

## **Supplementary Figure Legends**

Supplementary Figure 1: Funnel plot for pathological complete response across studies

excluding Greenwell et al. P-value for publication bias = 0.06

Supplementary Figure 2: Risk of bias assessments for 3 randomized clinical trials.

Supplementary Figure 3: Risk of bias assessments for 5 observational studies

Supplementary Figure 4: Risk of bias assessment for 1 single-arm trial.

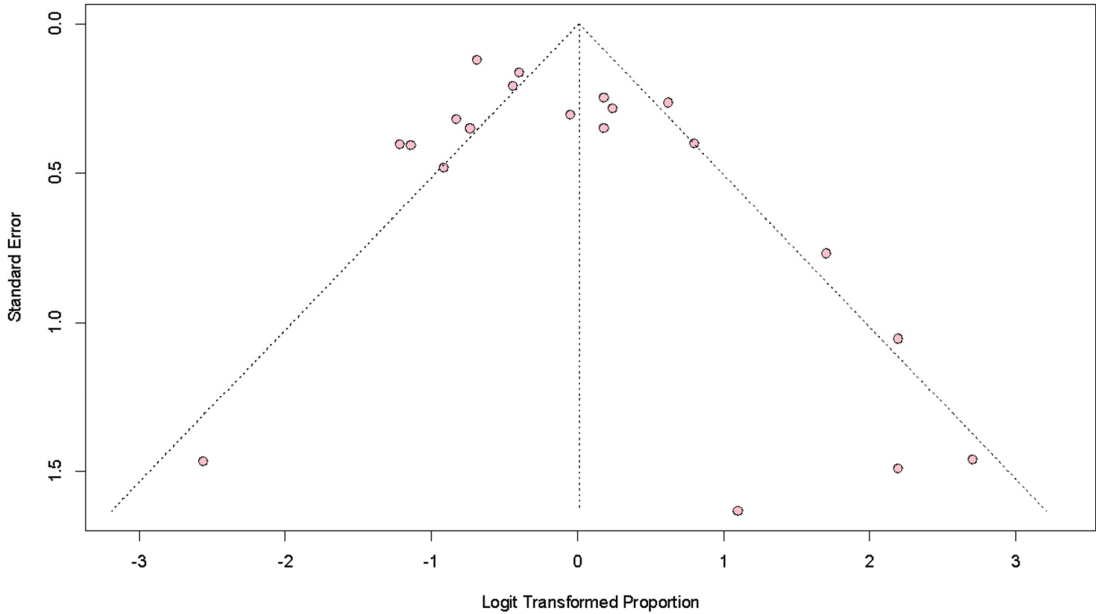
Supplementary Figure 5: Forest plot for pathological complete response according to the

HER2 interval (tertiles)



















Supplementary Figure 6: Forest plot for pathological complete response according to the

HER2 interval (quartiles) and excluding the class with a HER2/CEP17 ratio  $\leq 2$



Supplementary Figure













































Supplementary Figure 1

		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	Hurvitz SA et al. 2020						
	Wu Z et al. 2018						
	Singer CF et al. 2017						










Domains:  
D1: Bias arising from the randomization process.  
D2: Bias due to deviations from intended intervention.  
D3: Bias due to missing outcome data.  
D4: Bias in measurement of the outcome.  
D5: Bias in selection of the reported result.

Judgement  
 Some concerns  
 Low

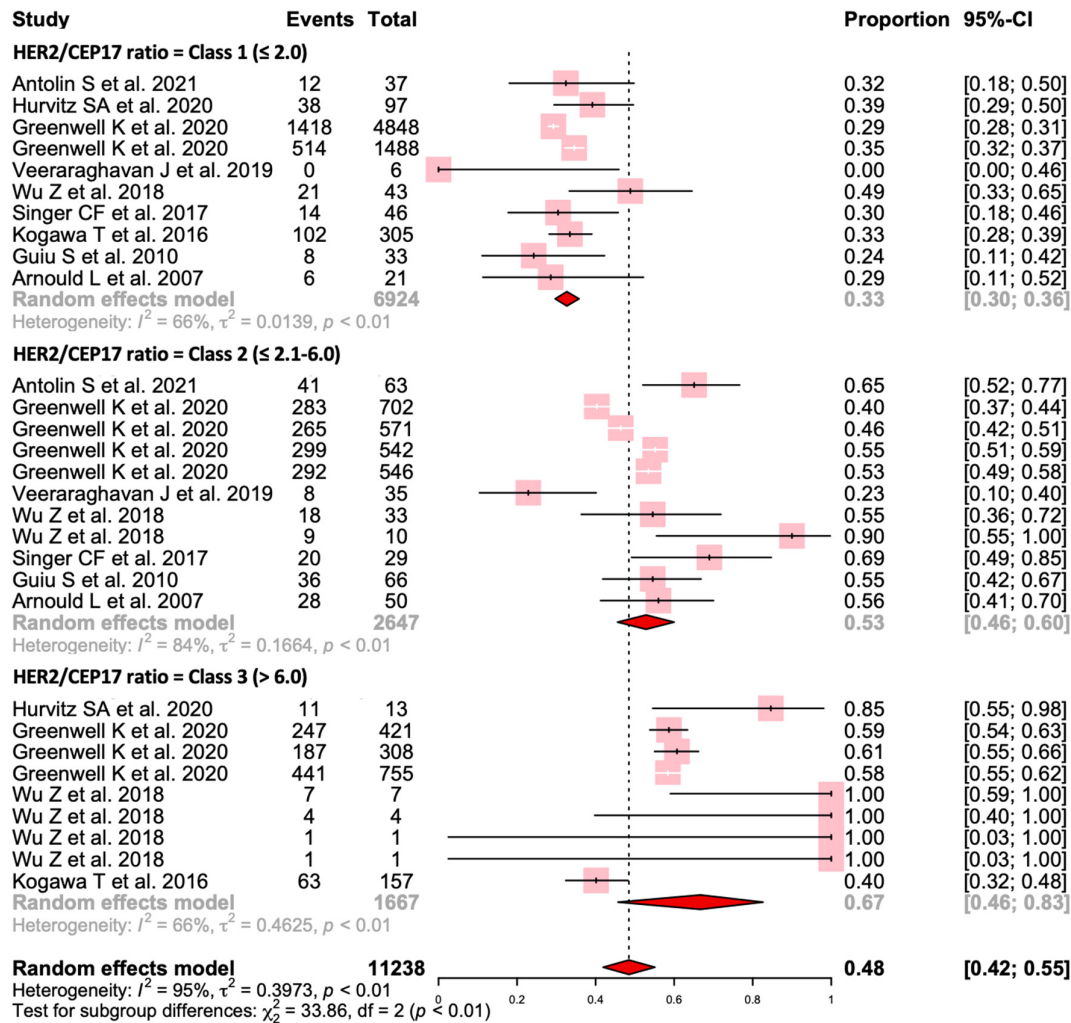
Supplementary Figure 2

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Antolin S et al. 2021								
	Greenwell K et al. 2020								
	Kogawa et al. 2016								
	Guiu S et al. 2010								
	Arnould L et al. 2007								
		<div>Domains: D1: Bias due to confounding. D2: Bias due to selection of participants. D3: Bias in classification of interventions. D4: Bias due to deviations from intended interventions. D5: Bias due to missing data. D6: Bias in measurement of outcomes. D7: Bias in selection of the reported result.</div>							<div>Judgement  Moderate  Low</div>

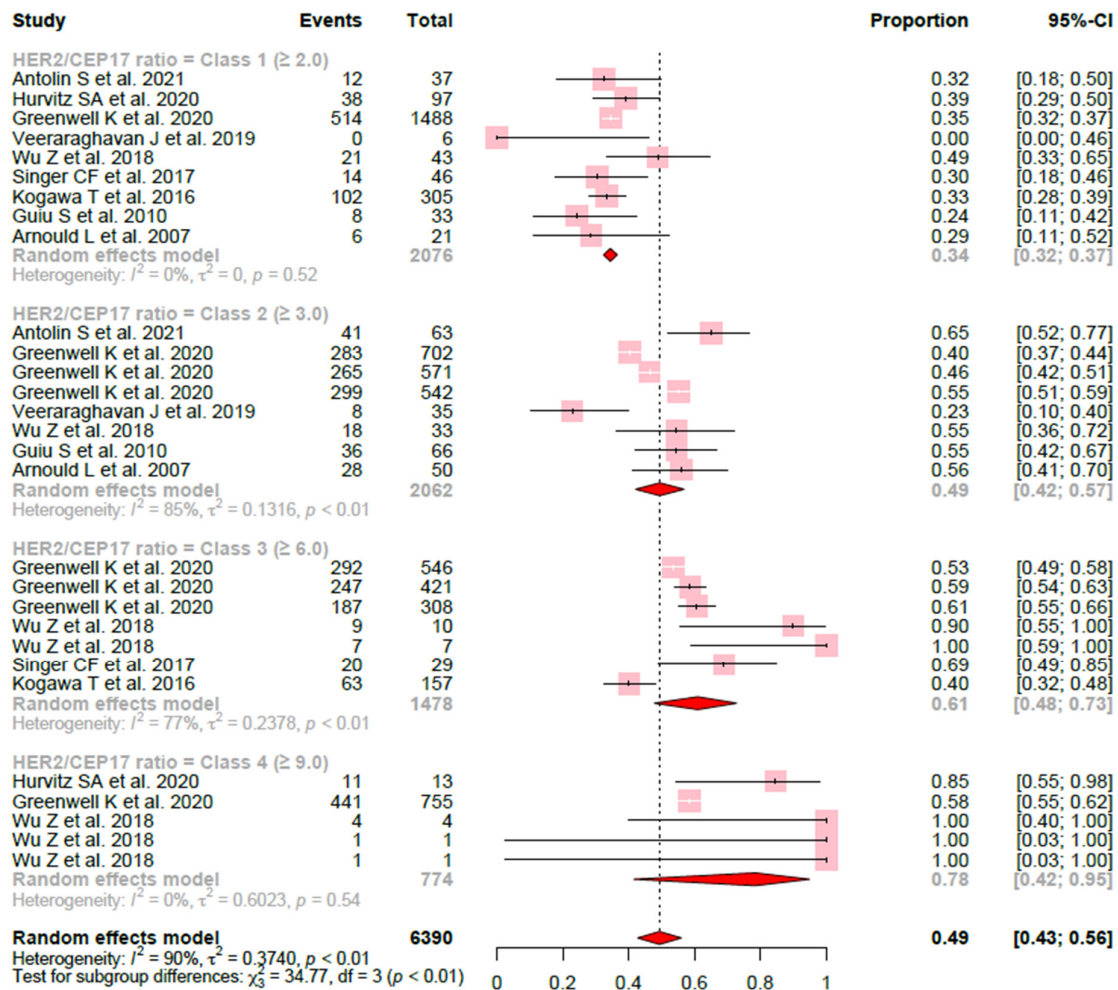
Supplementary Figure 3

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Veeraraghavan J et al. 2019								
	<p>Domains:</p> <p>D1: Bias due to confounding.</p> <p>D2: Bias due to selection of participants.</p> <p>D3: Bias in classification of interventions.</p> <p>D4: Bias due to deviations from intended interventions.</p> <p>D5: Bias due to missing data.</p> <p>D6: Bias in measurement of outcomes.</p> <p>D7: Bias in selection of the reported result.</p>								<p>Judgement</p> <p> Low</p>

Supplementary Figure 4



Supplementary Figure 5



Supplementary Figure 6