

**Supplemental S4.** Lesions not visible on [<sup>18</sup>F]FDG-PET. Lesions without [<sup>18</sup>F]FDG uptake above background on the PET scan. In 175/182 patients the lesion showed [<sup>18</sup>F]FDG uptake above background on the PET scan. The remaining seven lesions were not visible on [<sup>18</sup>F]FDG-PET

Histological subtype	ER status	% ER	HER2 status	Location	Size on CT
Invasive carcinoma NST	Positive	100	Negative	Axillary lymph node	<10mm
Invasive carcinoma NST	Positive	100	Negative	Ilium (bone)	not measurable
Invasive carcinoma NST	Positive	100	Negative	Liver	17mm
Invasive carcinoma NST	Positive	100	Negative	Liver	12mm
Invasive carcinoma NST	Positive	100	Negative	Breast skin	not measurable
Invasive carcinoma NST	Positive	100	Negative	Lung	14mm
Invasive lobular carcinoma	Positive	100	Negative	Abdominal skin	<10mm