Review of Manuscript 18-0227 (Mediterranean Journal of Nutrition and Metabolism)

Dari: m.a.battino@univpm.it

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Selasa, 22 Mei 2018 pukul 15.39 WIB

Dear Dr. Ahmadi,

A decision has been reached regarding manuscript 18-0227, entitled "Green tea extract attenuates Non Alcoholic Fatty Liver Disease by decreasing hyperlipidemia and enhancing Superoxide Dismutase Activity in Cholesterol-Fed Rats.."

The authors have been notified that the paper has been accepted for publication pending minor revision. Please visit the Web address below to view the decision letter sent to the authors. Doing so also serves to confirm receipt of this message.

I appreciate your contribution to the peer review process, and look forward to viewing the products of your scholarship in the future.

Sincerely,

Maurizio Battino
Mediterranean Journal of Nutrition and Metabolism

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Mediterranean Journal of Nutrition and Metabolism

Reviews of 18-0227

"Green tea extract attenuates Non Alcoholic Fatty Liver Disease by decreasing hyperlipidemia and enhancing Superoxide Dismutase Activity in Cholesterol-Fed Rats."

Decision Letter

I am pleased to inform you that your manuscript is acceptable for publication in Mediterranean Journal of Nutrition and Metabolism pending some minor, but mandatory, revisions.

Below is a link to the decision and reviewers' comments regarding your submission. One of the reviewers also added comments/corrections to the article file that you can download from the link you will find within this letter.

Please revise your manuscript according to ALL the reviewers' suggestions and provide a point-by-point response to the reviews. Your revised manuscript should be submitted to our online submission system (https://mstracker.com/submit1.php). Be sure the manuscript is formatted per our instructions to authors. When resubmitting please mention the reference number in the cover letter.

Sincerely,

Maurizio Battino
Mediterranean Journal of Nutrition and Metabolism

Reviewer 1

Very Good Manuscript

Reviewer 2

This study about the effect of green tea leave extract on the lipid profile and hepatoprotective effects, as well as non deep examination the bioactive compounds in the green tea.

The title does not fully represent all the work because its emphasize on liver disease, although other related parameters also evaluated. It is better to re-write the title to well represent all the work in this study.

Abstract was not written well, some lacks especially found in the method section. Please rewrite the abstract.

Introduction has been written well although the introductory does not focus well to what will be evaluated in this study.

Methods should be rewrite and more complete expalanation is required. See all my comments in manuscript by track changes. The author is suggested to write more clear and comprehensive method.

Results and discussions have been presented well, although the reason for the phenomena found in this study frequently did not write well. Make more comprehensive data in the figure, that the author did not have to write all the data to compare the result of lipid profile among groups. By presenting well data in the Figure, the value of each lipid profile parameters can be referred to the Figures or Tables.
Make more comprehensive discussion about the histopathology of

the liver after treatments. The author tended to only present the result without deep discussion and comparison to other similar study.

Make better format and typography of the manuscript. Some typho errors were funds.

Ancillary file: view

Reviewer 3

it is necessary to distinguish the paragraph concerning the results from the discussion of the results. The current text is not clear in this regard

Reviewer 4

The manuscript could be of interest to the readers of MJNM, however we recommend that, before evaluating their final acceptance, the authors make a substantial revision according to the comments indicated below:
- English must be checked carefully.

ABSTRACT
- Non-standardized abbreviations are used in the summary, as GTLE, which it is not previously defined.

MATERIEL AND METHODS
- The technique of determination of total polyphenols and flavonoids are well known, as well as the method for calculation in equivalents, so we consider that it is not necessary that authors explain these calculations, as those detailed in Determination of total phenolic content and Determination of Flavonoids content sections.
- In the Preventive Group (PG) authors exposed that animal were Oral feeding twice-daily of 1 ml/kg of cholesterol solution prepared at 1.5% in sunflower oil enriched with 3 ml/kg green tea extract for 60 days.

Please explain in more detail how they made the mixture between the lipid matrix used (sunflower oil) and the tea extract.
Please justify the dose of tea extract and cholesterol as well as the percent of sunflower oil used.

RESULTS AND DISCUSSION
- The results presented between lines 224-233, 238-245 are confusing. If the authors are interested in visualizing the results numbers, then they should present these results in tables and not in graphs.
- The results are exposed and discussed in a confusing way, this together with the errors of the English language make it even more difficult to understand the reading. We recommend the authors to rewrite this section, make a better presentation of the results and carefully check the English.
- Finally, we recommend the authors to review two interesting review articles about the effect of polyphenols in human health, with a view to helping them enrich the discussion of their results (DOI: 10.1016/j.fct.2018.01.022, DOI: 10.3233/JBR-2012-028)

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Review Request 18-0227 (Mediterranean Journal of Nutrition and Metabolism)

Dari: m.a.battino@univpm.it

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Sabtu, 28 April 2018 pukul 13.59 WIB

2018-04-27

Dear Dr. Ahmadi,

A manuscript was recently submitted to me with the title of "Green tea extract attenuates Non Alcoholic Fatty Liver Disease by decreasing hyperlipidemia and enhancing Superoxide Dismutase Activity in Cholesterol-Fed Rats.." It has been given tracking number 18-0227.

If interested and available, would you be so kind as to provide a timely review of this manuscript? If so, I ask that it be returned within 30 days. Please indicate your willingness to do so by following the appropriate link at the bottom of this message.

Thank you for your time.

Sincerely,

Maurizio Battino
Mediterranean Journal of Nutrition and Metabolism

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ABSTRACT:

BACKGROUND/AIM: Health benefits of green tea for a wide variety of ailments, including the cancer, heart disease, and liver disease, were reported. It is believed to have beneficial effects in the prevention and treatment of many diseases, one of which is non-alcoholic fatty liver disease (NAFLD). This study inspects the protective effect of green tea against atherosclerosis and NAFLD in comparative approach between curative and preventive models.
MATERIALS AND METHODS: Twenty four of Wistar rats were studied for 150 days. After 15 days of adaptation period, rats were divided into four groups. They were every day orally induced by gavage with 1.5% of cholesterol during 30 days of treatment.
RESULTS: The results showed significant increase ($p \leq 0.001$) in lipid serum profiles including Total Cholesterol (TC), Triacylglycerol (TG) and Low-Density Lipoprotein cholesterol (LDL-c). However, the High-Density Lipoprotein cholesterol (HDL-c) profile decreased during the treatment ($p \leq 0.001$).The ingestion of GTLE in treated rats declined significantly ($p \leq 0.001$) in blood lipid concentrations (TC: 67%, TG: 23%, LDL-c: 81.12 %) except for the HDL-c that increased

up to (15%). The Atherogenic Index (AI) also decreased significantly ($p \leq 0.001$) up to 48%, in curative (CG) and preventive groups (PG) of animals. Preventive and Normal groups marked same SOD activity values (130,91± 07,66 versus 141,31± 08,21 U/mL), while CG showed the lowest level. Liver sections were well protected in protective model than curative one.

Keywords
Green Tea, Liver, Hypocholesterolemia, Non Alcoholic Fatty Liver, Polyphenols.

Mediterranean Journal of Nutrition and Metabolism

COUNTRY

Netherlands

Universities and research institutions in Netherlands

Media Ranking in Netherlands

SUBJECT AREA AND CATEGORY

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- Food Science

Medicine
- Endocrinology, Diabetes and Metabolism

Nursing
- Nutrition and Dietetics

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H-INDEX

22

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Journals

ISSN

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2008-2022

INFORMATION

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SCOPE

The Mediterranean Journal of Nutrition and Metabolism publishes original scientific papers on metabolism, including diabesity and eating disorders; nutrition (epidemiological, basic, clinical and artificial); dietary and nutritional practices and management and their impact on health from prevention to treatment. The journal hosts the proceedings of relevant congresses and presents shorter notices focused on the original character of the Mediterranean nutritional civilisation. In addition, this journal is intended as a platform for scientific debate and knowledge-sharing among students and clinical practitioners, and between them and the broader scientific community, and finally as a tool for promoting and enhancing scientific cooperation.

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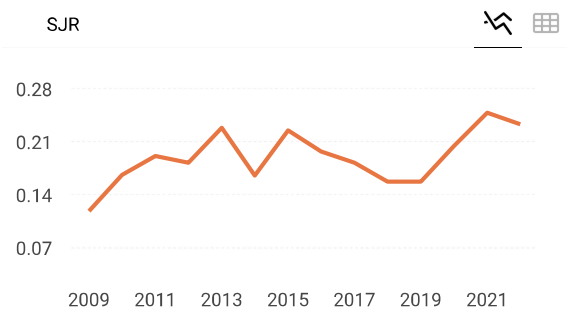

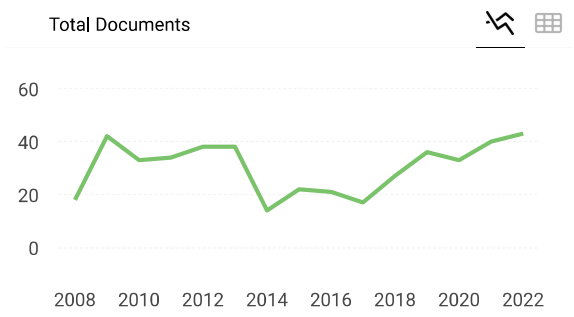

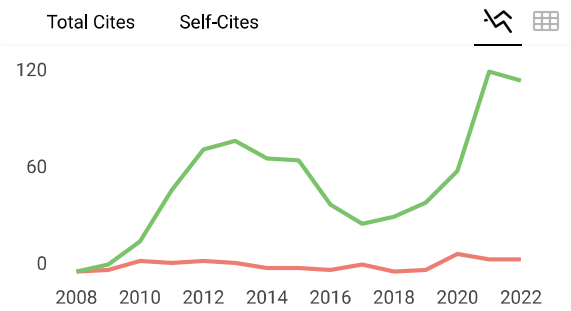

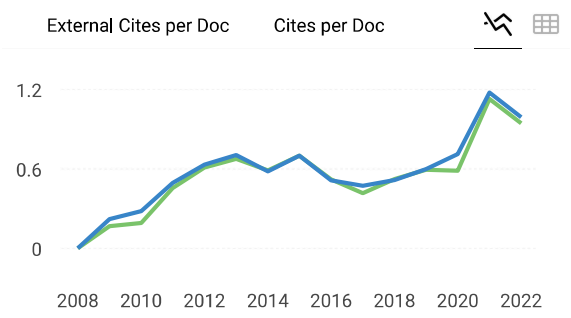

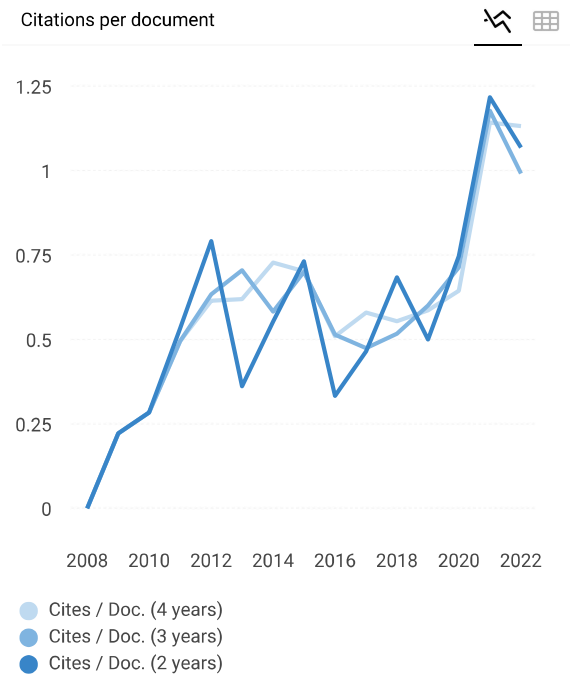

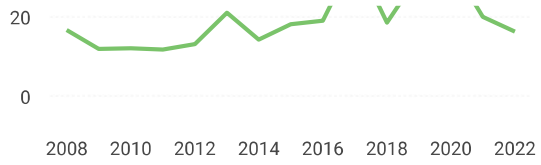

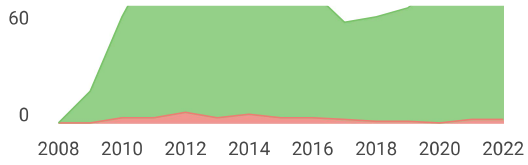

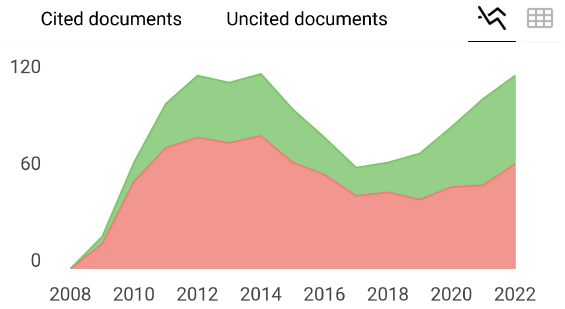

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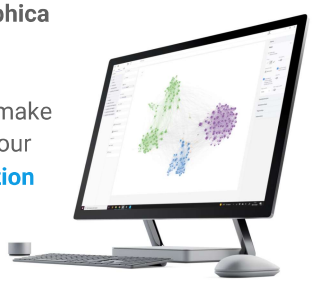

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