Supplementary Online Content

Salgado R, Denkert C, Campbell C, et al. Tumor-infiltrating lymphocytes and associations with pathological complete response and event-free survival in HER2-positive early-stage breast cancer treated with lapatinib and trastuzumab: a secondary analysis of the NeoALTTO Trial. *JAMA Oncol*. Published online April 30, 2015. doi:10.1001/jamaoncol.2015.0830

eFigure 1. Distribution of stromal TILs in whole cohort of HER2-positive primary breast cancer as well as according to HR status. P value represents a Mann-Whitney test.

eFigure 2. Cubic splines to explore the relationship between TILs and pCR and EFS. As seen, the relationship between TILs and pCR is not linear: rates of pCR increase sharply at TILs levels of 5% (A); however, is linear between TILs and EFS (B)

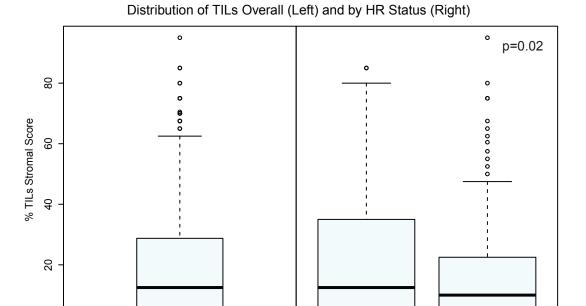
eTable. Multivariate analyses with lapatinib-only treatment arm

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. Distribution of stromal TILs in whole cohort of HER2-positive primary breast cancer as well as according to HR status. P value represents a Mann-Whitney test.

POSITIVE

Hormone receptor status



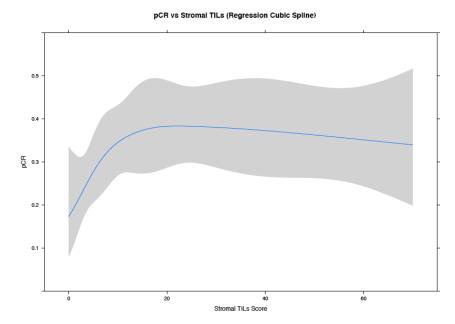
NEGATIVE

0

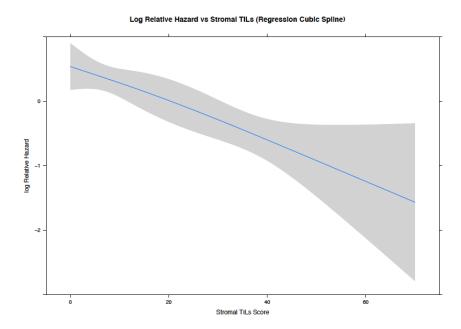
Overall

eFigure 2. Cubic splines to explore the relationship between TILs and pCR and EFS. As seen, the relationship between TILs and pCR is not linear: rates of pCR increase sharply at TILs levels of 5% (A); however, is linear between TILs and EFS (B)





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eTable. Multivariate analyses with lapatinib-only treatment arm

(A) Analysis without pCR (baseline characteristics) (n=387)

Multivariate Effect	Pvalue	Hazard Ratio
Stromal TILs %	0.0001	HR: 0.97 (Per unit increase, 95% CI: 0.95-0.98)
Hormone Receptor Status	0.0679	HR: 0.68 (Ref = Negative, 95% CI: 0.44- 1.03)
Nodal Status	0.2622	HR: 1.35 (Ref = N0/1, 95% CI: 0.77-2.25)
Tumour Size	0.587	HR: 1.13 (Ref = T2, 95% CI: 0.73-1.72)
Planned Conservative Surgery	0.0284	HR: 0.56 (Ref = Not a candidate, 95% CI: 0.32-0.92)
Treatment Lapatinib alone	0.1786	HR: 1.40 (Ref = Trastuzumab alone, 95% CI: 0.86-2.30)
Treatment combination	0.3643	HR: 0.78 (Ref = Trastuzumab alone, 95% CI: 0.45-1.33)

(B) Landmark analyses including pCR (n=387)

Multivariate Effect	Pvalue	Hazard Ratio
Stromal TILs %	0.0002	HR: 0.97 (Per unit increase, 95% CI: 0.96-0.99)
Hormone Receptor Status	0.0246	HR: 0.61 (Ref = Negative, 95% CI: 0.40-0.94)
Nodal Status	0.2229	HR: 1.39 (Ref = N0/1, 95% CI: 0.80-2.31)
Tumour Size	0.8521	HR: 1.04 (Ref = T2, 95% CI: 0.67-1.60)
Planned Conservative Surgery	0.0239	HR: 0.54 (Ref = Not a candidate, 95% CI: 0.31-0.90)
Treatment Lapatinib alone	0.1712	HR: 1.41 (Ref = Trastuzumab alone, 95% CI: 0.86-2.33)
Treatment combination	0.7122	HR: 0.90 (Ref = Trastuzumab alone, 95% CI: 0.51-1.55)
pCR	0.0018	HR: 0.42 (Ref = No pCR, 95% CI: 0.23-0.71)