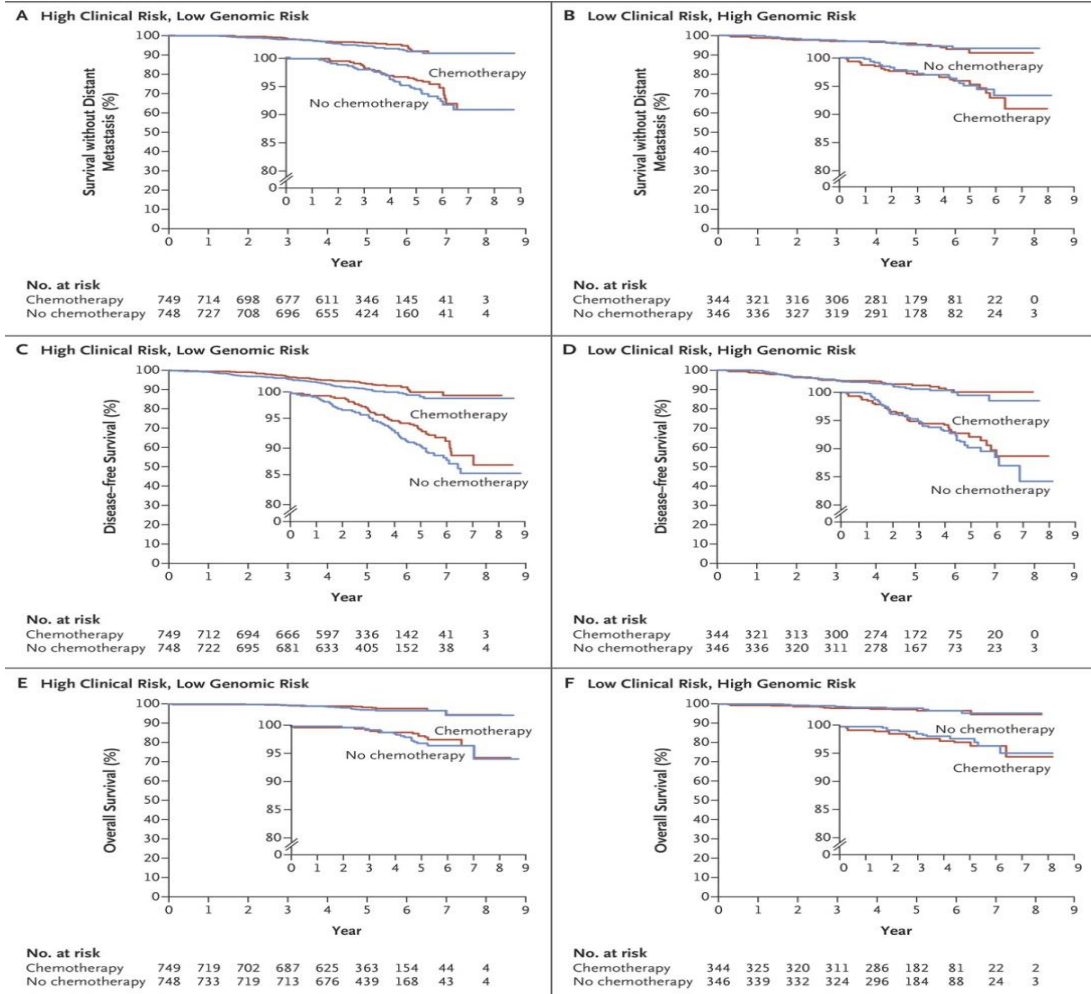


**Update:**  
**EBCC 2016**  
**5 year DFS =**  
**94%**

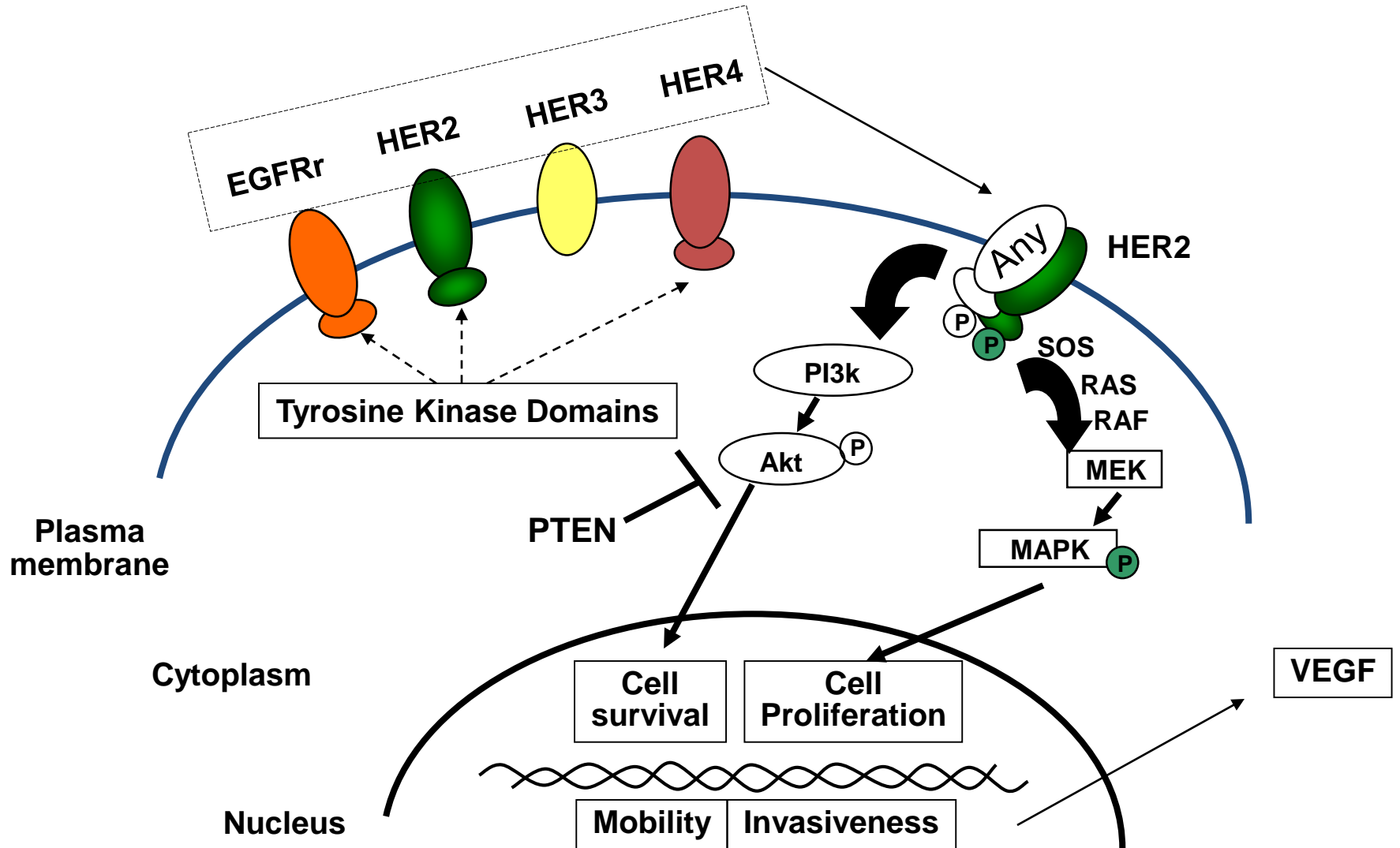
# Results From Tailorx Will Be Presented At ASCO

- Most investigators expect trial will demonstrate minimal or no benefit from chemotherapy
- What will the implications be for patients with positive nodes, especially those with 1-3 nodes?
- Do we have to wait for results of Rxponder? If so, many of us may no longer be practicing medicine!

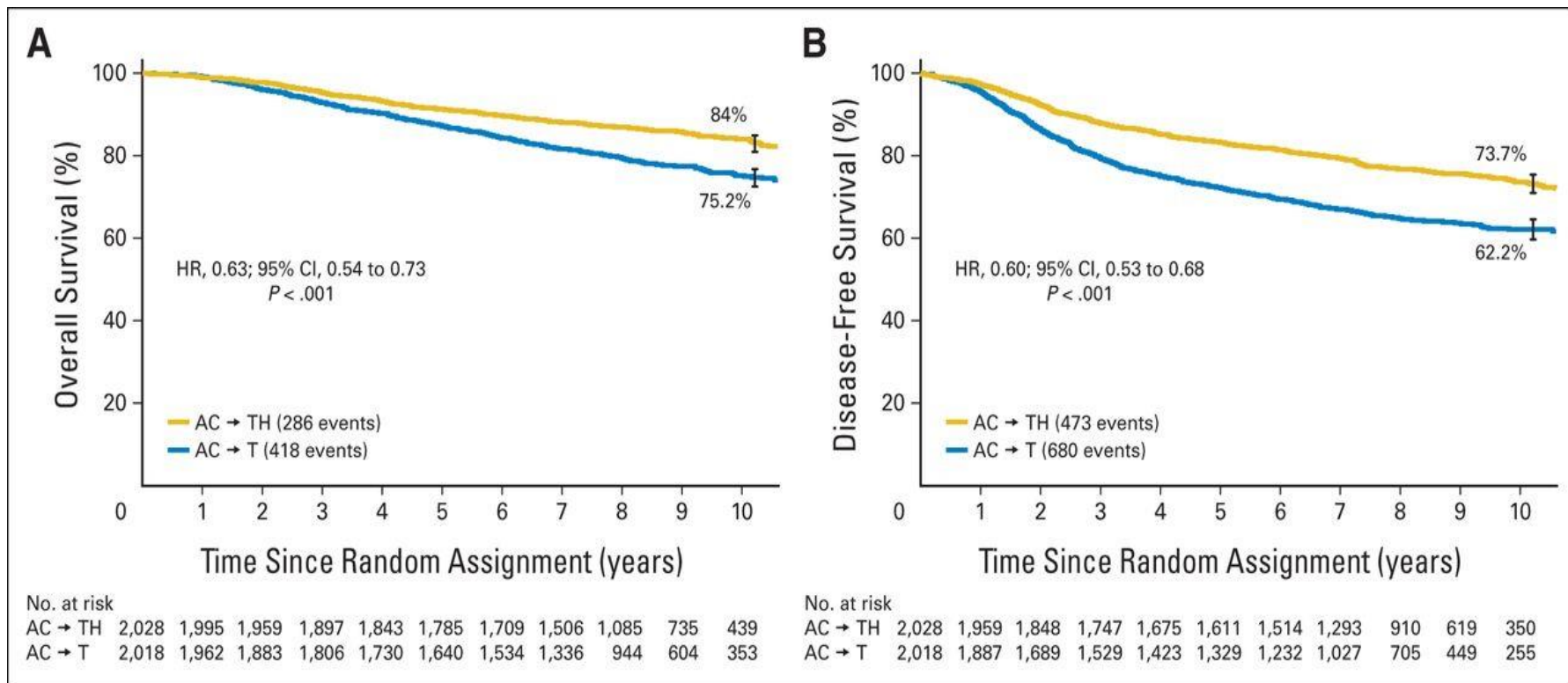
# MINDACT: Survival without Distant Metastasis, Disease-free Survival, and Overall Survival in the Two Discordant-Risk Groups, According to Randomized Treatment



# HER2 Signaling Pathways

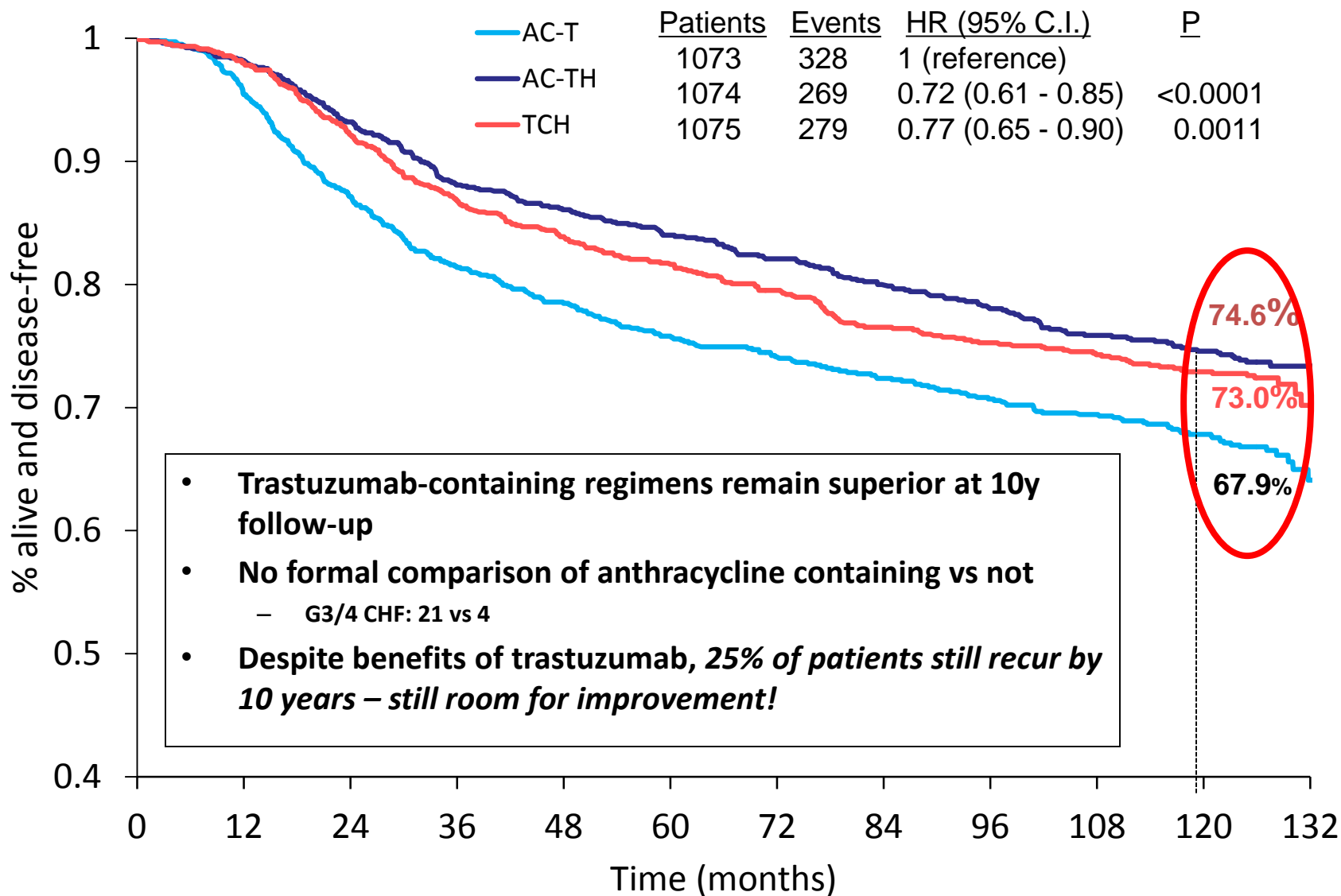


# Update Overall Survival and Disease-free Survival From Combined Data Analysis for N9831 and NSABP B-31 (AC-T +/- Trastuzumab)

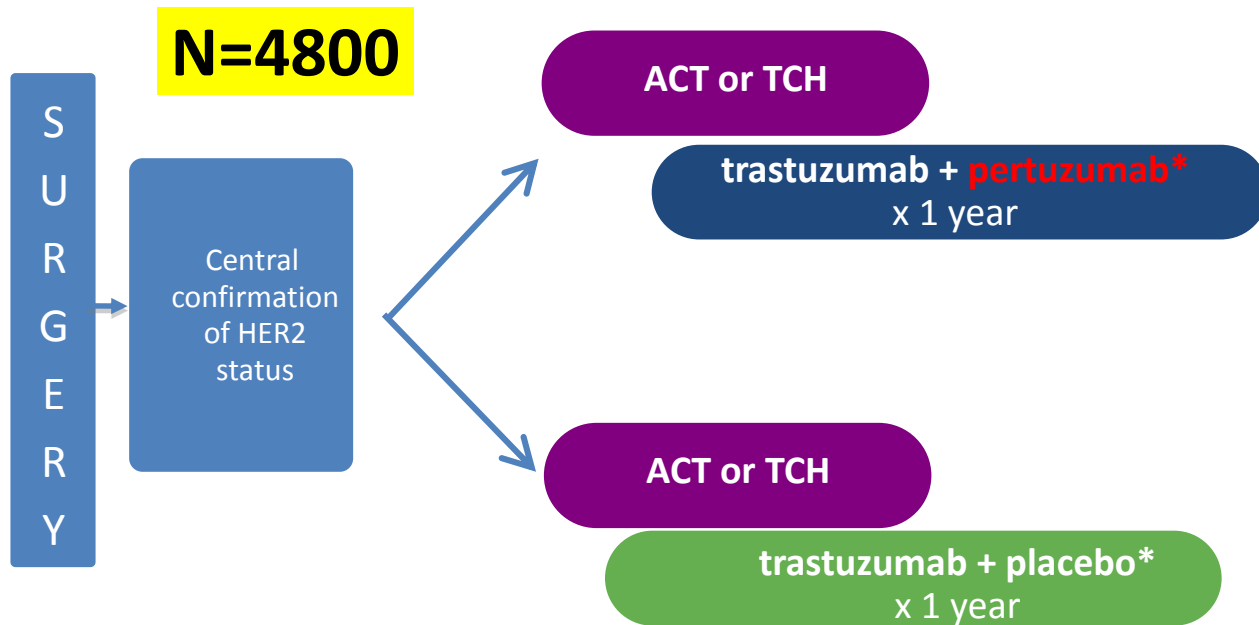


**Significant difference maintained over time in both ER- and ER+ cohorts. Late events more common in ER+ disease (not shown).**

# BCIRG-006 DFS Final Analysis (10.3yrs)



# APHINITY Schema

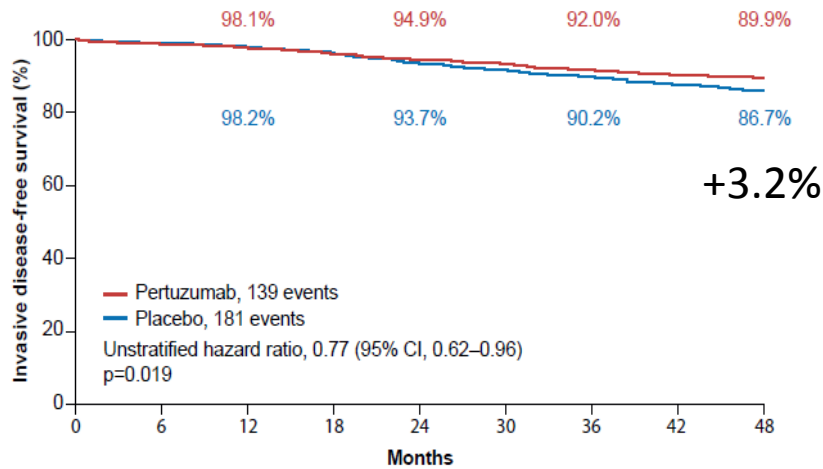


Population: Node + or  
high risk node  
negative

\*antibody therapy started with taxane

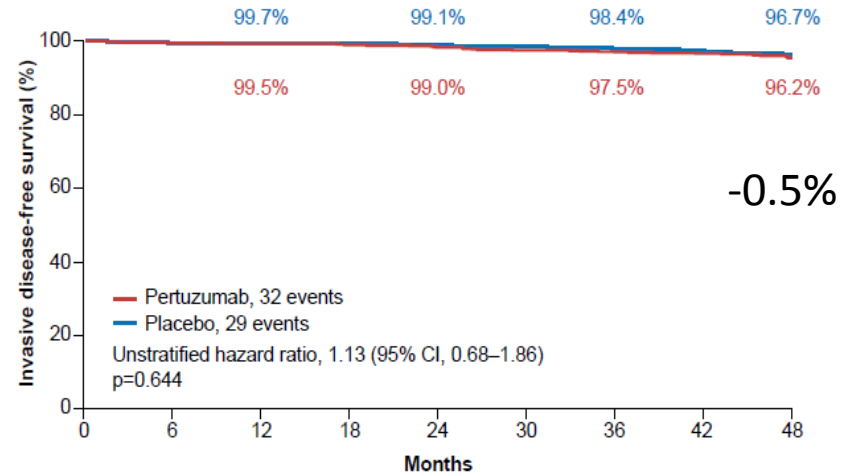


# APHINITY: By Nodal Subgroups



No. at Risk	0	6	12	18	24	30	36	42	48
Pertuzumab	1503	1444	1419	1387	1358	1327	1283	912	423
Placebo	1502	1453	1439	1408	1359	1319	1264	882	405

Node Positive



No. at Risk	0	6	12	18	24	30	36	42	48
Pertuzumab	897	865	856	849	841	826	818	775	456
Placebo	902	882	873	866	856	849	844	792	461

Node Negative

*Also greater impact in ER- than ER+*

# Adjuvant Paclitaxel/Trastuzumab Trial Study Design

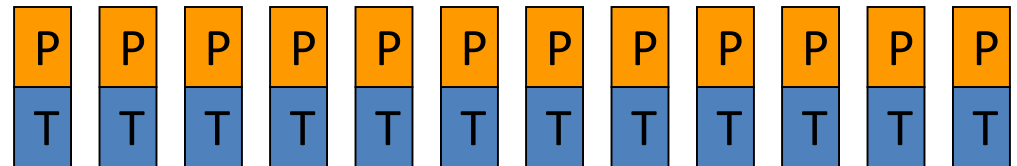
**HER2+  
ER+ or ER-  
Node Negative  
≤ 3 cm**

**Accrual N=406**

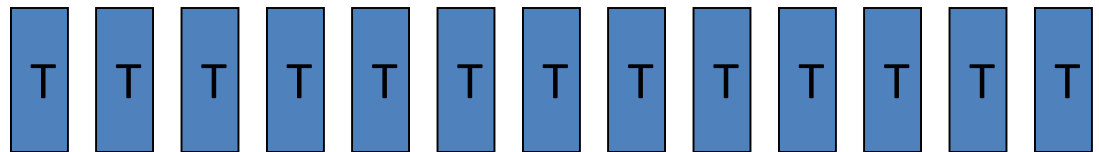
***Less than 20% had T1a***

***50% had T1c or T2***

**Enroll**



**PACLITAXEL 80 mg/m<sup>2</sup> + TRASTUZUMAB 2 mg/kg x 12**



**FOLLOWED BY 13 EVERY 3 WEEK DOSES  
OF TRASTUZUMAB (6 mg/kg)\***

**\*\* Radiation and hormonal therapy was initiated after completion of paclitaxel**

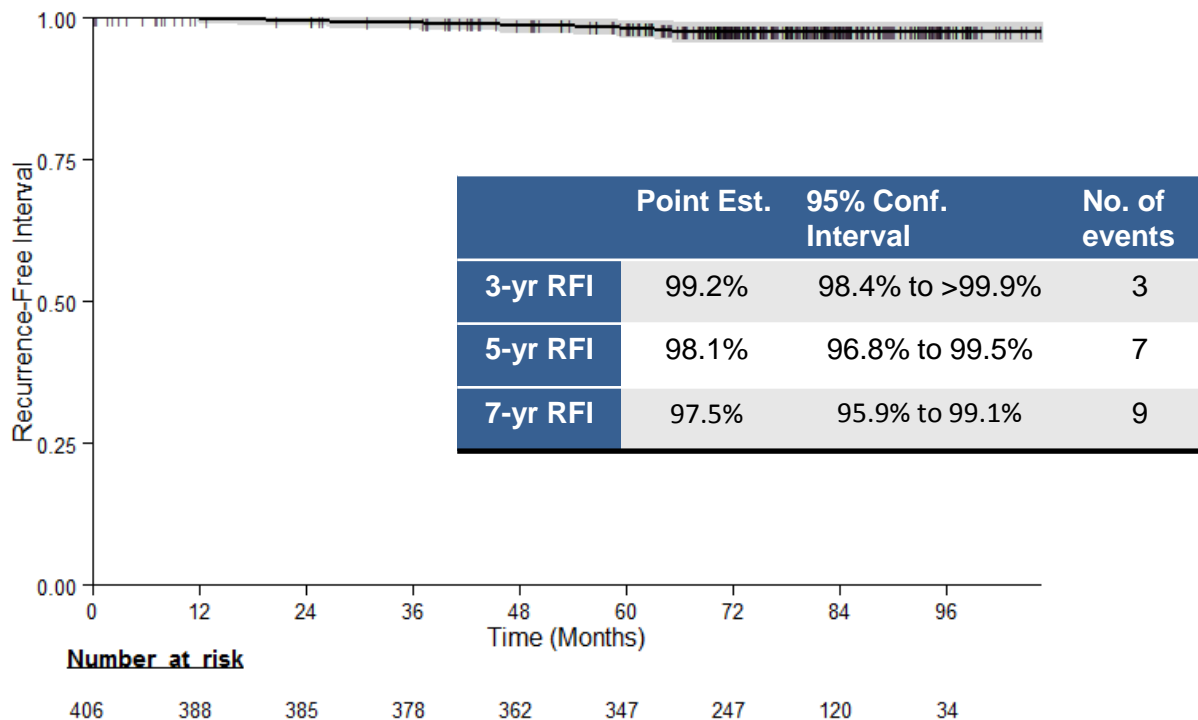
# APT: Updated Recurrence Free Interval

## RFI Events

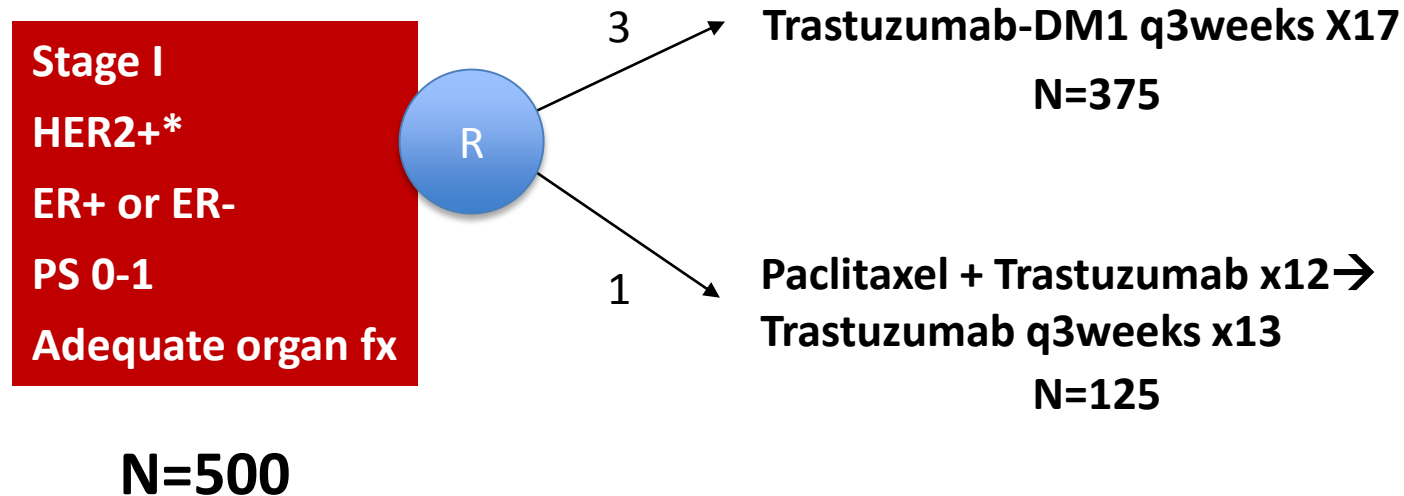
Invasive  
Local/Regional  
Recurrence

Distant Recurrence

Death from Breast  
Cancer



# ATEMPT Trial Schema



All HER2 testing centrally confirmed

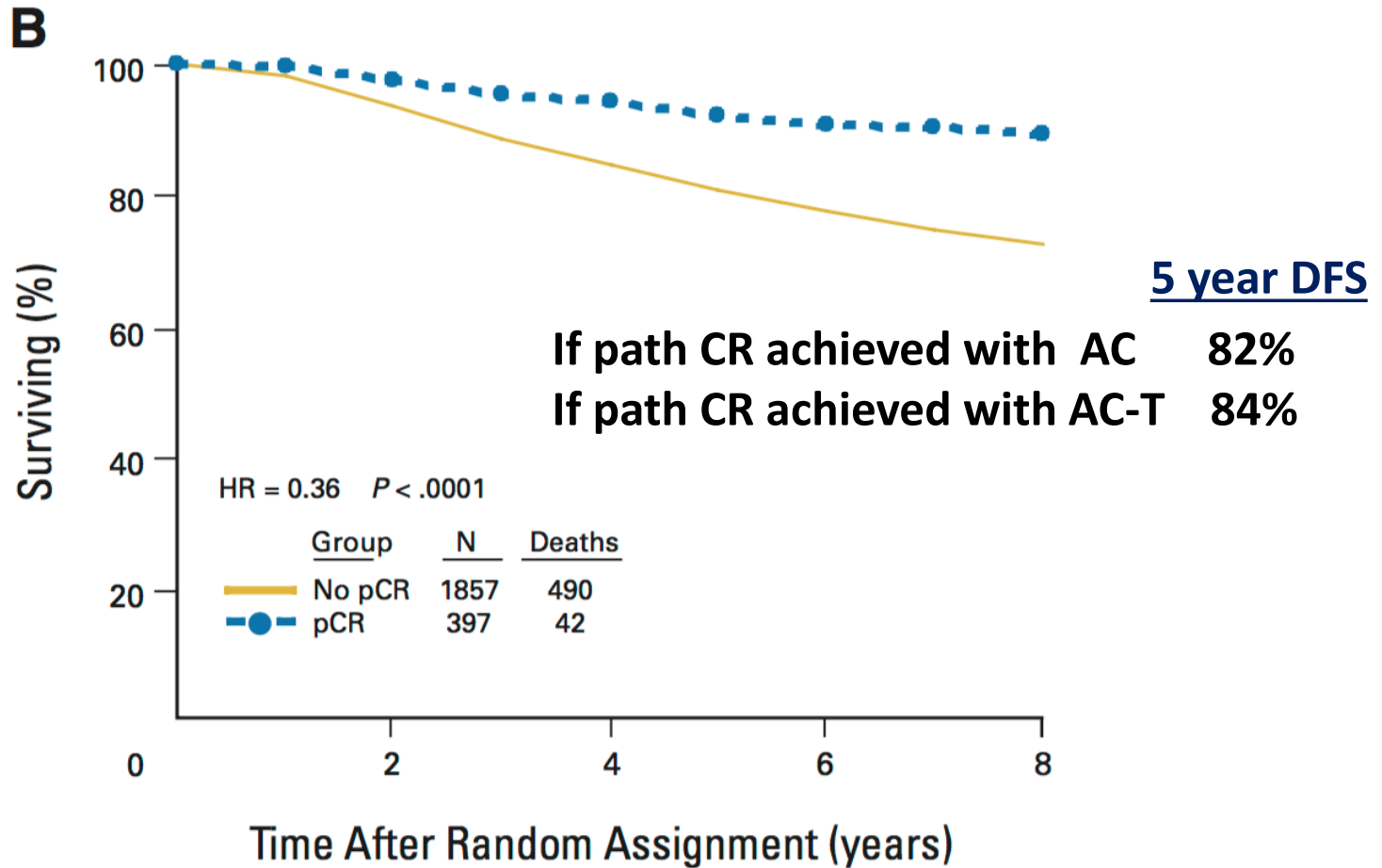
Adjuvant endocrine therapy can be initiated after completion of 12 weeks of therapy

Adjuvant radiation therapy can be administered concurrently with study treatment.

ACCRUAL COMPLETED 2016

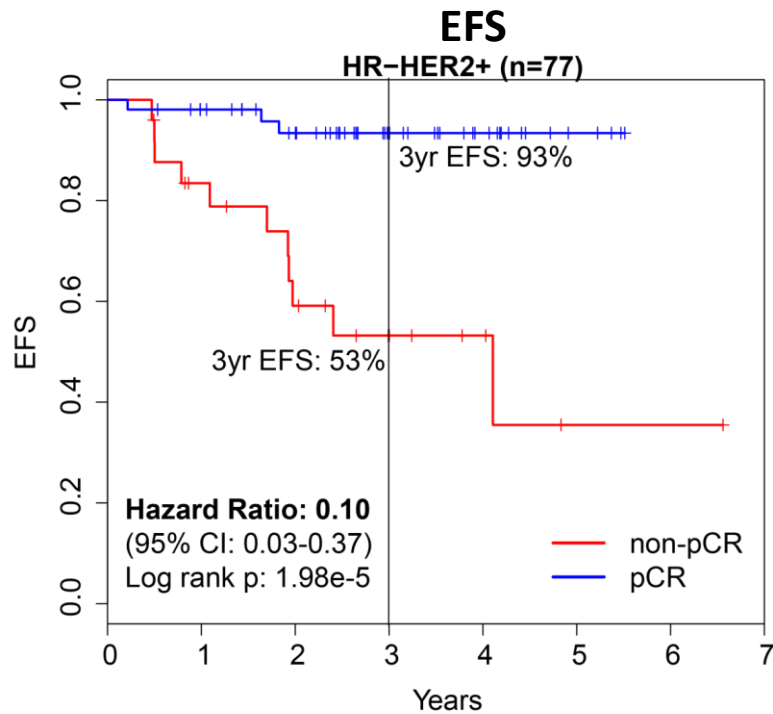
PI: Sara Tolaney, MD, MPH

# Path CR is Predictive of Outcome in NSABP B-27 (and MAYBE it does not matter how path CR is achieved)

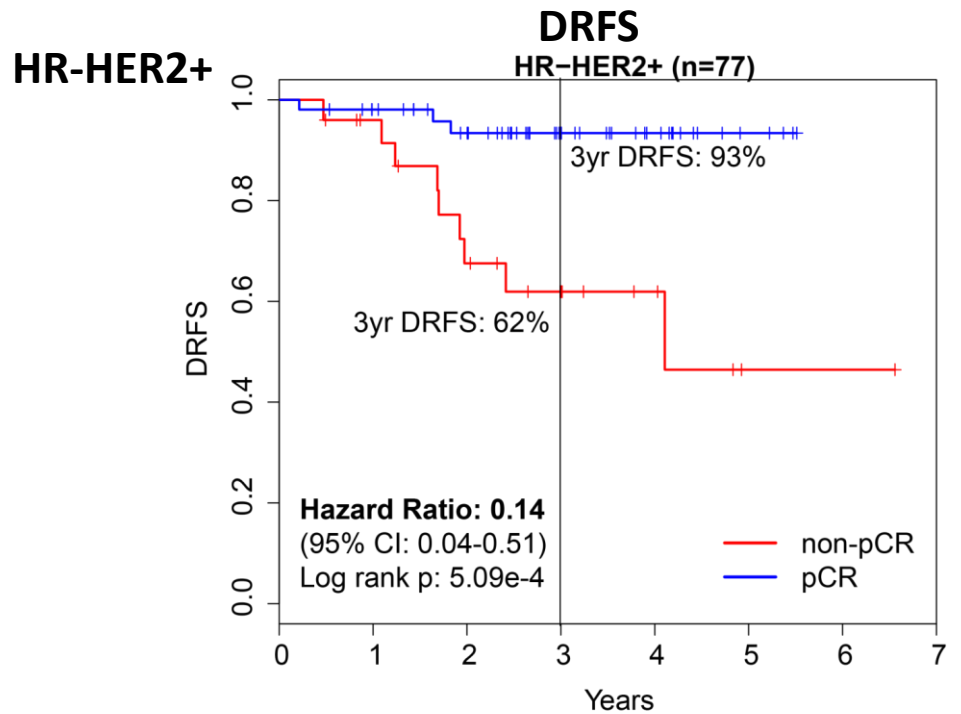


Rastogi, Anderson, Bear et al JCO 2008  
Personal communication Terry Mamounas

# pCR is Predictive of EFS and DRFS in HR-/HER2+



Number at Risk	0	1	2	3	4	5	6	7
non-pCR	25	18	12	7	4	1	1	0
pCR	52	47	39	23	13	4	0	0

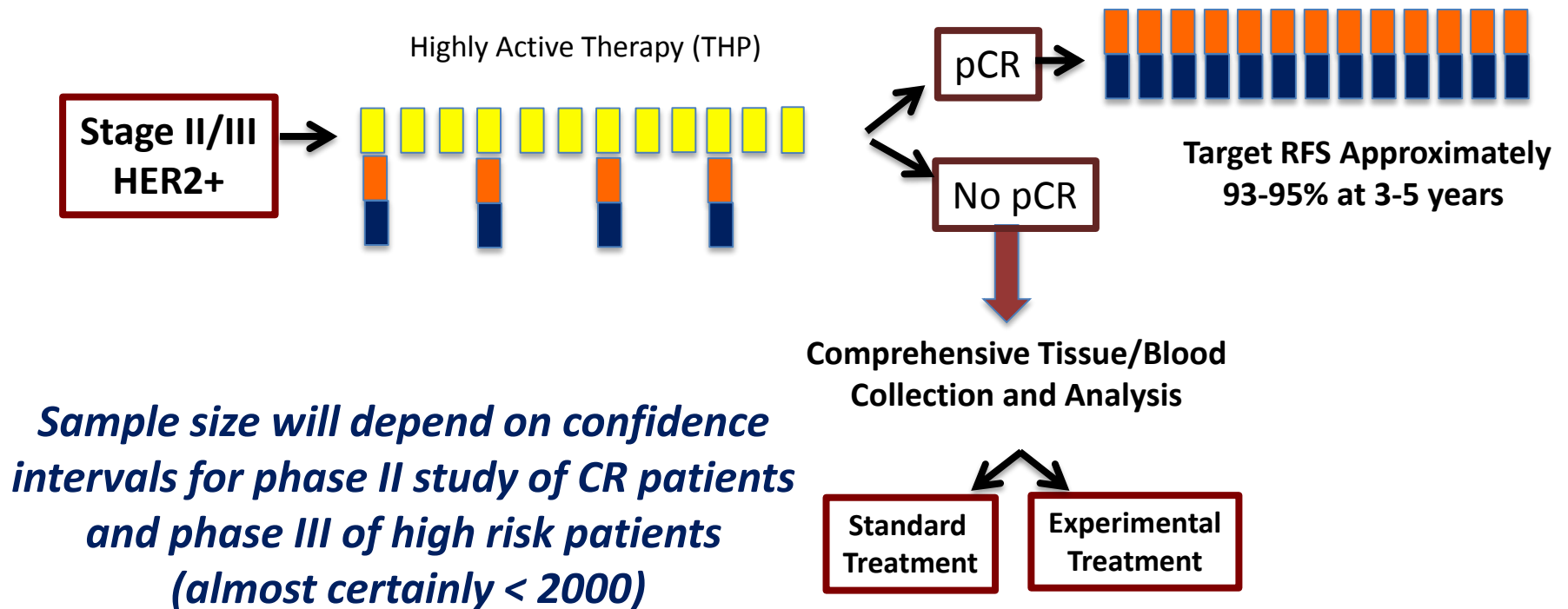


Number at Risk	0	1	2	3	4	5	6	7
non-pCR	25	21	14	9	5	1	1	0
pCR	52	47	39	23	13	4	0	0

# Maybe We Are Looking At The Role of Neoadjuvant Therapy The Wrong Way....

- Looking for new treatment approaches based on higher rates of path CR has not paid off to date (e.g. lapatinib, bevacizumab)
- Perhaps we should attempt treatment de-escalation in those with a path CR
- At the same time, we can evaluate resistance mechanisms and new treatments in those who do not obtain a path CR

# A Design to Decrease Treatment, Assess Resistance, and Test New Therapies



A Trans-Atlantic Collaboration is Planned



**The Future...**  
**but not so far from now**

# Adjuvant vs Neoadjuvant Therapy

- Increasing use of neoadjuvant therapy for majority of HER2+, triple negative, and high grade ER+ breast cancer
- Goal will be to decrease extent of surgery and guide radiation
- May be used, particularly in HER2+ setting, as an *in vivo* "experiment" that will allow escalation and de-escalation of therapy

# Triple Negative Disease

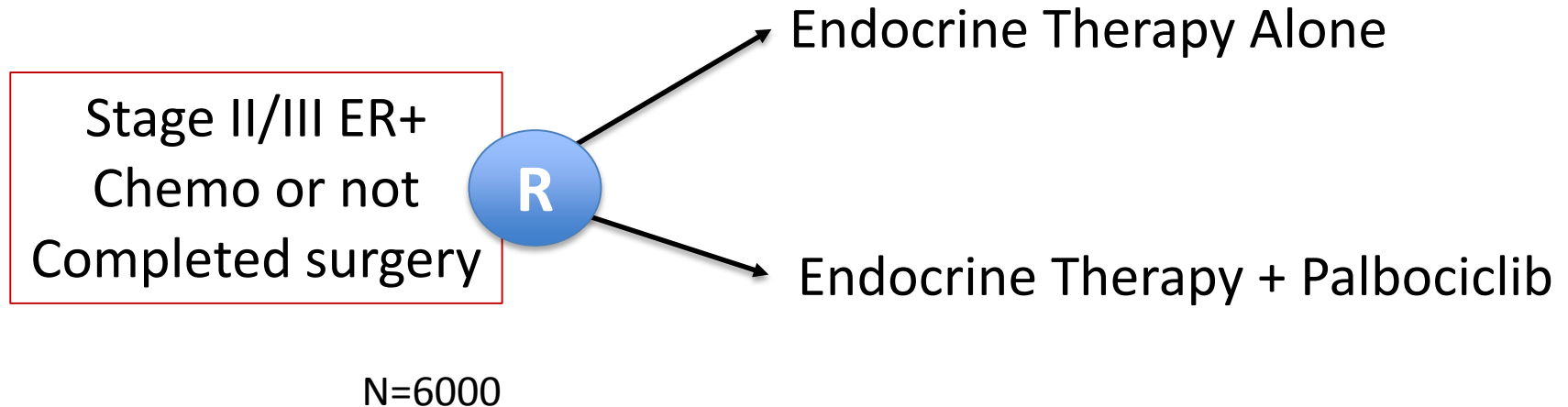
- Better characterization of subtypes, particularly in terms of responsiveness to immunotherapy
- Incorporation of new agents into early stage treatment
  - Immuno-oncology agents
  - Antibody drug conjugates
  - ?? Androgen receptor antagonists
  - PARP inhibitors for patients with BRCA mutations

# ER+ Disease

- Continued decline in chemotherapy use
- Ultimately, I suspect will only give chemotherapy to a relatively small minority
- Better delineation of role/need for ovarian suppression
- No new hormonal agents, except perhaps for the selective estrogen receptor degraders, on the horizon
- But...

# What About the CDK 4/6 Inhibitors?

## Pallas Trial



Trial will complete accrual in next year  
Analysis in next 2-3 years

Similar Trial Being Conducted with Abemaciclib

# Late Recurrence

- Hormonal therapy has not eliminated problem, and simply extending hormonal therapy is unlikely to be the primary solution
- CDK 4/6 inhibitors may lessen problem
- We need a better understanding of the biology...why are so many tumors dormant and what leads them to be awakened?
- Watch for studies in this area

# HER2+ Disease

- Huge successes have been made
- Need more/better therapy for a small percentage
- For others, the major question will be how much chemotherapy can be eliminated
- Testing will likely improve
- And subsets of HER2+ disease are likely to need somewhat different treatment strategies

# Getting it right for each patient...



We need to allow biologic insights and thoughtful clinical trials to lead us to “just right”



# Thanks to my group at Dana-Farber

- Nancy Lin
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- Tari King
- Beth Mittendorf
- Jennifer Bellon
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