Author’s response to reviews

Title: Effect of BMI on blood value of patients on HCG day with IUI treatment

Authors:

Li-Ting Wang (wanglitingttt@sina.com)
Cheng-xiang Wang (wandchengxiangd@sina.com)
Hong-Liang Sun (sunhognliangshl@sina.com)
Xue Wang (wangxuewx113@sina.com)
Xue-Feng Li (lixuefnegxuefeng@sina.com)
Yan-Lin Wang (wangyanlin1110@sina.com)
Qing-Chun Li (qingchunli10@163.com)

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Reviewer 1

Comments 1: Abstract “BMI is negatively correlated with E2, LH and P in IUI on HCG day. After controlling for age and assisted pregnancy, the correlation analysis revealed that the BMI is negatively correlated with hormone E2 and LH.” Are these 2 sentences not rather part of conclusion?

Reply: Yes they should and have been moved to the conclusion.

Comments 2: “It has been proven by growing evidences that obesity can result to infertility” “evidences” should be evidence, “result to” should be result in

Reply: It's been corrected in the manuscript

Comments 3: Introduction “Due to the different BMI characteristics for different populations, the present study adopted the BMI grading standard, which was formulated by the World Health Organization (WHO) for the Asia Pacific region. This was suitable for the physical characteristics of Chinese subjects. In addition, the influence of the BMI grading standard on blood value on
HCG day and pregnancy outcome during the IUI treatment was also discussed.” these sentences should be in methods...

Reply: They are moved to the methods.

Comments 4: “To date, the most approbatory mechanism is that …” “approbatory” should be widely accepted

Reply: It's been corrected in the manuscript

Comments 5: “Furthermore, insulin resistance and leptin resistance generally occurs in obese people [11-15]. In addition, the level of free fatty acids in the blood of obese people is higher” “Furthermore” should be deleted; “generally occurs in obese people [11-15]. In addition,” should be “often occurs [11-15] and”

Reply: It's been corrected in the manuscript

Comments 6: “E2, LH and P” words in full

Reply: It's been corrected in the manuscript

Comments 7: “The research results of Souter et al.” should be ‘The research of Souter et al.”

Reply: It's been corrected in the manuscript

Comments 8: “The disorder of HPO axis” should be “Disorder of HPO axis”

Reply: It's been corrected in the manuscript

Comments 9: “Obesity not only affects the menstruation and ovulation of women during their reproductive period, but also damages the eggs quality and uterine receptivity, to some extent” “also damages the eggs quality and uterine receptivity, to some extent” should be “also to some extent the eggs quality and uterine receptivity”; “eggs” should be “egg”; “significantly decreases” should be “is significantly decreased”

Reply: It's been corrected in the manuscript
Comments 10: “The results are presented, as follows” should be deleted
Reply: It's been corrected in the manuscript

Comments 11: “(1) underwent IUI with natural cycle, and &lt;35 years old; (2) underwent IUI with natural cycle, and &gt;35 years old; (3) I underwent IUI with ovulation induction cycle, and &lt;35 years old; (4) underwent IUI with ovulation induction cycle &gt;35 years old” “underwent” should be deleted
Reply: It's been corrected in the manuscript

Comments 12: “These patients were divided into four groups according to the order of BMI grouping.” Should it be three groups?
Reply: It's been corrected as “three groups” in the manuscript

Comments 13: “Then, IUI was performed.” Should be “IUI was then performed.”
Reply: It's been corrected in the manuscript

Comments 14: “The lithotomy position was taken for the patients” Should be “The patients were placed in lithotomy position”
Reply: It's been corrected in the manuscript

Comments 15: “with IUI after operation” should be “with IUI after procedure.”
Reply: It's been corrected in the manuscript

Comments 16: “whether the patient is pregnant” “is” should be “was”
Reply: It's been corrected in the manuscript

Comments 17: “The normally distributed measurement data” “measurement” should be deleted.
Reply: It's been corrected in the manuscript
Comments 18: “ (1) 815 cases underwent IUI with natural cycle, and the age of these patients was &lt;35 years old; (2) 254 cases underwent IUI with natural cycle, and the age of these patients was &gt;35 years old; (3) 1,144 cases underwent IUI with ovulation induction cycle, and their age was &lt;35 years old; (4) 106 cases underwent IUI with ovulation induction cycle, and their age was &gt;35 years old.” “and the age of these patients was” should be deleted.

Reply: It's been corrected in the manuscript

Comments 19: “ divided into three groups” “groups” should be deleted

Reply: It's been corrected in the manuscript

Comments 20: “ These patients were divided into four groups according to the order of BMI grouping” this information might be easier to read in a table format, or it could be left out as it has been repeated in subsections again below

Reply: this information has been deleted in the manuscript

Comments 21: “ an excessively high E2 level do not affect” “level” should be “levels”

Reply: It's been corrected in the manuscript

Comments 22: “ When the female age is not more than 35 years, the BMI affects” should be “In a woman of less than 35 years, BMI affects”

Reply: It's been corrected in the manuscript

Comments 23: “ the BMI does not obviously” should be “lower BMI does not obviously”

Reply: It's been corrected in the manuscript