Reviewer’s report

Title: Hypoglycemic effect of Carica papaya leaves in streptozotocin-induced diabetic rats

Version: 1 Date: 7 September 2012

Reviewer: Ignacio Parraga

Reviewer’s report:

- Major Compulsory Revisions

1. To include a clarification or explanation for using the number of fasting blood glucose levels # 250 mg/dL as a criterion for inclusion in the study.

2. Regarding the methodology of the study, it is advisable to clarify if there has made a sample size calculation and parameters used to calculate it.

3. In the discussion it seems appropriate to include additional comments on the limitations of the study. It is recommended to express that provided results should be interpreted taking into account aspects such as:
   a. Preliminary data are presented.
   b. The number of subjects in each group.
   c. Animals have DM type 1 induced by a drug.
   d. Time of administration of extract of Carica papaya was only 4 weeks.

4. Regarding the concluding section, I consider that the statement: "These results suggest That The Aqueous extract of C. Provide an alternative papaya may Therapy to Prevent diabetic complications " should be amended, because it is not clear from the results presented.

It is advisable to review statements in the introduction using bibliographical references with the number 1 and 2. Reference nº1 corresponds to a magazine published in hungarian (Impact Factor?), which causes a difficulty to know its content. The reference nº. 2 refers to a case-control study and does not mention experimental models.

- Minor Essential Revisions

1. First of all, it is advisable to justify why streptozotocin (STZ) has been used and why the dose of 60 mg/kg.

2. In this sense, it would be appropriate to indicate the reasons why they have used doses of 0.75, 1.5 and 3g/100 ml extract of Carica papaya.

3. En el apartado de resultados sería aconsejable incluir algún intervalo de confianza que permita clarificar la información mostrada.
4. We do not know the number of animals that were administered STZ and those who were excluded from the study.

5. In the results section would be advisable to include a confidence interval that allow to clarify the information displayed.

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

**Quality of written English:** Acceptable

**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