Reviewer's report

**Title:** Curcumin supplementation could improve diabetes-induced endothelial dysfunction associated with decreased vascular superoxide production and PKC inhibition

**Version:** 1 **Date:** 9 March 2010

**Reviewer:** Pugalendi Kodukkur Viswanathan

**Reviewer's report:**

The article discusses the role of curcumin as an antioxidant in improving diabetes-induced endothelial dysfunction. The article is well written though it requires one more language correction. Had the work been done in combination with some antidiabetic drug it would have been a good contribution.

Page No. 5 line 3 Replace ‘endothelial dysfunction in associated with’ with ‘endothelial dysfunction which is associated with’

Page No. 5 paragraph 3 and line 5. Replace ‘Control rats were received’ with ‘Control rats received’

Page No. 5 paragraph 3 and lines 8-11. Five groups. The same order must be followed in table 1.

Page No. 6. What is meant by oral feeding? Is it post oral by intubation? In what solvent curcumin was dissolved?

Intravital observation for mesenteric arteriolar responses

Lines three and four are very brief and there is no clarity. Add few more lines to explain it.

Immunofluorescent staining for PKC-#II

After PBS wash, non specific background was block with 3% normal horse serum at room temperature for 20 minutes. Alter for clarity.

Mention somewhere in the paragraph figure 5.

Table 1. Is it (mABP) the abbreviation for mean arterial blood pressure?

Verify the significance of plasma glucose level between low curcumin and DM. Also verify the significance of mean arterial blood pressure between low curcumin and DM.