

Progress Report: Sri Lanka Clinical Trials Registry

SLCTR registration number: SLCTR/ 2015/ 008

Scientific title of trial: **Hypoglycaemic and antioxidant activity of the Siddha medical preparation "Mathumcha chooranam" in patients with diabetes mellitus**

Date of commencement (enrolment of first participant): 8th April 2015

Progression: 6 months 1 year 2 years 3 years
At completion

1. Baseline data

Any changes to the trial design/ methodology/ protocol after commencement: Nil

Any changes to trial outcomes after commencement: Nil

2. Current status

Recruitment status: pending/ recruiting/ recruitment complete/ recruitment suspended / recruitment terminated : recruiting

Number assessed for eligibility: 285

Number recruited and randomized: 264

Number allocated to each intervention/arm:12 weeks

Losses/exclusions after randomization: 04

3. Trial output

Summary of Interim/Final data (if available):

The Siddha drug Mathumcha chooranam for its anti hyperglycaemic action through a trial of 12 weeks. From the observations of the present study it is clear that the MMC significantly reduced the Fasting blood glucose, furthermore, significant reduction in the HbA1C provides a rationale for the use of MMC in the management of diabetes. MMC also demonstrated a significant reduction in the Lipid profile of the study participants. The liver and renal function was well within the normal range, demonstrating that MMC safe to use as Anti hyperglycaemic medication.

The Ferric Reducing Antioxidant Power (FRAP) of the serum in the study participants significantly increased after 12 weeks of MMC intervention.

Presentations of results at scientific meetings:

(Please attach a scanned copy or link to abstract)

Publications:

(Please attach a scanned copy or link to paper)

Publications and Presentations

1) "Antioxidant activity of ingredients of "mathumehachooranam", a drug used for the treatment of diabetes mellitus in siddha system of medicine"

Jaffna university international research conference jince – 2014 "accelerated regional development"

University of Jaffna, Sri Lanka 18- 19 December, 2014,

2) "Total phenolic content in aqueous extracts of *Terminalia chebula* stored for 6th months under room temperature and 4°C",

3rd International Conference of Eastern University, Sri Lanka – 2014. ,

3) "Total Phenolic Content and Antioxidant Activity of the Leaf of *Gymnema sylvestrae* stored for six month under 4°C and Room temperature"

2nd International Conference on Ayurveda, Unani, Siddha and Traditional Medicine – 2014 and AYU – EXPO, Sri Lanka.

4) "Antioxidant Activity of Ingredients of Mathumeha chooranam, used in Mathumeham (Diabetes mellitus)" International Research Conference 2014

General Sir John Kotelawala Defence University

5) "Total phenolic content in Aqueous extracts of *Murraya koenigii* stored for six months at Room temperature and at 4 °C "

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6) " Total phenolic content and Antioxidant Activity of *Phyllanthus emblica* Stored for Six Months at 4°C and Room Temperature "

Annual Research Symposium of NCAS – 2015th - 9th June 2015)

7) "Antioxidant activity in aqueous extracts of *Terminalia chebula* stored for six months at room temperature and at 4 ° c

General Sir John Kotelawala Defense University

8th international research conference

27 and 28 August 2015

8) Total phenolic content of Mathumeha chooranam Stored for Six Months at 4°C and Room Temperature "

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Name and signature of Responsible Registrant/

Date: 4.12.15