

***Clinical Protocol Title***

**MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON NEERIZHIVU  
(DIABETES MELLITUS)**

***Phase of investigations***

PHASE 3

***Investigational Drug***

***Sponsor***  
CCRS

## CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

### MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON NEERIZHIVU (DIABETES MELLITUS)

#### I. BACKGROUND

##### **Diabetes and its significance:**

Diabetes is a chronic disorder especially of carbohydrate, fat and protein metabolism characterized by increased fasting and post prandial blood sugar levels. The global prevalence of diabetes is estimated to increase, from 4% in 1995 to 5.4% by the year 2025. WHO has predicted that the major burden will occur in developing countries. Studies conducted in India in the last decade have highlighted that not only is the prevalence of diabetes high but also that it is increasing rapidly in the urban population [4]. It is estimated that there are approximately 33 million adults with diabetes in India. This number is likely to increase to 57.2 million by the year 2025.

Diabetes mellitus is a complex metabolic disorder resulting from either insulin insufficiency or insulin dysfunction. Type I diabetes (insulin dependent) is caused due to insulin insufficiency because of lack of functional beta cells. Patients suffering from this are therefore totally dependent on exogenous source of insulin while patients suffering from Type II diabetes (insulin independent) are unable to respond to insulin and can be treated with dietary changes, exercise and medication. Type II diabetes is the more common form of diabetes constituting 90% of the diabetic population.

Symptoms of both diabetic conditions may include: (i) high levels of sugar in the blood; (ii) unusual thirst; (iii) frequent urination; (iv) extreme hunger and loss of weight;

(v) blurred vision; (vi) nausea and vomiting; (vii) extreme weakness and tiredness; (viii) irritability, mood changes etc.

Though pathophysiology of diabetes remains to be fully understood, experimental evidences suggest the involvement of free radicals in the pathogenesis of diabetes [5] and more importantly in the development of diabetic complications [6–8]. Free radicals are capable of damaging cellular molecules, DNA, proteins and lipids leading to altered cellular functions. Many recent studies reveal that antioxidants capable of neutralizing free radicals are effective in preventing experimentally induced diabetes in animal models [9, 10] as well as reducing the severity of diabetic complications [8]. For the development of diabetic complications, the abnormalities produced in lipids and proteins are the major etiologic factors. In diabetic patients, extra-cellular and long lived proteins, such as elastin, laminin and collagen are the major targets of free radicals. These proteins are modified to form glycoproteins due to hyperglycemia. The modification of these proteins present in tissues such as lens, vascular wall and basement membranes are associated with the development of complications of diabetes such as cataracts, microangiopathy, atherosclerosis and nephropathy [11].

During diabetes, lipoproteins are oxidized by free radicals. There are also multiple abnormalities of lipoprotein metabolism in very low density lipoprotein (VLDL), low density lipoprotein (LDL), and high density lipoprotein (HDL) in diabetes. Lipid peroxidation is enhanced due to increased oxidative stress in diabetic condition. Apart from this, advanced glycation end products (AGEs) are formed by non-enzymatic glycosylation of proteins. AGEs tend to accumulate on long-lived molecules in tissues and generate abnormalities in cell and tissue functions [12, 13]. In addition, AGEs also contribute to increased vascular permeability in both micro and macrovascular structures by binding to specific macrophage receptors. This results in formation of free radicals and endothelial dysfunction. AGEs are also formed on nucleic acids and histones and may cause mutations and altered gene expression. As diabetes is a multifactorial disease leading to several complications, it needs a multiple therapeutic approach. Patients of diabetes either do not make enough insulin or their cells do not respond to insulin. In case of total lack of insulin, patients are given insulin injections. Whereas in case of those where cells do not respond to

insulin many different drugs are developed taking into consideration possible disturbances in carbohydrate-metabolism. For example, to manage post-prandial hyper-glycaemia at digestive level, glucosidase inhibitors such as acarbose, miglitol and voglibose are used. These inhibit degradation of carbohydrates thereby reducing the glucose absorption by the cells. To enhance glucose uptake by peripheral cells biguanide such as metformin is used. Sulphonylureas like glibenclamide is insulinotropic and works as secretagogue for pancreatic cells.

Although several therapies are in use for treatment, there are certain limitations due to high cost and side effects such as development of hypoglycemia, weight gain, gastrointestinal disturbances, liver toxicity etc [14]. Based on recent advances and involvement of oxidative stress in complicating diabetes mellitus, efforts are on to find suitable antidiabetic and antioxidant therapy. Medicinal plants are being looked up once again for the treatment of diabetes. Many conventional drugs have been derived from prototypic molecules in medicinal plants. Metformin exemplifies an efficacious oral glucose-lowering agent. Its development was based on the use of *Galega officinalis* to treat diabetes. *Galega officinalis* is rich in guanidine, the hypoglycemic component. Because guanidine is too toxic for clinical use, the alkyl biguanides synthalin A and synthalin B were introduced as oral anti-diabetic agents in Europe in the 1920s but were discontinued after insulin became more widely available. However, experience with guanidine and biguanides prompted the development of metformin. To date, over 400 traditional plant treatments for diabetes have been reported, although only a small number of these have received scientific and medical evaluation to assess their efficacy. The hypoglycemic effect of some herbal extracts has been confirmed in human and animal models of type 2 diabetes.

The World Health Organization Expert Committee on diabetes has recommended that traditional medicinal herbs be further investigated. (Indian Herbal Drugs for Diabetes Vol. 40, No. 3, 2007 , 165) Major hindrance in amalgamation of herbal medicine in modern medical practices is lack of scientific and clinical data proving their efficacy and safety. There is a need for conducting clinical research in herbal drugs, developing simple bioassays for biological standardization, pharmacological and toxicological evaluation,

and developing various animal models for toxicity and safety evaluation. It is also important to establish the active component/s in these plant extracts. (Indian Medicinal Plants with antidiabetic and related beneficial effects). There are many herbal remedies suggested for diabetes and diabetic complications. Medicinal plants form the main ingredients of these formulations. A list of medicinal plants with antidiabetic and related beneficial effects is given. Conventional modern medicine provides a number of drugs of choice for controlling the blood sugar level in the patients of diabetes mellitus type-2. However, with the prolonged treatment doses of the drugs often needs to be increased to control the blood sugar level and a time comes when the patient has to switch over to insulin. Such patients become cases of insulin dependent diabetes mellitus. With a view to help the suffering community there is a need to find a safer drug, which can be used to control the blood sugar level and such drug can be used safely for longer periods.

### **Diabetes in Siddha:**

Diabetes Mellitus which is called as Neerizhivu in Siddha is caused by inherent / acquired defect in udal thee where biocombustion is challenged. Dominated Iyam slowly wipe out Azhal kutram which leads to further deterioration. Vali kutram is involved leading to complications. Seven thathus slowly degenerate. When all the thathus are deranged dyspnoea, coma, delirium occurs leading to death. This is called Sanni in Siddha.

### **ETIOLOGY IN SIDDHA**

*Kodhaiyar kalavi bodhai  
Kolutha meen iraichi padhai  
Paadhuvai neiyum palum  
Parivudan unbeeragil—  
sodha pandu uruvamikka  
Sukkila prameham than  
Odhu neerizhivum sera  
undana arinthu kollen*

The above version explains that Diabetes Mellitus is caused due to excessive sex indulgence and diet rich in fatty foods. Iyakuttram increases which in turn reduces Anila pitham of the body which is the base of udal thee and due to which proper digestion and Metabolic functions take

place. When Vali kutram is involved slowly the complications set off {Vathamalathu meni kedathu}. This is reflected in the following symptoms :

- ✓ Neer miguntu irangal (Excessive urination)
- ✓ Udal melivu (Emaciation)
- ✓ Varatchi (Dryness)
- ✓ Athi thagam (Excessive thirst)
- ✓ Mayakkam (Syncope)
- ✓ Kan padalam (Pterygium)
- ✓ Thamaraga vayu (Heart disease)
- ✓ Narambu thalarchi (Nervous weakness)
- ✓ Kara patha soolai (Peripheral neuritis)

## II. AIM

To study the clinical efficacy of Siddha formulation in controlling blood sugar level of the patients suffering from Type-2 Diabetes mellitus.

## OBJECTIVES:

- A. Primary: To study the clinical efficacy of investigational drug in Diabetes Mellitus**
- B. Secondary: To study the effect of investigational drug in lipid metabolism**

## III. CENTRE

Centers of CCRS

## IV. SAMPLE SIZE AND METHODS

Sample size-30 in each center

Level of study- Open labeled trail, Multicentric OPD level.

## V. SOURCE OF PROCUREMENT OF DRUG

**Siddha Central Research Institute, Chennai**

## VI. TREATMENT

**A. Dietary regimen:** Annexure I

**B. Trial drug:**

Tab. D5 chooranam 500mg, 4 b.i.d, half an hour before meals for ninety days.

**Diet:** - Patients will be advised to take their diet as described in Patient information sheet and do brisk walking / jogging or light exercise for half hour daily.

## **VII. CRITERIA FOR INCLUSION**

1. Age between 30 years to 60 years
2. If yes in any of the three
  - Blood sugar – Fasting  $> 110$  and  $\leq 200$  mg/dl or
  - PP  $> 160$  mg/dl and  $\leq 350$  mg/dl or
  - Glycated hemoglobin  $> 6.5\%$  and  $< 10\%$
3. Recently diagnosed ( $< 1$  year) cases of Type-2 Diabetes mellitus.
4. Patients who are in mono therapy alone.

## **VIII. CRITERIA FOR EXCLUSION**

1. Age below 30 and above 60 years.
2. If yes, in any one of the three
  - Blood sugar – Fasting  $\leq 109$  and  $>$  than  $201$  mg/dl or
  - PP  $\leq 159$  mg/dl  $> 351$  mg/dl or
  - Glycated hemoglobin  $\leq 6.4\%$  and  $\geq 10.1\%$
3. Malignant and accelerated hypertensive
4. CVS disorder (CAD)
5. Pregnant woman and planning to be pregnant within six months
6. Lactating mother
7. Secondary Diabetes mellitus
8. Patient undergoing regular treatment for Diabetes or any other severe illness
9. CNS disorder e.g. encephalopathy

**IX. CRITERIA FOR WITHDRAWAL:** - The investigator shall withdraw the patients from the study if

1. fasting blood sugar rises to >200 mg. /dl. Or post- prandial blood sugar level increases to>350 mg/dl and are not controllable within fifteen days.
2. any serious complication develops which requires urgent treatment with any other Drug / Therapy

The investigator will mention the probable cause of withdrawal and provide possible medical treatment to manage the illness.

#### **X. ROUTINE EXAMINATION AND ASSESSMENT**

The full details of history and physical examination of the patients will be recorded as per the proforma (Forms I & IA). Clinical and physiological assessment will be done before drug administration and after every two weeks. The laboratory investigations will be recorded before drug administration (Form-III), after every 4 weeks (FBS & PPBS only) and at the end of treatment (Form-III)

#### **XI. PERIOD OF STUDY**

Duration of the study: Six months

Duration of medication – 90 days

#### **XII. CRITERIA FOR SUCCESS OF TREATMENT**

If during treatment or after treatment fasting Blood sugar become<110 mg/dl. & post prandial Blood sugar < 160 mg/dl and HbA1c < 6.5 % it will be considered as successful outcome of the treatment.

#### **XIII. STATISTICAL ANALYSIS**

Data on Fasting /Post prandial blood sugar and HbA1c will be analyzed by using appropriate statistical methods.

#### **XIV. TRIAL MONITORING AND DATA ANALYSES**

The progress of the trial will be monitored by CCRS Head Quarters, Chennai consisting of one expert each of Allopathy and Siddha besides one outside expert. Data analysis will be undertaken at Central Council for Research in Siddha.

## **XV. ETHICAL REVIEW**

Institutional Ethical Committee (IEC) of the participating center should give clearance certificate before the project is initiated. Patient's information sheet and informed consent form should be submitted along with project proposal for approval by IEC. Both should be maintained in duplicate with one copy given to the patient at the time of entry to the trial.

## **REFERENCE**

1. Harrison's Principle of Internal Medicine 15th Edition Page 2109-2135.
- 2.
3. The Expert Committee on Diagnosis and classification of Diabetes Mellitus : Report of the Expert Committee on Diagnosis and Classification of Diabetes Mellitus, Diabetic care 1997; 207:1183-97.
4. Siddharth N Shah, Asshit Shah, API Text Book of Medicine 5<sup>th</sup> Edition Page-1460.
5. Vaisajya Ratnawali, Saptam Sanskaran 2040 Page 812.
6. P.V. Sharma, Dravya Guna Vigyan Vol-II, Dasham Sanskaran Page 103-105, 661-63, 684-685.
7. P.V. Sharma, Dravya Guna Vigyan Vol-III, Tritiya Sanskaran 2041 Page 99-100.
8. B.G. Vaidya Nighantu Adarsh, Pratham Sanskaran 2025, Vol-I, Page 581-585.

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**MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON  
NEERIZHIVU (DIABETES MELLITUS)**

**CONSENT FORM**

**CERTIFICATE BY INVESTIGATOR**

I certify that I have disclosed all the details about the study in the terms easily understood by the patient.

Date: \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

**CONSENT BY SUBJECT**

I have been informed to my satisfaction, by the attending physician, the purpose of the clinical trial and the nature of drug treatment and follow-up, including the laboratory investigations to be performed to monitor and safeguard my body functions.

I have been informed about the possible side effects and procedures to report when encountered. I am also aware of my right to opt out of the trial at any time during the course of the trial without having to give the reasons for doing so.

I, exercising my free power of choice, hereby give my consent to be included as a subject in the clinical trial on “Multicentric open labeled clinical trial on Neerizhivu (diabetes mellitus)” Clinical Trial of a investigational drug in Controlling Blood Sugar Level in Type 2 Diabetes mellitus.

Date: \_\_\_\_\_

Name of the Subject: \_\_\_\_\_

Signature or Thumb impression \_\_\_\_\_

Date: \_\_\_\_\_

Name of witness: \_\_\_\_\_

Signature or Thumb impression: \_\_\_\_\_

Relationship \_\_\_\_\_

**CENTRAL COUNCIL FOR RESEARCH IN SIDDHA**  
**MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON**  
**NEERIZHIVU (DIABETES MELLITUS)**

**PATIENT INFORMATION SHEET**

**STUDY DOCTOR:**

**SITE OF INVESTIGATION:**

**CONTACT No:**

You are being asked to participate in a clinical research study. However, before you decide to be a part in this study, you need to understand the risks and benefits as well as what is expected of you as a study participant. Please read the following information carefully. This consent form may contain word (s) that you do not understand. Do not hesitate to ask the doctor and/or doctor's staff any questions you may have. You should not sign this form until you understand all of the information presented in the following pages and until all of your questions about the research have been answered to your satisfaction.

**What is the study about?**

Research is going on to find a suitable natural product for the treatment of Type-2 Diabetes mellitus. You are invited to participate in such a study in which you will receive Siddha trial drug.

The aim of the present study is to clinically evaluate the anti-diabetic effect of a investigational drug in the management of Type 2 Diabetes mellitus.

Totally 30 patients from this hospital will be taking part in this study.

**What will you have to do?**

Your doctor will explain clearly what you have to do. It is important that you follow the instructions scrupulously. The study will take approximately three months to complete. After this period, you are expected to visit the hospital every fortnight. The interval between the first and second visit will be around 14 days.

Before you start treatment, during the first visit to the clinic, you will undergo a complete physical examination. Blood and urine samples will also be taken. This is to make sure that you are eligible for the study.

One week later, at your second visit, if you are eligible, you would be put on trial treatment for 90 days. You may receive trial drug for 90 days. You should follow life style modifications (Diet Advice, Exercise) as given along with information Sheet.

From the first visit onwards, you will be required to fast overnight before attending each visit. Blood and urine samples will be taken at every visit. At each visit, you will be supplied with sufficient quantity of drug to last until your next visit.

**What happens at the end of the study?**

The trial treatment will be stopped at the end of 90 days. You will be referred to the General OPD of SCRI.

**Are there any risks?**

The trial drug may cause hypoglycemia (very low blood sugar) in some cases. The symptoms of hypoglycemia are sweating, drowsiness, nausea, confusion and in-coordination. In case of such symptoms, you should immediately take sugar, glucose/biscuits and milk/fresh lime juice/orange juice with sugar and report to the doctor.

**What are the alternatives?**

Your doctor will be pleased to explain to you the available alternative treatment to control your blood sugar?

**When can you leave the study?**

Your participation in the study is entirely voluntary. You can choose to leave the study at any time. Your decision to leave the study will not affect your medical care or relationship with your doctor.

Your doctor may decide that you should not continue in the study if, a) your blood sugar becomes very high or very low, b) you start on insulin or other medication that affect blood sugar, c) you take part in any other trial.

**What is the cost of the study?**

All medication and tests to be done during the study will be free of charge.

If you do not want to participate, you are free to do so. It will not affect your medical care or relationship with your doctor in any way.

**What happens now if you decided to take part?**

You will be asked to sign a consent form saying that you have been given information about the study and you voluntarily agree to take part.

It is important to follow all instructions given by your doctor or doctor's assistant carefully.

**What about the confidentiality?**

The study data in your name or address will be coded with initials and number in your records. The confidentiality will be maintained. Unless required by law, only the Study Doctor, the Study Team and its authorized agents and the Institutional Ethics Committee will have access to confidential data which identifies you by name.

**Any other additional information regarding this trial?**

If you have any questions regarding the research study or if you need emergency medical treatment while you are participating in this study, or have questions or additional concerns about the study, you should contact the study doctor

Do not sign this form unless you have had a chance to ask questions and have received satisfactory answers to all of your questions

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Translate into regional Language

மணம்	நாள் 1	நாள் 2	நாள் 3	நாள் 4	நாள் 5	நாள் 6	நாள் 7
8-9 மணம்	பால் மிலி 100 இட்லி 2 சாம்பார் ½ கப்	பால் மிலி 100 தோசை 2 சட்னம்	பால் மிலி 100 இட்லி 2 சாம்பார் ½ கப்	பால் மிலி 100 உப்புமா சட்னம்	பால் மிலி 100 கேழ்வரகு கள் கொத்துமல்லி புதினா/ வெங்காயம்/ தக்காளி	பால் மிலி 100 தோசை 2 சட்னம்	பால் மிலி 100 உப்புமா சட்னம்
11 மணம்	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150	கறிவேப்பபாலை பொடி கலந்த மோர் மிலி 150
1 மணம்	சாதம் 1½ கப் கத்திர் சாம்பார் கறிவேப்பபாலை துவையல் சுரைக்காய் கூட்டு	சாதம் 1½ கப் முள்ளங்கி சாம்பார் அவரை பொரியல் கீரை கூட்டு	எலுமிச்சை/ தக்காளி/ புளி சாதம் எள்ளு துவையல் வாழைத்தண்டி பொரியல் தயர் 1½ கப்	சாதம் கப் 1 மண் குழம்பு or அவையல் சுரைக்காய் சாம்பார்	சாதம் 1½ கப் வெண்டைக்காய் சாம்பார் அவரை பொரியல் கீரை கூட்டு தயர் 1½ கப்	சாதம் 1½ கப் முருங்கைக்காய் சாம்பார் வாழைப்பூ பொரியல் தயர் 1½ கப்	சாதம் கப் 1 கறி குழம்பு or கோவைக்காய் பொரியல் வெங்காய் சாம்பார்
4-5 மணம்	பால்/ பழம்	பால்/ பழம்	பால்/ பழம்	பால்/ பழம்	பால்/ பழம்	பால்/ பழம்	பால்/ பழம்
8-9 மணம்	2 சப்பாத்தி 70 கிராய் கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	கேழ்வரகு தோசை 2 கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	தோசை 2 கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	சப்பாத்தி 70 கிராய்கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	இட்லி 2 கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	கேழ்வரகு தோசை 2 கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்	70 சப்பாத்தி 2 கிராய் கறிவேப்பபாலை/ கொத்துமல்லி/ புதினா/ வெங்காயம்/ தக்காளி சட்னம்

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**FORM I - SCREENING PROFORMA**

1. Code No (of clinical trial)
2. Centre:
3. Name of the Patient \_\_\_\_\_
4. S.No. of Patients \_\_\_\_\_
5. Gender                      Male  (1)                      Female  (2)
6. Date of Birth        Age (Yrs)
7. Address \_\_\_\_\_  
\_\_\_\_\_

Mobile:

Phone no:

**CRITERIA FOR INCLUSION**

**Yes(1)                      No(0)**

- |  |   |   |
|--|---|---|
| 8. Age between 30 years to 60 years      | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| 9. If yes in any one of the three in GTT | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| Fasting >110 mg/dl                       | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| 1/2 hr >160mg/dl                         | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| 1 hr >170mg/dl                           | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| 1 ½ hr >140mg/dl                         | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| 2 hr >125mg/dl                           | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |
| Post prandial >140mg/dl                  | <input style="width: 30px; height: 20px;" type="text"/> | <input style="width: 30px; height: 20px;" type="text"/> |

10. Recently diagnosed (<1 year) cases of Type-2 Diabetes mellitus
- |  |                          |                          |
|--|--------------------------|--------------------------|
| Blood sugar – Fasting > 110 and =< 200 mg/dl | <input type="checkbox"/> | <input type="checkbox"/> |
| PP > 160 mg/dl and<= 350 mg/dl or            | <input type="checkbox"/> | <input type="checkbox"/> |
| Glycated hemoglobin>6.5% and <10%            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Patients who are in Mono therapy alone.  | <input type="checkbox"/> | <input type="checkbox"/> |

**VII. CRITERIA FOR EXCLUSION**

- |   |                          |                          |
|---|--------------------------|--------------------------|
| 12 Glycated hemoglobin<=7% and =>10%  | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Malignant and accelerated hypertensive  | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. CVS disorder (CAD)  | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Pregnant woman or the women planning to be pregnant in next six months            | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Lactating mothers   | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Secondary Diabetes mellitus   | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Patient undergoing regular treatment for Diabetes or for any other severe illness | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. CNS disorder e.g. encephalopathy  | <input type="checkbox"/> | <input type="checkbox"/> |

If yes to S.No.8-11 admit the patient into the study.

If admitted subjects \_\_\_\_\_ No. \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Doctor \_\_\_\_\_

**CENTRAL COUNCIL FOR RESEARCH IN SIDDHA**

**MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON  
NEERIZHIVU (DIABETES MELLITUS)**

**FORM I A – SELECTION PROFORMA**

1. Code No. (Clinical trial)
2. Centre :
3. Name of the Patient \_\_\_\_\_
4. S.No. of Patients \_\_\_\_\_
5. Gender                      Male  (1)                      Female  (2)
6. Date of Birth   Age (Yrs)
7. Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Educational status  
    Illiterate  (1)                      Read & Write  (2)  
    Educational qualifications \_\_\_\_\_ (3)
9. Occupation  
    Desk Work  (1)    Field Work  (2) Other Specify \_\_\_\_\_ (3)
10. Income per capita per month in Rs \_\_\_\_\_

**Chief complaint with duration (if any) in days**

	<b>Absent(0)</b>	<b>Present(1)</b>
11. Polyuria (Excessive urination)	<input style="width: 40px; height: 20px;" type="text"/>	<input style="width: 40px; height: 20px;" type="text"/>
12. If present, duration in Days _____		
13. Polyphagia (excessive hunger)	<input style="width: 40px; height: 20px;" type="text"/>	<input style="width: 40px; height: 20px;" type="text"/>
14. If present, duration in Days _____		
15. Polydipsia (excessive thirst)	<input style="width: 40px; height: 20px;" type="text"/>	<input style="width: 40px; height: 20px;" type="text"/>
16. If present, duration in Days _____		

	<b>Absent (0)</b>	<b>Present (1)</b>
17. Exhaustion / Tiredness	<input type="checkbox"/>	<input type="checkbox"/>
18. If present, duration in Days _____		
19. Loss of body weight	<input type="checkbox"/>	<input type="checkbox"/>
20. If present, duration in Days _____		
21. Body ache	<input type="checkbox"/>	<input type="checkbox"/>
22. If present, duration in Days _____		
23. Giddiness	<input type="checkbox"/>	<input type="checkbox"/>
24. If present, duration in Days _____		
25. Polyneuritis (Numbness / Tingling)	<input type="checkbox"/>	<input type="checkbox"/>
26. If present, duration in Days _____		
27. Visual disturbance	<input type="checkbox"/>	<input type="checkbox"/>
28. If present, duration in Days _____		
29. Other (specify), if any _____		

**Personal History:**

30. Diet Veg  (1)      Non-veg  (2)      Lacto-veg  (3)

31. Presence of anxiety      No  (0)      Yes  (1)

32. Constipation      No  (0)      Yes  (1)

**Addiction**

33. Smoking      No  (0)      Yes  (1)

If yes specify:  
 (a) Quantity [packs] \_\_\_\_\_ (b) Total duration in years \_\_\_\_\_

34. Tobacco      No  (0)      Yes  (1)

if yes, specify: (a) quantity \_\_\_\_\_ (b) Total duration in years \_\_\_\_\_

35. Alcohol            No            (0)            Yes            (1)
36. If yes specify:    quantity(ml)\_\_\_\_\_
37. Total duration in years \_\_\_\_\_
38. Any other(specify)\_\_\_\_\_
39. Yakkaiyin Ilakkanam

**VITAL SIGNS**

- 12.Pulse rate/min
- 13.Heart rate/min
- 14.BP(mmHg)             /
- 15.Temperature °F             °

	PRESENT(1)	ABSENT (2)
16.Cyanosis	<input type="checkbox"/>	<input type="checkbox"/>
17.Anaemia	<input type="checkbox"/>	<input type="checkbox"/>
18.Jaundice	<input type="checkbox"/>	<input type="checkbox"/>
19.Clubbing	<input type="checkbox"/>	<input type="checkbox"/>
20.Lymphadenopathy	<input type="checkbox"/>	<input type="checkbox"/>
21.Oedema	<input type="checkbox"/>	<input type="checkbox"/>
22.Height/cm	<input type="text"/> <input type="text"/> <input type="text"/> °	<input type="text"/>
23.Weight/Kg	<input type="text"/> <input type="text"/> <input type="text"/> °	<input type="text"/>
24.BMI	<input type="text"/> <input type="text"/>	

## SIDDHA ASPECTS

### 25.KAALA NILAI

1. Kaarkaalam	<input type="checkbox"/>	2.Koothirkaalam	<input type="checkbox"/>	3. Munpanikaalam	<input type="checkbox"/>
4.Pinpanikaalam	<input type="checkbox"/>	5.Ilavenirkaalam	<input type="checkbox"/>	6.Muduvenirkaalam	<input type="checkbox"/>

### AYMPORIGAL

### NORMAL(1) AFFECTED(2)

26.Mei	<input type="checkbox"/>	<input type="checkbox"/>	
27.Vaai	<input type="checkbox"/>	<input type="checkbox"/>	
28.Kan	<input type="checkbox"/>	<input type="checkbox"/>	
29.Mookku	<input type="checkbox"/>	<input type="checkbox"/>	
30.Sevi	<input type="checkbox"/>	<input type="checkbox"/>	

### AYMPULANGAL

### NORMAL(1) AFFECTED(2)

31.Ooru	<input type="checkbox"/>	<input type="checkbox"/>	
32.Suvai	<input type="checkbox"/>	<input type="checkbox"/>	
33.Oli	<input type="checkbox"/>	<input type="checkbox"/>	
34.Oosai	<input type="checkbox"/>	<input type="checkbox"/>	
35.Naatram	<input type="checkbox"/>	<input type="checkbox"/>	

### KANMENDRIYUM

### NORMAL(1) AFFECTED(2)

36.Kai	<input type="checkbox"/>	<input type="checkbox"/>	
37.Kaal	<input type="checkbox"/>	<input type="checkbox"/>	
38.Vaai	<input type="checkbox"/>	<input type="checkbox"/>	
39.Eruvaai	<input type="checkbox"/>	<input type="checkbox"/>	
40.Karuvaai	<input type="checkbox"/>	<input type="checkbox"/>	

## UYIR THATHUKKAL

VALI - ABSENT (0) NORMAL (1) DECREASED (2) INCREASED (3)

41. Uyirkkal (Pranan)

42. Digestion



---

43. Kizhnokkukkal (Abanan)

Excretion of Urine



---

Excretion of Faeces



---

44. Paravukal (Viyanan)

Blinking



---

Movement of limbs



---

45. Melnokkunkal (Uthanan)

Speech



---

Complexion



---

Hiccup



---

46. Nadukkal (Samanan)

Digestion



---

47. Nagan

Hearing



---

Intelligence



---

Closing & opening of eyelids



---

48. Koorman

Winking (of eyelids)



---

Yawning



---

Closing of mouth



---

49. Kirukaran

Salivary Secretions



---

Hunger



---

50. Devathathan

Ocular Movements  \_\_\_\_\_

Laziness  \_\_\_\_\_

51. Thananjeyan

Abnormal noise (Tinnitus)   
in the ears -----

Condition of Sinuses   
-----

AZHAL - ABSENT (0) NORMAL (1) DECREASED (2) INCREASED (3)

52. Aakkanal(Anar pitham)

Digestion  \_\_\_\_\_

53. Vannayeri(Ranjagam)

Pallor  \_\_\_\_\_

54. Aattralangi(Sathagam)

Movements  \_\_\_\_\_

55. Olloli Thee (Alosagam)

Complexion  \_\_\_\_\_

Lustre of Skin  \_\_\_\_\_

Vision  \_\_\_\_\_

56. Nokkazhal (Prasagam)

Brightness of Skin  \_\_\_\_\_

IYAM - ABSENT (0) NORMAL (1) DECREASED (2) INCREASED (3)

57. Aliiyam (Avalambagam)

Respiration  \_\_\_\_\_

58. Neerppiyam (Kilethagam)

Digestion  \_\_\_\_\_

59. Suvaikanaiyam (Pothagam)

Taste

\_\_\_\_\_

60. Niraivaiyam (Tharpagam)

Cooling of eyes

\_\_\_\_\_

61. Ondriyaiyam (Santhigam)

Movements of joints

\_\_\_\_\_

VATHAM  PITHAM  KABAM

\_\_\_\_\_

UDAL THATHUKKAL	INCREASED(1)	DECREASED(2)
-----------------	--------------	--------------

62. SAARAM

Indigestion



Loss of weight

Tiredness

Lassitude

Dryness of the skin

Diminished activity of sense organs

63. SENNEER

Boils

Throbbing pain

Anorexia

Mental disturbance

Splenomegaly

Colic pain

Increased BP

Reddish eye & skin

Jaundice

Haematuria

Anaemia		<input type="checkbox"/>
Tiredness		<input type="checkbox"/>
Lassitude		<input type="checkbox"/>
Neuritis		<input type="checkbox"/>
Pallor of body		<input type="checkbox"/>
<b>64. OON</b>	<input type="radio"/>	
Cervical lymph adenitis	<input type="checkbox"/>	
Ulcers & Tumor	<input type="checkbox"/>	
Muscularity in cervical region	<input type="checkbox"/>	
Impairment of sense organs		<input type="checkbox"/>
<b>65. KOZHUPPU</b>	<input type="radio"/>	
Dyspnoea	<input type="checkbox"/>	
Loss of activity	<input type="checkbox"/>	
Pain in hip		<input type="checkbox"/>
<b>66. ENBU</b>	<input type="radio"/>	
Splitting & Falling of Hair		<input type="checkbox"/>
Loosening of Teeth & Nail		<input type="checkbox"/>
<b>67. MOOLAI</b>	<input type="radio"/>	
Non healing ulcer	<input type="checkbox"/>	
Swollen phalanges	<input type="checkbox"/>	
Swollen eyes	<input type="checkbox"/>	
Oliguria	<input type="checkbox"/>	
Heaviness of body	<input type="checkbox"/>	<input type="checkbox"/>
Weakness of bone		<input type="checkbox"/>
Sunken eyes		
<b>68.SUKILAM/SURONITHAM</b>	<input type="radio"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	

Love &amp; Lust towards women/men

Urinary calculi

Failure in reproduction

Pain in genitalia

**ENVAGAI THERVUGAL****NAA**

69.Maa padithal

Present

Absent

70.Niram

Black

Red

Pale

Others

71. Suvai

Inippu

Pulippu

Kaippu

Thubarppu

Uvarppu

Karppu

72.Vedippu

Present

Absent

73.Vai neerural

Normal

Excess

Scanty

Absent

**74. NIRAM (SKIN)**

Karuppu

Manjal

Veluppu

Maa niram

**75.MOZHI**

Sama oli

Uratha oli

Thazhntha oli

**76. VIZHI**

.Niram	Black	Red	Yellow	Pale
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

77.Kanneer	Normal	Abnormal	_____
	<input type="checkbox"/>	<input type="checkbox"/>	

78.Yeritchal	Present	Absent	_____
	<input type="checkbox"/>	<input type="checkbox"/>	

79.Peelai	Present	Absent	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____

**MEI**

80. Veppam	Mitha Veppam	Miku Veppam	Thatpam
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____

81. Viyarvai	Normal	Increased	Reduced
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____

82. Thoduvali	Present	Absent	_____
	<input type="checkbox"/>	<input type="checkbox"/>	

83. Vali	Present	Absent	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____

**84. NAADI**

Vali	Azhal	Iyam	Valiazhal	Valiiyam
<input type="checkbox"/>				
Azhaliyam		Azhalvali	Iyavali	Iyaazhal
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



(Alavu)                      Normal                      Increased                      Reduced  
                                                                           

-----

95. Manam                      Present                      Absent  
                                     

96. Thadavai                      Day                      Night  
(Frequency)                                           

\_\_\_\_\_  
\_\_\_\_\_

---

**NEIKKURI**

97. Aravam

93.Mothiram

94.Muthu

Date:

Signature of Investigator/ Medical Officer

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA  
 MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON  
 NEERIZHIVU (DIABETES MELLITUS)

**FORM II - CLINICAL & PHYSIOLOGICAL ASSESSMENT**  
**[Before Treatment & Fortnightly during Treatment]**

1. Code No.(of clinical trial)
2. Centre :
3. Name of the Patient \_\_\_\_\_
4. S. No. of the Patient \_\_\_\_\_
5. Gender                      Male  (1)                      Female  (2)
6. Date of Birth          Age (Years)
7. Address \_\_\_\_\_  
 \_\_\_\_\_

**Chief complaint with duration (if any) in days**

	<b>Absent(0)</b>	<b>Present(1)</b>
8. Polyuria (excessive urination)	<input style="width: 40px; height: 25px;" type="text"/>	<input style="width: 40px; height: 25px;" type="text"/>
9. Polyphagia (excessive hunger)	<input style="width: 40px; height: 25px;" type="text"/>	<input style="width: 40px; height: 25px;" type="text"/>
10. Polydipsia (excessive thirst)	<input style="width: 40px; height: 25px;" type="text"/>	<input style="width: 40px; height: 25px;" type="text"/>
11. Exhaustion/Tiredness	<input style="width: 40px; height: 25px;" type="text"/>	<input style="width: 40px; height: 25px;" type="text"/>

	Absent(0)	Present(1)
12. Bodyache	<input type="checkbox"/>	<input type="checkbox"/>
13. Giddiness	<input type="checkbox"/>	<input type="checkbox"/>
14. Polyneuritis(Numbness / Tingling)	<input type="checkbox"/>	<input type="checkbox"/>
15. Visual disturbance	<input type="checkbox"/>	<input type="checkbox"/>
16. Others (specify),if any_____		

**VITAL SIGNS**

12.Pulse rate/min	<input type="text"/> <input type="text"/>
13.Heart rate/min	<input type="text"/> <input type="text"/>
14.BP(mmof Hg)	<input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/>
15.Temperature °F	<input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/>

	PRESENT(1)	ABSENT (2)
16.Cyanosis	<input type="checkbox"/>	<input type="checkbox"/>
17.Anaemia	<input type="checkbox"/>	<input type="checkbox"/>
18.Jaundice	<input type="checkbox"/>	<input type="checkbox"/>
19.Clubbing	<input type="checkbox"/>	<input type="checkbox"/>
20.Lymphadenopathy	<input type="checkbox"/>	<input type="checkbox"/>
21.Oedema	<input type="checkbox"/>	<input type="checkbox"/>
22. Height/cm	<input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/>	
23. Weight/Kgs	<input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/>	
24.BMI	<input type="text"/> <input type="text"/>	

## UYIR THATHUKKAL

VALI - ABSENT (0) NORMAL (1) DECREASED(2) INCREASED(3)

### 37.Uyirkkal (Pranan)

Digestion



---

### 38.Kizhnokkunkkal (Abanan)

Excretion of Urine



---

Excretion of Faeces



---

### 39.Paruvukal (Viyanan)

Blinking



---

Movement of limbs



---

### 40.Melnokkunkkal (Uthanan)

Speech



---

Complexion



---

Hiccup



---

### 41.Nadukkal (Samanan)

Digestion



---

### 42.Nagan

Hearing



---

Intelligence



---

Closing&opening of eyelids



---

### 43.Koorman

Winking of eyelids



---

Yawning



---

Closing of mouth



---

### 44.Kirukaran

Salivary Secretions



---

Hunger



---

45.Devathathan

Ocular Movements  \_\_\_\_\_  
 Laziness  \_\_\_\_\_

46. Thananjeyan

Abnormal noise (Tinnitus)   
 in the ears -----  
 Condition of Sinuses   
 -----

AZHAL - ABSENT(0) NORMAL (1) DECREASED(2) INCREASED(3)

47.Aakkanal (Anar pitham)

Digestion  \_\_\_\_\_

48.Vannayeri (Ranjagam)

Pallor  \_\_\_\_\_

49.Aattralangi (Sathagam)

Movements  \_\_\_\_\_

50. Olloli Thee (Alosagam)

Complexion  \_\_\_\_\_

Lustre of Skin  \_\_\_\_\_

Vision  \_\_\_\_\_

51.Nokkazhal (Prasagam)

Brightness of Skin  \_\_\_\_\_

IYAM - ABSENT (0) NORMAL (1) DECREASED (2) INCREASED (3)

52.Aliiyam (Avalambagam)

Respiration  \_\_\_\_\_

53.Neerppiyam (Kilethagam)

Digestion \_\_\_\_\_

54. Suvaikanaiyam (Pothagam) \_\_\_\_\_

Taste  \_\_\_\_\_

55. Niraiyaiyam (Tharpagam) \_\_\_\_\_

Cooling of eyes  \_\_\_\_\_

56. Ondriyaiyam (Santhigam) \_\_\_\_\_

Movements of joints  \_\_\_\_\_

VATHAM  PITHAM  KABAM  \_\_\_\_\_

UDAL THATHUKKAL	INCREASED(1)	DECREASED(2)
-----------------	--------------	--------------

57. **SAARAM** ○

Indigestion

Loss of weight

Tiredness

Lassitude

Dryness of the skin

Diminished activity of sense organs

58. **SENNEER** ○

Boils

Throbbing pain

Anoerxia

Mental disturbance

Splenomegaly

Colic pain

Increased BP

Reddish eye & skin

Jaundice		
Haematuria	<input type="checkbox"/>	
Anaemia		<input type="checkbox"/>
Tiredness		<input type="checkbox"/>
Lassitude		<input type="checkbox"/>
Neuritis		<input type="checkbox"/>
Pallor of body		<input type="checkbox"/>
<b>59. OON</b>	<input type="radio"/>	
Cervical lymph adenitis	<input type="checkbox"/>	
Ulcers & Tumor	<input type="checkbox"/>	
Muscularity in cervical region	<input type="checkbox"/>	
Impairment of sense organs		<input type="checkbox"/>
<b>60. KOZHUPPU</b>	<input type="radio"/>	
Dyspnoea	<input type="checkbox"/>	
Loss of activity	<input type="checkbox"/>	
Pain in hip		<input type="checkbox"/>
<b>61. ENBU</b>	<input type="radio"/>	
Splitting & Falling of Hair		<input type="checkbox"/>
Loosening of Teeth & Nail		<input type="checkbox"/>
<b>62. MOOLAI</b>	<input type="radio"/>	
Non -healing ulcer	<input type="checkbox"/>	
Swollen phalanges	<input type="checkbox"/>	
Swollen eyes	<input type="checkbox"/>	
Oliguria	<input type="checkbox"/>	
Heaviness of body	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>

Weakness of bone

Sunken eyes

**63.SUKILAM / SURONITHAM**



Love & lust towards women/men



Urinary calculi



Failure in reproduction



Pain in genitalia



Date: \_\_\_\_\_

Signature of Doctor \_\_\_\_\_

**CENTRAL COUNCIL FOR RESEARCH IN SIDDHA**

**MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON  
NEERIZHIVU (DIABETES MELLITUS)**

**FORM III - LABORATORY INVESTIGATIONS**

1. Code No.(of clinical trial)
3. Centre: \_\_\_\_\_
3. S.No. of Patient \_\_\_\_\_
4. Name of the Patient \_\_\_\_\_
5. Address \_\_\_\_\_  
\_\_\_\_\_
6. Gender Male  (1) Female  (2)
7. Date of Birth    8. Age(Yrs)
9. Date of Assessment \_\_\_\_\_

**Urine Examination  
Routine**

10. Sugar \_\_\_\_\_ 11.a) Albumin \_\_\_\_\_ b) Microalbumin \_\_\_\_\_
12. Deposits \_\_\_\_\_

**Microscopic**

13. Pus cell \_\_\_\_\_ (HPF)
14. RBC \_\_\_\_\_ (HPF)
15. Cast \_\_\_\_\_ (HPF)

**Stool examination**

16. Routine \_\_\_\_\_

**Microscopic**

17. Ova \_\_\_\_\_ 18. Cyst \_\_\_\_\_ 19. Occult Blood \_\_\_\_\_

**Blood**

20. TC(Cells/Cumm)\_\_\_\_\_

**Differential Count**

21. P (%) \_\_\_\_\_ 22. L(%) \_\_\_\_\_ 23. E(%) \_\_\_\_\_ 24. M(%) \_\_\_\_\_ 25.B (%) \_\_\_\_\_

26. Hb (g/dl) \_\_\_\_\_.

27. ESR (1/2 hour.) \_\_\_\_\_ ESR (1 hour.) \_\_\_\_\_

28. Blood Sugar- Fasting(mg/dl) \_\_\_\_\_

29. Blood Sugar – PP (mg/dl) \_\_\_\_\_

30. Glycated Hemoglobin (HbA1c)\_\_\_\_\_ (to be done before treatment after three months and end of treatment)

31. Blood Urea (mg/dl) \_\_\_\_\_

32. S.Creatinine (mg/dl) \_\_\_\_\_

33. Uric acid (mg/dl) \_\_\_\_\_

**LIPID PROFILE**

34. Serum total Cholesterol (mg/dl) \_\_\_\_\_

35. S. Triglycerides (mg/dl) \_\_\_\_\_

36. HDL(mg/dl) \_\_\_\_\_

37. LDL (mg/dl) \_\_\_\_\_

38. VLDL(mg/dl) \_\_\_\_\_

**LIVER FUNCTION TESTS**

**Serum Bilirubin**

39. Total(mg/dl) \_\_\_\_\_

40. Direct(mg/dl) \_\_\_\_\_

41. SGOT(IU/L) \_\_\_\_\_

- 42. SGPT (IU/L) \_\_\_\_\_
- 43. Alk.Phosphatase(KA units) \_\_\_\_\_
- 44. Total proteins (gm/dl) \_\_\_\_\_
- 45. Albumin (gm/dl) \_\_\_\_\_
- 46. Globulin (gm/dl) \_\_\_\_\_
- 47. A/G Ratio \_\_\_\_\_

**Serum Electrolytes**

- 48. Sodium(mEq/L) \_\_\_\_\_
- 49. Potassium (mEq/L) \_\_\_\_\_

Sl.No.10-49 will be done before and after treatment except Sl.No.28& 29 (Blood Sugar) which will be done before treatment and fortnightly during treatment period. HbA1c will be repeated after three months also.

Date: \_\_\_\_\_

Signature of Doctor \_\_\_\_\_

**CENTRAL COUNCIL FOR RESEARCH IN SIDDHA****MULTICENTRIC OPEN LABELED CLINICAL TRIAL ON  
NEERIZHIVU (DIABETES MELLITUS)****FORM IV  
DRUG COMPLIANCE REPORT FORM – I**

(To be filled by the trial participant)

(To be issued on 1<sup>st</sup> visit – 0<sup>th</sup> day and taken back on 2<sup>nd</sup> visit – 15<sup>th</sup> day)

Registration No. of the participant \_\_\_\_\_

Name of the participant \_\_\_\_\_

Please come for next visit on..... (Date and time is to be filled by the Investigator)

**Instructions to trial participant**

- Please take single Capsule twice a day before food
- Please return the unused capsules along with the drug compliance report duly filled.
- Please be prepared for the blood investigations during next visit.

S.no	Date	Morning dose (around 9 AM)		Evening dose (around 8PM)	
		Please put mark after taking the Medicine	Please enter the time	Please put mark after taking the Medicine	Please enter the time
1.					
2.					
3.					
4.					
5.					
6.					

S.no	Date	Morning Dose (around 9 AM)		Evening dose (around 8PM)	
		Please put mark after taking the Medicine	Please enter the time	Please put mark after taking the Medicine	Please enter the time
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

Name of the Participant: \_\_\_\_\_

Date: \_\_\_\_\_

Signature or Thumb impression of the participant

Signature of the Investigator with date