Reviewer's report

Title: Prevalence, impacts and medical managements of premenstrual syndrome among female students: cross-sectional study in college of health science, Mekelle university, Mekelle, northern Ethiopia

Version: 4
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Reviewer: Nusrat Nisar

Reviewer's report:

1. In abstract Author had mentioned in the background (3rd line) "main aim of the study was to determine the prevalence, impacts and medical managements of PMS". Aim or objective of any study may be primary and secondary there is no term main aim it needs to be corrected/ revised by authors.

2. Author use the term "determine" the prevalence of PMS. To Determine prevalence of any disease one needs to compare the two groups and to apply some statistical test in between those two groups as author did not use any second group in this research the term "Determine" needs to be revised.

3. Methods need some more elaboration. to establish the diagnosis of PMS women should have maintained the menstrual calender for atleast 2 to 3 months so that cyclical pattern of PMS related symptoms can be established. Author did not mentioned in the methods that how diagnosis of pms was established as they did not ask the participants to maintain the menstrual diary.

4. Methos did not explain that how the degree of PMS symptoms was rated and what tool was used for it as it is mentioned in the result table 3 that symptos were of mild moderate and severe degree. author are suggested to describe the tool used for it.

5. Inclusion criteria 1.Had a menstrual period at least in the last three months) as i suggested earlier the diagnosis of PMS is done when woman had PMS related symptos for atleast two consequetive months if she had periods once in three months then this does not fullfill the diagnostic criteria for PMS.

(Inclusion criteria 2Women of fertile age). As the author had mentioned the age of woman in range this inclusion criteria may be changed with the age in range author may write age group inspite of writing woman of fertile age it will clear the ambiguity if author agrees to modify 2nd inclusion criteria.

Exclusion criteria (3 Currently using a hormonal method of contraception) This is very sensible criteria but in the result section page 15 para 2 line 1 author had mentioned that 14 participants were found to be a current contraceptive users and it was further mentioned in the table 2 the different harmonal methods used by the participants. Author is suggested to correct the exclusion criateria 3.

Exclusion criteria (5 Had undergone total abdominal hysterectomy operation) it is the ovarian harmones responisible for PMS related symptoms uterus had no relation with those symptoms author is suggested to correct this exclusion criteria
as woman may have hysterectomy but ovaries may be preserved such woman 
may have PMS related symptoms. further more it is very rare that woman aged 
18-27 had removal of uterus so this exclusion criteia can be deleted if auther 
agray to it.

Results are satisfactory and discusion had provided good comparison with 
literature.

Few grammer and typographical mistake are present in whole arlice

**Level of interest:** An article of importance in its field

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.