Author's response to reviews

Title: The Tibetan herbal medicines Padma 28 and Padma Circosan inhibit the formation of advanced glycation endproducts (AGE) and advanced oxidation protein products (AOPP) in vitro.

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Authors: Ewa Grzebyk, Agnieszka Piwowar

Reply to reviewers comments

Date: 25 June 2014

The manuscript has undergone language editing before the first submission. Language editing was performed by American Journal Experts (www.aje.com). The manuscript and changes since applied have been reviewed and corrected again in respect to language errors.

Reply to comments
Reviewer Ewa I Balcerczak:

The methods are described only briefly since they have already been published elsewhere (page 4, lines 19-21, references are given).
The sentence “Aminoguanidine (A),…” has been reworded for clearness and better understandability (page 7, lines 24-28).

Reviewer Johanna Gostner:

More references to research results and the use of herbal substances within the diabetes complex have been introduced (references 4-9).
The concentration of protein was chosen as corresponding to the physiological concentration of albumin in human blood as has already been stated in the section Materials and methods, Test substances. The glucose concentration was chosen based on previous studies of our group. Experiments were performed in different ratios of extracts and glucose, and the amounts of extracts used was chosen for the optimal readability in the methods used as is now clarified in the same section of the manuscript (page 4, lines 16-21).
The experiments were performed in three series, each time in triplicate as now stated in the manuscript section Materials and methods, Test substances (page 4, lines 19-20).
Error bars have been added in the figures 2-5, they have been omitted in figure 1 for better readability. This figure shows the development over 8 weeks, the results at week 8 are depicted in detail with error bars in figure 2.
The introduction and the discussion have been revised according to the reviewer’s comment, Vitamin C has been discussed and references have been supplemented (pages 3, 6, 7).
The clinical relevance of the antiglycoxidative effects found cannot be extrapolated from an in vitro study. For this further studies are needed. This is stated in the discussion (page 7, lines 34-37).
Figure legends have been supplemented by more information (Fig. 2-5).