### InfoPOEMs<sup>®</sup>

Patient Oriented Evidence that Matters

# **Dyspepsia: Test and treat for** *H pylori* **or start PPIs?**

**Start empiric PPIs.** In patients with undifferentiated dyspepsia symptoms (epigastric pain with or without heartburn but without a specific diagnosis), empiric acid suppression (omeprazole 20 mg daily for 1 month) and testing for and treating *Helicobacter pylori* infection had similar results.

The percentage of patients who were symptom free at 1 year was similar between the 2 groups. Increased costs of testing were offset by decreased costs in subsequent testing and procedures.

Delaney BC, Qume M, Moayyedi P, et al. *Helicobacter pylori* test and treat versus proton pump inhibitor in initial management of dyspepsia in primary care: multi-centre randomised controlled trial (MRC-CUBE trial). *BMJ*. 2008;336:651-654.

#### Level of evidence

**1b:** Individual randomized controlled trials (with narrow confidence interval)

s it reflux? Peptic ulcer? So-called functional dyspepsia? The trend in primary care is toward empiric treatment to control symptoms, and away from a strict diagnosis in patients who have no alarm symptoms such as hematemesis.

This study enrolled 699 adults with general symptoms of epigastric pain, heartburn, or both, lasting for at least 4 weeks but without alarm symptoms. Using concealed allocation, the patients were randomly assigned to 1 of 2 intervention groups.

The test-and-treat group was tested for *H pylori* using the urea breath test; 29% had positive results and were treated with eradication therapy and 1 month of acid suppression with a lowdose proton pump inhibitor (omeprazole 20 mg daily). Patients with negative test results were treated only with acid suppression.

Patients in the empiric treatment group did not undergo testing but received the same dose and duration of acid suppression.

Using intent-to-treat analysis, the cost, percent of patients who were symptom free at the end of 12 months, and quality of life were compared. Final results were expressed as quality-adjusted life years. Data were available for 76% of patients.

#### Similar quality of life at 1 year

No difference was noted between the test-and-treat group and the empiric acid suppression group, in number of patients with symptoms at 1 year, quality of life, or costs. The increased initial cost of *H pylori* testing was offset by decreases in costs incurred by other imaging.

#### STUDY DETAILS

#### Design

Randomized controlled trial (single-blinded)

Funding Government

Allocation Concealed

Setting Outpatient (primary care)

Copyright© 1995-2008 John Wiley & Sons, Inc. All rights reserved. www.essentialevidenceplus.com.

#### FAST TRACK

No difference was noted between the 2 groups, in freedom from symptoms at 1 year, quality of life, or cost

### **Oral or IV steroids for inpatient COPD?**

**Oral steroids** are as effective as intravenous (IV) steroids for nonsevere exacerbations of chronic obstructive pulmonary disease (COPD). Because oral steroids are cheaper and less invasive, they are preferred.

de Jong YP, Uil SM, Grotjohan HP, Postma DS, Kerstjens HA, van den Berg JW. Oral or IV prednisolone in the treatment of COPD exacerbations: a randomized, controlled, doubleblind study. *Chest.* 2007;132:1741-1747.

#### Level of evidence

**1b:** Individual randomized controlled trials (with narrow confidence interval)

Although the oral bioavailability of corticosteroids is excellent, many physicians persist in using IV steroids for patients with exacerbations of COPD.

In this study, 210 hospitalized adults older than 40 years with COPD and at least 24 hours of exacerbation were randomized to receive 5 days of oral or IV prednisolone (60 mg daily) followed by a tapering oral dose. Patients with a severe exacerbation (pH <7.26 or PaCO<sub>2</sub> >9.3 kPa) were excluded. Allocation was concealed and patients were randomized using a "minimization protocol" that

balances groups for key variables such as age, sex, smoking history, and supplemental oxygen use.

The primary outcome was treatment failure, defined as death, admission to the intensive care unit, readmission, or the need to intensify treatment. Groups were balanced at the start of the study, and analysis was by intent to treat; withdrawals and exclusions were uncommon and similar between groups.

No difference was noted between groups in the primary outcome either early (ie, within 2 weeks), late (ie, after 2 weeks), or overall. The treatment failure rate was relatively high in both groups, usually because of the need to intensify treatment.

#### STUDY DETAILS

**Design** Randomized controlled trial (double-blinded)

Funding Unknown/not stated

#### Setting

Inpatient (any location)

Copyright© 1995–2008 John Wiley & Sons, Inc. All rights reserved. www.essentialevidenceplus.com.

#### FAST TRACK

Oral steroids are cheaper and less invasive, and should be favored over IV steroids for nonsevere exacerbations of COPD

## Do risks of hormone therapy persist after discontinuation?

**No.** This analysis of continued health outcomes 3 years after stopping hormone replacement therapy (HRT) in the active treatment group of the Women's Health Initiative (WHI) no longer detected a significantly increased risk of cardiovascular events or invasive breast cancer compared with the control group during the postintervention phase. The initial benefit of HRT for reducing fracture risk was also no longer observed after stopping therapy. All-cause mortality risk continued to be not significantly different between the 2 groups, but the overall "global index of risk versus benefit" remained higher among women who received active hormone treatment.

Heiss G, Wallace R, Anderson GL, et al; for the WHI Investigators. Health risks and benefits 3 years after stopping randomized treatment with estrogen and progestin. *JAMA*. 2008;299:1036-1045.

#### Level of evidence

**1b:** Individual randomized controlled trials (with narrow confidence interval)

he WHI randomized 16,608 postmenopausal women with an intact

**OVERDOSAGE: Human Experience with Overdosage-** There is limited clinical experience with desvenlafaxine succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desvenlafaxine were reported. The adverse reactions reported within 5 days of an overdose > 600 mg that were possibly related to Pristig included headache, vomiting, agitation, dizziness, nausea, constipation, diarhea, dry mouth, paresthesia, and tachycardia. Desvenlafaxine (Pristig) is the major active metabolite of venlafaxine. Overdose experience reported with venlafaxine (the parent drug of Pristig) is presented below; the identical information can be found in the *Overdosage* section of the venlafaxine package insert. In postmarketing experience, overdose with venlafaxine (the parent drug of Pristig) has occurred predominantly in combination with alcohol and/or other drugs. The most commonly reported events in overdosage include tachycardia, changes in level of consciousness (ranging from somolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (e.g., prolongation of 01 interval, bundle branch block, ORS prolongation), sinus and ventricular tachycardia, hradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been reported. Published retrospective studies report that venlafaxine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSI antidepressant products, but lower than that for tricyclic antidepressants. Epidemiological studies have shown that venlafaxine in overdosage, as opposed to some characteristic(s) of venlafaxine-treated patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients in order to reduce the risk of overdose. **Management of Overdosage**: Treatment should consist of those general measures employed in the management of overdosage. Freatment should consist of those general measures employed in the management of overdosage, sings. Gener

This brief summary is based on Pristiq Prescribing Information W10529C001, revised February 2008

uterus, ages 50 to 79 years, to receive either conjugated equine estrogen (CEE) plus progestin (PremPro) or matched placebo (concealed allocation assignment). The original trial was stopped after 5.6 years because of concern about an increased risk of invasive breast cancer and cardiovascular events in the intervention group. These investigators reported the continued health outcomes for 95% (n=15,730) of these women 3 years after the intervention was stopped. As in the original trial, individuals masked to treatment group assignment continued to report outcomes, and analysis was by intent to treat.

The initial significantly increased risk of cardiovascular events and invasive breast cancer among women assigned to the CEE/progestin group was no longer observed during the postintervention phase. The benefit of a reduced risk of fracture with hormonal therapy was also no longer observed after the intervention. The "global index of risk versus benefit" remained essentially unchanged, maintaining a nominally significant 12% increase for women in the active treatment group. All-cause mortality rates remained similar in the active and placebo treatment groups.

#### STUDY DETAILS

Design Randomized controlled trial (double-blinded) Funding Foundation Allocation Concealed

Setting Population-based

Copyright© 1995–2008 John Wiley & Sons, Inc. All rights reserved. www.essentialevidenceplus.com.

