PATIENT 63 Year-Old Female Patient

NODE Negative TUMOR SIZE (cm) 2.2

MENOPAUSAL STATUS Post-Menopausal

TUMOR TYPE Ductal

ER STATUS (IHC) ER positive

PR STATUS (IHC) PR negative

HER2/NEU STATUS Negative

HISTOLOGIC GRADE 2

LYMPH NODE STATUS Negative

Negative
Patient received surgery and will follow up with chemo.

GENERAL HEALTH Patient is in poor health and has history of liver cirrhosis, this was a tough treatment decision however she has

agreed to receive chemo.

OTHER INFORMATION N/A

Gregory Bebb, MD Wilmington, NC



CLINICAL EXPERIENCE

The Distant Recurrence Risk at 9 Years (Prognosis), in patients with N–, ER+ breast cancer treated with endocrine therapy alone, is provided by the TAILORx 1 trial for RS 0-25 and by the NSABP B-14 2 trial for RS 26-100. Risk is for individual RS results. The 95% confidence intervals for distant recurrence at 9 years are $\pm 2\%$ or less for RS 0-22, and range from $\pm 3\%$ to $\pm 11\%$ as RS increases from 23-50. The TAILORx trial enrolled 10,273 patients and 5,018 patients with RS 0-25 were treated with endocrine therapy (tamoxifen or an aromatase inhibitor) alone. The NSABP B-14 trial enrolled 668 patients who were treated with tamoxifen alone.

The Absolute Benefit of Chemotherapy for all ages is provided by the TAILORx trial for RS 11-25 and by the NSABP B-20° trial for RS 0-10 and RS 26-100. Results for the reduction in distant recurrence at 9 years are for the TAILORx-defined RS groups 0-10, 11-25, and 26-100. TAILORx trial enrolled 10,273 patients and 6,711 were randomized to endocrine therapy (tamoxifen or an aromatase inhibitor) alone or endocrine therapy plus chemotherapy (including anthracyclines and/or taxanes). The NSABP B-20 clinical trial enrolled 651 patients who were randomized to treatment with tamoxifen alone or tamoxifen plus CMF/MF chemotherapy. The magnitude of the absolute benefit of chemotherapy was ~6% at RS 26, and increased as the RS results increased from 26-100, with an average absolute benefit of ~24% and a conservative group estimate of >15% based on the width of the confidence intervals.

RESULTS Recurrence

Score®

34

Distant Recurrence Risk at 9 Years

With Al or TAM Alone

22%

95% CI (17%, 29%)

NSABP B-14

Al = Aromatase Inhibitor / TAM = Tamoxifen Cl = Confidence Intervals Group Average Absolute Chemotherapy (CT) Benefit*

RS 26-100 All Ages

>15%

95% CI (9%, 37%)

NSABP B-20

*For estimated CT benefit for individual RS results, see page 2.



CLINICAL EXPERIENCE

Exploratory Subgroup Analysis for TAILORx and NSABP B-20 indicate that RS and age are the strongest predictors of chemotherapy benefit. The absolute reduction of distant recurrence from chemotherapy for patients >50 years and =50 years is shown here for RS groups: 11-15, 16-20, and 21-25 from TAILORx, and 0-10 and 26-100 from NSABP B-20.

RESULTS
Recurrence
Score®

34

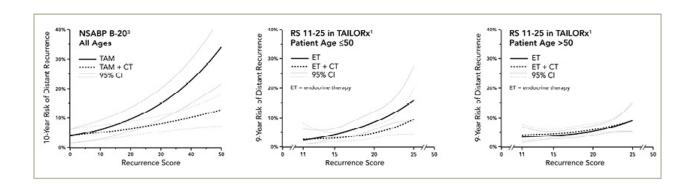
Age	RS 0-10	RS 11-15	RS 16-20	RS 21-25	RS 26-100
>50 years	No CT Benefit (<1%)				>15% CT Benefit
≤50 years	No CT Benefit (<1%)		~1.6% CT Benefit	~6.5% CT Benefit	>15% CT Benefit



ESTIMATED CHEMOTHERAPY BENEFIT FOR INDIVIDUAL RECURRENCE SCORE RESULTS

Recurrence Score ranges shown reflect randomized patients in NSABP B-20 and TAILORx.

34



TREATMENT GIVEN:

Chemo

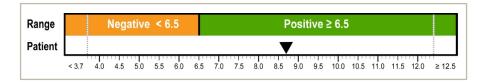


QUANTITATIVE HORMONE RECEPTOR ANALYSIS

Quantitative Single-Gene Scores for quality control. The Oncotype DX test uses quantitative RT-PCR to determine the RNA expression of ER, PR, and HER2, using the published validated cut-offs⁴. The standard deviations of single-gene results are less than 0.5 units. The RT-PCR single-gene results may differ from ER, PR, or HER2 results reported using other methods or reported by other laboratories.

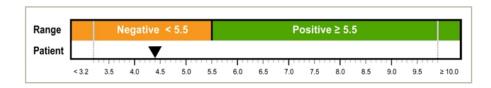
ER Score

8.7



PR Score

<u> 1</u> 1



HER2 Score

8.8



References

- 1. Paik et al. N Engl J Med. 2004.
- 2. ER Score based on quantitative ESR1 expression (estrogen receptor); PR Score based on quantitative PGR expression (progesterone receptor).
- 3. Kim et al. J Clin Oncol. 2011.
- 4. Badve et al. J Clin Oncol. 2008. May 20;25(15):2473-81
- 5. Paik et al. ASCO 2005.

