





<b>System organ class</b>	<b>Adverse Event</b>
Gastrointestinal disorders	Gastritis
	Pancreatitis
Musculoskeletal and connective tissue disorders	Musculoskeletal pain
Renal and urinary disorders	Dysuria
Reproductive system and breast disorders	Breast pain
General disorders and administration site conditions	Chest discomfort

### 2.7 Overdose

There is no experience with overdose in human clinical trials. Single doses higher than 10 mg/kg have not been tested.

### 2.8 Interactions With Other Medicinal Products And Other Forms Of Interaction

There have been no formal drug interaction studies performed with Herceptin in humans. Clinically significant interactions between Herceptin and the concomitant medications used in clinical trials have not been observed (see section 3.2 Pharmacokinetic Properties).

In studies where Herceptin was administered in combination with docetaxel, carboplatin, or anastrozole, the pharmacokinetics of these medications was not altered nor was the pharmacokinetics of trastuzumab altered.

Concentrations of paclitaxel and doxorubicin (and their major metabolites 6- $\alpha$ -hydroxyl-paclitaxel, POH, and doxorubicinol, DOL) were not altered in the presence of trastuzumab. However, trastuzumab may elevate the overall exposure of one doxorubicin metabolite, (7'-deoxy-13 dihydro-doxorubicinone, D7D). The bioactivity of D7D and the clinical impact of the elevation of this metabolite is unclear. No changes were observed in trastuzumab concentrations in the presence of paclitaxel and doxorubicin.

The results of a drug interaction substudy evaluating the pharmacokinetics of capecitabine and cisplatin when used with or without trastuzumab suggested that the exposure to the bioactive metabolites (e.g. 5-FU) of capecitabine was not affected by concurrent use of cisplatin, or by concurrent use of cisplatin plus trastuzumab. However, capecitabine itself showed higher concentrations and a longer half-life when combined with trastuzumab. The data also suggested that the pharmacokinetics of cisplatin were not affected by concurrent use of capecitabine or by concurrent use of capecitabine plus trastuzumab.

## 3. PHARMACOLOGICAL PROPERTIES AND EFFECTS

### 3.1 Pharmacodynamic Properties

#### 3.1.1 Mechanism of Action

Trastuzumab is a recombinant humanized monoclonal antibody that selectively targets the extracellular domain of the human epidermal growth factor receptor 2 protein (HER2). The antibody is an IgG<sub>1</sub> isotype that contains human framework regions with the complementarity-determining regions of a murine anti-p185 HER2 antibody that binds to human HER2.

The HER2 proto-oncogene or *erbB2* encodes for a single transmembrane spanning, receptor-like protein of 185 kDa, which is structurally related to the epidermal growth factor receptor. Overexpression of HER2 is observed in 15%-20% of primary breast cancer. The overall rate of HER2 positivity in advanced gastric cancers as observed during screening for study BO18255 is 15% for IHC3+ or IHC2+/FISH+ or 22.1% when applying the broader definition of IHC3+ or FISH+. A consequence of HER2 gene amplification is an increase in HER2 protein expression on the surface of these tumour cells, which results in a constitutively activated HER2 protein. Studies indicate that breast cancer patients whose tumours have amplification or overexpression of HER2 have a shortened disease-free survival compared to patients whose tumours do not have amplification or overexpression of HER2.

Trastuzumab has been shown, both in *in-vitro* assays and in animals, to inhibit the proliferation of human tumour cells that overexpress HER2. *In vitro*, trastuzumab-mediated antibody-dependent cell-mediated cytotoxicity (ADCC) has been shown to be preferentially exerted on HER2 overexpressing cancer cells compared with cancer cells that do not overexpress HER2.

### 3.1.2 Clinical / Efficacy Studies

#### Metastatic Breast Cancer

Herceptin monotherapy has been used in clinical trials for patients with metastatic breast cancer who have tumours that overexpress HER2 and who have failed one or more chemotherapy regimens for their metastatic disease.

Herceptin has also been used in clinical trials in combination with paclitaxel or an anthracycline (doxorubicin or epirubicin) + cyclophosphamide as first-line therapy for patients with metastatic breast cancer who have tumours that overexpress HER2.

Patients who had previously received anthracycline-based adjuvant chemotherapy were treated with paclitaxel (175 mg/m<sup>2</sup> infused over 3 hours) with or without Herceptin. Patients could be treated with Herceptin until progression of disease.

Herceptin monotherapy, when used as second- or third-line treatment of women with metastatic breast cancer which overexpresses HER2, results in an overall tumour response rate of 15% and a median survival of 13 months.

The use of Herceptin in combination with paclitaxel as first-line treatment of women with metastatic breast cancer that overexpresses HER2 significantly prolongs the median time to disease progression, compared with patients treated with paclitaxel alone. The increase in median time to disease progression for patients treated with Herceptin and paclitaxel is 3.9 months (6.9 months versus, 3.0 months). Tumour response and one year survival rate are also increased for Herceptin in combination with paclitaxel versus paclitaxel alone.

Herceptin has also been studied in a randomized, controlled trial, in combination with docetaxel, as first-line treatment of women with metastatic breast cancer. The combination of Herceptin and docetaxel significantly increased response rate (61% versus 34%) and prolonged the median time to disease progression (by 5.6 months), compared with patients treated with docetaxel alone. Median survival was also significantly increased in patients receiving the combination, compared with those receiving docetaxel alone (31.2 months versus 22.7 months).

#### Combination treatment with Herceptin and anastrozole

Herceptin has been studied in combination with anastrozole for first-line treatment of metastatic breast cancer in HER2 overexpressing, hormone-receptor [i.e. oestrogen-receptor (ER) and/or progesterone-receptor (PR)] positive patients. Progression-free survival was doubled in the Herceptin + anastrozole arm compared to anastrozole (4.8 months versus 2.4 months). For the other parameters the improvements seen for the combination were: for overall response (16.5% versus 6.7%); clinical benefit rate (42.7% versus 27.9%); time to progression (4.8 months versus 2.4 months). For time to response and duration of response no difference could be recorded between the arms. The median overall survival was extended by 4.6 months for patients in the combination arm. The difference was not statistically significant; however, more than half of the patients in the anastrozole alone arm crossed over to a Herceptin containing regimen after progression of disease. Fifty-two percent of the patients taking Herceptin + anastrozole survived for at least 2 years compared to 45% taking anastrozole alone.

#### Early Breast Cancer

In the *adjuvant treatment setting*, Herceptin was investigated in 4 large multicenter, randomized, phase 3 trials:

- The Study BO16348 was designed to compare one and two years of three-weekly Herceptin treatment versus observation in patients with HER2 positive early breast cancer following surgery, established chemotherapy and radiotherapy (if applicable). In addition, a comparison of two years of Herceptin treatment versus one year of Herceptin treatment was performed. Patients assigned to receive Herceptin were given an initial loading dose of 8 mg/kg, followed by 6 mg/kg every three weeks for either one or two years.
- Studies NSABP B-31 and NCCTG N9831 that comprise the joint analysis were designed to investigate the clinical utility of combining Herceptin IV treatment with paclitaxel following AC chemotherapy; additionally the NCCTG N9831 study investigated adding Herceptin sequentially to AC-paclitaxel chemotherapy in patients with HER2-positive early breast cancer following surgery.
- Study BCIRG 006 was designed to investigate combining Herceptin IV treatment with docetaxel either following AC chemotherapy or in combination with docetaxel and carboplatin in patients with HER2-positive early breast cancer following surgery.

Early breast cancer in the BO16348 study was limited to operable, primary, invasive adenocarcinoma of the breast, with axillary nodes-positive or axillary nodes-negative tumours of at least 1 cm in diameter.

The efficacy results from the BO16348 study are summarized in the following table:

Parameter	Median follow-up 12 months		Median follow-up 8 years	
	Observation N=1693	Herceptin 1 Year N = 1693	Observation N= 1697***	Herceptin 1 Year N = 1702***
Disease-free survival <ul style="list-style-type: none"><li>- No. patients with event</li><li>- No. patients without event</li></ul>	219 (12.9%) <p>1474 (87.1%)</p>	127 (7.5%) <p>1566 (92.5%)</p>	570 (33.6%) <p>1127 (66.4%)</p>	471 (27.7%) <p>1231 (72.3%)</p>
P-value versus Observation	< 0.0001		< 0.0001	
Hazard Ratio versus Observation	0.54		0.76	

Parameter	Median follow-up 12 months		Median follow-up 8 years	
	Observation N=1693	Herceptin 1 Year N = 1693	Observation N= 1697***	Herceptin 1 Year N = 1702***
Recurrence-free survival <ul style="list-style-type: none"><li>- No. patients with event</li><li>- No. patients without event</li></ul>	208 (12.3%) <p>1485 (87.7%)</p>	113 (6.7%) <p>1580 (93.3%)</p>	506 (29.8%) <p>1191 (70.2%)</p>	399 (23.4%) <p>1303 (76.6%)</p>
P-value versus Observation	< 0.0001		< 0.0001	
Hazard Ratio versus Observation	0.51		0.73	
Distant disease-free survival <ul style="list-style-type: none"><li>- No. patients with event</li><li>- No. patients without event</li></ul>	184 (10.9%) <p>1508 (89.1%)</p>	99 (5.8%) <p>1594 (94.6%)</p>	488 (28.8%) <p>1209 (71.2%)</p>	399 (23.4%) <p>1303 (76.6%)</p>
P-value versus Observation	< 0.0001		< 0.0001	
Hazard Ratio versus Observation	0.50		0.76	
Overall survival (death) <ul style="list-style-type: none"><li>- No. patients with event</li><li>- No. patients without event</li></ul>	40 (2.4%) <p>1653 (97.6%)</p>	31 (1.8%) <p>1662 (98.2%)</p>	350 (20.6%) <p>1347 (79.4%)</p>	278 (16.3%) <p>1424 (83.7%)</p>
P-value versus Observation	0.24		0.0005	
Hazard Ratio versus Observation	0.75		0.76	

\* Co-primary endpoint of DFS of 1 year vs observation met the pre-defined statistical boundary
\*\* Final analysis (including crossover of 52% of patients from the observation arm to Herceptin)
\*\*\* There is a discrepancy in the overall sample size due to a small number of patients who were randomized after the cut-off date for the 12-month median follow-up analysis

The efficacy results from the interim efficacy analysis crossed the protocol pre-specified statistical boundary for the comparison of 1-year of Herceptin vs. observation. After a median follow-up of 12 months, the hazard ratio (HR) for disease-free survival (DFS) was 0.54 (95% CI 0.44, 0.67) which translates into an absolute benefit, in terms of a 2-year disease-free survival rate, of 7.6 percentage points (85.8% versus 78.2%) in favour of the Herceptin arm. A final analysis was performed after a median follow-up of 8 years, which showed that 1-year Herceptin treatment is associated with a 24% risk reduction compared to observation only (HR=0.76, 95% CI 0.67, 0.86). This translates into an absolute benefit in terms of 8- $\alpha$ -year disease-free survival rate of 6.4 percentage points in favour of 1 year Herceptin treatment.

In this final analysis, extending Herceptin treatment for a duration of two years did not show additional benefit over treatment for 1 year [DFS HR in the intent to treat (ITT) population of 2 years versus 1 year=0.99 (95% CI: 0.87, 1.13), p-value=0.90 and OS HR=0.98 (0.83, 1.15); p-value= 0.78]. The rate of asymptomatic cardiac dysfunction was increased in the 2-year treatment arm (8.1% versus 4.6% in the 1-year treatment arm). More patients experienced at least one Grade 3 or 4 adverse event in the 2-year treatment arm (20.4%) compared with the 1-year treatment arm (16.3%).

In the joint analysis of the NSAPB B-31 and NCCTG N9831 studies, early breast cancer was limited to women with operable breast cancer at high risk, defined as HER2-positive and axillary lymph node-positive or HER2-positive and lymph node-negative with high risk features (tumour size > 1 cm and ER-negative or tumour size > 2 cm, regardless of hormonal status). Herceptin was administered in combination with paclitaxel, following AC chemotherapy. Paclitaxel was administered as follows:

- intravenously paclitaxel - 80 mg/m<sup>2</sup> as a continuous IV infusion, given every week for 12 weeks, or
- intravenously paclitaxel - 175 mg/m<sup>2</sup> as a continuous IV infusion, given every 3 weeks for 4 cycles (day 1 of each cycle).

**Table 8 Summary of Efficacy Results from the Joint Analysis of Studies NSABP B-31 and NCCTG N9831 at the Time of the Definitive DFS Analysis<sup>a</sup>:**

Parameter	AC→P (N=1679)	AC→PH (N=1672)	p-value versus AC→P	Hazard Ratio versus AC→P (95% CI)
Disease-free survival				
No. patients with event (%)	261 (15.5)	133 (8.0)	< 0.0001	0.48 (0.39, 0.59)
Distant recurrence				
No. patients with event (%)	193 (11.5)	96 (5.7)	< 0.0001	0.47 (0.37, 0.60)
Death (OS event):				
No. patients with event (%)	92 (5.5)	62 (3.7)	0.014**	0.67 (0.48, 0.92)

A: doxorubicin; C: cyclophosphamide; P: paclitaxel; H: trastuzumab
\*\* At median duration of follow up of 1.8 years for the patients in the AC→P arm and 2.0 years for patients in the AC→PH arm
\*\*\* p value for OS did not cross the pre-specified statistical boundary for comparison of AC→PH vs. AC→P
Source: Table 15 Clinical Study Report: Joint Analysis of B-31 and N9831, 04 February 2006, Genentech, Inc.

For the primary endpoint, DFS, the addition of Herceptin to paclitaxel chemotherapy resulted in a 52% decrease in the risk of disease recurrence. The hazard ratio translates into an absolute benefit, in terms of a 3-year disease-free survival rate, of 11.8 percentage points (87.2% versus 75.4% in favour of the AC→PH (Herceptin) arm.

The pre-planned final analysis of OS from the joint analysis of studies NSABP B-31 and NCCTG N9831 was performed when 707 deaths had occurred (median follow-up 8.3 years in the AC→P/H group). Treatment with AC→P/H resulted in a statistically significant improvement in OS compared with AC→P (stratified HR=0.64; 95% CI [0.55, 0.74]; log-rank p-value < 0.0001). At 8 years, the survival rate was estimated to be 86.9% in the AC→P/H arm and 79.4% in the AC→P arm, an absolute benefit of 7.4% (95% CI 4.9%, 10.0%).

The final OS results from the joint analysis of studies NSABP B-31 and NCCTG N9831 are summarized in the following table:

Parameter	AC→P (N=2032)	AC→PH31 (N=2031)	p-value versus AC→P	Hazard Ratio versus AC→P (95% CI)
Death (OS event):				
No. patients with event (%)	418 (20.6%)	289 (14.2%)	< 0.0001	0.64 (0.55, 0.74)

A: doxorubicin; C: cyclophosphamide; P: paclitaxel; H: trastuzumab

In the BCIRG 006 study, HER2-positive, early breast cancer was limited to either lymph node-positive or high risk node-negative patients, defined as negative (pN0) lymph node involvement, and at least 1 of the following factors: tumour size greater than 2 cm, oestrogen receptor- and progesterone receptor-negative, histologic and/or nuclear grade 2 - 3, or age < 35 years. Herceptin was administered either in combination with docetaxel, following AC chemotherapy (AC-DH) or in combination with docetaxel and carboplatin (DCarBH).

Docetaxel was administered as follows:

- intravenously (100 mg/m<sup>2</sup> as an IV infusion over 1 hour) given every 3 weeks for 4 cycles (day 2 of first docetaxel cycle, then day 1 of each subsequent cycle), or
- intravenously (75 mg/m<sup>2</sup> as an IV infusion over 1 hour) given every 3 weeks for 6 cycles (day 2 of cycle 1, then day 1 of each cycle).

Docetaxel therapy was followed by carboplatin (at target AUC = 6 mg/ml/min) administered by IV infusion over 30-60 minutes repeated every 3 weeks for a total of 6 cycles.

The efficacy results from the BCIRG 006 study are summarized in the following tables:

Parameter	AC→D (N=1073)	AC→DH (N=1074)	p-value versus AC→D (log-rank)	Hazard Ratio versus AC→D (95% CI)
Disease-free survival				
No. patients with event	195	134	< 0.0001	0.61 (0.49, 0.77)
Distant recurrence				
No. patients with event	144	95	< 0.0001	0.59 (0.46, 0.77)
Overall Survival (Death)				
No. patients with event	80	49	0.0024	0.58 (0.40, 0.83)

AC→D = doxorubicin + cyclophosphamide, followed by docetaxel; AC→DH = doxorubicin + cyclophosphamide, followed by docetaxel + trastuzumab; CI = confidence interval

Parameter	AC→D (N=1073)	DCarBH (N=1075)	p-value versus AC→D (log-rank)	Hazard Ratio versus AC→D (95% CI)
Disease-free survival				
No. patients with event	195	145	0.0003	0.67 (0.54, 0.83)
Distant recurrence				
No. patients with event	144	103	0.0008	0.65 (0.50, 0.84)

Parameter	AC→D (N=1073)	DCarBH (N=1075)	p-value versus AC→D (log-rank)	Hazard Ratio versus AC→D (95% CI)
Death (OS event)				
No. patients with event	80	56	0.0182	0.66 (0.47, 0.93)

AC→D = doxorubicin + cyclophosphamide, followed by docetaxel; DCarBH = docetaxel, carboplatin and trastuzumab; CI = confidence interval

In the BCIRG 006 study for the primary endpoint, DFS, the hazard ratio translates into an absolute benefit, in terms of a 3-year disease-free survival rate, of 5.8 percentage points (86.7% versus 80.9%) in favour of the AC→DH (Herceptin) arm and 4.6 percentage points (85.5% versus 80.9%) in favour of the DCarBH (Herceptin) arm compared to AC→D.

For the secondary endpoint overall survival, treatment with AC→DH reduced the risk of death by 42% when compared to AC→D (hazard ratio 0.58 [95% CI: 0.40, 0.83], p = 0.0024, log-rank test), and the risk of death was reduced by 34% for patients treated with DCarBH compared to patients treated with AC→D (hazard ratio 0.66 [95% CI: 0.47, 0.93], p = 0.0182). In the BCIRG 006 study at the second interim analysis, 185 randomized patients had died: 80 patients (7.5%) in the AC→D arm, 49 patients (4.6%) in the AC→DH arm, and 56 patients (5.2%) in the DCarBH arm. The median duration of follow-up was 2.9 years in the AC→D arm and 3.0 years in both the AC→DH and DCarBH arms.

In the neoadjuvant-adjuvant treatment setting, Herceptin was evaluated in two phase 3 trials.

- Study MO16432 investigated a total of 10 cycles of neoadjuvant chemotherapy [an anthracycline and a taxane (AP+H followed by P+H, followed by CMF+H) concurrently with neoadjuvant-adjuvant Herceptin, or neoadjuvant chemotherapy alone, followed by adjuvant Herceptin for up to a total treatment duration of 1 year] in newly diagnosed locally advanced (Stage III) or inflammatory HER2 positive breast cancer patients.
- Study BO22227 was designed to demonstrate non-inferiority of treatment with Herceptin SC versus Herceptin IV based on co-primary PK and efficacy endpoints (trastuzumab C<sub>0max</sub> at pre-dose Cycle 8, and pCR rate at definitive surgery, respectively). Patients with HER2-positive, operable or locally advanced breast cancer (LABC) including inflammatory breast cancer received eight cycles of either Herceptin IV or Herceptin SC concurrently with chemotherapy (docetaxel followed by FEC), followed by surgery, and continued therapy with Herceptin SC or Herceptin IV as originally randomized for an additional 10 cycles, for a total of one year of treatment.

The efficacy results from Study MO16432 are summarized in the table below. The median duration of follow-up in the Herceptin arm was 3.8 years.

Parameter	Chemo + Herceptin (N=115)	Chemo only (N=116)	
Event-free survival			Hazard Ratio (95% CI)
No. patients with event	46	59	0.65 (0.44, 0.96) p=0.0275
Total pathological complete response <sup>a</sup> (95% CI)	40% (31.0, 49.6)	20.7% (13.7, 29.2)	p=0.0014

<sup>a</sup> Defined as absence of any invasive cancer both in the breast and axillary nodes.

For the primary endpoint, EFS, the addition of Herceptin to the neoadjuvant chemotherapy followed by adjuvant Herceptin for a total duration of 52 weeks resulted in a 35% reduction in the risk of disease recurrence/progression. The hazard ratio translates into an absolute benefit, in terms of 3-year event-free survival rate estimates of 13 percentage points (65% versus 52%) in favour of the Herceptin arm.

In Study BO22227 the analysis of the efficacy co-primary endpoint, pCR, defined as absence of invasive neoplastic cells in the breast, resulted in rates of 40.7% (95% CI: 34.7, 46.9) in the Herceptin IV arm and 45.4% (95% CI: 39.2%, 51.7%) in the Herceptin SC arm, a difference of 4.7% in favour of the Herceptin SC arm. The lower boundary of the one-sided 97.5% confidence interval for the difference in pCR rates was -4.0, whereas the pre-defined non-inferiority margin was -12.5%, establishing the non-inferiority of Herceptin SC for the co-primary endpoint.

	Herceptin IV (N = 263)	Herceptin SC (N=260)
pCR (absence of invasive neoplastic cells in breast)	107 (40.7%)	118 (45.4%)
Non-responders	156 (59.3%)	142 (54.6%)
Exact 95% CI for pCR Rate <sup>1</sup>	(34.7; 46.9)	(39.2; 51.7)
Difference in pCR (SC minus IV arm)	4.70	
Lower bound one-sided 97.5% CI for the difference in pCR <sup>2</sup>	-4.0	

1 Confidence interval for one sample binomial using Pearson-Chopper method
2 Continuity correction of Anderson and Hauck (1986) has been used in this calculation

Analyses with longer term follow-up of a median duration exceeding 40 months supported the non-inferior efficacy of Herceptin SC compared to Herceptin IV with comparable results of both EFS and OS (3-year EFS rates of 73% in the Herceptin IV arm and 76% in the Herceptin SC arm, and 3-year OS rates of 90% in the Herceptin IV arm and 92% in the Herceptin SC arm).

For non-inferiority of the PK co-primary endpoint, steady-state trastuzumab C<sub>0max</sub> value at the end of treatment Cycle 7, refer to section 3.2. Pharmacokinetic Properties.

The final analysis at a median follow-up exceeding 70 months showed similar EFS and OS between patients who received Herceptin IV and those who received Herceptin SC. The 6-year EFS rate was 65% in both arms (ITT population: HR=0.98 [95% CI: 0.74; 1.29]) and the OS rate, 84% in both arms (ITT population: HR=0.94 [95% CI: 0.61; 1.45]).

#### Advanced Gastric Cancer

The efficacy results from the BO18255 study are summarized in Table 14. Patients with previously untreated for HER2-positive inoperable locally advanced or recurrent and/or metastatic adenocarcinoma of the stomach or gastro-oesophageal junction not amenable to curative therapy were recruited. The primary endpoint was overall survival which was defined as the time from the date of randomization to the date of death from any cause. At the time of the analysis a total of 349 randomized patients had died: 182 patients (62.8%) in the control arm and 167 patients (56.8%) in the treatment arm. The majority of the deaths were due to events related to the underlying cancer.

The overall survival was significantly improved in the Herceptin + capecitabine/5-FU and cisplatin arm compared to the capecitabine/5-FU and cisplatin arm (p = 0.0046, log-rank test). The median survival time was 11.1 months with capecitabine/5-FU and cisplatin and 13.8 months with Herceptin + capecitabine/5-FU and cisplatin. The risk of death was decreased by 26% (hazard ratio [HR] 0.74 95% CI [0.60-0.91]) for patients in the Herceptin arm compared to the capecitabine/5-FU arm.

Post-hoc subgroup analyses indicate that targeting tumours with higher levels with HER2 protein (IHC 2+ /FISH+ and IHC 3+ /regardless of the FISH status) results in a greater treatment effect. The median overall survival for the high HER2-expressing group was 11.8 months versus 16 months, HR 0.65 (95% CI 0.51-0.83) and the median progression-free survival was 5.5 months versus 7.6 months, HR 0.64 (95% CI 0.51-0.79) for capecitabine/5-FU and cisplatin and Herceptin + capecitabine/5-FU and cisplatin, respectively.

In a method comparison study a high degree of concordance (> 95%) was observed for SISH and FISH techniques for the detection of HER2 gene amplification in gastric cancer patients.

Parameter	FP N = 290	H+FP N = 294	HR (95% CI)	p-value
Overall Survival, Median	11.1	13.8	0.74 (0.60-0.91)	0.0046
Progression-Free Survival, Median months	5.5	6.7	0.71 (0.59-0.85)	0.0002
Time to Disease Progression, Median months	5.6	7.1	0.70 (0.58-0.85)	0.0003
Overall Response Rate, %	34.5%	47.3%	1.70 (1.22, 2.38)	0.0017
Duration of Response, Median months	4.8	6.9	0.54 (0.40-0.73)	< 0.0001

FP: Fluoropyrimidine/cisplatin
H+ FP: Fluoropyrimidine/cisplatin + Herceptin
<sup>a</sup> Odds ratio

### 3.1.3 Immunogenicity