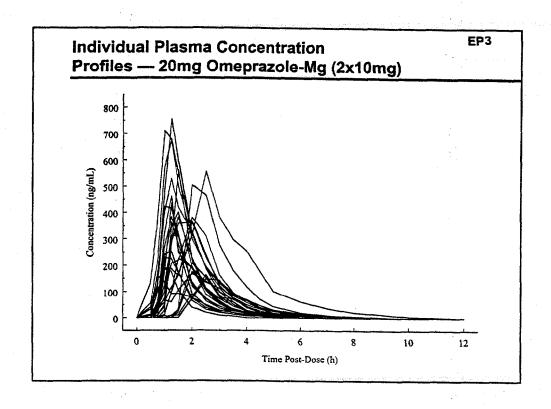
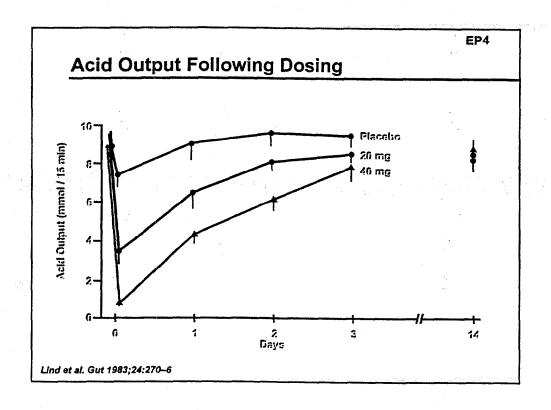
Omeprazole-Mg OTC Efficacy Program

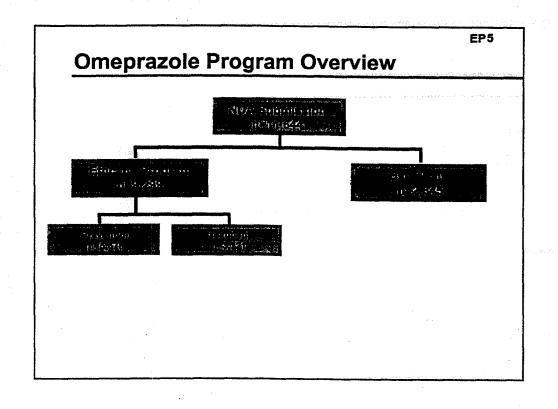
Nora L. Zorich, M.D., Ph.D. Medical Director Procter & Gamble

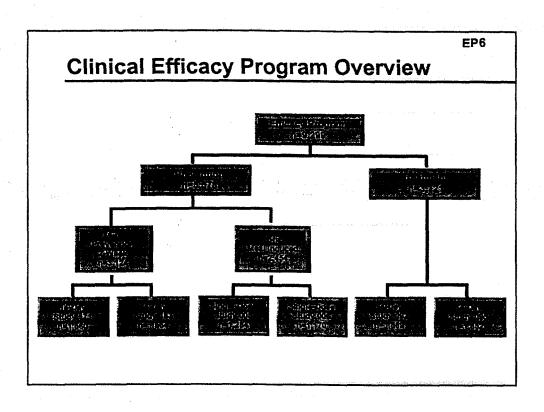
Points to Consider in Support of OTC Suitability

- Pharmacokinetics/Pharmacodynamics of Omeprazole
- Efficacy Results
 - Heartburn Prevention
 - Heartburn Treatment









General Study Design

- Subject Recruitment
 - National advertising campaign
 - Subjects asked:
 - Do you suffer from heartburn?

EP8

General Study Design

- Screening Phase heartburn history
 - Previous use of OTC HB medication
 - Subjects did not need continuous treatment for HB
 - No physician diagnosis of GERD or EE
 - 2 days/week with episodes of HB in last month
- Qualifying Phase heartburn occurrence
 - Confirm at least 2 days of HB
 - Complete diary correctly
- Experimental Phase heartburn assessment

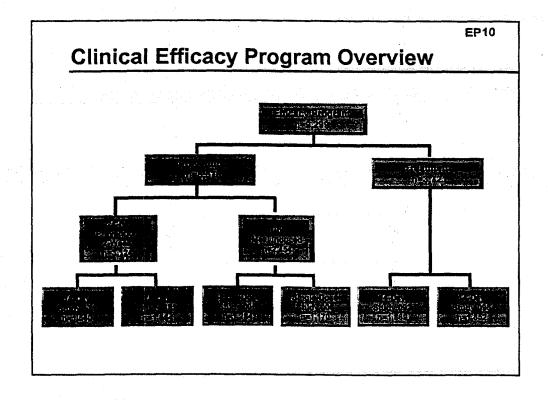
Demographic Characteristics of Subjects in Efficacy Trials

EP9

Characteristic

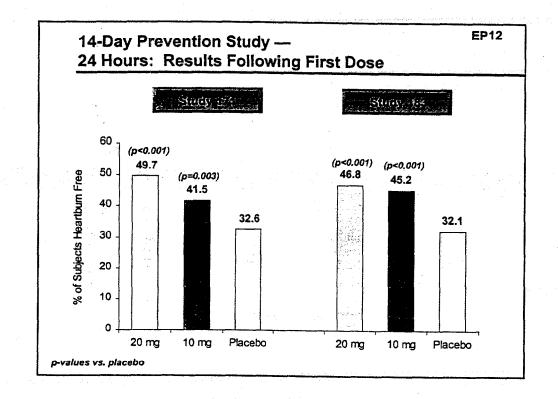
Gender (% Female)	55%	(47–66%)
Race (% Caucasian)	86%	(76–91%)
Age (yrs)	44	(18–93)
Weight (kg)	87	(36–199)
Height (cm)	170	(124–213)
Smoking (%)	27%	(19–34%)
Alcohol Use (%)	47%	(39–53%)
Caffeine Use (%)	89%	(84–95%)

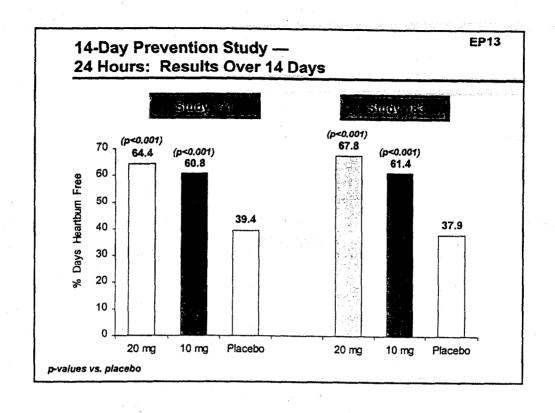
Values given are means (ranges) from 6 separate trials involving 9,299 subjects.

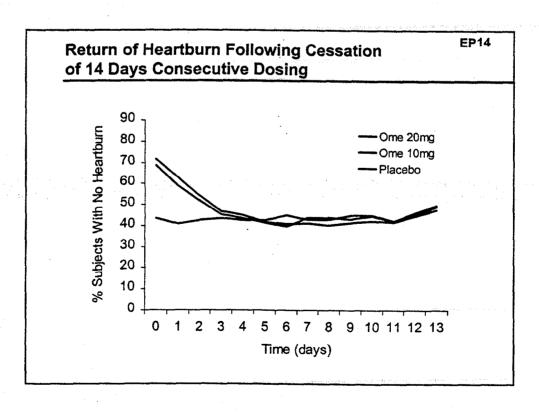


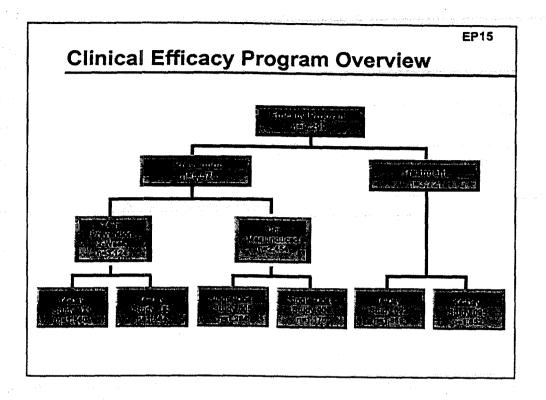


- ◆ Placebo, 10 mg or 20 mg omeprazole
- One dose each morning
- Rescue medication was provided
- 14-day duration
- Evaluated heartburn occurrence over a full 24 hours and nighttime occurrence



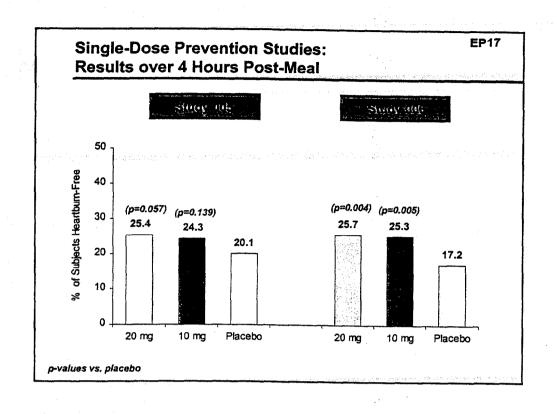


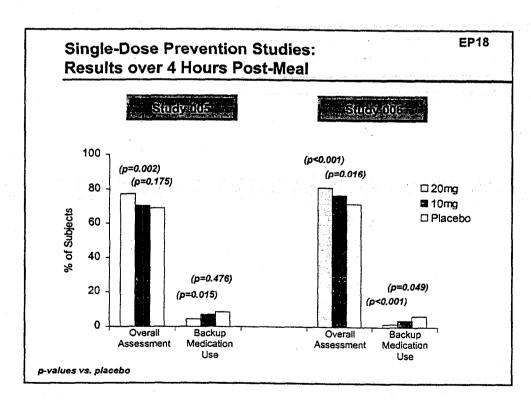




Single-Dose Prevention Studies: Trial Design

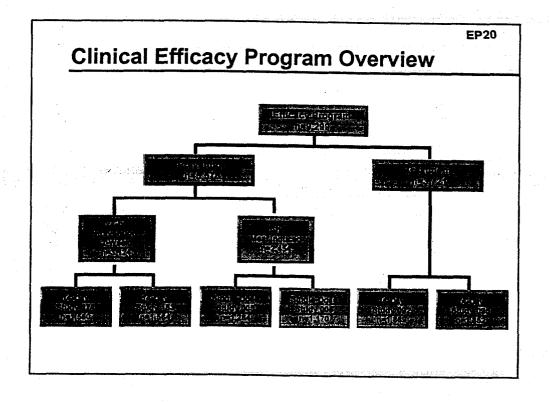
- Single-dose
- Placebo, 10 mg or 20 mg omeprazole
- Dosed 1 hour before a provocative meal
- Rescue medication was provided
- Evaluated heartburn occurrence for 4 hours from the meal
 - Complete prevention of heartburn over all 4 hours





Summary of Prevention Program

- Both 10 mg and 20 mg prevent heartburn
 - When dosed in the morning for all day prevention
 - When dosed 1 hour before food/beverage



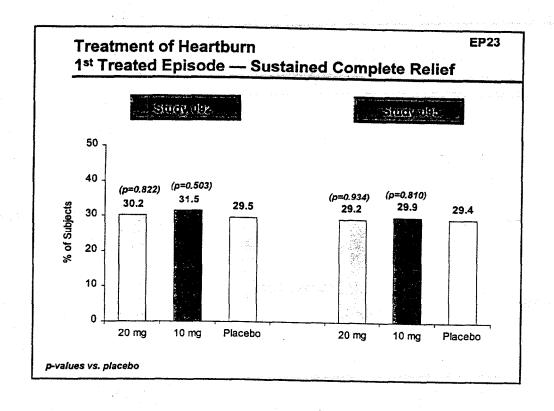
Treatment Study: Trial Design

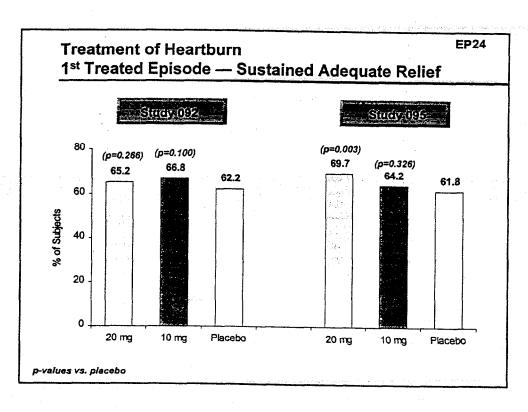
EP21

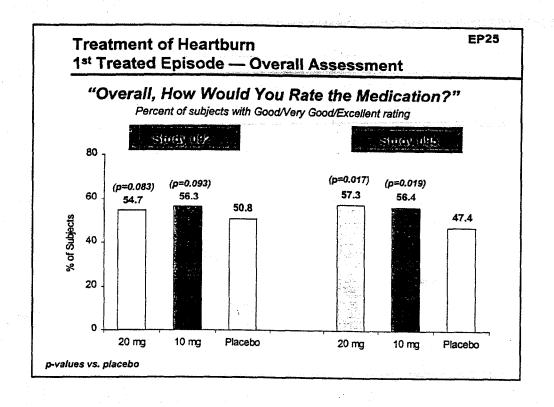
- Placebo, 10 mg or 20 mg omeprazole
- Dosed prn, no more than 1 dose / day
- Rescue medication was provided
- 14-day duration
- Primary Endpoint: Sustained Complete Relief
 - Complete Relief within first hour, sustained an additional 2 hours

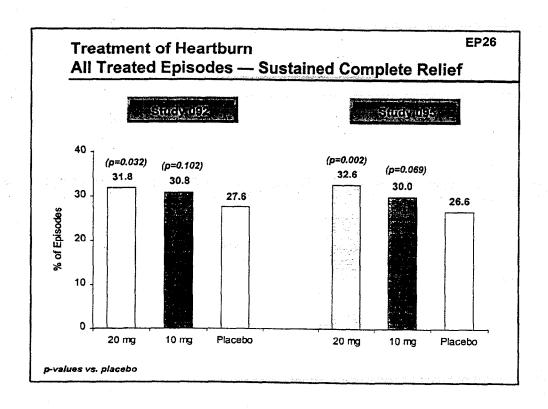
Frequency of Days with Heartburn in Treatment Trials (placebo groups)

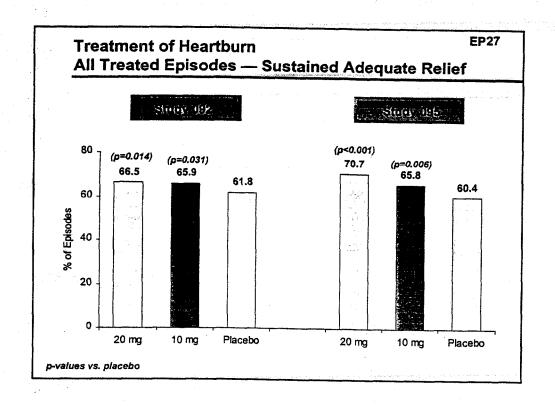
- Median days of heartburn was 6
- 25% of subjects had heartburn on
 ≥ 10 days
- 83% of subjects had heartburn on 2 consecutive days
- 36% of subjects had heartburn on 4 consecutive days

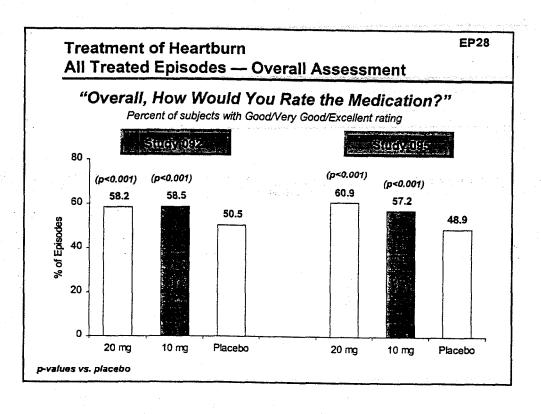












Summary of OTC Clinical Efficacy

- Omeprazole prevents heartburn
- Omeprazole is effective in the treatment of frequent heartburn
- Both 10 and 20 mg are efficacious