Reviewer's report

Title: Helicobacter pylori Infection and its Association with Anemia among Dyspeptic Patients Attending Butajira Hospital, Ethiopia

Version: 3  Date: 27 September 2014

Reviewer: Ayele Argaw

Reviewer's report:

Major Compulsory Revisions:

1. Title: Since your study population are adult person (>18), your title has been modified indicating your study subjects age level and the study region like: “Helicobacter pylori Infection and its Association with Anemia among Adult Dyspeptic Patients Attending Butajira Hospital, SNNP Region Ethiopia”

2. Abstract: your conclusion part doesn’t address your study aim as well your study result. Please rewrite your abstract conclusion exactly in line with your study aim and results. “The association between H. pylori infection with anemia need to be investigated in cohort type studies that can demonstrate a real cause and effect relationship” I suggest you to write it as a methodological limitation of your study.

3. Materials and Methods:
   • Please indicate what major clinical indicators had you been used to identify dyspeptic patients, meaning what inclusions and exclusions criteria you had used to select the study subjects or indicate which guideline used to identify the study subjects at least clinically (looking your discussion part line 162 I think it is important to show what criteria you used).
   • Address also your study subjects are adults (age level)

4. Result:
   • Modify title 3.1 as , “Sociodemographic characteristics of the study participants” characteristics alone is a vague please also modify this throughout the manuscript
   • “A. lumbricoids and Hookworm”. Since they are not listed in your table better to remove them or rephrase your sentence
   • I strongly recommend you to do the multivariate logistic regression analysis to really talk about the association of the H. Pylori infection with anemia, since you have a lot of well known co-factors as well confounders in your study. Moreover, there is no table in your manuscript that shows what you write in the result part as well using only X2 test is not sufficient to demonstrate the association of anemia with H. Pylori in your study, especial in the presence of other well known anemia risk factors like intestinal parasites, diet, BMI, family income. My suggestion is either do multivariate logistic regression analysis (which is best) or...
modify your title as well your study question (aim). For example you can modify the title like “Anemia parameters variation and associated risk factors of Helicobacter pylori infection among Adult Dyspeptic Patients Attending Butajira Hospital, SNNP Region Ethiopia. Then you can say in this study considering the high frequency of anemia, X2 result and anemia parameters variations we can assume there might be a link between H. Pylori infection and occurrence of anemia. Similarly, in other studies….. (write it in your discussion part)

5. Discussion:
• Rewrite paragraphs that discusses on smoking habit (line 193-197) and intestinal parasite infection (reconsider your references) they are not explanatory
• Regarding the paragraph that discusses occurrence of anemia consider the above comments I gave and write it as one paragraph merging with your anemia/hematological parameters findings.

Minor Essential Revisions
• Please try to look over and correct all typographical errors throughout your manuscripts

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests: I declare that I have no competing interests