



Clinical trial results:

A randomized, multicenter open-label phase III study of neoadjuvant lapatinib, trastuzumab and their combination plus paclitaxel in women with HER2/ErbB2 positive primary breast cancer

Summary

EudraCT number	2006-000564-81
Trial protocol	FR DE BE GB LT GR HU ES IT SE
Global end of trial date	23 December 2019

Results information

Result version number	v1
This version publication date	06 January 2021
First version publication date	06 January 2021

Trial information

Trial identification

Sponsor protocol code	EGF106903
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00553358
WHO universal trial number (UTN)	-
Other trial identifiers	CLAP016B2302: CLAP016B2302

Notes:

Sponsors

Sponsor organisation name	Novartis Pharma AG
Sponsor organisation address	Novartis Campus, Basel, Switzerland, CH-4002
Public contact	Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, Novartis.email@Novartis.com
Scientific contact	Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, Novartis.email@Novartis.com

Notes:

Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

Results analysis stage

Analysis stage	Final
Date of interim/final analysis	23 December 2019
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	23 December 2019
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

The primary objective of this study was to evaluate and compare the rate of pathological complete response (pCR) at the time of surgery in subjects with HER2 overexpressing or amplified operable breast cancer randomized to lapatinib followed by lapatinib plus paclitaxel versus trastuzumab followed by trastuzumab plus paclitaxel versus lapatinib in combination with trastuzumab followed by lapatinib, trastuzumab plus paclitaxel.

Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and the International Conference on Harmonization (ICH) Good Clinical Practice (GCP) guidelines. All the local regulatory requirements pertinent to safety of trial subjects were also followed during the conduct of the trial.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	05 January 2008
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled	Argentina: 17
Country: Number of subjects enrolled	Belgium: 33
Country: Number of subjects enrolled	Brazil: 8
Country: Number of subjects enrolled	Canada: 1
Country: Number of subjects enrolled	Czechia: 10
Country: Number of subjects enrolled	France: 22
Country: Number of subjects enrolled	Germany: 49
Country: Number of subjects enrolled	Hong Kong: 7
Country: Number of subjects enrolled	Hungary: 11
Country: Number of subjects enrolled	India: 12
Country: Number of subjects enrolled	Italy: 16
Country: Number of subjects enrolled	Korea, Republic of: 27
Country: Number of subjects enrolled	Lithuania: 2
Country: Number of subjects enrolled	Norway: 5
Country: Number of subjects enrolled	Peru: 39
Country: Number of subjects enrolled	Romania: 6
Country: Number of subjects enrolled	Russian Federation: 25

Country: Number of subjects enrolled	South Africa: 26
Country: Number of subjects enrolled	Spain: 45
Country: Number of subjects enrolled	Sweden: 2
Country: Number of subjects enrolled	Taiwan: 57
Country: Number of subjects enrolled	Ukraine: 23
Country: Number of subjects enrolled	United Kingdom: 12
Worldwide total number of subjects	455
EEA total number of subjects	213

Notes:

Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	403
From 65 to 84 years	52
85 years and over	0

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

This was a parallel group, three-arm, randomized, multicenter, open-label phase III study (Figure 9-1). The study compared the efficacy and tolerability of neoadjuvant lapatinib and paclitaxel, versus trastuzumab and paclitaxel, versus the combination of lapatinib with trastuzumab and paclitaxel.

Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Not blinded

Arms

Are arms mutually exclusive?	Yes
Arm title	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg

Arm description:

Oral lapatinib 1000 mg daily plus trastuzumab 4 mg/kg IV load followed by 2 mg/kg IV weekly for 6 weeks, followed by lapatinib 750 mg daily plus trastuzumab (2 mg/kg IV weekly) plus weekly paclitaxel (80 mg/m² IV) for an additional 12 weeks

Arm type	Experimental
Investigational medicinal product name	Lapatinib + Trastuzumab
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solvent for parenteral use, Film-coated tablet
Routes of administration	Oral use, Parenteral use

Dosage and administration details:

Oral lapatinib (1000 mg daily) plus trastuzumab (4 mg/kg iv load followed by 2 mg/kg iv weekly) for 6 weeks, followed by lapatinib (750 mg daily) plus trastuzumab (2 mg/kg iv weekly) plus weekly paclitaxel (80 mg/m² iv) for an additional 12 weeks.

Arm title	Lapatinib 1500 mg
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Arm description:

Oral lapatinib (1500 milligrams [mg] daily) for 6 weeks, followed by lapatinib plus weekly paclitaxel (80 mg per meters squared [mg/m²]) intravenous (IV) for an additional 12 weeks

Arm type	Experimental
Investigational medicinal product name	Lapatinib
Investigational medicinal product code	LAP016
Other name	GW572016
Pharmaceutical forms	Film-coated tablet
Routes of administration	Oral use

Dosage and administration details:

Oral lapatinib (1500 mg daily) for 6 weeks, followed by lapatinib plus weekly paclitaxel (80 mg/m² iv) for an additional 12 weeks

Arm title	Trastuzumab 2 mg/kg
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Arm description:

Trastuzumab (4 mg/kilograms [kg] IV load followed by 2 mg/kg IV weekly) for 6 weeks, followed by trastuzumab plus weekly paclitaxel (80 mg/m² IV) for an additional 12 weeks

Arm type	Active comparator
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Investigational medicinal product name	Trastuzumab
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solvent for parenteral use
Routes of administration	Parenteral use

Dosage and administration details:

Trastuzumab (4 mg/kg iv load followed by 2 mg/kg iv weekly) for 6 weeks, followed by trastuzumab plus weekly paclitaxel (80 mg/m² iv) for an additional 12 weeks

Number of subjects in period 1	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg
Started	152	154	149
Completed	73	58	61
Not completed	79	96	88
Died during clinical follow-up	25	29	32
Randomized but did not receive treatment	3	3	1
Died after clinical follow-up ended	1	2	-
Withdrew (survival only) – alive at end of f-up	1	1	1
Lost to follow-up	22	26	18
Not dead but last f/up was prior to year 10	4	2	2
Withdrew completely	23	33	34

Baseline characteristics

Reporting groups

Reporting group title	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg
Reporting group description:	
Oral lapatinib 1000 mg daily plus trastuzumab 4 mg/kg IV load followed by 2 mg/kg IV weekly for 6 weeks, followed by lapatinib 750 mg daily plus trastuzumab (2 mg/kg IV weekly) plus weekly paclitaxel (80 mg/m ² IV) for an additional 12 weeks	
Reporting group title	Lapatinib 1500 mg
Reporting group description:	
Oral lapatinib (1500 milligrams [mg] daily) for 6 weeks, followed by lapatinib plus weekly paclitaxel (80 mg per meters squared [mg/m ²]) intravenous (IV) for an additional 12 weeks	
Reporting group title	Trastuzumab 2 mg/kg
Reporting group description:	
Trastuzumab (4 mg/kilograms [kg] IV load followed by 2 mg/kg IV weekly) for 6 weeks, followed by trastuzumab plus weekly paclitaxel (80 mg/m ² IV) for an additional 12 weeks	

Reporting group values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg
Number of subjects	152	154	149
Age categorical			
Units: Participants			
In utero	0	0	0
Preterm newborn infants (gestational age < 37 wks)	0	0	0
Newborns (0-27 days)	0	0	0
Infants and toddlers (28 days-23 months)	0	0	0
Children (2-11 years)	0	0	0
Adolescents (12-17 years)	0	0	0
Adults (18-64 years)	130	137	136
From 65-84 years	22	17	13
85 years and over	0	0	0
Age continuous			
Units: years			
median	50.0	50	49.0
full range (min-max)	25 to 80	28 to 79	23 to 77
Gender categorical			
Units: Subjects			
Female	152	154	149
Male	0	0	0
GenderNIH			
Units: Subjects			
Female	152	154	149
Male	0	0	0
Race/Ethnicity, Customized			
Units: Subjects			
American Indian or Alaska Native	15	13	14
Asian - Central/South	5	7	5
Asian - East	31	30	28
Asian - South East	2	0	0

Black or African American/African Heritage	4	0	4
White - Arabic/North African Heritage	3	6	5
White - Caucasian European Heritage	92	97	93
Missing	0	1	0
Number of participants with tumor cells of the indicated histologic grade			
Histologic grade, also called differentiation, refers to how much the tumor cells resemble normal cells of the same tissue type.			
Units: Subjects			
Well differentiated	5	2	5
Moderately differentiated	63	56	53
Poorly differentiated	64	73	68
Differentiation cannot be assessed	20	22	23
Missing	0	1	0
Number of participants with lymph nodes (LNs) of the indicated clinical N stage			
Clinical N stage is an evaluation/staging of LN status through physical examination. N0, no regional LN metastasis; N1, metastasis to movable ipsilateral axillary LNs (IALNs); N2a, metastasis in IALNs fixed to one another (matted) or the other structures; N2b, metastasis only in clinically apparent ipsilateral internal mammary nodes and in the absence of clinically evident axillary LN metastasis; N3a, metastasis in ipsilateral infraclavicular LNs; N3b, metastasis in ipsilateral internal mammary LNs fixed and axillary LN; N3c, metastasis in ipsilateral subclavicular LNs; Nx, not assessed.			
Units: Subjects			
N 0	48	34	41
N 1	80	95	85
N2 (including N2a and N2b)	15	19	13
N3 (including N3a, N3b, and N3c)	6	6	7
N x	3	0	3
Number of participants with the indicated IHC results			
An Immunohistochemistry (IHC) test gives a score of 0 to 3+, which indicates the amount of Human Epidermal Growth Factor (HER2) receptor proteins on the cancer cells in the sample tissue. A positive score (3+) indicates that HER2 receptor protein is present, a negative score (0-1+) indicates that no HER2 receptor protein is present, and an equivocal score (2+) indicates uncertainty and a result that is open for interpretation. Equivocal results require additional testing. "Not applicable" refers to the number of participants who did not have IHC testing done.			
Units: Subjects			
Not applicable	61	60	53
Equivocal: Score of 2+	8	9	5
Positive: Score of 3+	76	81	89
Negative: Score of 0-1+	3	0	1
Non interpretable	4	4	1
Number of participants with the indicated FISH results			
The Fluorescent In Situ Hybridization (FISH) assay was used to determine the overexpression and/or amplification of HER2 in the invasive component of the primary tumor. Amplified indicates that the cell is overexpressing copies of the HER2 gene. Not amplified indicates that there is no overexpression of copies of the HER2 gene. "Not applicable" refers to the number of participants who did not have the FISH assay performed.			
Units: Subjects			
Not applicable	41	38	42
Amplified	109	115	105
Not amplified	1	1	2
Not interpretable	1	0	0

AgeContinuous Units: Years median full range (min-max)	50.0 25 to 80	50.0 28 to 79	49.0 23 to 77
Reporting group values	Total		
Number of subjects	455		
Age categorical Units: Participants			
In utero	0		
Preterm newborn infants (gestational age < 37 wks)	0		
Newborns (0-27 days)	0		
Infants and toddlers (28 days-23 months)	0		
Children (2-11 years)	0		
Adolescents (12-17 years)	0		
Adults (18-64 years)	403		
From 65-84 years	52		
85 years and over	0		
Age continuous Units: years median full range (min-max)	-		
Gender categorical Units: Subjects			
Female	455		
Male	0		
GenderNIH Units: Subjects			
Female	455		
Male	0		
Race/Ethnicity, Customized Units: Subjects			
American Indian or Alaska Native	42		
Asian - Central/South	17		
Asian - East	89		
Asian - South East	2		
Black or African American/African Heritage	8		
White - Arabic/North African Heritage	14		
White - Caucasian European Heritage	282		
Missing	1		
Number of participants with tumor cells of the indicated histologic grade			
Histologic grade, also called differentiation, refers to how much the tumor cells resemble normal cells of the same tissue type.			
Units: Subjects			
Well differentiated	12		
Moderately differentiated	172		
Poorly differentiated	205		
Differentiation cannot be assessed	65		

Missing	1		
Number of participants with lymph nodes (LNs) of the indicated clinical N stage			
Clinical N stage is an evaluation/staging of LN status through physical examination. N0, no regional LN metastasis; N1, metastasis to movable ipsilateral axillary LNs (IALNs); N2a, metastasis in IALNs fixed to one another (matted) or the other structures; N2b, metastasis only in clinically apparent ipsilateral internal mammary nodes and in the absence of clinically evident axillary LN metastasis; N3a, metastasis in ipsilateral infraclavicular LNs; N3b, metastasis in ipsilateral internal mammary LNs fixed and axillary LN; N3c, metastasis in ipsilateral subclavicular LNs; Nx, not assessed.			
Units: Subjects			
N 0	123		
N 1	260		
N2 (including N2a and N2b)	47		
N3 (including N3a, N3b, and N3c)	19		
N x	6		
Number of participants with the indicated IHC results			
An Immunohistochemistry (IHC) test gives a score of 0 to 3+, which indicates the amount of Human Epidermal Growth Factor (HER2) receptor proteins on the cancer cells in the sample tissue. A positive score (3+) indicates that HER2 receptor protein is present, a negative score (0-1+) indicates that no HER2 receptor protein is present, and an equivocal score (2+) indicates uncertainty and a result that is open for interpretation. Equivocal results require additional testing. "Not applicable" refers to the number of participants who did not have IHC testing done.			
Units: Subjects			
Not applicable	174		
Equivocal: Score of 2+	22		
Positive: Score of 3+	246		
Negative: Score of 0-1+	4		
Non interpretable	9		
Number of participants with the indicated FISH results			
The Fluorescent In Situ Hybridization (FISH) assay was used to determine the overexpression and/or amplification of HER2 in the invasive component of the primary tumor. Amplified indicates that the cell is overexpressing copies of the HER2 gene. Not amplified indicates that there is no overexpression of copies of the HER2 gene. "Not applicable" refers to the number of participants who did not have the FISH assay performed.			
Units: Subjects			
Not applicable	121		
Amplified	329		
Not amplified	4		
Not interpretable	1		
AgeContinuous			
Units: Years			
median			
full range (min-max)	-		

Subject analysis sets

Subject analysis set title	Intent to treat
Subject analysis set type	Intention-to-treat

Subject analysis set description:

Intent-to-Treat (ITT) Population: all participants randomized to treatment, except for those who withdrew their consent to use any of their data (permitted by law in certain countries) prior to receiving any study medication

Reporting group values	Intent to treat		
Number of subjects	455		
Age categorical Units: Participants			
In utero	0		
Preterm newborn infants (gestational age < 37 wks)	0		
Newborns (0-27 days)	0		
Infants and toddlers (28 days-23 months)	0		
Children (2-11 years)	0		
Adolescents (12-17 years)	0		
Adults (18-64 years)	403		
From 65-84 years	52		
85 years and over	0		
Age continuous Units: years			
median	50.0		
full range (min-max)	23 to 80		
Gender categorical Units: Subjects			
Female	455		
Male	0		
GenderNIH Units: Subjects			
Female			
Male			
Race/Ethnicity, Customized Units: Subjects			
American Indian or Alaska Native			
Asian - Central/South			
Asian - East			
Asian - South East			
Black or African American/African Heritage			
White - Arabic/North African Heritage			
White - Caucasian European Heritage			
Missing			
Number of participants with tumor cells of the indicated histologic grade			
Histologic grade, also called differentiation, refers to how much the tumor cells resemble normal cells of the same tissue type.			
Units: Subjects			
Well differentiated			
Moderately differentiated			
Poorly differentiated			
Differentiation cannot be assessed			
Missing			
Number of participants with lymph nodes (LNs) of the indicated clinical N stage			
Clinical N stage is an evaluation/staging of LN status through physical examination. N0, no regional LN			

metastasis; N1, metastasis to movable ipsilateral axillary LNs (IALNs); N2a, metastasis in IALNs fixed to one another (matted) or the other structures; N2b, metastasis only in clinically apparent ipsilateral internal mammary nodes and in the absence of clinically evident axillary LN metastasis; N3a, metastasis in ipsilateral infraclavicular LNs; N3b, metastasis in ipsilateral internal mammary LNs fixed and axillary LN; N3c, metastasis in ipsilateral subclavicular LNs; Nx, not assessed.

Units: Subjects			
N 0			
N 1			
N2 (including N2a and N2b)			
N3 (including N3a, N3b, and N3c)			
N x			

Number of participants with the indicated IHC results			
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An Immunohistochemistry (IHC) test gives a score of 0 to 3+, which indicates the amount of Human Epidermal Growth Factor (HER2) receptor proteins on the cancer cells in the sample tissue. A positive score (3+) indicates that HER2 receptor protein is present, a negative score (0-1+) indicates that no HER2 receptor protein is present, and an equivocal score (2+) indicates uncertainty and a result that is open for interpretation. Equivocal results require additional testing. "Not applicable" refers to the number of participants who did not have IHC testing done.

Units: Subjects			
Not applicable			
Equivocal: Score of 2+			
Positive: Score of 3+			
Negative: Score of 0-1+			
Non interpretable			

Number of participants with the indicated FISH results			
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The Fluorescent In Situ Hybridization (FISH) assay was used to determine the overexpression and/or amplification of HER2 in the invasive component of the primary tumor. Amplified indicates that the cell is overexpressing copies of the HER2 gene. Not amplified indicates that there is no overexpression of copies of the HER2 gene. "Not applicable" refers to the number of participants who did not have the FISH assay performed.

Units: Subjects			
Not applicable			
Amplified			
Not amplified			
Not interpretable			

AgeContinuous			
Units: Years			
median	50		
full range (min-max)	23 to 80		

End points

End points reporting groups

Reporting group title	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg
Reporting group description: Oral lapatinib 1000 mg daily plus trastuzumab 4 mg/kg IV load followed by 2 mg/kg IV weekly for 6 weeks, followed by lapatinib 750 mg daily plus trastuzumab (2 mg/kg IV weekly) plus weekly paclitaxel (80 mg/m ² IV) for an additional 12 weeks	
Reporting group title	Lapatinib 1500 mg
Reporting group description: Oral lapatinib (1500 milligrams [mg] daily) for 6 weeks, followed by lapatinib plus weekly paclitaxel (80 mg per meters squared [mg/m ²]) intravenous (IV) for an additional 12 weeks	
Reporting group title	Trastuzumab 2 mg/kg
Reporting group description: Trastuzumab (4 mg/kilograms [kg] IV load followed by 2 mg/kg IV weekly) for 6 weeks, followed by trastuzumab plus weekly paclitaxel (80 mg/m ² IV) for an additional 12 weeks	
Subject analysis set title	Intent to treat
Subject analysis set type	Intention-to-treat
Subject analysis set description: Intent-to-Treat (ITT) Population: all participants randomized to treatment, except for those who withdrew their consent to use any of their data (permitted by law in certain countries) prior to receiving any study medication	

Primary: Number of participants with pathological complete response (pCR) at the time of surgery

End point title	Number of participants with pathological complete response (pCR) at the time of surgery
End point description: Pathological complete response is defined as no invasive cancer in the breast or only non-invasive in situ cancer in the breast specimen. Surgical breast and axillary node resection specimens were evaluated for pathologic tumor response according to National Surgical Adjuvant Breast and Bowel Project (NSABP) guidelines, which do not take into account the histological nodal status.	
End point type	Primary
End point timeframe: Weeks 20 to 22	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: participants	78	38	44	

Statistical analyses

Statistical analysis title	Participants with pCR at the time of surgery
Comparison groups	Lapatinib 1500 mg v Trastuzumab 2 mg/kg

Number of subjects included in analysis	303
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.3416
Method	Binomial
Parameter estimate	Percentage of participants with pCR
Point estimate	-4.85
Confidence interval	
level	Other: 97.5 %
sides	2-sided
lower limit	-17.6
upper limit	8.16

Statistical analysis title	Participants with pCR at the time of surgery
Comparison groups	Trastuzumab 2 mg/kg v Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg
Number of subjects included in analysis	301
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.0001
Method	Binomial
Parameter estimate	Percentage of participants with pCR
Point estimate	21.79
Confidence interval	
level	Other: 97.5 %
sides	2-sided
lower limit	9.08
upper limit	34.23

Secondary: Number of participants with overall response at Week 6

End point title	Number of participants with overall response at Week 6
End point description:	
<p>The number of participants with overall response (complete response and/or partial response) was evaluated using World Health Organization (WHO) criteria by clinical examination and by mammography and breast echography with bi-dimensional measurements at Week 6. As per WHO criteria: complete response is defined as the disappearance of all lesions; partial response is defined as a greater than 50% decrease in the sum of products of the greatest length and width of the largest lesion; progressive disease is defined as a greater than 25% increase in the sum of products of all measurable lesions.</p>	
End point type	Secondary
End point timeframe:	
Week 6	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: participants				
Overall Response	102	81	45	
No Change	33	57	81	
Progressive Disease	2	5	11	
Not Evaluated	12	7	9	
Missing Data	3	4	3	

Statistical analyses

No statistical analyses for this end point

Secondary: Overall response at the time of surgery

End point title	Overall response at the time of surgery
End point description:	
The number of participants with overall response (complete response and/or partial response) was evaluated using WHO criteria by clinical examination and mammography and breast echography with bi-dimensional measurements at the time of surgery (Weeks 20 to 22). As per WHO criteria: complete response is defined as the disappearance of all lesions; partial response is defined as a greater than 50% decrease in the sum of products of the greatest length and width of the largest lesion; progressive disease is defined as a greater than 25% increase in the sum of products of all measurable lesions.	
End point type	Secondary
End point timeframe:	
Time of surgery (Weeks 20 to 22)	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: participants				
Overall Response	122	114	105	
No Change	7	8	16	
Progressive Disease	1	0	2	
Not Evaluated	14	19	20	
Missing Data	8	13	6	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of participants with negative lymph nodes at the time of surgery

End point title	Number of participants with negative lymph nodes at the time of surgery
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End point description:

Participants were assessed for node-negative lymph nodes at the time of surgery. As per the pathological TNM (Tumor, Node, Metastases) classification (pTNM) of malignant tumors: pN, absence or presence and extent of regional lymph node metastasis. Node-negative (pN0) participants had no regional lymph node metastasis. Although not assessed in this measure, pT is the extent of primary tumor, and pM is the absence or presence of distant metastasis.

End point type	Secondary
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End point timeframe:

Time of surgery (Weeks 20 to 22)

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	137	139	140	
Units: participants	100	72	82	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of participants with actual indicated surgery

End point title	Number of participants with actual indicated surgery
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End point description:

Participants were assessed for the type of surgery they underwent for breast cancer. Non-conservative surgery is defined as a radical or modified radical mastectomy. Conservative surgery is comprised of a lumpectomy, a quadrantectomy/segmentectomy, or a partial mastectomy. Participants who were not assessed as being candidates for non-conservative or conservative surgery were classified as non-operable.

End point type	Secondary
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End point timeframe:

At surgery (Weeks 20 to 22)

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: participants				
Conservative	63	66	58	
Non-conservative	80	77	85	
Non-operable	9	11	6	

Statistical analyses

No statistical analyses for this end point

Secondary: Mean change from baseline in tumor size at Week 6 and at surgery

End point title	Mean change from baseline in tumor size at Week 6 and at surgery
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End point description:

Mean change from baseline in tumor in tumor size. Change from baseline in tumor size was defined as tumor size at Week 6/ surgery (Weeks 20 to 22) minus tumor size at baseline. The difference in treatment arms was estimated for Lapatinib 1500 mg versus Trastuzumab 2 mg/kg and for Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg versus Trastuzumab 2 mg/kg.

End point type	Secondary
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End point timeframe:

Week 6 and surgery (Weeks 20 to 22)

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: millimeters				
arithmetic mean (standard deviation)				
Week 6	-25.77 (± 19.91)	-20.45 (± 18.43)	-13.42 (± 16.44)	
Surgery (Weeks 20 to 22)	-43.59 (± 26.88)	-41.01 (± 23.81)	-35.47 (± 22.95)	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of participants starting paclitaxel before completing 6 weeks of treatment with either lapatinib or trastuzumab

End point title	Number of participants starting paclitaxel before completing 6 weeks of treatment with either lapatinib or trastuzumab
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End point description:

Participants with progressive disease at 4 week assessment that were permitted to commence treatment with paclitaxel.

End point type	Secondary
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End point timeframe:

Week 6

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	149	149	146	
Units: participants	6	8	12	

Statistical analyses

No statistical analyses for this end point

Secondary: Event-free Survival (EFS) - Median clinical follow-up

End point title	Event-free Survival (EFS) - Median clinical follow-up
End point description:	
Event free survival (EFS) is defined as the time from randomization to first EFS event. For subjects who had breast cancer surgery, EFS events were post-surgery breast cancer relapse, second primary malignancy or death without recurrence. For subjects who did not have breast cancer surgery, EFS events were death during clinical follow-up or non-completion of any neoadjuvant investigational product due to disease progression.	
End point type	Secondary
End point timeframe:	
From randomization up to approximately year 10	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: years				
median (confidence interval 95%)	9.69 (9.55 to 9.73)	9.60 (8.21 to 9.69)	9.66 (9.50 to 9.72)	

Statistical analyses

No statistical analyses for this end point

Secondary: Event-free Survival (EFS) - Events and censoring

End point title	Event-free Survival (EFS) - Events and censoring
End point description:	
Event free survival (EFS) is defined as the time from randomization to first EFS event. For subjects who had breast cancer surgery, EFS events were post-surgery breast cancer relapse, second primary malignancy or death without recurrence. For subjects who did not have breast cancer surgery, EFS	

events were death during clinical follow-up or non-completion of any neoadjuvant investigational product due to disease progression.

End point type	Secondary
End point timeframe:	
From randomization up to approximately year 10	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: Number of Participants				
Number of subjects with EFS events	43	47	47	
Number of subjects censored - total	109	107	102	
Number of pts censored - Clinical f-up ongoing	0	0	0	
Number of pts censored - f-up ended - total	103	105	99	
Number of pts censored - Completed f-up	61	49	58	
Number of pts censored - Lost to f-up	17	20	10	
Number of pts censored - W/d but consent for f/u	3	6	4	
Number of pts censored - f-up ended - Withdrew	22	30	27	
Number of subjects censored - Other	6	2	3	

Statistical analyses

Statistical analysis title	EFS
Comparison groups	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg v Trastuzumab 2 mg/kg
Number of subjects included in analysis	301
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.548 ^[1]
Method	Regression, Cox
Parameter estimate	Hazard ratio (HR)
Point estimate	0.878
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.57
upper limit	1.34

Notes:

[1] - The two-sided stratified log-rank test was implemented as the score test from the Cox model.

Statistical analysis title	EFS
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Comparison groups	Lapatinib 1500 mg v Trastuzumab 2 mg/kg
Number of subjects included in analysis	303
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.981 ^[2]
Method	Regression, Cox
Parameter estimate	Hazard ratio (HR)
Point estimate	1.005
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.66
upper limit	1.52

Notes:

[2] - The two-sided stratified log-rank test was implemented as the score test from the Cox model.

Secondary: Overall Survival (OS) - Median survival follow-up

End point title	Overall Survival (OS) - Median survival follow-up
End point description:	Overall survival is defined as the period from randomization until death (from any cause). OS was assessed annually for up to 10 years after the randomization of the last participant into the study.
End point type	Secondary
End point timeframe:	From randomization up to approximately year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: years				
median (confidence interval 95%)	9.70 (9.60 to 9.76)	9.62 (8.86 to 9.67)	9.64 (9.35 to 9.71)	

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival (OS) - Deaths and censoring

End point title	Overall Survival (OS) - Deaths and censoring
End point description:	Overall survival is defined as the period from randomization until death (from any cause). OS was assessed annually for up to 10 years after the randomization of the last participant into the study.
End point type	Secondary
End point timeframe:	From randomization up to approximately year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	152	154	149	
Units: Number of Participants				
Number of deaths due to any cause	26	31	32	
Number of subjects censored - total	126	123	117	
Number of pts censored - Survival f-up ongoing	0	0	0	
Number of pts censored - f-up ended - total	120	121	114	
Number of pts censored - Completed f- up	74	59	62	
Number of pts censored - f-up ended - Lost to f-up	22	27	18	
Number of pts censored - f-up ended - Withdrew	24	35	34	
Number of subjects censored - Other	6	2	3	

Statistical analyses

Statistical analysis title	OS
Comparison groups	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg v Trastuzumab 2 mg/kg
Number of subjects included in analysis	301
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.379 ^[3]
Method	Regression, Cox
Parameter estimate	Hazard ratio (HR)
Point estimate	0.788
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.46
upper limit	1.34

Notes:

[3] - The two-sided stratified log-rank test was implemented as the score test from the Cox model.

Statistical analysis title	OS
Comparison groups	Lapatinib 1500 mg v Trastuzumab 2 mg/kg

Number of subjects included in analysis	303
Analysis specification	Pre-specified
Analysis type	
P-value	= 0.88 ^[4]
Method	Regression, Cox
Parameter estimate	Hazard ratio (HR)
Point estimate	0.962
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.58
upper limit	1.6

Notes:

[4] - The two-sided stratified log-rank test was implemented as the score test from the Cox model.

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Median clinical follow-up (EFS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Median clinical follow-up (EFS landmark population)
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End point description:

The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For EFS, the landmark population was the subset of the ITT population who have not had an EFS event within 30 weeks after randomization and were still in clinical follow-up.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	138	134	138	410
Units: years				
median (confidence interval 95%)				
Median clinical follow-up - pCR	9.13 (8.97 to 9.23)	8.08 (6.08 to 9.12)	8.98 (8.38 to 9.21)	9.05 (8.86 to 9.14)
Median clinical follow-up - No pCR	9.10 (7.24 to 9.15)	9.09 (8.52 to 9.19)	9.12 (9.03 to 9.25)	9.11 (9.05 to 9.14)
Overall	9.12 (8.97 to 9.15)	9.05 (8.23 to 9.12)	9.11 (8.96 to 9.17)	9.09 (9.03 to 9.13)

Statistical analyses

No statistical analyses for this end point

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Number of participants with EFS events (EFS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Number of participants with EFS events (EFS landmark population)
-----------------	--

End point description:

The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For EFS, the landmark population was the subset of the ITT population who have not had an EFS event within 30 weeks after randomization and were still in clinical follow-up.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	138	134	138	410
Units: Number of participants				
Number of participants with EFS events - pCR	11	7	11	29
Number of participants with EFS events - No pCR	28	36	34	98
Overall	39	43	45	127

Statistical analyses

No statistical analyses for this end point

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Estimate of hazard ratio of pCR vs. no pCR (EFS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and Event-free Survival (EFS) - Estimate of hazard ratio of pCR vs. no pCR (EFS landmark population)
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End point description:

This reports the estimate of the hazard ratio of pCR vs. no pCR. The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For EFS, the landmark population was the subset of the ITT population who have not had an EFS event within 30 weeks after randomization and were still in clinical follow-up.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	138 ^[5]	134 ^[6]	138 ^[7]	410 ^[8]
Units: Estimate of hazard ratio				
number (confidence interval 95%)	0.350 (0.16 to 0.71)	0.532 (0.21 to 1.16)	0.601 (0.28 to 1.20)	0.481 (0.31 to 0.73)

Notes:

[5] - Estimate of hazard ratio of pCR vs.no pCR

[6] - Estimate of hazard ratio of pCR vs. no pCR

[7] - Estimate of hazard ratio of pCR vs.no pCR

[8] - Estimate of hazard ratio of pCR vs.no pCR

Statistical analyses

No statistical analyses for this end point

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and and Overall Survival (OS) - Median clinical follow-up (OS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and and Overall Survival (OS) - Median clinical follow-up (OS landmark population)
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End point description:

The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For OS, the landmark population was the subset of the ITT population who were alive and were followed up for overall survival 30 weeks after randomization.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	139	139	142	420
Units: years				
median (confidence interval 95%)				
Median clinical follow-up - pCR	9.14 (9.05 to 9.24)	8.31 (7.24 to 9.15)	8.98 (8.02 to 9.21)	9.10 (8.97 to 9.18)
Median clinical follow-up - No pCR	9.09 (7.95 to 9.15)	9.08 (8.95 to 9.14)	9.09 (8.51 to 9.15)	9.09 (9.03 to 9.12)
Overall	9.12 (9.05 to 9.16)	9.07 (8.50 to 9.12)	9.07 (8.86 to 9.14)	9.09 (9.04 to 9.13)

Statistical analyses

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and Overall Survival (OS) - Number of participants with OS events (OS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and Overall Survival (OS) - Number of participants with OS events (OS landmark population)
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End point description:

The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For OS, the landmark population was the subset of the ITT population who were alive and were followed up for overall survival 30 weeks after randomization.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	139	139	142	420
Units: Number of Participants				
Number of participants who died - pCR	5	4	6	15
Number of participants who died - No pCR	19	26	25	70
Overall	24	30	31	85

Statistical analyses

No statistical analyses for this end point

Secondary: Assess associations between locoregional pathological Complete Response (pCR) and Overall Survival (OS) - Estimate of hazard ratio of pCR vs. no pCR (OS landmark population)

End point title	Assess associations between locoregional pathological Complete Response (pCR) and Overall Survival (OS) - Estimate of hazard ratio of pCR vs. no pCR (OS landmark population)
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End point description:

This reports the estimate of the hazard ratio of pCR vs. no pCR. The landmark date is 30 weeks after a subject's randomization. Subjects with missing pCR status were not included in the landmark analysis. For OS, the landmark population was the subset of the ITT population who were alive and were followed up for overall survival 30 weeks after randomization.

End point type	Secondary
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End point timeframe:

up to year 10

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	Intent to treat
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	139 ^[9]	139 ^[10]	142 ^[11]	420 ^[12]
Units: Estimate of hazard ratio				
number (confidence interval 95%)	0.223 (0.07 to 0.58)	0.433 (0.12 to 1.17)	0.414 (0.15 to 1.00)	0.366 (0.20 to 0.63)

Notes:

[9] - Estimate of hazard ratio of pCR vs.no pCR

[10] - Estimate of hazard ratio of pCR vs.no pCR

[11] - Estimate of hazard ratio of pCR vs.no pCR

[12] - Estimate of hazard ratio of pCR vs.no pCR

Statistical analyses

No statistical analyses for this end point

Secondary: To assess safety via a comparison of the three treatment arms - to measure on-treatment primary cardiac endpoints

End point title	To assess safety via a comparison of the three treatment arms - to measure on-treatment primary cardiac endpoints
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End point description:

End point type	Secondary
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End point timeframe:

Adverse events were collected from first dose of study treatment until end of study treatment plus 30 days post treatment, up to maximum duration of 31 weeks.

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	149	151	148	
Units: Participants	2	0	1	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants With Metabolic Response of Complete Response (mCR), Partial Response (mPR), or Stable Disease (mSD) as Determined by Positron Emission Tomography/Computed Tomography (PET/CT)

End point title	Number of Participants With Metabolic Response of Complete Response (mCR), Partial Response (mPR), or Stable Disease (mSD) as Determined by Positron Emission Tomography/Computed Tomography (PET/CT)
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End point description:

European Organisation for Research and Treatment of Cancer recommendations were used to define

metabolic response. mCR, complete metabolic response: complete resolution of fludeoxyglucose uptake within tumor, indistinguishable from surrounding normal tissue. mPR, partial metabolic response: reduction of more than 25% of maximum tumor standard uptake value (SUV). mSD, stable metabolic disease: increase of <25% in tumor SUV or decrease of >20% in tumor SUV. mPD, progressive metabolic disease: increase of >25% in tumor SUV or >20% in the extent (longest dimension) or appearance of new metastases.

End point type	Secondary
End point timeframe:	
Baseline, Week 2, and Week 6	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	0 ^[13]	0 ^[14]	0 ^[15]	
Units: Number of Participants				

Notes:

[13] - This translational outcome measure was not analyzed.

[14] - This translational outcome measure was not analyzed.

[15] - This translational outcome measure was not analyzed.

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants With the Indicated Biomarker Expression

End point title	Number of Participants With the Indicated Biomarker Expression
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End point description:

Biomarker levels (Ki67, p27, Cyclin-D1, ErbB1, ErbB2, ErbB3, pErbB1, pErbB2, Akt and pAkt, S6 and pS6, MAPK and pMAPK, c-myc, IGFR1, p95HER2, PTEN, ER (alpha, beta), PgR, CD34, terminal deoxynucleotidyl transferase biotin-dUTP nick and labelling technique [TUNEL] and topoisomerase II) were assessed in participants. Blood and tumor tissue samples were collected at Baseline and at Weeks 2 and 20-22; however, data for this outcome measure cannot be presented at this time as they have yet to be evaluated and reviewed.

End point type	Secondary
End point timeframe:	
Baseline, Week 2, and at surgery (Weeks 20 to 22)	

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	0 ^[16]	0 ^[17]	0 ^[18]	
Units: Number of Participants				

Notes:

[16] - This translational outcome measure was not analyzed.

[17] - This translational outcome measure was not analyzed.

[18] - This translational outcome measure was not analyzed.

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Circulating Tumor Cells (CTC) in the Bloodstream

End point title	Number of Circulating Tumor Cells (CTC) in the Bloodstream
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End point description:

Circulating tumor cells (CTCs) are cells that have detached from a primary tumor and circulate in the bloodstream. In the adjuvant phase, after surgery all participants received 3 courses of adjuvant 5-fluorouracil, epirubicin and cyclophosphamide, followed by lapatinib 1500 mg or trastuzumab 2 mg/kg or lapatinib 1000/750 mg plus trastuzumab 2 mg/kg given prior to surgery in the neoadjuvant setting for an additional 34 weeks. Data for this outcome measure cannot be presented at this time as they have yet to be evaluated and reviewed.

End point type	Secondary
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End point timeframe:

Baseline, Week 2 of neo-adjuvant phase (Weeks 1-34), at surgery (Weeks 20 to 22), Week 10 of adjuvant phase, 6 months after completion of adjuvant treatment, and at recurrence

End point values	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Lapatinib 1500 mg	Trastuzumab 2 mg/kg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	0 ^[19]	0 ^[20]	0 ^[21]	
Units: Number of Circulating Tumor Cells				

Notes:

[19] - This translational outcome measure was not analyzed.

[20] - This translational outcome measure was not analyzed.

[21] - This translational outcome measure was not analyzed.

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Adverse events were collected from first dose of study treatment until end of study treatment plus 30 days post treatment, up to maximum duration of 31 weeks.

Adverse event reporting additional description:

Consistent with EudraCT disclosure specifications, Novartis has reported under the Serious adverse events field "number of deaths resulting from adverse events" all those deaths, resulting from serious adverse events that are deemed to be causally related to treatment by the investigator.

Assessment type	Systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	23.0
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Reporting groups

Reporting group title	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg
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Reporting group description:

Lap+Tras

Reporting group title	Trastuzumab 2 mg/kg
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Reporting group description:

Tras

Reporting group title	Lapatinib 1500 mg
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Reporting group description:

Lap

Serious adverse events	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Trastuzumab 2 mg/kg	Lapatinib 1500 mg
Total subjects affected by serious adverse events			
subjects affected / exposed	61 / 149 (40.94%)	36 / 148 (24.32%)	58 / 151 (38.41%)
number of deaths (all causes)	1	0	2
number of deaths resulting from adverse events	0	0	0
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
LOBULAR BREAST CARCINOMA IN SITU			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
UTERINE LEIOMYOMA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Vascular disorders			

JUGULAR VEIN THROMBOSIS			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
General disorders and administration site conditions			
ASTHENIA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
CHEST DISCOMFORT			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
CHEST PAIN			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
GENERAL PHYSICAL HEALTH DETERIORATION			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PYREXIA			
subjects affected / exposed	5 / 149 (3.36%)	2 / 148 (1.35%)	2 / 151 (1.32%)
occurrences causally related to treatment / all	2 / 5	1 / 2	3 / 4
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Reproductive system and breast disorders			
METRORRHAGIA			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
VULVOVAGINAL PRURITUS			

subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
ASTHMA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
INTERSTITIAL LUNG DISEASE			
subjects affected / exposed	2 / 149 (1.34%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	2 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
ORGANISING PNEUMONIA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PNEUMONITIS			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PNEUMOTHORAX			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PULMONARY EMBOLISM			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Investigations			
GAMMA-GLUTAMYLTRANSFERASE INCREASED			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Injury, poisoning and procedural complications			
ACCIDENTAL OVERDOSE			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 1
INFUSION RELATED REACTION			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
LUMBAR VERTEBRAL FRACTURE			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
POISONING			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
SEROMA			
subjects affected / exposed	1 / 149 (0.67%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
SPINAL FRACTURE			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
TOXICITY TO VARIOUS AGENTS			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 1
TRANSFUSION REACTION			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Cardiac disorders			
CARDIAC FAILURE CONGESTIVE			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	3 / 3	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
CARDIO-RESPIRATORY ARREST			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 1	0 / 0	0 / 0
MYOCARDIAL INFARCTION			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nervous system disorders			
HEADACHE			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
NEUROPATHY PERIPHERAL			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
SCIATICA			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Blood and lymphatic system disorders			
AGRANULOCYTOSIS			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
ANAEMIA			

subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
FEBRILE NEUTROPENIA			
subjects affected / exposed	3 / 149 (2.01%)	8 / 148 (5.41%)	2 / 151 (1.32%)
occurrences causally related to treatment / all	0 / 3	0 / 9	1 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
LEUKOPENIA			
subjects affected / exposed	2 / 149 (1.34%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 2	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
NEUTROPENIA			
subjects affected / exposed	14 / 149 (9.40%)	16 / 148 (10.81%)	13 / 151 (8.61%)
occurrences causally related to treatment / all	5 / 20	2 / 19	2 / 15
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PANCYTOPENIA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
DIARRHOEA			
subjects affected / exposed	9 / 149 (6.04%)	0 / 148 (0.00%)	9 / 151 (5.96%)
occurrences causally related to treatment / all	11 / 11	0 / 0	9 / 9
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
DUODENITIS			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
ENTERITIS			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
GASTRITIS EROSIVE			

subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
GASTROINTESTINAL HAEMORRHAGE			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
INGUINAL HERNIA			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
NAUSEA			
subjects affected / exposed	2 / 149 (1.34%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	2 / 2	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PANCREATITIS			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
VOMITING			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	3 / 3	0 / 2	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Hepatobiliary disorders			
CHOLECYSTITIS ACUTE			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HEPATITIS ACUTE			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HYPERBILIRUBINAEMIA			

subjects affected / exposed	4 / 149 (2.68%)	0 / 148 (0.00%)	4 / 151 (2.65%)
occurrences causally related to treatment / all	4 / 4	0 / 0	4 / 4
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HYPERTRANSAMINASAEMIA			
subjects affected / exposed	15 / 149 (10.07%)	3 / 148 (2.03%)	23 / 151 (15.23%)
occurrences causally related to treatment / all	15 / 17	3 / 3	25 / 28
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Skin and subcutaneous tissue disorders			
BLISTER			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Renal and urinary disorders			
ACUTE KIDNEY INJURY			
subjects affected / exposed	2 / 149 (1.34%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	2 / 2	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
NEPHRECTASIA			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
NEPHROLITHIASIS			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Musculoskeletal and connective tissue disorders			
OSTEOPOROTIC FRACTURE			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
ROTATOR CUFF SYNDROME			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Infections and infestations APPENDICITIS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 149 (0.00%) 0 / 0 0 / 0	1 / 148 (0.68%) 0 / 1 0 / 0	0 / 151 (0.00%) 0 / 0 0 / 0
BACTERIAL SEPSIS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 149 (0.00%) 0 / 0 0 / 0	0 / 148 (0.00%) 0 / 0 0 / 0	1 / 151 (0.66%) 1 / 1 0 / 0
BREAST CELLULITIS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 149 (0.67%) 0 / 1 0 / 0	1 / 148 (0.68%) 0 / 1 0 / 0	0 / 151 (0.00%) 0 / 0 0 / 0
CELLULITIS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	2 / 149 (1.34%) 0 / 2 0 / 0	2 / 148 (1.35%) 0 / 2 0 / 0	1 / 151 (0.66%) 0 / 1 0 / 0
CELLULITIS STAPHYLOCOCCAL subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 149 (0.67%) 0 / 1 0 / 0	0 / 148 (0.00%) 0 / 0 0 / 0	0 / 151 (0.00%) 0 / 0 0 / 0
DEVICE RELATED INFECTION subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 149 (0.67%) 0 / 1 0 / 0	0 / 148 (0.00%) 0 / 0 0 / 0	0 / 151 (0.00%) 0 / 0 0 / 0
DEVICE RELATED SEPSIS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 149 (0.00%) 0 / 0 0 / 0	0 / 148 (0.00%) 0 / 0 0 / 0	1 / 151 (0.66%) 0 / 1 0 / 0
ERYSIPELAS subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 149 (0.67%) 0 / 1 0 / 0	0 / 148 (0.00%) 0 / 0 0 / 0	0 / 151 (0.00%) 0 / 0 0 / 0
HEPATITIS B			

subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HERPES SIMPLEX			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HERPES ZOSTER			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 1	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
MASTITIS			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	2 / 151 (1.32%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PHARYNGITIS			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
PNEUMONIA			
subjects affected / exposed	2 / 149 (1.34%)	2 / 148 (1.35%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
SKIN INFECTION			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
URINARY TRACT INFECTION			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	3 / 151 (1.99%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 3
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
VASCULAR DEVICE INFECTION			

subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
WOUND INFECTION			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Metabolism and nutrition disorders			
DEHYDRATION			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	2 / 151 (1.32%)
occurrences causally related to treatment / all	0 / 0	0 / 0	2 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
DIABETES MELLITUS			
subjects affected / exposed	0 / 149 (0.00%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HYPERPHOSPHATASAEMIA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	1 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
HYPOGLYCAEMIA			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 1	0 / 0	0 / 0
HYPOKALAEMIA			
subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Frequency threshold for reporting non-serious adverse events: 2 %

Non-serious adverse events	Lapatinib 1000/750 mg + Trastuzumab 2 mg/kg	Trastuzumab 2 mg/kg	Lapatinib 1500 mg
Total subjects affected by non-serious adverse events			
subjects affected / exposed	147 / 149 (98.66%)	141 / 148 (95.27%)	148 / 151 (98.01%)
Vascular disorders			
FLUSHING			
subjects affected / exposed	1 / 149 (0.67%)	6 / 148 (4.05%)	3 / 151 (1.99%)
occurrences (all)	1	6	3
HAEMATOMA			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences (all)	3	1	1
HOT FLUSH			
subjects affected / exposed	22 / 149 (14.77%)	21 / 148 (14.19%)	15 / 151 (9.93%)
occurrences (all)	26	23	15
HYPERTENSION			
subjects affected / exposed	5 / 149 (3.36%)	8 / 148 (5.41%)	5 / 151 (3.31%)
occurrences (all)	5	11	5
HYPOTENSION			
subjects affected / exposed	8 / 149 (5.37%)	2 / 148 (1.35%)	5 / 151 (3.31%)
occurrences (all)	9	2	6
LYMPHOEDEMA			
subjects affected / exposed	3 / 149 (2.01%)	3 / 148 (2.03%)	5 / 151 (3.31%)
occurrences (all)	3	3	5
PHLEBITIS			
subjects affected / exposed	2 / 149 (1.34%)	5 / 148 (3.38%)	3 / 151 (1.99%)
occurrences (all)	2	5	3
General disorders and administration site conditions			
ASTHENIA			
subjects affected / exposed	39 / 149 (26.17%)	35 / 148 (23.65%)	47 / 151 (31.13%)
occurrences (all)	55	53	71
AXILLARY PAIN			
subjects affected / exposed	5 / 149 (3.36%)	3 / 148 (2.03%)	0 / 151 (0.00%)
occurrences (all)	6	4	0
CHEST DISCOMFORT			
subjects affected / exposed	0 / 149 (0.00%)	6 / 148 (4.05%)	3 / 151 (1.99%)
occurrences (all)	0	8	3
CHEST PAIN			

subjects affected / exposed	5 / 149 (3.36%)	6 / 148 (4.05%)	5 / 151 (3.31%)
occurrences (all)	5	6	6
CHILLS			
subjects affected / exposed	11 / 149 (7.38%)	6 / 148 (4.05%)	3 / 151 (1.99%)
occurrences (all)	13	6	3
FACE OEDEMA			
subjects affected / exposed	3 / 149 (2.01%)	4 / 148 (2.70%)	5 / 151 (3.31%)
occurrences (all)	3	4	5
FATIGUE			
subjects affected / exposed	52 / 149 (34.90%)	38 / 148 (25.68%)	45 / 151 (29.80%)
occurrences (all)	81	55	54
FEELING COLD			
subjects affected / exposed	0 / 149 (0.00%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	0	3	1
GENERALISED OEDEMA			
subjects affected / exposed	1 / 149 (0.67%)	3 / 148 (2.03%)	3 / 151 (1.99%)
occurrences (all)	3	3	7
INFLUENZA LIKE ILLNESS			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	2 / 151 (1.32%)
occurrences (all)	3	2	2
MUCOSAL DRYNESS			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	2 / 151 (1.32%)
occurrences (all)	3	2	2
MUCOSAL EROSION			
subjects affected / exposed	3 / 149 (2.01%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences (all)	4	0	0
MUCOSAL INFLAMMATION			
subjects affected / exposed	36 / 149 (24.16%)	22 / 148 (14.86%)	34 / 151 (22.52%)
occurrences (all)	39	27	38
OEDEMA			
subjects affected / exposed	4 / 149 (2.68%)	11 / 148 (7.43%)	0 / 151 (0.00%)
occurrences (all)	5	13	0
OEDEMA PERIPHERAL			
subjects affected / exposed	8 / 149 (5.37%)	13 / 148 (8.78%)	9 / 151 (5.96%)
occurrences (all)	10	14	12
PAIN			

subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	2 / 148 (1.35%) 2	6 / 151 (3.97%) 7
PERIPHERAL SWELLING subjects affected / exposed occurrences (all)	4 / 149 (2.68%) 5	3 / 148 (2.03%) 3	2 / 151 (1.32%) 2
PYREXIA subjects affected / exposed occurrences (all)	34 / 149 (22.82%) 43	23 / 148 (15.54%) 28	23 / 151 (15.23%) 33
Immune system disorders HYPERSENSITIVITY subjects affected / exposed occurrences (all)	6 / 149 (4.03%) 7	7 / 148 (4.73%) 8	6 / 151 (3.97%) 6
SEASONAL ALLERGY subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	0 / 148 (0.00%) 0	1 / 151 (0.66%) 1
Reproductive system and breast disorders AMENORRHOEA subjects affected / exposed occurrences (all)	6 / 149 (4.03%) 7	1 / 148 (0.68%) 1	3 / 151 (1.99%) 3
BREAST DISCHARGE subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 4	0 / 148 (0.00%) 0	0 / 151 (0.00%) 0
BREAST PAIN subjects affected / exposed occurrences (all)	6 / 149 (4.03%) 6	15 / 148 (10.14%) 15	5 / 151 (3.31%) 6
MENSTRUATION IRREGULAR subjects affected / exposed occurrences (all)	1 / 149 (0.67%) 1	3 / 148 (2.03%) 3	2 / 151 (1.32%) 2
PELVIC PAIN subjects affected / exposed occurrences (all)	0 / 149 (0.00%) 0	4 / 148 (2.70%) 4	0 / 151 (0.00%) 0
VULVOVAGINAL DRYNESS subjects affected / exposed occurrences (all)	2 / 149 (1.34%) 2	3 / 148 (2.03%) 3	2 / 151 (1.32%) 2
VULVOVAGINAL INFLAMMATION			

subjects affected / exposed	0 / 149 (0.00%)	0 / 148 (0.00%)	4 / 151 (2.65%)
occurrences (all)	0	0	4
VULVOVAGINAL PRURITUS			
subjects affected / exposed	2 / 149 (1.34%)	4 / 148 (2.70%)	2 / 151 (1.32%)
occurrences (all)	2	5	2
Respiratory, thoracic and mediastinal disorders			
COUGH			
subjects affected / exposed	25 / 149 (16.78%)	26 / 148 (17.57%)	17 / 151 (11.26%)
occurrences (all)	34	30	19
DYSPHONIA			
subjects affected / exposed	1 / 149 (0.67%)	2 / 148 (1.35%)	5 / 151 (3.31%)
occurrences (all)	1	3	5
DYSPNOEA			
subjects affected / exposed	16 / 149 (10.74%)	13 / 148 (8.78%)	11 / 151 (7.28%)
occurrences (all)	19	13	13
DYSPNOEA EXERTIONAL			
subjects affected / exposed	6 / 149 (4.03%)	6 / 148 (4.05%)	2 / 151 (1.32%)
occurrences (all)	6	7	4
EPISTAXIS			
subjects affected / exposed	37 / 149 (24.83%)	22 / 148 (14.86%)	30 / 151 (19.87%)
occurrences (all)	43	23	32
HAEMOPTYSIS			
subjects affected / exposed	0 / 149 (0.00%)	3 / 148 (2.03%)	0 / 151 (0.00%)
occurrences (all)	0	4	0
NASAL DRYNESS			
subjects affected / exposed	6 / 149 (4.03%)	2 / 148 (1.35%)	6 / 151 (3.97%)
occurrences (all)	6	4	6
NASAL INFLAMMATION			
subjects affected / exposed	5 / 149 (3.36%)	1 / 148 (0.68%)	3 / 151 (1.99%)
occurrences (all)	5	1	3
OROPHARYNGEAL PAIN			
subjects affected / exposed	16 / 149 (10.74%)	15 / 148 (10.14%)	20 / 151 (13.25%)
occurrences (all)	18	19	24
PRODUCTIVE COUGH			

subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	0 / 148 (0.00%) 0	0 / 151 (0.00%) 0
RHINORRHOEA subjects affected / exposed occurrences (all)	13 / 149 (8.72%) 16	10 / 148 (6.76%) 12	6 / 151 (3.97%) 6
Psychiatric disorders ANXIETY subjects affected / exposed occurrences (all)	7 / 149 (4.70%) 7	11 / 148 (7.43%) 12	9 / 151 (5.96%) 9
DEPRESSION subjects affected / exposed occurrences (all)	7 / 149 (4.70%) 7	9 / 148 (6.08%) 9	5 / 151 (3.31%) 5
INSOMNIA subjects affected / exposed occurrences (all)	34 / 149 (22.82%) 39	24 / 148 (16.22%) 26	23 / 151 (15.23%) 26
SLEEP DISORDER subjects affected / exposed occurrences (all)	5 / 149 (3.36%) 8	2 / 148 (1.35%) 3	4 / 151 (2.65%) 4
Investigations EJECTION FRACTION DECREASED subjects affected / exposed occurrences (all)	6 / 149 (4.03%) 9	4 / 148 (2.70%) 4	2 / 151 (1.32%) 2
GAMMA-GLUTAMYLTRANSFERASE subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 4	0 / 148 (0.00%) 0	2 / 151 (1.32%) 3
GAMMA-GLUTAMYLTRANSFERASE INCREASED subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	1 / 148 (0.68%) 1	7 / 151 (4.64%) 9
NEUTROPHIL COUNT INCREASED subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 4	2 / 148 (1.35%) 4	1 / 151 (0.66%) 1
WEIGHT DECREASED subjects affected / exposed occurrences (all)	8 / 149 (5.37%) 8	1 / 148 (0.68%) 1	10 / 151 (6.62%) 11
WEIGHT INCREASED			

subjects affected / exposed occurrences (all)	2 / 149 (1.34%) 2	3 / 148 (2.03%) 3	2 / 151 (1.32%) 2
Injury, poisoning and procedural complications			
RADIATION SKIN INJURY			
subjects affected / exposed	16 / 149 (10.74%)	18 / 148 (12.16%)	11 / 151 (7.28%)
occurrences (all)	17	19	11
SEROMA			
subjects affected / exposed	2 / 149 (1.34%)	6 / 148 (4.05%)	0 / 151 (0.00%)
occurrences (all)	2	6	0
THERMAL BURN			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences (all)	3	1	0
WOUND COMPLICATION			
subjects affected / exposed	4 / 149 (2.68%)	6 / 148 (4.05%)	4 / 151 (2.65%)
occurrences (all)	5	6	4
Cardiac disorders			
CARDIAC FAILURE CONGESTIVE			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences (all)	4	1	0
LEFT VENTRICULAR DYSFUNCTION			
subjects affected / exposed	4 / 149 (2.68%)	2 / 148 (1.35%)	0 / 151 (0.00%)
occurrences (all)	6	2	0
PALPITATIONS			
subjects affected / exposed	6 / 149 (4.03%)	3 / 148 (2.03%)	6 / 151 (3.97%)
occurrences (all)	8	3	6
TACHYCARDIA			
subjects affected / exposed	4 / 149 (2.68%)	4 / 148 (2.70%)	2 / 151 (1.32%)
occurrences (all)	4	4	2
Nervous system disorders			
AGEUSIA			
subjects affected / exposed	4 / 149 (2.68%)	0 / 148 (0.00%)	3 / 151 (1.99%)
occurrences (all)	7	0	5
DIZZINESS			
subjects affected / exposed	13 / 149 (8.72%)	15 / 148 (10.14%)	13 / 151 (8.61%)
occurrences (all)	13	19	17
DYSGEUSIA			

subjects affected / exposed	6 / 149 (4.03%)	1 / 148 (0.68%)	6 / 151 (3.97%)
occurrences (all)	10	1	6
HEADACHE			
subjects affected / exposed	31 / 149 (20.81%)	26 / 148 (17.57%)	27 / 151 (17.88%)
occurrences (all)	43	33	31
HYPOAESTHESIA			
subjects affected / exposed	9 / 149 (6.04%)	12 / 148 (8.11%)	7 / 151 (4.64%)
occurrences (all)	11	14	7
MEMORY IMPAIRMENT			
subjects affected / exposed	2 / 149 (1.34%)	2 / 148 (1.35%)	4 / 151 (2.65%)
occurrences (all)	2	4	4
NEUROPATHY PERIPHERAL			
subjects affected / exposed	19 / 149 (12.75%)	19 / 148 (12.84%)	21 / 151 (13.91%)
occurrences (all)	22	21	22
NEUROTOXICITY			
subjects affected / exposed	3 / 149 (2.01%)	3 / 148 (2.03%)	6 / 151 (3.97%)
occurrences (all)	5	3	6
PARAESTHESIA			
subjects affected / exposed	24 / 149 (16.11%)	22 / 148 (14.86%)	15 / 151 (9.93%)
occurrences (all)	25	26	16
PERIPHERAL SENSORY NEUROPATHY			
subjects affected / exposed	13 / 149 (8.72%)	14 / 148 (9.46%)	19 / 151 (12.58%)
occurrences (all)	15	15	22
POLYNEUROPATHY			
subjects affected / exposed	5 / 149 (3.36%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	7	3	2
TASTE DISORDER			
subjects affected / exposed	9 / 149 (6.04%)	1 / 148 (0.68%)	6 / 151 (3.97%)
occurrences (all)	9	1	8
Blood and lymphatic system disorders			
ANAEMIA			
subjects affected / exposed	36 / 149 (24.16%)	27 / 148 (18.24%)	33 / 151 (21.85%)
occurrences (all)	44	35	47
FEBRILE NEUTROPENIA			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences (all)	3	1	0

LEUKOPENIA			
subjects affected / exposed	21 / 149 (14.09%)	10 / 148 (6.76%)	18 / 151 (11.92%)
occurrences (all)	32	15	28
LYMPHOPENIA			
subjects affected / exposed	5 / 149 (3.36%)	6 / 148 (4.05%)	2 / 151 (1.32%)
occurrences (all)	7	7	5
NEUTROPENIA			
subjects affected / exposed	47 / 149 (31.54%)	37 / 148 (25.00%)	51 / 151 (33.77%)
occurrences (all)	66	48	91
THROMBOCYTOPENIA			
subjects affected / exposed	4 / 149 (2.68%)	1 / 148 (0.68%)	2 / 151 (1.32%)
occurrences (all)	4	1	2
Ear and labyrinth disorders			
EAR PAIN			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences (all)	3	1	1
TINNITUS			
subjects affected / exposed	6 / 149 (4.03%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	6	3	1
VERTIGO			
subjects affected / exposed	11 / 149 (7.38%)	6 / 148 (4.05%)	7 / 151 (4.64%)
occurrences (all)	11	7	8
Eye disorders			
DRY EYE			
subjects affected / exposed	4 / 149 (2.68%)	2 / 148 (1.35%)	1 / 151 (0.66%)
occurrences (all)	5	2	1
LACRIMATION INCREASED			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	3 / 151 (1.99%)
occurrences (all)	4	1	3
VISUAL IMPAIRMENT			
subjects affected / exposed	2 / 149 (1.34%)	3 / 148 (2.03%)	2 / 151 (1.32%)
occurrences (all)	2	4	2
Gastrointestinal disorders			
ABDOMINAL DISCOMFORT			
subjects affected / exposed	3 / 149 (2.01%)	4 / 148 (2.70%)	1 / 151 (0.66%)
occurrences (all)	3	4	1
ABDOMINAL DISTENSION			

subjects affected / exposed	10 / 149 (6.71%)	5 / 148 (3.38%)	8 / 151 (5.30%)
occurrences (all)	12	6	9
ABDOMINAL PAIN			
subjects affected / exposed	21 / 149 (14.09%)	13 / 148 (8.78%)	28 / 151 (18.54%)
occurrences (all)	28	16	36
ABDOMINAL PAIN UPPER			
subjects affected / exposed	23 / 149 (15.44%)	16 / 148 (10.81%)	27 / 151 (17.88%)
occurrences (all)	32	18	31
ANAL INFLAMMATION			
subjects affected / exposed	4 / 149 (2.68%)	1 / 148 (0.68%)	2 / 151 (1.32%)
occurrences (all)	5	1	2
CONSTIPATION			
subjects affected / exposed	18 / 149 (12.08%)	15 / 148 (10.14%)	15 / 151 (9.93%)
occurrences (all)	23	19	19
DIARRHOEA			
subjects affected / exposed	128 / 149 (85.91%)	52 / 148 (35.14%)	123 / 151 (81.46%)
occurrences (all)	296	79	238
DRY MOUTH			
subjects affected / exposed	9 / 149 (6.04%)	3 / 148 (2.03%)	5 / 151 (3.31%)
occurrences (all)	10	3	5
DYSPEPSIA			
subjects affected / exposed	17 / 149 (11.41%)	10 / 148 (6.76%)	26 / 151 (17.22%)
occurrences (all)	20	11	30
DYSPHAGIA			
subjects affected / exposed	3 / 149 (2.01%)	3 / 148 (2.03%)	0 / 151 (0.00%)
occurrences (all)	3	3	0
EPIGASTRIC DISCOMFORT			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	2 / 151 (1.32%)
occurrences (all)	4	2	2
FLATULENCE			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	5 / 151 (3.31%)
occurrences (all)	3	2	6
GASTRITIS			
subjects affected / exposed	2 / 149 (1.34%)	3 / 148 (2.03%)	8 / 151 (5.30%)
occurrences (all)	2	3	8
GASTROOESOPHAGEAL REFLUX			

DISEASE			
subjects affected / exposed	5 / 149 (3.36%)	0 / 148 (0.00%)	2 / 151 (1.32%)
occurrences (all)	5	0	2
HAEMORRHOIDS			
subjects affected / exposed	13 / 149 (8.72%)	10 / 148 (6.76%)	10 / 151 (6.62%)
occurrences (all)	13	12	10
MOUTH ULCERATION			
subjects affected / exposed	12 / 149 (8.05%)	1 / 148 (0.68%)	4 / 151 (2.65%)
occurrences (all)	16	1	6
NAUSEA			
subjects affected / exposed	75 / 149 (50.34%)	76 / 148 (51.35%)	81 / 151 (53.64%)
occurrences (all)	140	111	152
RECTAL HAEMORRHAGE			
subjects affected / exposed	4 / 149 (2.68%)	0 / 148 (0.00%)	2 / 151 (1.32%)
occurrences (all)	4	0	2
STOMATITIS			
subjects affected / exposed	27 / 149 (18.12%)	23 / 148 (15.54%)	18 / 151 (11.92%)
occurrences (all)	39	25	29
TOOTHACHE			
subjects affected / exposed	4 / 149 (2.68%)	2 / 148 (1.35%)	1 / 151 (0.66%)
occurrences (all)	4	2	1
VOMITING			
subjects affected / exposed	54 / 149 (36.24%)	38 / 148 (25.68%)	57 / 151 (37.75%)
occurrences (all)	96	57	93
Hepatobiliary disorders			
HYPERBILIRUBINAEMIA			
subjects affected / exposed	21 / 149 (14.09%)	7 / 148 (4.73%)	26 / 151 (17.22%)
occurrences (all)	24	8	33
HYPERTRANSAMINASAEMIA			
subjects affected / exposed	55 / 149 (36.91%)	39 / 148 (26.35%)	55 / 151 (36.42%)
occurrences (all)	113	106	112
Skin and subcutaneous tissue disorders			
ACNE			
subjects affected / exposed	22 / 149 (14.77%)	5 / 148 (3.38%)	20 / 151 (13.25%)
occurrences (all)	28	7	25
ALOPECIA			

subjects affected / exposed	95 / 149 (63.76%)	96 / 148 (64.86%)	90 / 151 (59.60%)
occurrences (all)	101	103	97
DERMATITIS			
subjects affected / exposed	13 / 149 (8.72%)	8 / 148 (5.41%)	13 / 151 (8.61%)
occurrences (all)	13	11	13
DERMATITIS ACNEIFORM			
subjects affected / exposed	14 / 149 (9.40%)	4 / 148 (2.70%)	12 / 151 (7.95%)
occurrences (all)	18	4	16
DRY SKIN			
subjects affected / exposed	28 / 149 (18.79%)	8 / 148 (5.41%)	29 / 151 (19.21%)
occurrences (all)	28	8	30
ECZEMA			
subjects affected / exposed	6 / 149 (4.03%)	2 / 148 (1.35%)	4 / 151 (2.65%)
occurrences (all)	6	2	4
ERYTHEMA			
subjects affected / exposed	14 / 149 (9.40%)	15 / 148 (10.14%)	14 / 151 (9.27%)
occurrences (all)	15	16	18
EXFOLIATIVE RASH			
subjects affected / exposed	8 / 149 (5.37%)	0 / 148 (0.00%)	4 / 151 (2.65%)
occurrences (all)	9	0	4
HYPERHIDROSIS			
subjects affected / exposed	2 / 149 (1.34%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	2	3	1
NAIL DISORDER			
subjects affected / exposed	36 / 149 (24.16%)	18 / 148 (12.16%)	26 / 151 (17.22%)
occurrences (all)	44	20	32
NAIL DYSTROPHY			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	2 / 151 (1.32%)
occurrences (all)	3	1	2
ONYCHALGIA			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	3 / 151 (1.99%)
occurrences (all)	3	1	3
ONYCHOLYSIS			
subjects affected / exposed	7 / 149 (4.70%)	2 / 148 (1.35%)	0 / 151 (0.00%)
occurrences (all)	7	2	0
PAIN OF SKIN			

subjects affected / exposed	1 / 149 (0.67%)	2 / 148 (1.35%)	4 / 151 (2.65%)
occurrences (all)	1	2	4
PALMAR-PLANTAR ERYTHRODYSAESTHESIA SYNDROME			
subjects affected / exposed	14 / 149 (9.40%)	3 / 148 (2.03%)	14 / 151 (9.27%)
occurrences (all)	16	3	15
PRURITUS			
subjects affected / exposed	24 / 149 (16.11%)	9 / 148 (6.08%)	29 / 151 (19.21%)
occurrences (all)	32	10	33
RASH			
subjects affected / exposed	67 / 149 (44.97%)	28 / 148 (18.92%)	68 / 151 (45.03%)
occurrences (all)	94	34	93
RASH PRURITIC			
subjects affected / exposed	4 / 149 (2.68%)	3 / 148 (2.03%)	3 / 151 (1.99%)
occurrences (all)	4	4	4
SCAR PAIN			
subjects affected / exposed	1 / 149 (0.67%)	4 / 148 (2.70%)	3 / 151 (1.99%)
occurrences (all)	1	4	3
SKIN EXFOLIATION			
subjects affected / exposed	4 / 149 (2.68%)	1 / 148 (0.68%)	0 / 151 (0.00%)
occurrences (all)	4	1	0
SKIN FISSURES			
subjects affected / exposed	13 / 149 (8.72%)	4 / 148 (2.70%)	4 / 151 (2.65%)
occurrences (all)	17	4	5
SKIN HYPERPIGMENTATION			
subjects affected / exposed	6 / 149 (4.03%)	2 / 148 (1.35%)	6 / 151 (3.97%)
occurrences (all)	7	2	6
SKIN IRRITATION			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences (all)	3	1	1
SKIN LESION			
subjects affected / exposed	5 / 149 (3.36%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences (all)	6	0	1
SKIN REACTION			
subjects affected / exposed	2 / 149 (1.34%)	0 / 148 (0.00%)	4 / 151 (2.65%)
occurrences (all)	3	0	4

Renal and urinary disorders			
DYSURIA			
subjects affected / exposed	11 / 149 (7.38%)	5 / 148 (3.38%)	6 / 151 (3.97%)
occurrences (all)	12	6	7
HAEMATURIA			
subjects affected / exposed	4 / 149 (2.68%)	0 / 148 (0.00%)	0 / 151 (0.00%)
occurrences (all)	4	0	0
Musculoskeletal and connective tissue disorders			
ARTHRALGIA			
subjects affected / exposed	27 / 149 (18.12%)	32 / 148 (21.62%)	26 / 151 (17.22%)
occurrences (all)	31	38	31
BACK PAIN			
subjects affected / exposed	22 / 149 (14.77%)	14 / 148 (9.46%)	10 / 151 (6.62%)
occurrences (all)	25	15	11
BONE PAIN			
subjects affected / exposed	10 / 149 (6.71%)	18 / 148 (12.16%)	12 / 151 (7.95%)
occurrences (all)	13	21	12
JOINT STIFFNESS			
subjects affected / exposed	2 / 149 (1.34%)	4 / 148 (2.70%)	1 / 151 (0.66%)
occurrences (all)	2	4	1
MUSCLE SPASMS			
subjects affected / exposed	6 / 149 (4.03%)	3 / 148 (2.03%)	4 / 151 (2.65%)
occurrences (all)	7	4	5
MUSCULOSKELETAL CHEST PAIN			
subjects affected / exposed	4 / 149 (2.68%)	1 / 148 (0.68%)	2 / 151 (1.32%)
occurrences (all)	4	1	2
MUSCULOSKELETAL PAIN			
subjects affected / exposed	8 / 149 (5.37%)	11 / 148 (7.43%)	16 / 151 (10.60%)
occurrences (all)	9	12	20
MUSCULOSKELETAL STIFFNESS			
subjects affected / exposed	1 / 149 (0.67%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	1	3	1
MYALGIA			
subjects affected / exposed	31 / 149 (20.81%)	34 / 148 (22.97%)	33 / 151 (21.85%)
occurrences (all)	52	50	50
NECK PAIN			

subjects affected / exposed occurrences (all)	7 / 149 (4.70%) 7	5 / 148 (3.38%) 5	5 / 151 (3.31%) 7
OSTEOPOROSIS			
subjects affected / exposed occurrences (all)	0 / 149 (0.00%) 0	3 / 148 (2.03%) 3	1 / 151 (0.66%) 1
PAIN IN EXTREMITY			
subjects affected / exposed occurrences (all)	13 / 149 (8.72%) 18	13 / 148 (8.78%) 16	20 / 151 (13.25%) 25
Infections and infestations			
BRONCHITIS			
subjects affected / exposed occurrences (all)	2 / 149 (1.34%) 2	3 / 148 (2.03%) 3	5 / 151 (3.31%) 6
CONJUNCTIVITIS			
subjects affected / exposed occurrences (all)	11 / 149 (7.38%) 13	5 / 148 (3.38%) 5	8 / 151 (5.30%) 8
CYSTITIS			
subjects affected / exposed occurrences (all)	8 / 149 (5.37%) 8	3 / 148 (2.03%) 3	6 / 151 (3.97%) 6
HERPES SIMPLEX			
subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	2 / 148 (1.35%) 2	0 / 151 (0.00%) 0
INFLUENZA			
subjects affected / exposed occurrences (all)	8 / 149 (5.37%) 9	9 / 148 (6.08%) 10	8 / 151 (5.30%) 8
LOCALISED INFECTION			
subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	0 / 148 (0.00%) 0	3 / 151 (1.99%) 4
LOWER RESPIRATORY TRACT INFECTION			
subjects affected / exposed occurrences (all)	3 / 149 (2.01%) 3	1 / 148 (0.68%) 1	1 / 151 (0.66%) 1
MASTITIS			
subjects affected / exposed occurrences (all)	2 / 149 (1.34%) 2	3 / 148 (2.03%) 3	1 / 151 (0.66%) 1
NAIL INFECTION			

subjects affected / exposed	8 / 149 (5.37%)	0 / 148 (0.00%)	1 / 151 (0.66%)
occurrences (all)	9	0	2
NASOPHARYNGITIS			
subjects affected / exposed	11 / 149 (7.38%)	11 / 148 (7.43%)	12 / 151 (7.95%)
occurrences (all)	15	11	13
ORAL HERPES			
subjects affected / exposed	2 / 149 (1.34%)	3 / 148 (2.03%)	0 / 151 (0.00%)
occurrences (all)	2	3	0
PARONYCHIA			
subjects affected / exposed	17 / 149 (11.41%)	2 / 148 (1.35%)	14 / 151 (9.27%)
occurrences (all)	22	2	22
PHARYNGITIS			
subjects affected / exposed	4 / 149 (2.68%)	5 / 148 (3.38%)	7 / 151 (4.64%)
occurrences (all)	4	5	7
PUSTULE			
subjects affected / exposed	3 / 149 (2.01%)	1 / 148 (0.68%)	1 / 151 (0.66%)
occurrences (all)	3	1	2
RHINITIS			
subjects affected / exposed	6 / 149 (4.03%)	5 / 148 (3.38%)	4 / 151 (2.65%)
occurrences (all)	6	5	4
SINUSITIS			
subjects affected / exposed	3 / 149 (2.01%)	2 / 148 (1.35%)	5 / 151 (3.31%)
occurrences (all)	3	2	5
SKIN INFECTION			
subjects affected / exposed	4 / 149 (2.68%)	2 / 148 (1.35%)	1 / 151 (0.66%)
occurrences (all)	4	2	1
TONSILLITIS			
subjects affected / exposed	0 / 149 (0.00%)	4 / 148 (2.70%)	3 / 151 (1.99%)
occurrences (all)	0	4	4
UPPER RESPIRATORY TRACT INFECTION			
subjects affected / exposed	10 / 149 (6.71%)	14 / 148 (9.46%)	9 / 151 (5.96%)
occurrences (all)	12	16	10
URINARY TRACT INFECTION			
subjects affected / exposed	11 / 149 (7.38%)	6 / 148 (4.05%)	14 / 151 (9.27%)
occurrences (all)	11	6	16

VAGINAL INFECTION			
subjects affected / exposed	5 / 149 (3.36%)	2 / 148 (1.35%)	1 / 151 (0.66%)
occurrences (all)	5	2	1
VIRAL INFECTION			
subjects affected / exposed	0 / 149 (0.00%)	3 / 148 (2.03%)	0 / 151 (0.00%)
occurrences (all)	0	3	0
Metabolism and nutrition disorders			
DECREASED APPETITE			
subjects affected / exposed	35 / 149 (23.49%)	17 / 148 (11.49%)	39 / 151 (25.83%)
occurrences (all)	57	21	50
DEHYDRATION			
subjects affected / exposed	1 / 149 (0.67%)	0 / 148 (0.00%)	5 / 151 (3.31%)
occurrences (all)	2	0	6
HYPERCHOLESTEROLAEMIA			
subjects affected / exposed	0 / 149 (0.00%)	3 / 148 (2.03%)	1 / 151 (0.66%)
occurrences (all)	0	3	1
HYPERGLYCAEMIA			
subjects affected / exposed	3 / 149 (2.01%)	4 / 148 (2.70%)	0 / 151 (0.00%)
occurrences (all)	3	4	0
HYPERPHOSPHATASAEMIA			
subjects affected / exposed	22 / 149 (14.77%)	12 / 148 (8.11%)	22 / 151 (14.57%)
occurrences (all)	30	18	29
HYPOKALAEMIA			
subjects affected / exposed	4 / 149 (2.68%)	0 / 148 (0.00%)	3 / 151 (1.99%)
occurrences (all)	4	0	3

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
22 April 2008	Amendment No. 01
10 October 2008	Amendment No. 02
17 May 2013	Amendment No. 03
13 May 2016	Amendment No. 04
24 August 2016	Amendment No. 05

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported