

## Efficacy and Safety of Quadruple Therapy in Eradication of H. Pylori: A Comparison to Triple Therapy

The safety and scientific validity of this study is the responsibility of the study sponsor and  investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our [disclaimer](#) for details.

ClinicalTrials.gov Identifier: NCT00669955

[Recruitment Status](#) ⓘ : Completed  
[First Posted](#) ⓘ : May 1, 2008  
[Results First Posted](#) ⓘ : August 5, 2010  
[Last Update Posted](#) ⓘ : March 16, 2017

**Sponsor:**

Forest Laboratories

**Information provided by (Responsible Party):**

Forest Laboratories

- Study Details
- Tabular View
- Study Results
- Disclaimer
- How to Read a Study Record

<b>Study Type:</b>	Interventional
<b>Study Design:</b>	Allocation: Randomized; Intervention Model: Parallel Assignment; Masking: None (Open Label); Primary Purpose: Treatment
<b>Condition:</b>	Helicobacter Infections
<b>Interventions:</b>	Drug: Omeprazole, amoxicillin, clarithromycin Drug: Pylera (Bismuth subcitrate potassium, metronidazole, tetracycline) given in combination with omeprazole

 **Participant Flow**

 [Hide Participant Flow](#)

**Recruitment Details**

**Key information relevant to the recruitment process for the overall study, such as dates of the recruitment period and locations**

First patient in: 11 June 2008 Last patient out: 22 June 2009 Patients were recruited from clinics and hospitals located in seven European Countries: Germany, Poland, Italy, France, Ireland, Spain, United Kingdom.

## Pre-Assignment Details

### Significant events and approaches for the overall study following participant enrollment, but prior to group assignment

If patient was on any contraindicated medications, such as H2 antagonists, sucralfate, or proton pump inhibitors, a washout period of 2 weeks began following informed consent signature, and patient returned to the clinic to perform the endoscopy and the C-13 UBT. Presence of H. pylori needed to be confirmed by C-13 UBT and RUT at least.

## Reporting Groups

	Description
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

## Participant Flow: Overall Study

	Quadruple Therapy (OBMT) 10 Days	Triple Therapy (OAC) 7 Days
<b>STARTED</b>	<b>218</b> <sup>[1]</sup>	<b>222</b>
<b>COMPLETED</b>	<b>204</b>	<b>195</b>
<b>NOT COMPLETED</b>	<b>14</b>	<b>27</b>
<b>Adverse Event</b>	<b>3</b>	<b>5</b>
<b>Death</b>	<b>0</b>	<b>1</b>
<b>Withdrawal by Subject</b>	<b>2</b>	<b>3</b>
<b>Lost to Follow-up</b>	<b>5</b>	<b>7</b>
<b>Protocol Violation</b>	<b>2</b>	<b>7</b>
<b>Investigator Sponsor Judgement</b>	<b>0</b>	<b>1</b>
<b>not compliant with study drug/visit</b>	<b>2</b>	<b>3</b>

<sup>[1]</sup> 216 patients received study drug. 2 patients were dispensed study drug but did not take it

## ▶ Baseline Characteristics

### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

No text entered.

**Reporting Groups**

	Description
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID
<b>Total</b>	Total of all reporting groups

**Baseline Measures**

	Quadruple Therapy (OBMT) 10 Days	Triple Therapy (OAC) 7 Days	Total
<b>Overall Participants Analyzed</b> [Units: Participants]	<b>218</b>	<b>222</b>	<b>440</b>
<b>Age</b> [Units: Participants] Count of Participants			
<b>&lt;=18 years</b>	<b>0</b> 0.0%	<b>0</b> 0.0%	<b>0</b> 0.0%
<b>Between 18 and 65 years</b>	<b>184</b> 84.4%	<b>194</b> 87.4%	<b>378</b> 85.9%
<b>&gt;=65 years</b>	<b>34</b> 15.6%	<b>28</b> 12.6%	<b>62</b> 14.1%
<b>Age</b> [Units: Years] Mean (Standard Deviation)	<b>48.53 (14.64)</b>	<b>47.95 (14.52)</b>	<b>48.24 (14.58)</b>
<b>Sex: Female, Male</b> [Units: Participants] Count of Participants			
<b>Female</b>	<b>105</b> 48.2%	<b>100</b> 45.0%	<b>205</b> 46.6%
<b>Male</b>	<b>113</b> 51.8%	<b>122</b> 55.0%	<b>235</b> 53.4%
<b>Region of Enrollment</b> [Units: Participants]			
<b>Italy</b>	<b>10</b>	<b>10</b>	<b>20</b>
<b>Spain</b>	<b>7</b>	<b>6</b>	<b>13</b>
<b>France</b>	<b>15</b>	<b>17</b>	<b>32</b>
<b>Germany</b>	<b>92</b>	<b>91</b>	<b>183</b>
<b>Poland</b>	<b>91</b>	<b>93</b>	<b>184</b>
<b>United Kingdom</b>	<b>3</b>	<b>5</b>	<b>8</b>

**Outcome Measures**

**1. Primary: Helicobacter Pylori Eradication Confirmed by Urea Breath Test [ Time Frame: Week 6 and week 10 follow-up visits ]**

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Helicobacter Pylori Eradication Confirmed by Urea Breath Test
<b>Measure Description</b>	H. pylori Eradication defined as a negative C13-UBT (urea breath test) result at both Week 6 and Week 10 follow-up visits.
<b>Time Frame</b>	Week 6 and week 10 follow-up visits

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

No imputation method used, as this is the per protocol population, which excludes patients with missing values, or with protocol violations.

**Reporting Groups**

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

**Measured Values**

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Participants Analyzed</b> [Units: Participants]	<b>178</b>	<b>161</b>
<b>Helicobacter Pylori Eradication Confirmed by Urea Breath Test</b> [Units: Participants]	<b>166</b>	<b>112</b>

**No statistical analysis provided for Helicobacter Pylori Eradication Confirmed by Urea Breath Test**

**2. Secondary: Number of Patients Experiencing Treatment Emergent Adverse Events. [ Time Frame: at the end of treatment (day 8-14), week 6 and week 10 follow-up visits. ]**

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Patients Experiencing Treatment Emergent Adverse Events.
<b>Measure Description</b>	A treatment-emergent adverse event is defined as an event not present prior to exposure to the study medication or any event already present that worsens in either intensity or frequency following exposure to study medication up to 30 days after study discontinuation.  All safety analysis based on the safety population.
<b>Time Frame</b>	at the end of treatment (day 8-14), week 6 and week 10 follow-up visits.

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

Safety population, described as all randomized patients having received at least one dose of study medication

**Reporting Groups**

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

**Measured Values**

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Participants Analyzed</b> [Units: Participants]	<b>216</b>	<b>222</b>
<b>Number of Patients Experiencing Treatment Emergent Adverse Events.</b> [Units: Participants]	<b>101</b>	<b>112</b>

**No statistical analysis provided for Number of Patients Experiencing Treatment Emergent Adverse Events.**

**3. Secondary: H. Pylori Eradication and Presence or Past History of Peptic Ulcers [ Time Frame: Week 6 and week 10 follow-up visits ]**

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	H. Pylori Eradication and Presence or Past History of Peptic Ulcers

<b>Measure Description</b>	Eradication rates in the subset of patients with peptic ulcer (current or past history) at baseline are reported based on the per protocol population. Eradication must be confirmed at week 6 and week 10 by a negative Urea Breath Test conducted within the allocated windows.
<b>Time Frame</b>	Week 6 and week 10 follow-up visits

#### Population Description

<b>Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.</b>
Per protocol population.

#### Reporting Groups

	Description
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

#### Measured Values

	Quadruple Therapy (OBMT) 10 Days	Triple Therapy (OAC) 7 Days
<b>Participants Analyzed</b> [Units: Participants]	19	18
<b>H. Pylori Eradication and Presence or Past History of Peptic Ulcers</b> [Units: Participants]	18	15

No statistical analysis provided for H. Pylori Eradication and Presence or Past History of Peptic Ulcers

#### 4. Secondary: Clarithromycin Resistance [ Time Frame: Measured at baseline ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Clarithromycin Resistance
<b>Measure Description</b>	Eradication rates in subset of patients infected with a bacterial strain confirmed as resistant to clarithromycin at baseline. Resistance to clarithromycin defined as Minimum Inhibitory Concentration (MIC) of 1 ug/ml and above
<b>Time Frame</b>	Measured at baseline

#### Population Description

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Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

Per protocol analysis population

#### Reporting Groups

	Description
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

#### Measured Values

	Quadruple Therapy (OBMT) 10 Days	Triple Therapy (OAC) 7 Days
<b>Participants Analyzed</b> [Units: Participants]	33	25
<b>Clarithromycin Resistance</b> [Units: Participants]	30	2

No statistical analysis provided for Clarithromycin Resistance

#### 5. Secondary: Metronidazole Resistance [ Time Frame: Measured at baseline ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Metronidazole Resistance
<b>Measure Description</b>	Eradication rates in subset of patients infected with a bacterial strain confirmed as resistant to metronidazole at baseline. Resistance to metronidazole defined as Minimum Inhibitory Concentration (MIC) above 8 ug/ml
<b>Time Frame</b>	Measured at baseline

#### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

Per protocol population

#### Reporting Groups

	Description
<b>Quadruple Therapy (OBMT) 10 Days</b>	

	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

#### Measured Values

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Participants Analyzed</b> [Units: Participants]	<b>42</b>	<b>41</b>
<b>Metronidazole Resistance</b> [Units: Participants]	<b>38</b>	<b>28</b>

No statistical analysis provided for Metronidazole Resistance

#### 6. Secondary: Overall Compliance to Study Medications [ Time Frame: At the end of the treatment phase (days 8-14) ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Overall Compliance to Study Medications
<b>Measure Description</b>	Overall compliance: number of capsules dispensed - number of capsules returned/Number of prescribed capsules X 100. Percentages based on safety population
<b>Time Frame</b>	At the end of the treatment phase (days 8-14)

#### Population Description

<b>Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.</b>
Safety population.

#### Reporting Groups

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

#### Measured Values

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>

<b>Participants Analyzed</b> [Units: Participants]	<b>216</b>	<b>218</b>
<b>Overall Compliance to Study Medications</b> [Units: Participants] Mean (Standard Deviation)	<b>97.58 (10.71)</b>	<b>97.47 (14.91)</b>

**No statistical analysis provided for Overall Compliance to Study Medications**

**7. Secondary: Number of Patients With Bismuth Plasma Concentrations Above the Toxic Level [ Time Frame: Baseline (both arms), end of treatment (Day 11-14) and end of study (Day 70) OBMT arm only ]**

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Patients With Bismuth Plasma Concentrations Above the Toxic Level
<b>Measure Description</b>	Tolerability of OBMT with respect to plasma bismuth concentrations: number of patients with bismuth concentrations above the toxic level (50 ug per liter)
<b>Time Frame</b>	Baseline (both arms), end of treatment (Day 11-14) and end of study (Day 70) OBMT arm only

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

Plasma bismuth concentrations were analysed in the OBMT arm only. The goal was to determine whether bismuth plasma concentrations would be of 50 ug/l or above at end of treatment, or at the end of study. The results report the number of patients having reached 50 ug/l in the OBMT arm at either of these timepoints.

**Reporting Groups**

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

**Measured Values**

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Participants Analyzed</b> [Units: Participants]	<b>216</b>	<b>0</b>
<b>Number of Patients With Bismuth Plasma Concentrations Above the Toxic Level</b> [Units: Participants]	<b>0</b>	

No statistical analysis provided for Number of Patients With Bismuth Plasma Concentrations Above the Toxic Level

► Serious Adverse Events

<b>Time Frame</b>	Adverse events were recorded starting at the signing of the informed consent until the final visit (Day 70) or early withdrawal visit. Serious adverse events were followed until 30 days after the patient had stopped study participation.
<b>Additional Description</b>	Systematic assessment done for laboratory evaluations and bismuth plasma levels.

**Reporting Groups**

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

**Serious Adverse Events** ⓘ

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Total, Serious Adverse Events</b>		
<b># participants affected / at risk</b>	<b>4/216 (1.85%)</b>	<b>3/222 (1.35%)</b>
<b>Cardiac disorders</b>		
<b>Ventricular extrasystoles * 1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Gastrointestinal disorders</b>		
<b>Pancreatitis * 1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Vomiting * 1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>General disorders</b>		
<b>Condition aggravated * 1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>

<b># events</b>	<b>0</b>	<b>1</b>
<b>Pyrexia *1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Infections and infestations</b>		
<b>Appendicitis *1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Proteus infection *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>
<b>e coli urinary tract infection *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>
<b>Metabolism and nutrition disorders</b>		
<b>Dehydration *1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Malnutrition *1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</b>		
<b>Gastrointestinal carcinoma *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>
<b>Nervous system disorders</b>		
<b>Vascular dementia *1</b>		
<b># participants affected / at risk</b>	<b>0/216 (0.00%)</b>	<b>1/222 (0.45%)</b>
<b># events</b>	<b>0</b>	<b>1</b>
<b>Psychiatric disorders</b>		
<b>Schizophrenia *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>
<b>Renal and urinary disorders</b>		
<b>Renal artery stenosis *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>
<b>Renal failure acute *1</b>		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>

<b>Skin and subcutaneous tissue disorders</b>		
<b>Eczema</b> * 1		
<b># participants affected / at risk</b>	<b>1/216 (0.46%)</b>	<b>0/222 (0.00%)</b>
<b># events</b>	<b>1</b>	<b>0</b>

\* Events were collected by non-systematic assessment

1 Term from vocabulary, PT

## ▶ Other Adverse Events

<b>Time Frame</b>	Adverse events were recorded starting at the signing of the informed consent until the final visit (Day 70) or early withdrawal visit. Serious adverse events were followed until 30 days after the patient had stopped study participation.
<b>Additional Description</b>	Systematic assessment done for laboratory evaluations and bismuth plasma levels.

### Frequency Threshold

<b>Threshold above which other adverse events are reported</b>	5%
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### Reporting Groups

	<b>Description</b>
<b>Quadruple Therapy (OBMT) 10 Days</b>	Omeprazole 20 mg BID (twice a day), and the 3 in 1 capsule, Pylera, containing Bismuth Subcitrate potassium 140 mg, metronidazole 125 mg and tetracycline 125 mg, administered as 3 capsules QID (four times day)
<b>Triple Therapy (OAC) 7 Days</b>	Omeprazole 20 mg BID, Amoxicillin 500 mg 2 capsules BID and Clarithromycin 500 mg 1 tablet BID

### Other Adverse Events

	<b>Quadruple Therapy (OBMT) 10 Days</b>	<b>Triple Therapy (OAC) 7 Days</b>
<b>Total, Other (not including serious) Adverse Events</b>		
<b># participants affected / at risk</b>	<b>98/216 (45.37%)</b>	<b>105/222 (47.30%)</b>
<b>Gastrointestinal disorders</b>		
<b>Dyspepsia</b> * 1		
<b># participants affected / at risk</b>	<b>22/216 (10.19%)</b>	<b>30/222 (13.51%)</b>
<b>Diarrhea</b> * 1		
<b># participants affected / at risk</b>	<b>14/216 (6.48%)</b>	<b>28/222 (12.61%)</b>
<b>Nausea</b> * 1		

<b># participants affected / at risk</b>	<b>14/216 (6.48%)</b>	<b>2/222 (0.90%)</b>
<b>Headache * 1</b>		
<b># participants affected / at risk</b>	<b>18/216 (8.33%)</b>	<b>7/222 (3.15%)</b>
<b>Nervous system disorders</b>		
<b>Dysgeusia * 1</b>		
<b># participants affected / at risk</b>	<b>12/216 (5.56%)</b>	<b>22/222 (9.91%)</b>
<b>Vascular disorders</b>		
<b>Abdominal pain upper * 1</b>		
<b># participants affected / at risk</b>	<b>18/216 (8.33%)</b>	<b>16/222 (7.21%)</b>

\* Events were collected by non-systematic assessment

1 Term from vocabulary, PT

## ▶ Limitations and Caveats

**Limitations of the study, such as early termination leading to small numbers of participants analyzed and technical problems with measurement leading to unreliable or uninterpretable data**

No text entered.

## ▶ More Information

### Certain Agreements:

Principal Investigators are **NOT** employed by the organization sponsoring the study.

There **IS** an agreement between Principal Investigators and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

The agreement is:

The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **less than or equal to 60 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.

The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **more than 60 days but less than or equal to 180 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.

Other disclosure agreement that restricts the right of the PI to discuss or publish trial results after the trial is completed.

**Restriction Description:** Restrictions vary in accordance with the agreement with investigators. Axcán will allow publication after a multi-centre publication or after an agreed period, subject to review by Axcán for confidentiality and intellectual protection.

**Results Point of Contact:**

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**Publications automatically indexed to this study by ClinicalTrials.gov Identifier (NCT Number):**

[Malfertheiner P, Bazzoli F, Delchier JC, Celiński K, Giguère M, Rivière M, Mégraud F; Pylera Study Group. Helicobacter pylori eradication with a capsule containing bismuth subcitrate potassium, metronidazole, and tetracycline given with omeprazole versus clarithromycin-based triple therapy: a randomised, open-label, non-inferiority, phase 3 trial. Lancet. 2011 Mar 12;377\(9769\):905-13. doi: 10.1016/S0140-6736\(11\)60020-2. Epub 2011 Feb 21. Erratum in: Lancet. 2011 Nov 19;378\(9805\):1778. Dosage error in article text.](#)

Responsible Party:	Forest Laboratories
ClinicalTrials.gov Identifier:	<a href="#">NCT00669955</a> <a href="#">History of Changes</a>
Other Study ID Numbers:	PYLHp07-01
First Submitted:	April 29, 2008
First Posted:	May 1, 2008
Results First Submitted:	June 21, 2010
Results First Posted:	August 5, 2010
Last Update Posted:	March 16, 2017