Reviewer’s report

**Title:** Aqueous Extracts of Pluchea indica (L.) Less. Inhibit Proliferation and Migration of Cancer Cells Through Induction of p53-dependent Apoptosis

**Version:** 1  **Date:** 10 April 2012

**Reviewer:** RAJANI MATHUR

**Reviewer’s report:**

**Major compulsory revisions:**
1. Phytochemical evaluation and validation of the extracts (% yield, HPTLC/HPLC data, quantitation with respect to major constituent etc.) has to be conducted in order to provide substance to the study.
2. Methodology details that the aqueous extract was concentrated by boiling. This is usually avoided and lyophilization is preferred method of concentration as boiling may lead to charring of phytoconstituents.
3. Data need to be compared with known standard drugs.
4. Potency of the extracts is very poor, as effect has been reported at In vitro concentration of 1mg/ml.
5. Statistical analysis does not mention the number of test replicates that have been conducted and the mean is of how many such replicates. All tests should at least be conducted in triplicates.

**Minor essential revisions:**
1. Photomicrographs of the apoptotic and normal cells may be added as data from cell morphology analysis may add more credence.

**Level of interest:** An article of limited interest

**Quality of written English:** Needs some language corrections before being published

**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