Multicentric Open Clinical Study on

Azhal Keel Vayu

[Osteo arthritis- Knee Joint]

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA Chennai

CLINICAL PROTOCOL: Summary Information

Study title:

Clinical evaluation of coded drug *OA- 1 Churnam* and *xxx in* the management of *Azhal Keel Vayu* - Osteo arthritis (Knee joints).

Phase of clinical investigation: Phase – 2

Investigational drug(s):

OA-1 Churnam – Oral administration
 xxx - External application

Sponsor:

CCRS, Chennai

Study Monitor: CCRS, Chennai

> Study Centers: Peripheral Institutes of CCRS

Team Leader:

Study Investigator(s):

Clinical Laboratory (ies), Technical Department(s), and Institution(s) Providing Clinical &

other Study Services:

Clinical Protocol

1. Introduction:

1.1 Background:

Siddha System of medicine has broadly classified the joint diseases. *Azhal Keel Vayu* is one among them. *Azhal Keel Vayu* or *Pitha Keel Vayu* is often referred and correlated to Osteo arthritis by its symptomatic relevance. An old poem insists this disease pattern as follows,

அழல் கல்வாயு

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"பித்தக்கீல் வாய்வு தன்னாற்
பிறங்கு கீன் மூட்டு வங்கிச்
சித்தர்செய் மருத்து வத்துஞ்
சீர்படாத் தன்மைத் தாகித்
தந்தறு காய்ச்சல் கண்டு
சாலவே தனைதான் தந்தே
மெத்தறு சிகிச்சை தன்னால்
மென்மேல் தீங்கு மப்பா."
- சபாபதி கை8யடு
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Sabapathi Kaiyedu, a Traditional text, states that *Pitha Keel Vayu*^{15 is} a condition in which the articular joints swell and later become very difficult to treat which is accompanied with fever and pain. And moreover this condition may be resolved with a kind

of good treatment. This clinical condition can be well correlated with Osteo arthritis of Knee joints.

Osteo arthritis is one of the most prevalent articular disorders affecting human kind and a major cause of disability and socio economic burden, ². Osteo arthritis is a chronic degenerative disorder of multifactorial aetiology, including acute and / or chronic insults from normal wear and tear, age, obesity and joint injury^{3, 4}. Osteo arthritis is characterised by the degradation of the articulate cartilage resulting in an alteration of its biochemical properties⁵.

There is higher prevalence of Osteo arthritis with advanced age and in females⁶, ⁷.Regarding

prevalence of Osteo arthritis with estimates of 7.2% in those of age 40 or older⁸, 12.5% in those aged over 45⁹ and 14.8% in those aged 50 or older¹⁰. Drug therapy includes non-opioid analgesics such as paracetamol non-steroidal anti-inflammatory drugs (NSAIDS). Topical analgesics, opioid analgesics and intra-articular steroid injections. Such treatment may prove ineffective in some patients and NSAIDS often have serious adverse effects.^{11, 12} Gastro intestinal complications are frequently reported with NSAIDS. Hence, there appears to be a need for drugs with good efficiency and toxic free in the treatment of OA. Specifically there is a need for safe and effective medicine for patients with OA.

1.2

Rationale:

The existing current drug therapy includes non - opioid analgesics such as paracetamol non- steroidal anti-inflammatory drugs (NSAIDS).Topical analgesics, Opioid analgesics and intra- articular steroid injections. Such treatment may prove ineffective in some patients and NSAIDS

often have serious adverse effects.^{2, 3} Gastro intestinal complications are frequently reported with

NSAIDS

Hence, there appears to be a need for drugs with good efficacy and toxic free in the treatment of OA. Specifically there is a need for safe and effective medicine for patients with OA. Many Siddha medicines are indicated for *Azhal Keel Vayu*. The New drug application, Coded Siddha drug *OA-1 Churnam* and *xxx* are selected for this clinical condition. As the drug falls under NCE, it is subjected for, Acute/Sub acute/Chronic

toxicity. It is approved in IAEC to continue the same. The Anti-inflammatory and Analgesic activity will be carried over for the above said drug. After obtaining the Pre Clinical results the drugs will be put into Clinical trial. The dosage will be 2g bid with honey two times after food for a period of 60 days.

2. Clinical Study Objectives: 2.1 Primary objective:

Clinical Evaluation of OA-1 Churnam & xxx by measuring the WOMAC

Index.

2.2 Secondary objectives:

Evaluation of the safety of the drugs OA-1Churnam & xxx

3. Study Design:

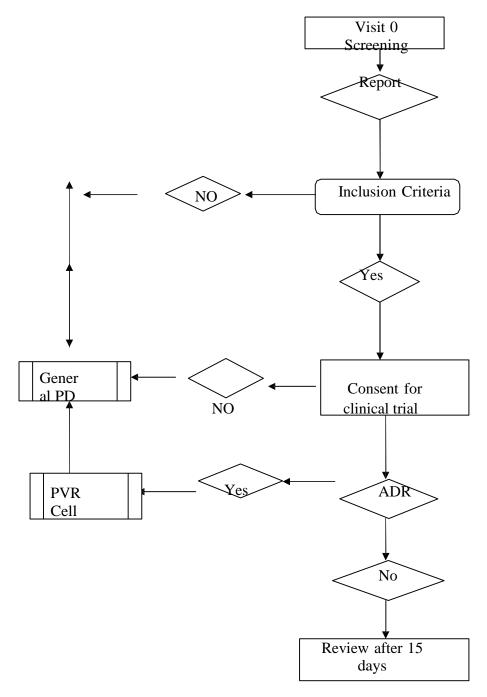
Type of study: Multi centric Open Clinical trial

Sample size : 40 subjects for each centre.

Duration of subject participation: 60 days.

Study period: 1 Year

3.1 Study design schematic:



4. Subject Selection:

4.1 Subject inclusion criteria:

- 1. Age between 45 years to 60 years
- Patients with Primary Osteo arthritis (Knee joints) Single or Both
- 3. Symptoms of OA over a period of at least six months
- 4. Crepitations & Swelling felt over the affected Knee joints
- 5. Morning stiffness of the Knee joints
- 6. Involvement of Knee Joints with / without other major / minor joints
- 7. Difficulty in walking / climbing stairs
- 8. X-ray findings

4.2 Subject exclusion criteria

- 1. Age less than 45 years or more than 60 years
- Patients with systemic conditions such as Gouty arthritis, Rheumatoid arthritis, Psoriatic arthritis, SLE. [will be excluded by the past medical history and the current medication]
- 3. Patients with Diabetes mellitus / Hypertension
- 4. Bed ridden patients
- 5. Patients using anti-inflammatory medicine other than Research drugs
- 6. Patients taking active Allopathy / Homeopathic Treatment
- 7. Low back ache with or without radiation to legs
- 8. Patients with metallic implants
- 9. Subjects having any deformity of Knee or Hip
- 10. History of bony or soft tissue injury to Knee joints

Study
Drug(s):1. OA-1 Churnam - 2g bid – Oral administration2. xxx - External application

CRITERIA FOR WITHDRAWAL

During the course of the trial if any adverse condition develops which requires emergency treatment, such subject may be withdrawn from the trial and managed by the principal investigator accordingly and new subjects will be recruited for the study.

ROUTINE EXAMINATION AND ASSESSMENT

The full details of the history and physical examination of the patient will be recorded as per the Proforma. Clinical assessment will be made on 0 day, 15^{th} , 30^{th} , 45^{th} and 60^{th} day. Laboratory investigations will be recorded before and after treatment, followed by clinical follow up without drug during $3^{\text{rd}} \& 4^{\text{th}}$ month.

CLINICAL ASSESSMENT

Clinical assessment will be made by the WOMAC index chart for OA-Knee joints as mentioned in the case record form. The results will be categorized according to the variation in the score before and after treatment.

Primary endpoints

1. The decrease in WOMAC Index Score and symptomatic relief as recorded in the proforma.

Secondary endpoints:

1. Evaluating safety parameters - LFT & RFT.

References:

- Jackson BD, Wluka AE, Teichtahl AJ, et al. Reviewing knee Osteo arthritis a biomechanical perspective. J Sci Med Sport. 2004; 7(3):347–357.
- Wu CW, Kalunian KC. New developments in Osteo arthritis . Clin Geriatr Med. 2005;21(3):589–601.
- Mandelbaum B, Waddell D. Etiology and pathophysiology of Osteo arthritis . Orthopedics. 2005;28(2 Suppl):s207–214.
- 4. Cicuttini FM, Spector TD. Genetics of Osteo arthritis . Ann Rheum Dis. 1996;55(9):65-67.

5. Pearle AD, Warren RF, Rodeo SA. Basic science of articular cartilage and Osteo arthritis . Clin

Sports Med. 2005;4(1):1–12.

6. D'Ambrosia RD. Epidemiology of Osteo arthritis . Orthopedics. 2005; 28(2 Suppl):s201–205.

 Zhang Y, Xu L, Nevitt MC, et al. Comparison of the prevalence of knee Osteo arthritis between the elderly Chinese population in Beijing and whites in the United States: The Beijing

OA Study. Arthritis Rheum. 2001;44(9):2065–2071.

8. Du H, Chen SL, Bao CD, et al. Prevalence and risk factors of knee Osteo arthritis in Huang-Pu

District, Shanghai, China. Rheumatol Int. 2005;25(8):585-590.

- 9. Bedson J, Jordan K, Croft P. The prevalence and history of knee Osteo arthritis in general practice: a case-control study. Fam Pract. 2005;22(1):103–108.
- Kacar C, Gilgil E, Urhan S, et al. The prevalence of symptomatic knee and distal interphalangeal joint Osteo arthritis in the urban population of Antalya, Turkey. Rheumatol Int.2005;25(3):201–204.
- Tramer MR, Moore RA, Raynold DJ, McQuay HJ. Quatitative estimation of rare adverse events which follow a biological progression: A new model applied to chronic NSAIDs use. Pain 2000;85:169-82.
- Bachanan W. Implications of NSAID therapy in elderly patients. J Rheumatol 1990; 4:29-32.

13 Turek SL. Orthopaedics: Principles and their application. Degenerative joint diseases. 4thed.

Philadelphia: J.B. Lippincott Company; 1984. p. 384-416.

Perneger TV, Whelton PK, Klag MJ. Risk of kidney failure associated with the use of paracetamol, aspirin, and nonsteroidal anti-inflammatory drugs. N
 Engl J Med
 1994;331:1675-9

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

Multicentric Open Clinical Study on *Azhal Keel Vayu* (Osteo arthritis – Knee joints) Case Report Form I – SCREENING PROFORMA

(Please tick wherever applicable)

Level of study OPD/IPD

1. Code No

2. Subject No

3. Name of the Patient _____

Address:

Phone no:

4. Gender Male Female

- 5. Age _____Yrs
- 6. Date of Assessment_____

CRITERIA FOR INCLUSION:

- 1. Age between 45 years to 60 years
- Patients with Primary Osteo arthritis (Knee joints) Single or Both
- 3. Symptoms of OA over a period of at least six months
- 4. Crepitations felt over the affected Knee joints
- 5. Morning stiffness of the Knee joints
- 6. Involvement of Knee Joints with / without other major / minor joints
- 7. Difficulty in walking / Climbing stairs
- 8. X-ray findings

CRITERIA FOR EXCLUSION:

- 9. Age less than 45 years or more than 60 years
- 10. Patients with systemic conditions such as Gouty arthritis,

Rheumatoid arthritis, Psoriatic arthritis, SLE.

- 11. Patients with Diabetes mellitus / Hypertension
- 12. Bed ridden patients
- 13. Patients using anti-inflammatory medicine other than Research drugs
- 14. Patients taking active Allopathy / Homeopathic
- 15. Low back ache with or without radiation to legs
- 16. Patients with metallic implants
- 17. Subjects having any deformity of Knee or Hip
- 18. History of bony or soft tissue injury to Knee joints

Yes

No

A patient is eligible for admission if Serial number 1-3 are Yes; among Serial number 4-8 at least two must be Yes and Serial number 9-18 are No.

Date: Investigator Signature of Investigator /Co

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

Multicentric Open Clinical Study on Azhal Keel Vayu (Osteo arthritis - Knee

joints) Case Report Form II - HISTORY PROFORMA

(Please tick wherever applicable)

OPD/IPD

1. Code No ____ Level of study

2. Subject No

3. Name of the Patient_____

Address:

Phone no:

| 4. Gender Male Female | |
|---|---------|
| 5. AgeYrs | |
| 6. Date of Assessment | |
| 7. Educational status: | |
| Illiterate Read & Write Middle school High school | College |
| Others (Specify) | |
| 8. Occupation: | |
| a) Desk | |
| work b) | |
| Field work | |
| c) Field work with physical Labour | |
| d) Field work with intellectual acumen | |
| e) Constant sitting /standing for long | |
| hour f) Home Maker | |
| g) Others, please specify: | |
| 9. Family income per month in Rupers | |
| 10. Total family members | |
| 11. Marital status Single Married Separated Widow | Widower |
| | |
| 12. History of Present illness: | |
| Onset of the disease: Acute Insidious | |
| Duration of the disease [in months] | |
| Factors aggravating the disease / Chief complaints | |
| Factors relieving / Chief complaints | |
| | |
| History of Past illness, related with present illness: Yes / No | |
| if yes, specify | |
| 13. History of Past illness | |
| History of trauma / Injury Yes / No | |
| If yes, specify | |
| Undergone treatment before Yes / No | |
| 14. a) Personal history | |

Diet: Veg / Non veg

Addiction: Smoking / Alcohol / Tobacco chewing

b) Udaliyal (Prakriti)

| S.No | Vali | Azhal | Iyam |
|------|---------------|------------|------------------|
| 1. | Lean Built | Medium | Stout/Well built |
| | | built | |
| 2. | Less Strength | Medium | Good Strength |
| | | Strength | |
| 3. | Dry Body | Excessive | Oily Body |
| | | sweating | |
| 4 | Dry and | Pinkish | Fair, Soft & |
| | Dark skin | or | smooth skin |
| | | yellowish | |
| 5. | Scanty and | Early | Black and thick |
| | Brown hair | graying | hair |
| | | and | |
| 6 | Fickle minded | Short | Steady and |
| | | tempered | patient |
| 7 | Irregular | Excessive | Normal appetite |
| | appetite | appetite | and thirst |
| | and thirst | and thirst | |
| 8 | Constipate | Frequent | Normal steady |
| | tendency | and | bowel |
| | | large | |
| 9 | Disturbed | Average | Sound deep |
| | Sleep | sleep | sleep |

Vali

Azhal

Iyam

Thontham

Chief complaints with duration:

15. Pain:

Name of joints

| Increased by exertion | Yes | No |
|--------------------------|-----|----|
| Relieved by taking rest | Yes | No |
| Pain at rest | Yes | No |
| Radiating to other parts | Yes | No |

16. Stiffness:

| Name of joints | | |
|---------------------------|-----|----|
| involved: Duration: | | |
| Morning stiffness | Yes | No |
| Lasting for an hour or so | Yes | No |

17. Swelling:

Name of joints involved: Duration:

18. Restricted movements:

Name of joints involved: Duration: Crepitus: Yes / No Duration:

19. Variation in pain

Climate Season Day / Night Rest / Movement Walking / Exertion Other relations any

| | xamination of the atient: | | |
|---------------|------------------------------|---|---------|
| a) Febrile | / Afebrile | | |
| : b) | Height | | |
| : c) | Weight | | |
| : | | | |
| d) Pallor | | : | Present |
| Absent e) | Icterus | : | Present |
| Absent f) | Oedema | : | Present |
| Absent g) | Clubbing | : | Present |
| Absent h) | Cyanosis | : | Present |
| Absent i) | Lymphadenopathy | : | Present |
| Absent j) | Pigmentation | : | Present |
| Absent k) | Deformity | : | Present |
| Absent 1) | Pulse rate | _ | |
| m) Respirator | ry rate | | |
| n) Blood pre | ssure | | |

21. Systemic examination of the patient

| a) Gastro intestinal system | : | Normal | Abnormal |
|--------------------------------|---|--------|----------|
| If abnormal, specify | | | |
| b) Cardio vascular system | : | Normal | Abnormal |
| If abnormal, specify | | | |
| c) Respiratory system | : | Normal | Abnormal |
| If abnormal, specify | | | |
| d) Central nervous system | : | Normal | Abnormal |
| If abnormal, specify | | | |
| e) Genito urinary system | : | Normal | Abnormal |
| If abnormal, specify | | | |
| f) Reticulo endothelial system | : | Normal | Abnormal |
| If abnormal, specify | | | |
| · · · | : | Normal | Abnormal |

| 22 | 2. Se | even | Udal |
|----|----------|------|------------|
| T | haathukk | al | Saaram |
| : | | | Senneer |
| : | | | Oon |
| : | | | Kozhuppu |
| : | | | Enbu |
| : | | | Moolai |
| : | Sukkilam | . / | Suronitham |
| : | | | |

| 2 | 3. | Enn | Vagai |
|---|------|-----|----------|
| T | herv | u | Naadi |
| : | | | Sparisam |
| : | | | Naa |
| : | | | Niram |
| : | | | Mozhi |
| : | | | Vizhi |
| : | Mala | m | : |

Moothiram

:

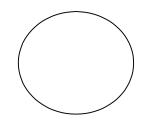
a) Neerkuri

Niram Nirai Mana

m

Enjal

b) Neikuri



Date: Investigator Signature of Investigator/Co

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

Multicentric Open Clinical Study on *Azhal Keel Vayu*(Osteo arthritis – Knee joints) Case Report Form III - LABORATORY INVESTIGATIONS

- 1. Code No ____ Level of study OPD/IPD
- 2. Subject No
- 3. Name of the Patient_____

Address:

Phone no:

- 4. Gender Male Female
- 5. Age _____Yrs

| S.No | Parameters | Status | Before | After | Follo | w up |
|-------|----------------|----------|-----------|-----------|-------|------|
| | | | Treatment | Treatment | 1 M | 2 M |
| VITAL | BLOOD PAR | AMETERS | 5 | | I | |
| 1. | R.A Factor | Positive | | | | |
| | | Negative | | | | |
| 2. | Uric acid | | | | | |
| 3. | A.S.L.O. Titer | Positive | | | | |
| | | Negative | | | | |
| 4. | C.R.P | Positive | | | | |
| | | Negative | | | | |
| 5. | LFT | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 6. | RFT | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

URINE

| 1. | Albumin | | | |
|----|----------|---------|--|--|
| 2. | Sugar | Fasting | | |
| | | PP | | |
| 3. | Deposits | | | |

STOOLS

| 1. | Ova | | |
|----|--------------|--|--|
| 2. | Cysts | | |
| 3. | Occult blood | | |

Other Blood Parameters

| 1. | TC |
|----|-----------------------|
| 2. | DC |
| 3. | Hb gms/% |
| 4. | ESR 30 mts |
| | 60 mts |
| 5. | Blood Sugar – Fasting |
| | PP |
| 6. | S. Cholesterol |
| 7. | B. Urea |
| 8. | S. Creatinine |
| 9. | VDRL |

X-Ray Findings:

Any other investigations_____

Date: Investigator Signature of Investigator/Co

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

Multicentric Open Clinical Study on *Azhal Keel Vayu* (Osteo arthritis – Knee joints) CASE RECORD FORM IV – CLINICAL ASSESSMENT

| 1. Code No | | Level of study | OPD/IPD |
|--------------|------------|----------------|---------|
| 2. Subject N | 0 | | |
| 3. Name of t | he Patient | | |
| Address: | | | |
| Phone no: | | | |
| 4. Gender | Male | Female | |

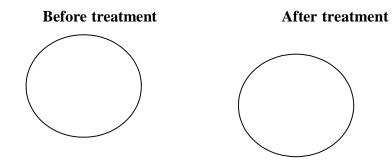
5. Age _____Yrs

MEASUREMENT OF THE JOINTS

| | | Swelling (cms) | | | | | | |
|--------|-------|------------------|-----------------|--|--|--|--|--|
| Joints | Side | Before treatment | After treatment | | | | | |
| | | (Date:) | (Date: | | | | | |
| | Right | | | | | | | |
| Knee | Left | | | | | | | |
| | Lett | | | | | | | |
| | | | | | | | | |

Note: Swelling is measured by means of a Non Elastic inch tape.

NEIKURI



WOMAC OSTEO ARTHRITIS INDEX (Please tick wherever applicable)

| Symptoms | B | Before Treatment | | | | | After Treatment | | | |
|--|----------|------------------|---|-----|----------|---|-----------------|---|---|---|
| | (Date:) | | | (Da | (Date:) | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 4 |
| Pain | | | | | | | | | | |
| (1) Walking | | | | | | | | | | |
| (2) Stair climbing | | | | | | | | | | |
| (3) Nocturnal | | | | | | | | | | |
| (4) Rest | | | | | | | | | | |
| (5) Weight bearing | | | | | | | | | | |
| Stiffness: | | | | | | | | | | |
| (1) Morning stiffness | | | | | | | | | | |
| (2) Stiffness occurring later in the day | | | | | | | | | | |
| Physical function: | | | | | | | | | | |
| (1) Descending stairs | | | | | | | | | | |
| (2) Ascending stairs | | | | | | | | | | |
| (3) Rising from sitting | | | | | | | | | | |
| (4) Standing | | | | | | | | | | |
| (5) Bending to floor | | | | | | | | | | |
| (6) Walking on flat | | | | | | | | | | |
| (7) Getting in or out of car | | | | | | | | | | |
| (8) Going shopping | | | | | | | | | | |
| (9) Putting on socks | | | | | | | | | | |
| (10) Rising from bed | | | | | | | | | | |
| (11) Taking off socks | | | | | | | | | | |
| (12) Lying in bed | | | | | | | | | | |
| (13) Getting in or out of bath | | | | | | | | | | 1 |
| (14) Sitting | | | | | | | 1 | | | 1 |
| (15) Getting on or off toilet | | | | | | | 1 | | | 1 |
| (16) Heavy domestic duties | | | | | | | 1 | 1 | | 1 |
| (17) Light domestic duties | | | | | | | | | | 1 |
| Total | | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 |

Points – Response: 0 – None; 1 – Slight; 2- Moderate; 3- Severe; 4- Extreme

Date:

Signature of Investigator/Co Investigator

| WOMAC OSTEC | ARTHRITIS | INDEX | (Please | tick | wherever | applicable) |
|-------------|------------------|-------|---------|------|----------|-------------|
|-------------|------------------|-------|---------|------|----------|-------------|

| Symptoms | | | | | Fo | llow | | | | |
|--|---|---|-------|---|----|------|--------|---|---|---|
| | | | | | | Mo | Month | | | |
| | | 1 | (Date | | 1 | ~ | (Date: | | |) |
| | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 4 |
| Pain | | | | | | | | | | |
| (1) Walking | | | | | | | | | | |
| (2) Stair climbing | | | | | | | | | | |
| (3) Nocturnal | | | | | | | | | | |
| (4) Rest | | | | | | | | | | |
| (5) Weight bearing | | | | | | | | | | |
| Stiffness: | | | | | | | | | | |
| (1) Morning stiffness | | | | | | | | | | |
| (2) Stiffness occurring later in the day | | | | | | | | | | |
| Physical function: | | | | | | | | | | |
| (1) Descending stairs | | | | | | | | | | |
| (2) Ascending stairs | | | | | | | | | | |
| (3) Rising from sitting | | | | | | | | | | |
| (4) Standing | | | | | | | | | | |
| (5) Bending to floor | | | | | | | | | | |
| (6) Walking on flat | | | | | | | | | | |
| (7) Getting in or out of car | | | | | | | | | | |
| (8) Going shopping | | | | | | | | | | |
| (9) Putting on socks | | | | | | | | | | |
| (10) Rising from bed | | | | | | | | | | |
| (11) Taking off socks | | | | | | | | | | |
| (12) Lying in bed | | | | | | | | | | |
| (13) Getting in or out of bath | | | | | | | | | | |
| (14) Sitting | | | | | | | | | | |
| (15) Getting on or off toilet | | | | | | | | | | 1 |
| (16) Heavy domestic duties | | | | | | | | | | |
| (17) Light domestic duties | | | | | | | | | | |
| Total | | | | | | | • | | | |

Points – Response: 0 – None; 1 – Slight; 2- Moderate; 3- Severe; 4- Extreme

Date:

Signature of Investigator/Co Investigator

Clinical Assessment

| | Assessment | Before Treatment (Date:) | After treatment (Date:) |
|----|-----------------------|------------------------------|-----------------------------|
| 1. | Pain score | | |
| 2. | Stiffness score | | |
| 3. | Physical function | | |
| 4. | Joint measurement for | | |
| | Swelling | | |

Follow up

| | Assessment | 1 Month | | 2 Month | |
|----|-----------------------|---------|---|----------|---|
| | | (Date: |) | (Date:) |) |
| 1. | Pain score | | | | |
| 2. | Stiffness score | | | | |
| 3. | Physical function | | | | |
| 4. | Joint measurement for | | | | |
| | Swelling | | | | |

Date: Investigator Signature of Investigator /Co

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA

Multicentric Open Clinical Study on *Azhal Keel Vayu* (Osteo arthritis – Knee joints) Patient Information Sheet

Study

investigators: Site

of investigation:

Contact number:

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. 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?

This study is done to assess the efficacy of *OA-1 Churnam & xxx* in the treatment of Azhal Keel Vayu (Osteo Arthritis – Knee joints). A total of 40 patients suffering with Azhal Keel Vayu like you 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 strictly. If you are eligible for the study you are expected to visit the hospital every15 days. The study will take approximately four months to complete. Before you start treatment, during the first visit to the clinic, you will undergo a complete physical examination, Blood and urine samples, X-Ray Investigation will also be taken. This is to make sure that you are eligible for the study.

What happens at the end of the study?

The trial treatment will be stopped at the end of 60 days. You will be referred to the OPD. General

Are there any risk?

If the trial drug cause any adverse effect it has to be reported to the doctor.

What are the alternatives?

Your doctor will be pleased to explain to you the available alternative treatment.

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.

What is the cost of the study?

All medications 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 asked to sign a consent form saying that you have been given information sheet about the study and you voluntarily agree to take part. It is important to follow all instruction 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 to 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.

Is there any other additional information regarding this trial?

If you have any questions regarding the research study related or if you need emergency medical treatment while you 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.

*Translate into regional language

CENTRAL COUNCIL FOR RESEARCH IN

SIDDHA Multicentric Open Clinical Study on

Azhal Keel Vayu (Osteo arthritis – Knee joints)

DRUG COMPLIANCE FORM - 1st visit

- 1. Center:___
- _ 2. S.No. of the patient: 3. Name of the patient: Female 4. Sex:Male

Instructions:

- 1. Please take 2 gm of the medicine twice a day after food.
- 2. Please come for the next visit on

| | | Morning | | Evening | |
|-----|------|---|------|--|------|
| Day | Date | Please after taking the medicine. | Time | Please after taking the medicine | Time |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |

Date _____

:

Signature / Thumb impression of patient

CENTRAL COUNCIL FOR RESEARCH IN

SIDDHA Multicentric Open Clinical Study on Azhal Keel Vayu (Osteo arthritis – Knee joints) FORM V - PATIENT CONSENT FORM

I ------S/o-H/o------

Aged -----years residing at-----

power of choice, hereby give my consent to be included as a subject in th e clinical trial of *Azhal Keel Vayu* (Osteo arthritis – Knee joints) which is to be conducted at CCRS centre

I understand that I may be treated with Herbal /Metal / Herbo - mineral pre paration of Siddha system of medicines for the disease. I am suffering from --

-----I have been informed to my satisfaction by the attending p hysician about the purpose of clinical trial, the nature of drug treatment and follow up including the laboratory investigations to monitor and safe guard my body function. The consent, which I am giving to participate, is out of my own interest with my knowledge and full consciousness and aft er studying the patient information sheet given to me by the investigator a nd after full clarification of all my doubts. I also state that the consent is no t given out of any undue influence or any other measures.

Signature / Thumb impression of the patien t.

Date: Investigator: Signature of Investigator/Co