In this pilot study we investigated the value of a fourteen-day regimen with amoxicillin (1 g bid), ranitidine (300 mg/d) and ursodeoxycholic acid (300 mg tid) in eradicating Helicobacter pylori. 15 patients with non-ulcer dyspepsia (reactive CLO test, positive histology or 13C urea breath test) were enrolled. Helicobacter pylori was eradicated in 6 of 13 patients (13C urea breath test 4 weeks after the end of treatment). 2 patients were not followed up because of too short treatment (< 1 week). Only 5/15 patients had no side effects (33%). These results strongly suggest that ursodeoxycholic acid in this application regimen is not of use in eradicating Helicobacter pylori.