## Clinical Trial on Nature Nuskha Day Care & Night Care Hair Therapy

Title: Efficacy and Safety of the Nature Nuskha Day Care & Night Care Hair Therapy to control Hair Fall, Premature Graying of Hair & Dandruff in various scalp conditions.

## Name and Address of the Sponsor:

IOGEN-X Pharma Pvt. Ltd. Navi Mumbai. INDIA

## Name and Address of Clinical Trial Institute:

S.R.M. State Ayurvedic Medical College & Hospital Bareilly (U.P.) INDIA

## **Principal Investigators:**

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## 1. INTRODUCTION:

Hair loss, or Alopecia, is a concern for men, women, and children. Hair loss can be an indication of some serious health issues like heart disease, diabetes mellitus, ovarian cysts, thyroid and autoimmune disorders. It also has a negative impact on social life and can lead to depression. Do not neglect hair loss. Treatments for hair loss include medications such as Propecia and Rogaine, hair replacements, and hair restoration.

## 2. BACKGROUND

## 2.1 ALOPECIA AREATA

If you've seen a lot of extra hair on your pillow, brush, or shower drain, or you've noticed odd little bald spots in the mirror, you might have an autoimmune disorder called alopecia areata.

When you have an autoimmune disease, your immune system attacks your own body. With alopecia areata, it's the hair follicles that are attacked. This causes the hair to come out, often in clumps the size and shape of a quarter. The amount of hair loss is different in everyone. Some people lose it only in a few spots. Others lose a lot.

It's rare, but you can lose all the hair on your head (alopecia areata totalis) or entire body (alopecia areata universalis).

Each case of alopecia areata is different. Sometimes, hair grows back but falls out again later. In others, hair grows back for good.

## **Understanding Hair Loss -- the Basics: What Is Hair Loss?**

Hair grows everywhere on the human skin except on the palms of our hands and the soles of our feet, but many hairs are so fine they're virtually invisible. Hair is made up of a protein called keratin that is produced in hair follicles in the outer layer of skin. As follicles produce new hair cells, old cells are being pushed out through the surface of the skin at the rate of about six inches a year. The hair you can see is actually a string of dead keratin cells. The average adult head has about 100,000 to 150,000 hairs and loses up to 100 of them a day; finding a few stray hairs on your hairbrush is not necessarily cause for alarm.

At any one time, about 90% of the hair on a person's scalp is growing. Each follicle has its own life cycle that can be influenced by age, disease, and a wide variety of other factors. This life cycle is divided into three phases:

- Anagen -- active hair growth that lasts between two to six years
- Catagen -- transitional hair growth that lasts two to three weeks
- Telogen -- resting phase that lasts about two to three months; at the end of the resting phase the hair is shed and a new hair replaces it and the growing cycle starts again.

## **Understanding Hair Loss Signs & Symptoms: What Are the Signs of Hair Loss?**

Signs of hair loss and hair loss conditions vary between men, women and children. However, people of any age or sex may notice more hair collecting in their hairbrush or in the shower drain.

The signs of hair loss and hair conditions in men may include:

- Thinning hair on the scalp
- A receding hairline
- A horseshoe-shaped pattern that leaves the crown of the head exposed
- Signs of hair loss and hair conditions in women may include:
- General hair thinning, especially at the crown of the head

#### Women and Hair Loss: Possible Causes

His best way to think of the way hair grows is to picture a garden. How well it grows is completely a result of what is happening "underground."

"Like a garden, a normal hair cycle should lead to a product, which is the hair," says Wendy Roberts, a dermatologist at a private practice in Rancho Mirage, Calif. "Growth cycles are important because when they go awry, that is one of the reasons we have hair loss."

And things that interfere with the cycle -- like medication, illness, infection, or chemicals -- have the potential to stop hair from being formed properly.

## TELOGEN EFFLUVIUM AND OTHER EFFLUVIUMS

Some hair loss conditions go by the name "effluvium," which means an outflow. Effluviums characteristically affect different phases of the hair growth cycle.

Hair follicles on the scalp do not continuously produce hair. They cycle through a growth stage that can last two or more years, then regress to a resting stage for up to two months before starting to grow a new hair fiber again. At any time on a healthy human scalp, about 80% to 90% of the hair follicles are growing hair. These active follicles are in what is called the anagen phase. That leaves up to 10% to 20% percent of scalp hair follicles in a resting state called telogen, when they don't produce any hair fiber.

## **Telogen Effluvium**

Telogen effluvium (TE) is probably the second most common form of hair loss dermatologists see. It is a poorly defined condition; very little research has been done to understand TE. In essence though, TE happens when there is a change in the number of hair follicles growing hair. If the number of hair follicles producing hair drops significantly for any reason during the resting, or telogen phase, there will be a significant increase in dormant, telogen stage hair follicles. The result is shedding, or TE hair loss

## HAIR LOSS: INFECTIOUS AGENTS

A number of infectious agents and infection-related conditions can contribute to hair loss. Some common ones are described here.

## **Ringworm Infections**

Surprisingly, ringworm has nothing to do with worms, but is a fungal infection that can occur anywhere on the body. If it develops on the scalp, it can cause patches of hair loss and is known to doctors as "tinea capitis." Ringworm is the same thing as athlete's foot, and the same kind of fungal infection that can affect the nails too.

On the scalp, ringworm usually begins as a small pimple that progressively expands in size, leaving scaly patches of temporary baldness. The fungus gets into the hair fibers in the affected area and these hairs become brittle and break off easily, leaving a bald patch of skin. Affected areas are often itchy, red, and inflamed, with scaly patches that may blisterand ooze. The patches are usually redder around the outside with a more normal skin tone in the center. This may create the appearance of a ring -- hence the name, ringworm.

## **SCALP PROBLEMS**

Your scalp often plays second fiddle to your hair. Until it starts begging for attention, that is. With several common conditions, your scalp may itch and get irritated.

#### **Dandruff**

Little white flakes signal an old-fashioned case of dandruff. It can be annoying when the flakes fall on a dark shirt. Dandruff is simply a buildup of shedding dead skin. We don't know the cause, but it may be due to a fungus on the skin.

You can't catch dandruff from someone else, and it isn't dangerous, but it can be itchy and a bother. Luckily, there's no redness or scabbing of the scalp. you may need to try two or three products to clear up your dandruff.

## **Seborrheic Dermatitis**

Dandruff is a mild form of seborrheic dermatitis. In more severe cases, you'll see a reddening of the scalp and a lot of oil. The result is a greasy look and feel. According to the American Academy of Dermatology, it's common in those with oily skin or hair, acne, or psoriasis.

## **Cradle Cap**

This form of seborrheic dermatitis affects infants, typically in the first 6 months. It causes greasy, yellowish scales or crusts on the scalp. Although it may frighten parents, cradle cap is not a sign of a more serious infection, and it will usually clear up by the baby's first birthday.

## **Scarring Alopecia**

Scarring alopecia, also known as cicatricial alopecia, refers to a collection of hair loss disorders that may be diagnosed in up to 3% of hair loss patients. It occurs worldwide in otherwise healthy men and women of all ages.

Each specific diagnosis within this category is fairly rare, but some examples include dissecting cellulitis, eosinophilic pustular folliculitis, follicular degeneration syndrome (previously called "hot comb" alopecia), folliculitis decalvans, lichen planopilaris, and pseudopelade of Brocq, to name a few. Scarring alopecia may also be part of a much larger condition such as chronic lupus erythematosus, where many organs of the body can be affected.

While there are many forms of scarring alopecia, the common theme is a potentially permanent and irreversible destruction of hair follicles and their replacement with scar tissue.

Most forms of scarring alopecia first occur as small patches of hair loss that may expand with time. In some cases the hair loss is gradual, without noticeable symptoms, and may go unnoticed for a long time. In other instances, the hair loss is associated with severe itching, burning, and pain, and is rapidly progressive.

The scarring alopecia patches usually look a little different from alopecia areata in that the edges of the bald patches look more "ragged." The destruction of the hair follicle occurs below the skin surface so there may not be much to actually see on the scalp skin surface other than patchy hair loss. Affected areas may be smooth and clean, or may have redness, scaling, increased or decreased pigmentation, or may have raised blisters with fluids or pus coming from the affected area.

These visual indicators may help with diagnosis, but it is difficult to diagnose a scarring alopecia just from the pattern of the hair loss and the nature of the scalp skin. Often when scarring alopecia is suspected, one or more skin biopsies are done to confirm the diagnosis and help identify the particular form of scarring alopecia. A small biopsy of 2 to 4 mm in diameter is taken and examined under a microscope. A pathologist or dermatologist will look for destruction of the hair follicles, scar tissue deep in the skin, and the presence and location of inflammation in relation to the hair follicles.

#### 2.2 ABOUT NATURE NUSKHA DAY CARE AND NIGHT CARE THERAPY

#### 2.2.1 Various Herbs Used viz.

Herbal Hair Tonic Nature Nuskha Day Therapy- Natural; Herbal Extract of Peas, Brahmi, Bhringraj, Shankhpushpi, Bahera, Neem and Glycerine.

Herbal Hair Tonic Nature Nuskha Night Therapy- Natural; Oil Extract of Avocade, Jojoba, Flex seed, Coconut, Sesame, Musterd, Clove, Orange peel, Cardamom Oil, Natural Tocopheroles, Peas and Neem Extract.

The Nature Nuskha Day Therapy and Night Therapy Products are Oil Extract based and Non-Oil Herbal Extract based Day Care Therapy and Night Care Hair Therapy should give the following results if regularly used. They were formulated as Hair Care Therapy solutions.

## Benefits of Nature Nuskha Day Therapy-

- ✓ Acts as a natural screen against sunlight and pollutants
- ✓ Prevents untimely hair ageing
- ✓ Reduced dandruff
- ✓ Improves scalp moisturized
- ✓ Improves hair strength and density

## Benefits of Nature Nuskha Night Scalp Therapy-

- ✓ Removes dandruff
- ✓ Controls hair fall and enhances hair growth
- ✓ Promotes hair re-growth
- ✓ Prevents untimely graying of hair
- ✓ Improves hair quality and strength

The Common therapy of above will show beneficial effect on the problems of Hair Fall, Premature Graying of Hair & Dandruff and promotes Hair growth and Hair re-growth in the age group of 16-40 across the gender.

## 3. STUDY RATIONALES:

Hair loss, or Alopecia, is a concern for men, women, and children. Hair loss can be an indication of various serious health issues including autoimmune disorders. It also has a negative impact on social life and can lead to depression. Do not neglect hair loss.

The herbal ingredients used in these herbal hair tonics have been used in the treatment of various scalp diseases. Their long standing use in human beings is a testimony of their use. Their

efficacy in the treatment of Hair loss, or Alopecia Dandruff and Hair Graying was assessed in various ancient literature reviews.

The efficacy of these herbs singly and in combination has been established by Researcher at IOGEN-X Pharma Pvt. Ltd. Navi Mumbai. There after the herbal combination chosen after various studies has been exposed to appropriate studies. As the Internationally accepted norms, we wish to undertake the formulation to Phase II clinical trial of the Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit.

## 3.1 OBJECTIVES

Phase II:

## 3.2 Primary Objective:

- a. To determine the efficacy of Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit for achieving the target to control Hair Fall, Premature Graying of Hair & Dandruff and promotes Hair growth and Hair re-growth in the age group of 16-40 across the
- **b.** To assess the appropriate strength of the formulation with dose and duration for present subsequent study.

## 3.3 Secondary Objective:

**A.** To determine the tolerability and safety of Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit.

## 4. STUDY DESIGN

The study will be conducted at single site inpatient hospital of SRM Government Ayurvedic Medical College & Hospital, Bareilly and Combination Scalp Treatment with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit study and with Separately Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy respectively.

After assessing the efficacy of the study, the dose response determination was conducted in three different therapies. Based on the results potential study end points and the target population will be determined.

The study was conducted in healthy individuals between 16 to 40 years of age across the gender. The study will be conducted in 148 volunteers. Out of 148 volunteers only 115 were completed the study. Three groups of 48, 48 & 49 patients of hair care tonic were evaluated respectively.

Three therapy of Herbal Hair Tonic was tried i.e. Combination Scalp Treatment with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit, Separately Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Day Therapy and Separately Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Night Therapy.

Each group was receive either of these scalp therapies. First tolerability and efficacy was assessed with combination scalp treatment with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit as per the design explained below.

It was a single blind parallel design study where different strengths of the drug were evaluated simultaneously.

Randomization was done using 'Outcome-adaptive randomization procedure. Concealment will be done using Sequentially-Numbered, Opaque, Sealed Envelopes (SNOSE)

The volunteers were undertaken various complaints of hair and scalp examination of volunteers and the enrolled in the study.

## **Study Population:**

Subjects of between 16 to 40 years of age across the gender

## **Number of Patients:**

Total 115 patients have completed the Phase II study with three groups of G-1: 48, G-2:48 & G3: 49 subjects of hair care tonic were evaluated respectively.

## **Eligibility Criteria:**

#### Inclusion criteria-

Those who have Hair Fall, Premature Graying of Hair and Dandruff Scalp Conditions

## **Exclusion Criteria-**

- 1. Having any extra scalp disease.
- 2. Having associated systemic disease.

## **Primary End Point: Effect on Scalp Condition**

On inclusion of the patient, suggested dose was applied on the scalp and the findings were recorded.

Therapy Group 1 (Combination Scalp Treatment with Herbal Hair Tonic Nature Nuskha **Day Therapy and Night Therapy Kit)** 

Therapy Group 2 (Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Day Therapy)

Therapy Group 3 (Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Night Therapy)

After initial assessment of tolerability and efficacy after administration of the drug was evaluated on the basis of its ability to reduce in percentage, at screening after 2<sup>nd</sup> week, 4<sup>th</sup> weeks, 6<sup>th</sup>

weeks, 8<sup>th</sup> weeks 10<sup>th</sup> weeks and after 12<sup>th</sup> weeks and the findings were recorded in a table as shown under:

| Parameters                          |           | Observation After |                 |                 |                 |                  |                  |
|-------------------------------------|-----------|-------------------|-----------------|-----------------|-----------------|------------------|------------------|
|                                     | Initially | $2^{st}$          | 4 <sup>nd</sup> | 6 <sup>th</sup> | 8 <sup>th</sup> | 10 <sup>th</sup> | 12 <sup>th</sup> |
|                                     |           | Week              | Week            | Week            | Week            | Week             | Week             |
| Condition of Scalp 1. Hair Fall     |           |                   |                 |                 |                 |                  |                  |
| Hair Density                        |           |                   |                 |                 |                 |                  |                  |
| Hair thickness                      |           |                   |                 |                 |                 |                  |                  |
| Hair length                         |           |                   |                 |                 |                 |                  |                  |
| Linear growth rate                  |           |                   |                 |                 |                 |                  |                  |
| 2. Premature Graying of Hair        |           |                   |                 |                 |                 |                  |                  |
| 3. Dandruff                         |           |                   |                 |                 |                 |                  |                  |
| Any other Observation               |           |                   |                 |                 |                 |                  |                  |
| [Questionnaire] Growth of           |           |                   |                 |                 |                 |                  |                  |
| hair/Amount of noticeable new       |           |                   |                 |                 |                 |                  |                  |
| hair/ Visibility of the scalp/ Rate |           |                   |                 |                 |                 |                  |                  |
| of hair loss                        |           |                   |                 |                 |                 |                  |                  |

Grading Scale: Grade from 5 maximum to 1 minimize for main ailments of scalps conditions or from **1 minimum to 5 maximize** for hair related improvement assessment

## **Secondary End Point:**

## 1. Scalps Screening

Grading of Scalp and Hair condition will be screening by taken snap shot

|       | At inclusion | At the end of the treatment 12 <sup>th</sup> Week |
|-------|--------------|---|
| Grade |              |   |

## 2. Allergic Conditions

|       | Initial | After one month treatment 12 <sup>th</sup> Week |
|-------|---------|---|
| Grade |         |   |

## **Material and Methods:**

The following two Nature Nuskha Day Care Therapy and Night Care Therapy Kit were supplied by the sponsor in 90ml vials:

Herbal Hair Tonic Nature Nuskha Day Therapy- Natural; Herbal Extract of Peas, Brahmi, Bhringraj, Shankhpushpi, Bahera, Neem and Glycerine.

Herbal Hair Tonic Nature Nuskha Night Therapy- Natural; Oil Extract of Avocade, Jojoba, Flex seed, Coconut, Sesame, Musterd, Clove, Orange peel, Cardamom Oil, Natural Tocopheroles, Peas and Neem Extract.

## SUBJECT SELECTION

The subjects were selected as per the inclusion criteria randomly by the investigator through organizing eye check up camps and routine OPD. The subjects underwent standardized screening procedure as described in the inclusion and exclusion criteria.

## **Screening Assessment:**

Medical histories, demographic data, name, age, sex, and blood sugar levels were recorded. Only the subjects who qualified the assessment criteria were included in the study.

## **Tests:**

The subjects were asked to undergo the following blood examinations at the time of inclusion and after the completion of the study. Blood: Hb%, ESR, Random Blood Sugar, Blood Urea & Serum Bilirubin for safety profile of trial.

## **Study Conduct:**

The study was conducted at the OPD and Camps held at S.R.M. State Ayurvedic Medical College & Hospital Bareilly (U.P.) by Dr. Santosh Kumar, Principal Investigator and Dr. Atul Kumar Co-investigator of the study. The patients were screened routinely in the OPD/Camps and investigated as per protocol and included in the study. Nature Nuskha Day Care Therapy and Night Care Therapy Kit were used and evenly distributed one by one in the subjects enrolled in the study.

## **Study Treatment:**

Subjects included in the study were visited in the hospital and different strengths of Herbal Hair Tonic Nature Nuskha was evaluated the Improve Various Scalp Condition in Hair Fall, Premature Graying of Hair and Dandruff from the base level of Scalp Condition by tested therapy in following Therapy Group with Herbal Hair Tonic Nature Nuskha Treatment were applied on the scalp as suggested.

**Therapy Group 1** (Combination Scalp Treatment with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit) was applied on the scalp twice, Nature Nuskha Day Therapy in the Morning after bath and Night Therapy at Night before sleep respectively.

**Therapy Group 2** (Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Day Therapy) was applied on the scalp once, Nature Nuskha Day Therapy in the Morning after bath only.

Therapy Group 3 (Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Night Therapy) was applied on the scalp once, Night Therapy at Night before sleep only.

Efficacy of the drug will be evaluated on the basis of its ability to reduce in percentage. Therapy will be instilled taken at screening after 2<sup>nd</sup> week, 4<sup>th</sup> weeks, 6<sup>th</sup> weeks, 8<sup>th</sup> weeks 10<sup>th</sup> weeks and after 12<sup>th</sup> weeks.

Data generated after the administration of the drug in a manner described in Section 4, study design and its recorded effect on Various Scalp Condition in Hair Fall, Premature Graying of Hair and Dandruff will be statistically analyzed and evaluated

Assessment of data recorded on inclusion will be evaluated after 2<sup>nd</sup> week for the individual patient and after 12th weeks the complete data on all the 115 patients have been completed

## **Expiry of Formulation:**

2 years from the date of manufacturing.

## **Dose Modification for Study Dose Toxicity:**

No case with continued irritation/ redness or any serious adverse effect was noticed during the treatment which could be attributed to the administration of drug so dose modification was not required.

## **Possible Drug Interactions:**

No known drug interaction information available.

**Drug Supply:** The investigator was supplied with samples marked with different colors on the vials to make differentiation between the two strengths used in the study.

## **Storage requirement:**

Store in cool & dry place at a temperature up to 25 C away from heat and light

## **Dispensing requirements:**

Use within 30 days after opening the vial.

## **Results & Discussion:**

## Phase-2 Clinical Trial Report of Nature Nuskha Day Care & Night Care Hair Therapy

## **VOLUNTEERS ENROLLED:**

| TOTAL VOLUNTEERS ENROLLED FOR PHASE-2 CLINICAL TRIAL OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY |     |  |
|--|-----|--|
| N Volunteers Enrolled  | 148 |  |
| N Dropouts   | 33  |  |
| Total Volunteers Completed the Trial   | 115 |  |

| TOTAL VOLUNTEERS COMPLETED THE TRIAL FOR PHASE-2 CLINICAL TRIAL OF NATURE NUSKHA DAY  CARE AND NIGHT CARE HAIR THERAPY |    |  |
|--|----|--|
| N Volunteers Group-1   | 38 |  |
| N Volunteers Group-2   | 38 |  |
| N Volunteers Group-3   | 39 |  |
| Total Volunteers Completed the Trial 115   |    |  |

| VOLUNTEERS ENROLLED FOR NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |    |
|--|----|
| N Volunteers Completed the Trial   | 38 |
| N Dropouts   | 10 |

| GENDER DATA OF NATURE NUSKHA DAY CARE AND NIGHT  CARE HAIR THERAPY (GROUP-1) |    |  |
|--|----|--|
| N volunteers   | 38 |  |
| Male   | 16 |  |
| Female   | 22 |  |

## GENDER DATA OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

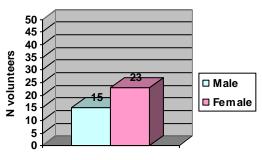


| □ Male   | 18 |
|----------|----|
| ■ Female | 21 |

| VOLUNTEERS ENROLLED FOR NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |    |  |
|---|----|--|
| N Volunteers Completed the Trial                                      | 38 |  |
| N Dropouts  | 12 |  |

#### **GENDER DATA OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)** N volunteers 38 Male 15 **Female** 23

## GENDER DATA OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)



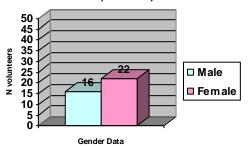
Gender Data

| □ Male   | 15 |
|----------|----|
| ■ Female | 23 |

| VOLUNTEERS ENROLLED FOR NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |    |  |
|---|----|--|
| N Volunteers Completed the Trial  | 39 |  |
| N Dropouts  | 11 |  |

#### **GENDER DATA OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)** N volunteers 39 Male 18 **Female** 21

## GENDER DATA OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)



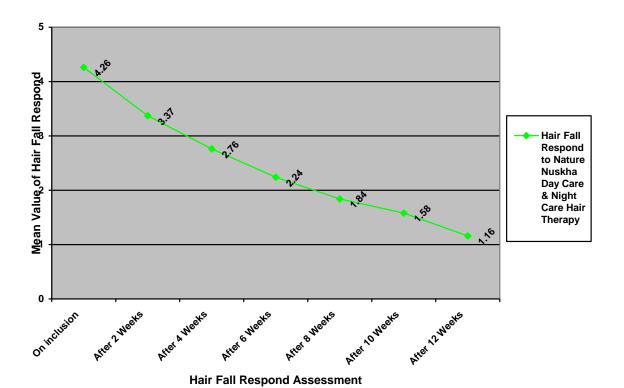
| □ Male   | 16 |
|----------|----|
| ■ Female | 22 |

## Primary End Point: Effect on Various Scalp Condition-

## PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

|                | 1. Hair Fall |       |           |           |           |       |       |  |  |
|----------------|--------------|-------|-----------|-----------|-----------|-------|-------|--|--|
|                |              | After |           |           |           | After | After |  |  |
| Identification | On           | 2nd   | After 4th | After 6th | After 8th | 10th  | 12th  |  |  |
| Number         | inclusion    | Week  | Week      | Week      | Week      | Week  | Week  |  |  |
| 1/10374        | 4            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 1/10327        | 5            | 4     | 3         | 2         | 2         | 1     | 1     |  |  |
| 4/4334         | 4            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/4446         | 5            | 5     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4459         | 4            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/4460         | 4            | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/4452         | 4            | 4     | 3         | 2         | 1         | 1     | 1     |  |  |
| 4/4461         | 4            | 4     | 3         | 2         | 1         | 1     | 1     |  |  |
| 4/4451         | 4            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 7/915          | 4            | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/4518         | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4490         | 4            | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/4822         | 5            | 4     | 4         | 4         | 4         | 4     | 3     |  |  |
| 4/4238         | 5            | 3     | 2         | 2         | 2         | 1     | 1     |  |  |
| 4/4830         | 4            | 3     | 2         | 2         | 2         | 1     | 1     |  |  |
| 4/4330         | 4            | 4     | 3         | 2         | 2         | 2     | 1     |  |  |
| 1/11117        | 5            | 4     | 4         | 3         | 3         | 2     | 1     |  |  |
| 4/5117         | 5            | 4     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/5233         | 5            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/5221         | 5            | 4     | 4         | 3         | 3         | 3     | 2     |  |  |
| 4/5289         | 5            | 3     | 3         | 2         | 2         | 1     | 1     |  |  |
| 4/5326         | 5            | 4     | 4         | 3         | 3         | 2     | 2     |  |  |
| 4/5313         | 3            | 2     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/5318         | 4            | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/5330         | 3            | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/5343         | 5            | 4     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/5342         | 3            | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/5341         | 3            | 2     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/5523         | 4            | 4     | 3         | 3         | 2         | 1     | 1     |  |  |
| 4/5694         | 5            | 4     | 4         | 3         | 2         | 2     | 1     |  |  |
| 4/84           | 3            | 2     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/458          | 5            | 4     | 4         | 3         | 3         | 2     | 1     |  |  |
| 4/497          | 3            | 3     | 2         | 2         | 2         | 1     | 1     |  |  |
| 4/558          | 5            | 4     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/684          | 4            | 3     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/770          | 4            | 3     | 3         | 3         | 2         | 2     | 2     |  |  |
| 4/830          | 5            | 4     | 4         | 3         | 3         | 2     | 2     |  |  |
| 4/925          | 5            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| Mean Value     | 4.26         | 3.37  | 2.76      | 2.24      | 1.84      | 1.58  | 1.16  |  |  |
| Std. Dev.      | 0.72         | 0.79  | 0.75      | 0.71      | 0.75      | 0.68  | 0.44  |  |  |

## Assessment of Hair Fall Respond to Nature Nuskha Day Care & **Night Care Hair Therapy (Group-1)**

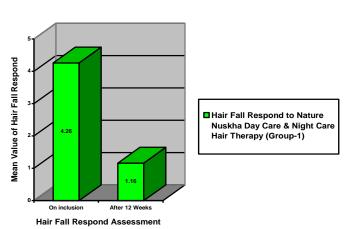


| PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |              |      |      |                      |     |  |  |  |  |
|--|--------------|------|------|----------------------|-----|--|--|--|--|
| Hair Fall Measures   | N volunteers | Mean | S.D. | Hair Fall Assessment |     |  |  |  |  |
| On inclusion   | 38           | 4.26 | 0.72 | Improvement by       | 3.1 |  |  |  |  |
|  |              |      |      |                      |     |  |  |  |  |

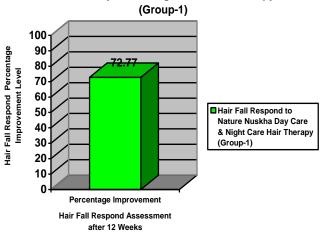
|              | (GROUP-1)   |                       |            |      |                      |       |  |  |  |  |
|--------------|-------------|-----------------------|------------|------|----------------------|-------|--|--|--|--|
| Hair Fall Me | asures      | N volunteers          | Mean       | S.D. | Hair Fall Assessment |       |  |  |  |  |
| On inclus    | sion        | 38                    | 4.26       | 0.72 | Improvement by       | 3.1   |  |  |  |  |
| After 12 W   | eeks        | 38                    | 1.16       | 0.44 | % Improvement        | 72.77 |  |  |  |  |
|              | t-value     | 22.64714681           |            |      |                      |       |  |  |  |  |
|              | P-value (as | compare to base line) | < 0.05 (S* | **)  |                      |       |  |  |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

#### Assessment of Hair Fall Respond to Nature Nuskha Day Care & Night Care Hair Therapy (Group-1)



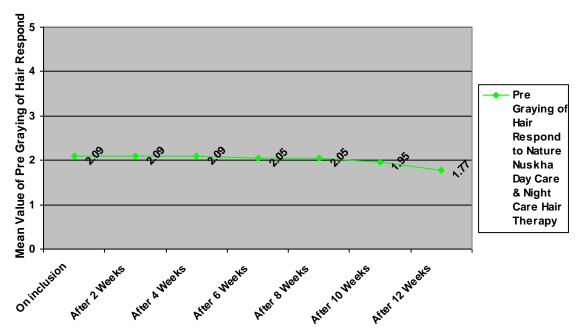
## Assessment of Hair Fall Respond to Nature Nuskha Day Care & Night Care Hair Therapy



## PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

|                | 2. Premature Graying of Hair |           |           |           |           |       |       |  |  |
|----------------|------------------------------|-----------|-----------|-----------|-----------|-------|-------|--|--|
|                |                              |           |           | •         |           | After | After |  |  |
| Identification | On                           | After 2nd | After 4th | After 6th | After 8th | 10th  | 12th  |  |  |
| Number         | inclusion                    | Week      | Week      | Week      | Week      | Week  | Week  |  |  |
| 1/10374        | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 1/10327        | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4334         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4446         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4459         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4460         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4452         | 2                            | 2         | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/4461         | 2                            | 2         | 2         | 2         | 2         | 1     | 1     |  |  |
| 4/4451         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 7/915          | 3                            | 3         | 3         | 2         | 2         | 2     | 2     |  |  |
| 4/4518         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/4490         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4822         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4238         | 2                            | 2         | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/4830         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/4330         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 1/11117        | 3                            | 3         | 3         | 3         | 3         | 3     | 3     |  |  |
| 4/5117         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/5233         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5221         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5289         | 3                            | 3         | 3         | 3         | 3         | 2     | 2     |  |  |
| 4/5326         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5313         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5318         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5330         | 3                            | 3         | 3         | 3         | 3         | 3     | 3     |  |  |
| 4/5343         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/5342         | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5341         | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/5523         | 1                            | 1         | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5694         | 3                            | 3         | 3         | 3         | 3         | 3     | 2     |  |  |
| 4/84           | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/458          | 1                            | 1         | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/497          | 2                            | 2         | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/558          | NA                           | NA        | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/684          | 1                            | 1         | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/770          | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/830          | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| 4/925          | 2                            | 2         | 2         | 2         | 2         | 2     | 2     |  |  |
| Mean Value     | 2.09                         | 2.09      | 2.09      | 2.05      | 2.05      | 1.95  | 1.77  |  |  |
| Std. Dev.      | 0.61                         | 0.61      | 0.61      | 0.58      | 0.58      | 0.58  | 0.61  |  |  |

# Assessment of Premature Graying of Hair Respond to Nature Nuskha Day Care & Night Care Hair Therapy (Group-1)

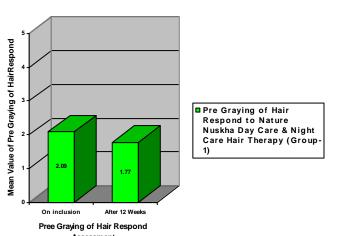


**Premature Graying of Hair Respond Assessment** 

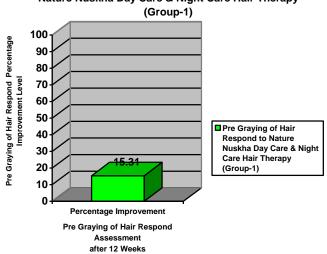
| PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |   |                   |             |      |                |       |  |  |
|--|---|-------------------|-------------|------|----------------|-------|--|--|
| Premature Graying  | Premature Graying Hair Measures N volunteers Mean S.D. Premature Graying of Hair Assessment |                   |             |      |                |       |  |  |
| On inclu   | sion  | 22                | 2.09        | 0.61 | Improvement by | 0.32  |  |  |
| After 12 V   | Veeks   | 22                | 1.77        | 0.61 | % Improvement  | 15.31 |  |  |
|  | t-value   | 1.739868742       |             |      |                |       |  |  |
|  | P-value (as comp  | are to base line) | > 0.05 (NS) |      |                |       |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

## Assessment of Pre Graying of Hair Respond to Nature Nuskha Day Care & Night Care Hair Therapy (Group-1)



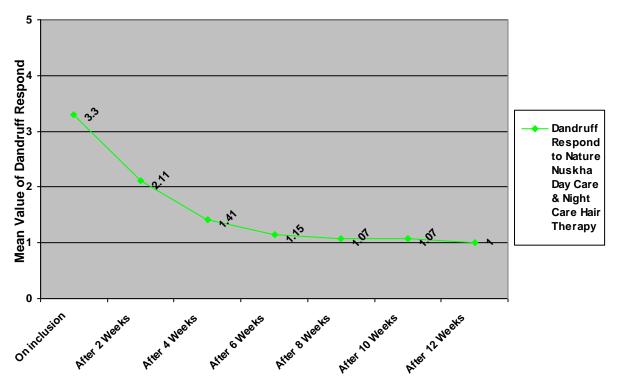
## Assessment of Pre Graying of Hair Respond to Nature Nuskha Day Care & Night Care Hair Therapy



## PRIMARY END POINT-DANDRUFF ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

|                | 3. Dandruff |       |           |           |           |       |       |  |  |
|----------------|-------------|-------|-----------|-----------|-----------|-------|-------|--|--|
|                |             | After |           |           |           | After | After |  |  |
| Identification | On          | 2nd   | After 4th | After 6th | After 8th | 10th  | 12th  |  |  |
| Number         | inclusion   | Week  | Week      | Week      | Week      | Week  | Week  |  |  |
| 1/10374        | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 1/10327        | 4           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4334         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4446         | 3           | 1     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4459         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4460         | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/4452         | 4           | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/4461         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4451         | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 7/915          | 4           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4518         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4490         | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/4822         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4238         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/4830         | NA          | NA    | NA        | NA        | NA        | NA    | NAD   |  |  |
| 4/4330         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 1/11117        | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/5117         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5233         | 3           | 2     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/5221         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5289         | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5326         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5313         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5318         | 3           | 1     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5330         | 4           | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/5343         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5342         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5341         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/5523         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |  |
| 4/5694         | 4           | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/84           | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/458          | 4           | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/497          | 3           | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/558          | 3           | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/684          | NA          | NA    | NA        | NA NA     | NA        | NA    | NA    |  |  |
| 4/770          | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/830          | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |  |
| 4/925          | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| Mean Value     | 3.30        | 2.11  | 1.41      | 1.15      | 1.07      | 1.07  | 1.00  |  |  |
| Std. Dev.      | 0.61        | 0.64  | 0.50      | 0.36      | 0.27      | 0.27  | 0.00  |  |  |

## Assessment of Dandruff Respond to Nature Nuskha Day Care & Night Care Hair Therapy (Group-1)

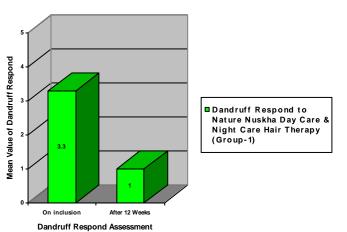


**Dandruff Respond Assessment** 

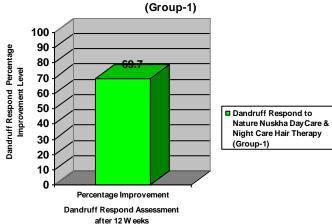
| PRIMARY END POINT-DANDRUFF OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |                |                      |               |      |                     |       |  |  |
|--|----------------|----------------------|---------------|------|---------------------|-------|--|--|
| Dandruff Mea   | asures         | N volunteers Mean S  |               |      | Dandruff Assessment |       |  |  |
| On inclus  | ion            | 27 3.3 0.            |               | 0.61 | Improvement by      | 2.3   |  |  |
| After 12 W   | eeks           | 27                   | 1             | 0    | % Improvement       | 69.70 |  |  |
|  | t-value        | 19.59205012          |               |      |                     |       |  |  |
|  | P-value (as co | ompare to base line) | < 0.05 (S***) |      |                     |       |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

#### Assessment of Dandruff Respond to Nature Nuskha Day Care & Night Care Hair Therapy (Group-1)



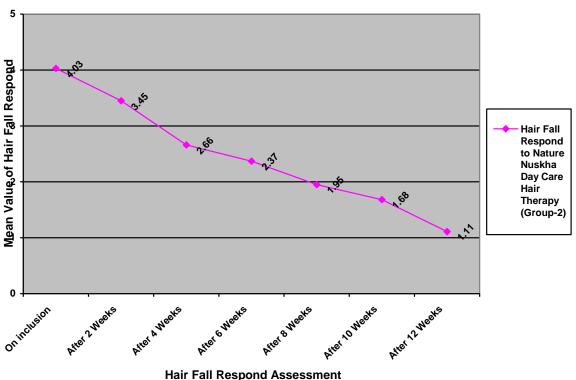
## Assessment of Dandruff Respond to Nature Nuskha Day Care & Night Care Hair Therapy



## PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

|                | 1. Hair Fall |       |           |           |           |       |       |  |  |
|----------------|--------------|-------|-----------|-----------|-----------|-------|-------|--|--|
|                |              | After |           |           |           | After | After |  |  |
| Identification | On           | 2nd   | After 4th | After 6th | After 8th | 10th  | 12th  |  |  |
| Number         | inclusion    | Week  | Week      | Week      | Week      | Week  | Week  |  |  |
| 1/10326        | 4            | 4     | 3         | 3         | 2         | 1     | 1     |  |  |
| 4/4489         | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4488         | 4            | 4     | 3         | 3         | 3         | 2     | 1     |  |  |
| 7/914          | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4495         | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4494         | 4            | 2     | 2         | 2         | 2         | 2     | 1     |  |  |
| 1/11752        | 4            | 3     | 2         | 1         | 1         | 1     | 1     |  |  |
| 1/11753        | 4            | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 1/11747        | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4503         | 4            | 4     | 3         | 3         | 3         | 2     | 1     |  |  |
| 4/4593         | 4            | 3     | 3         | 2         | 1         | 1     | 1     |  |  |
| 1/11817        | 5            | 4     | 3         | 2         | 2         | 1     | 1     |  |  |
| 1/11005        | 4            | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/4811         | 5            | 5     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4812         | 5            | 5     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/4810         | 4            | 3     | 2         | 2         | 2         | 1     | 1     |  |  |
| 1/11111        | 5            | 4     | 3         | 2         | 2         | 2     | 1     |  |  |
| 1/11108        | 5            | 4     | 3         | 3         | 2         | 2     | 2     |  |  |
| 4/4894         | 5            | 5     | 3         | 3         | 3         | 2     | 1     |  |  |
| 4/4899         | 5            | 4     | 3         | 3         | 3         | 2     | 2     |  |  |
| 4/4467         | 3            | 2     | 2         | 1         | 1         | 1     | 1     |  |  |
| 4/5292         | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/5330         | 4            | 3     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/5329         | 5            | 3     | 3         | 2         | 2         | 2     | 2     |  |  |
| 4/5320         | 3            | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/5403         | 3            | 2     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/5349         | 4            | 4     | 3         | 3         | 2         | 2     | 2     |  |  |
| 4/5491         | 4            | 3     | 3         | 2         | 2         | 2     | 1     |  |  |
| 4/5490         | 3            | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/5698         | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/273          | 3            | 3     | 2         | 2         | 2         | 2     | 1     |  |  |
| 4/395          | 4            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| 4/385          | 3            | 2     | 2         | 2         | 2         | 1     | 1     |  |  |
| 4/386          | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/606          | 4            | 3     | 3         | 2         | 2         | 1     | 1     |  |  |
| 4/705          | 4            | 4     | 3         | 3         | 2         | 2     | 1     |  |  |
| 4/845          | 4            | 3     | 3         | 2         | 2         | 1     | 1     |  |  |
| 4/857          | 3            | 3     | 2         | 2         | 1         | 1     | 1     |  |  |
| Mean Value     | 4.03         | 3.45  | 2.66      | 2.37      | 1.95      | 1.68  | 1.11  |  |  |
| Std. Dev.      | 0.64         | 0.83  | 0.48      | 0.63      | 0.52      | 0.47  | 0.31  |  |  |

## Assessment of Hair Fall Respond to Nature Nuskha Day Care **Hair Therapy (Group-2)**



| Hair Fall Re | spond Assessmen | ıt |
|--------------|-----------------|----|
|--------------|-----------------|----|

| PRIMAR      | PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |                       |   |      |               |       |  |  |  |  |
|-------------|---|-----------------------|---|------|---------------|-------|--|--|--|--|
| Hair Fall M | /leasures   | N volunteers          | N volunteers Mean S.D. Hair Fall Assessment |      |               |       |  |  |  |  |
| On incl     | lusion  | 38                    | 38 4.03 0.64                                |      |               | 2.92  |  |  |  |  |
| After 12    | Weeks   | 38                    | 1.11  | 0.31 | % Improvement | 72.46 |  |  |  |  |
|             | t-value   | 25.31209973           |   |      |               |       |  |  |  |  |
|             | P-value (as   | compare to base line) | < 0.05 (S***)                               |      |               |       |  |  |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

Assessment of Hair Fall Respond to Nature Nuskha Day Care Hair Therapy (Group-2)

## 100 90 80 70 60 50

## Hair Fall Respond Percentage Improvement Level ■ Hair Fall Respond to 40 Nature Nuskha Day Care 30 Hair Therapy (Group-2) 20 10

Percentage Improvement Hair Fall Respond Assessment after 12 weeks

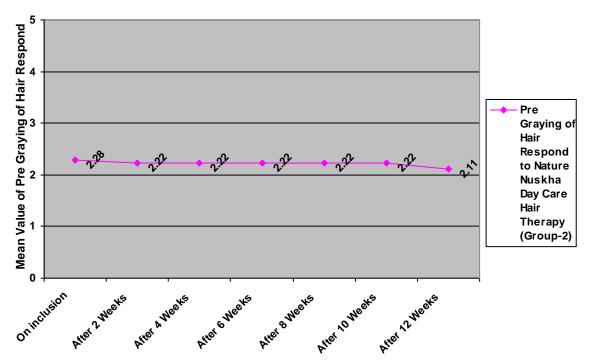
Assessment of Hair Fall Respond to Nature Nuskha Day Care Hair Therapy (Group-2)

Mean Value of Hair Fall Respond ■ Hair Fall Respond to Nature Nuskha Day Care Hair Therapy (Group-2) Hair Fall Respond Assessment

## PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

|                | 2. Premature Graying of Hair |       |           |           |           |      |      |  |  |
|----------------|------------------------------|-------|-----------|-----------|-----------|------|------|--|--|
|                |                              | After |           | After     |           |      |      |  |  |
| Identification | On                           | 2nd   | After 4th | After 6th | After 8th | 10th | 12th |  |  |
| Number         | inclusion                    | Week  | Week      | Week      | Week      | Week | Week |  |  |
| 1/10326        | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4489         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4488         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 7/914          | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/4495         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4494         | 2                            | 2     | 2         | 2         | 2         | 2    | 1    |  |  |
| 1/11752        | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 1/11753        | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 1/11747        | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4503         | 3                            | 3     | 3         | 3         | 3         | 3    | 3    |  |  |
| 4/4593         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 1/11817        | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 1/11005        | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4811         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4812         | 4                            | 4     | 4         | 4         | 4         | 4    | 3    |  |  |
| 4/4810         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 1/11111        | 1                            | 1     | 1         | 1         | 1         | 1    | 1    |  |  |
| 1/11108        | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/4894         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/4899         | 3                            | 3     | 3         | 3         | 3         | 3    | 3    |  |  |
| 4/4467         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/5292         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/5330         | 3                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/5329         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/5320         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/5403         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/5349         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/5491         | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/5490         | 3                            | 3     | 3         | 3         | 3         | 3    | 3    |  |  |
| 4/5698         | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/273          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/395          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/385          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/386          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/606          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/705          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| 4/845          | 2                            | 2     | 2         | 2         | 2         | 2    | 2    |  |  |
| 4/857          | NA                           | NA    | NA        | NA        | NA        | NA   | NA   |  |  |
| Mean Value     | 2.28                         | 2.22  | 2.22      | 2.22      | 2.22      | 2.22 | 2.11 |  |  |
| Std. Dev.      | 0.67                         | 0.65  | 0.65      | 0.65      | 0.65      | 0.65 | 0.58 |  |  |

## Assessment of Premature Graying of Hair Respond to Nature Nuskha Day Care Hair Therapy (Group-2)

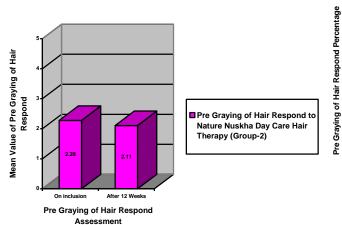


**Premature Graying of Hair Respond Assessment** 

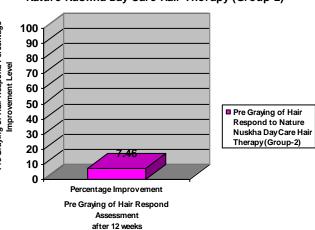
| PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |  |                   |             |      |                                      |      |  |  |
|---|--|-------------------|-------------|------|--------------------------------------|------|--|--|
| Premature Graying   | Premature Graying Hair Measures N volunteers |                   |             | S.D. | Premature Graying Hair of Assessment |      |  |  |
| On inclus   | sion   | 18                | 2.28        | 0.67 | Improvement by                       | 0.17 |  |  |
| After 12 W  | eeks eeks                                    | 18                | 2.11        | 0.58 | % Improvement                        | 7.46 |  |  |
|   | t-value                                      | 0.813893116       |             |      |                                      |      |  |  |
|   | P-value (as comp                             | are to base line) | > 0.05 (NS) | •    |                                      |      |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

#### Assessment of Pre Graying of Hair Respond to Nature Nuskha Day Care Hair Therapy (Group-2)



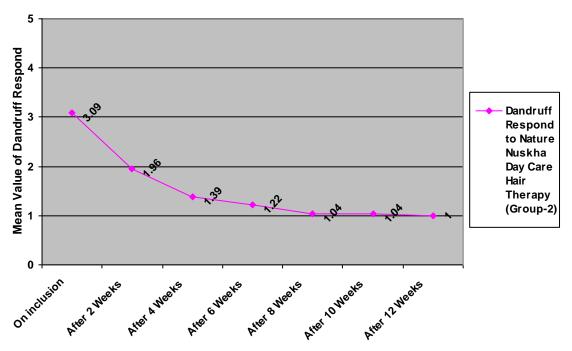
## Assessment of Pre Graying of Hair Respond to Nature Nuskha Day Care Hair Therapy (Group-2)



## PRIMARY END POINT-DANDRUFF ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

|                | 3. Dandruff |       |           |           |           |       |       |  |
|----------------|-------------|-------|-----------|-----------|-----------|-------|-------|--|
|                |             | After |           |           |           | After | After |  |
| Identification | On          | 2nd   | After 4th | After 6th | After 8th | 10th  | 12th  |  |
| Number         | inclusion   | Week  | Week      | Week      | Week      | Week  | Week  |  |
| 1/10326        | 4           | 2     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4489         | 3           | 2     | 2         | 1         | 1         | 1     | 1     |  |
| 4/4488         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 7/914          | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4495         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4494         | 3           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 1/11752        | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |
| 1/11753        | 4           | 2     | 1         | 1         | 1         | 1     | 1     |  |
| 1/11747        | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/4503         | 3           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4593         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 1/11817        | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 1/11005        | 4           | 3     | 2         | 2         | 1         | 1     | 1     |  |
| 4/4811         | 4           | 3     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4812         | 3           | 3     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4810         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 1/11111        | 3           | 2     | 2         | 2         | 2         | 2     | 1     |  |
| 1/11108        | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |
| 4/4894         | 3           | 2     | 1         | 1         | 1         | 1     | 1     |  |
| 4/4899         | 3           | 2     | 2         | 2         | 1         | 1     | 1     |  |
| 4/4467         | 3           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/5292         | 4           | 3     | 2         | 1         | 1         | 1     | 1     |  |
| 4/5330         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/5329         | 3           | 2     | 2         | 1         | 1         | 1     | 1     |  |
| 4/5320         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/5403         | 3           | 2     | 2         | 2         | 1         | 1     | 1     |  |
| 4/5349         | 3           | 3     | 2         | 2         | 1         | 1     | 1     |  |
| 4/5491         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/5490         | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/5698         | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/273          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/395          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/385          | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/386          | 2           | 1     | 1         | 1         | 1         | 1     | 1     |  |
| 4/606          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/705          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/845          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| 4/857          | NA          | NA    | NA        | NA        | NA        | NA    | NA    |  |
| Mean Value     | 3.09        | 1.96  | 1.39      | 1.22      | 1.04      | 1.04  | 1.00  |  |
| Std. Dev.      | 0.67        | 0.77  | 0.50      | 0.42      | 0.21      | 0.21  | 0.00  |  |

## **Assessment of Dandruff Respond to Nature Nuskha Day Care Hair Therapy (Group-2)**

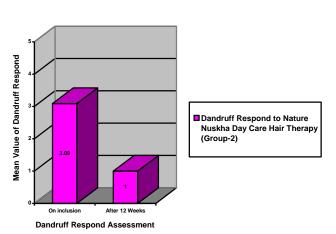


**Dandruff Respond Assessment** 

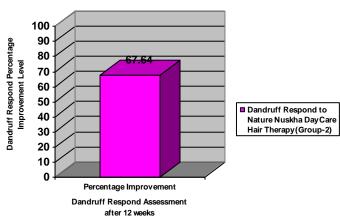
| PRIMARY END POINT-DANDRUFF ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |             |                       |              |               |                     |      |  |  |
|--|-------------|-----------------------|--------------|---------------|---------------------|------|--|--|
| Dandruff Mea   | asures      | N volunteers          | Mean         | S.D.          | Dandruff Assessment |      |  |  |
| On inclus  | ion         | 23                    | 23 3.09 0.67 |               | Improvement by      | 2.09 |  |  |
| After 12 Weeks 23  |             | 1                     | 0            | % Improvement | 67.64               |      |  |  |
|  | t-value     | 14.9613117            |              |               |                     |      |  |  |
|  | P-value (as | compare to base line) | < 0.05 (S**) |               |                     |      |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

#### Assessment of Dandruff Respond to Nature Nuskha Day Care Hair Therapy (Group-2)



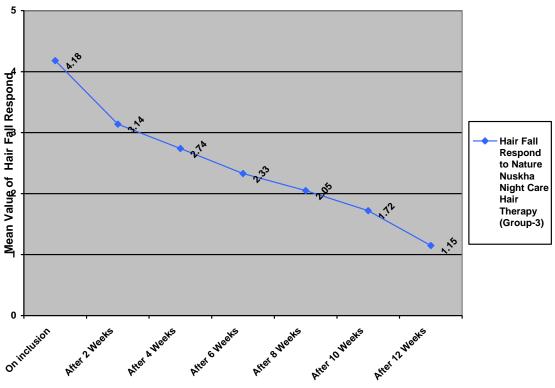
#### Assessment of Dandruff Respond to Nature Nuskha Day Care Hair Therapy (Group-2)



## PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

| Identification   Number   Inclusion   Ath   Week   Veal   In   Indinary   Indin |                | 1. Hair Fall |       |       |       |       |       |       |
|--|----------------|--------------|-------|-------|-------|-------|-------|-------|
| Number         inclusion         Week   |                |              | After | After | After | After | After | After |
| 1/10328       4       4       3       2       2       1       1         4/4349       4       4       3       3       2       2       1       1         7/913       4       3       3       2       2       1       1       1         4/4527       4       3       2       2       2       2       2       1       1         1/11746       4       4       3       3       3       2       2       1       1         4/4588       4       3       3       3       2       2       1       1         1/11007       4       3       2       2       2       1   | Identification | On           | 2nd   | 4th   | 6th   | 8th   | 10th  | 12th  |
| 4/4349       4       4       3       3       2       2       1         7/913       4       3       3       2       2       1       1         4/4527       4       3       2       2       2       2       1       1         1/11745       4       4       3       3       3       2       1       1         1/11746       4       4       3       3       3       2       2       1       1         4/4588       4       3       3       3       2       2       1       1         1/11003       5       4       3       3       2       2       1       1         1/11006       4       3       2       2       2       1       1       1         1/11109       5       4       3       3       2       2       1       1       1       1         1/11109       5       4       3       3       2       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td>Number</td> <td>inclusion</td> <td>Week</td> <td>Week</td> <td>Week</td> <td>Week</td> <td>Week</td> <td>Week</td>  | Number         | inclusion    | Week  | Week  | Week  | Week  | Week  | Week  |
| 7/913         4         3         3         2         2         1         1         1         4/4527         4         3         2         2         2         2         2         1   | 1/10328        |              |       |       |       |       |       | 1     |
| 4/4527         4         3         2         2         2         2         1           1/11745         4         4         3         3         2         1           1/11766         4         4         3         3         2         2         1           4/4588         4         3         3         2         2         1         1           4/4588         4         3         3         2         2         1         1           1/11007         4         3         2         2         2         1         1           1/11006         4         3         2         1         1         1         1         1           1/11109         5         4         3         2         1<  | 4/4349         | 4            | 4     |       |       |       | 2     | 1     |
| 1/11745       4       4       3       3       2       1         1/11746       4       4       3       3       2       2       1         4/4588       4       3       3       2       2       1       1         1/11003       5       4       3       3       2       2       1       1         1/11007       4       3       2       1   | 7/913          | 4            |       |       |       |       | 1     | 1     |
| 1/11746       4       4       3       3       2       2       1         4/4588       4       3       3       2       2       1       1         1/11003       5       4       3       3       2       2       1       1         1/11006       4       3       2       1       2       2       1       1       <   | 4/4527         | 4            | 3     | 2     | 2     | 2     | 2     | 1     |
| 4/4588       4       3       3       2       2       1       1         1/11003       5       4       3       3       2       2       1         1/11007       4       3       2       2       2       1       1         1/11006       4       3       2       1       1       1       1         1/11109       5       4       3       2       1       1       1       1         4/4828       4       3       2       1 <td< td=""><td>1/11745</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>2</td><td>1</td></td<>  | 1/11745        | 4            | 4     | 3     | 3     | 3     | 2     | 1     |
| 1/11003         5         4         3         3         2         2         1           1/11007         4         3         2         2         2         1         1           1/11006         4         3         2         1         1         1         1           1/11109         5         4         3         2         1         2         2         1 <td>1/11746</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>1</td>  | 1/11746        | 4            | 4     | 3     | 3     | 2     | 2     | 1     |
| 1/11007       4       3       2       2       2       1       1         1/11006       4       3       2       1       1       1       1         1/11109       5       4       3       2       1       1       1       1       1         1/11109       5       4       3       2       1  | 4/4588         | 4            | 3     |       | 2     | 2     | 1     | 1     |
| 1/11006       4       3       2       1       4       4/48828       4       3       2       2       2       1       1       1       1       1       1       1       1       1       1       4       4       4       3       3       3       2       2       2       1       1       1       1       1       1       1       1       4       4       4       3       <  | 1/11003        | 5            | 4     | 3     | 3     | 2     | 2     | 1     |
| 1/11109       5       4       3       3       2       2       1         4/4828       4       3       2       1       1       1       1         4/4827       5       4       3       2       2       1       1         4/5074       5       4       3       2       2       2       1         1/11203       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/4486       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1         4/5234       4       4       3       3       3       2       2       2       1         4/5285       5       4       4       3       3       3  | 1/11007        | 4            | 3     | 2     | 2     | 2     | 1     | 1     |
| 4/4828       4       3       2       1       1       1       1         4/4827       5       4       3       2       2       1       1         4/5074       5       4       3       2       2       2       1         1/11203       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/4486       3       3       2       2       2       1       1       1         4/4486       3       3       3       2       2       2       1       1         4/5234       4       4       3       3       3       2       2       1       1         4/5245       5       3       3       3       3       2       2       2       1         4/5285       5       4   | 1/11006        | 4            | 3     | 2     | 1     | 1     | 1     | 1     |
| 4/4827       5       4       3       2       2       1       1         4/5074       5       4       3       2       2       2       1         1/11203       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2       2       1         4/5110       5       3       2       2       2       2       1       1         4/4486       3       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1       1         4/5234       4       4       3       3       3       2       2       2       1         4/5285       5       4       4       3       3       3       2       2       2       1         4/5288   | 1/11109        | 5            | 4     | 3     | 3     | 2     | 2     | 1     |
| 4/5074         5         4         3         2         2         2         1           1/11203         3         3         3         2         2         2         1           4/5118         4         4         3         3         3         2         2         2         1           1/11206         5         3         2         2         2         2         1         1           4/4486         3         3         2         2         2         1         1         1           4/4487         3         3         3         2         2         2         1         1         1           4/5234         4         4         3         3         3         2         2         2         1         1         4/5234         4         4         3         3         3         2         2         2         1         1         4/5234         4         4         3         3         3         2         2         2         2         4         4         3         3         3         2         2         2         2         4         4         3   | 4/4828         | 4            | 3     | 2     | 1     | 1     | 1     | 1     |
| 1/11203       3       3       3       2       2       2       1         4/5118       4       4       3       3       3       2       2         1/11206       5       3       2       2       2       2       1         4/4486       3       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1       1         4/45234       4       4       3       3       3       2       2       2       1         4/5214       5       3       3       3       3       2       2       2         4/5285       5       4       4       3       3       3       2       2       2         4/5288       4       3       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1       1         4/53552       4       3       3       2  | 4/4827         | 5            | 4     | 3     | 2     | 2     | 1     | 1     |
| 4/5118       4       4       3       3       2       2         1/11206       5       3       2       2       2       2       1         4/4486       3       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1       1         4/45234       4       4       3       3       3       2       2       1         4/5214       5       3       3       3       3       2       2       2         4/5214       5       3       3       3       3       2       2       2         4/5285       5       4       4       3       3       3       2       2       2         4/5288       4       3       3       3       2       2       2       2         4/5288       4       3       3       2       2       2       1       1         4/5248       4       3       3       2       2       2       1       1         4/5253       4       3       3       2       2  | 4/5074         | 5            | 4     | 3     | 2     | 2     | 2     | 1     |
| 1/11206       5       3       2       2       2       2       1       1         4/4486       3       3       2       2       2       1       1       1         4/4487       3       3       3       2       2       2       1       1         4/5234       4       4       4       3       3       3       2       1         4/5214       5       3       3       3       3       2       2       2         4/5214       5       3       3       3       3       2       2       2         4/5285       5       4       4       3       3       2       2       2         4/5288       4       3       3       3       2       2       2       2         4/5288       4       3       3       2       2       2       2       2       2         4/5288       4       3       3       2       2       2       1       1       1         4/5342       5       3       2       2       2       2       1       1         4/54515       5  | 1/11203        | 3            | 3     | 3     | 2     | 2     | 2     | 1     |
| 4/4486       3       3       2       2       2       1       1         4/4487       3       3       3       2       2       2       1         4/5234       4       4       4       3       3       3       2       1         4/5214       5       3       3       3       3       2       2       2         4/5285       5       4       4       3       3       2       2       2         4/5288       4       3       3       3       2       2       2       2         4/5288       4       3       3       3       2       2       2       2         4/5288       4       3       3       2       2       2       1       1         4/5288       4       3       3       2       2       2       2       1         4/5288       4       3       3       2       2       2       1       1         4/5342       5       3       2       2       2       1       1         4/54515       5       4       3       3       2       2   | 4/5118         | 4            | 4     | 3     | 3     | 3     | 2     | 2     |
| 4/4487       3       3       3       2       2       2       1         4/5234       4       4       3       3       3       2       1         4/5214       5       3       3       3       3       2       2         4/5285       5       4       4       3       3       2       2         4/5288       4       3       3       3       2       2       2         4/5283       4       3       2       2       2       1       1         4/5243       4       3       2       2       2       1       1         4/5352       4       3       3       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       1         4/5722       4       3       2       2       1       1       1         4/4484       4       3       3  | 1/11206        | 5            | 3     | 2     | 2     | 2     | 2     | 1     |
| 4/5234       4       4       3       3       3       2       1         4/5214       5       3       3       3       3       2       2         4/5285       5       4       4       3       3       2       2         4/5288       4       3       3       2       2       2       2         4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1       1         4/5352       4       3       3       2       2       2       2       1         4/5415       5       4       3       2       2       2       1       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       1         4/5722       4       3       2       2       1       1       1         4/4484       4       3       3       2       2       2       1         4/462   | 4/4486         | 3            | 3     | 2     | 2     | 2     | 1     | 1     |
| 4/5214       5       3       3       3       3       2       2         4/5285       5       4       4       3       3       2       2         4/5288       4       3       3       3       2       2       2         4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1       1         4/5352       4       3       3       2       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       2       1         4/5516       4       4       3       3       3       2       1       1       1         4/448       4       4       3       3       2       2       1       1       1       1       1       1       1       1       1       1       1 <td>4/4487</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>1</td>  | 4/4487         | 3            | 3     | 3     | 2     | 2     | 2     | 1     |
| 4/5214       5       3       3       3       3       2       2         4/5285       5       4       4       3       3       2       2         4/5288       4       3       3       3       2       2       2         4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1       1         4/5352       4       3       3       2       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       2       1         4/5516       4       4       3       3       3       2       1       1       1         4/448       4       4       3       3       2       2       1       1       1       1         4/462       4       3       3       2 <t< td=""><td>4/5234</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>2</td><td>1</td></t<>  | 4/5234         | 4            | 4     | 3     | 3     | 3     | 2     | 1     |
| 4/5288       4       3       3       3       2       2       2         4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1         4/5352       4       3       3       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       2       1         4/5516       4       4       3       3       3       2       1       1       1         4/5722       4       3       2       2       1       1       1       1         4/448       4       4       3       3       2       2       1       1       1         4/454       4       3       3       2       2       2       1       1       1       1       1       1       1       1       1       1 <td></td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td>   |                | 5            | 3     | 3     | 3     | 3     | 2     | 2     |
| 4/5288       4       3       3       3       2       2       2         4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       1         4/5352       4       3       3       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       2       1         4/5586       5       4       4       3       3       3       2       2       1         4/5516       4       4       3       3       3       2       1       1       1         4/5722       4       3       2       2       1       1       1       1         4/448       4       4       3       3       2       2       1       1       1         4/454       4       3       3       2       2       2       1       1       1       1       1       1       1       1       1       1 <td>4/5285</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td>   | 4/5285         | 5            | 4     | 4     | 3     | 3     | 2     | 2     |
| 4/5253       4       3       2       2       2       1       1         4/5342       5       3       2       2       2       2       2       1         4/5352       4       3       3       2       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       1         4/5586       5       4       4       3       3       3       2       1         4/5516       4       4       3       3       3       2       1       1       1         4/5722       4       3       2       2       1       1       1       1         4/448       4       4       3       3       2       2       1       1       1         4/454       4       3       3       2       2       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1   |                | 4            | 3     | 3     | 3     | 2     | 2     | 2     |
| 4/5342     5     3     2     2     2     2     2     1       4/5352     4     3     3     2     2     2     1       4/5415     5     4     3     2     2     2     1       4/543     5     4     3     3     2     2     1       4/5586     5     4     4     3     3     3     2     1       4/5516     4     4     3     3     3     2     1       4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/464     4     3     2     2     2     1       4/462     4     3     3     2     2     2     1       4/711     3     2     2     1     1     1     1       4/895     5     4     3     3     2     2     2     1       1/555     4     3     3     2     2     2     1  |                | 4            |       |       |       |       |       |       |
| 4/5352       4       3       3       2       2       2       1         4/5415       5       4       3       2       2       2       1         4/543       5       4       3       3       2       2       1         4/5586       5       4       4       3       3       3       2       2       1         4/5516       4       4       3       3       3       2       1       1       1       1         4/5722       4       3       2       2       1 <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                | 5            |       |       |       |       |       |       |
| 4/5415     5     4     3     2     2     2     1       4/543     5     4     3     3     2     2     1       4/5586     5     4     4     3     3     3     2       4/5516     4     4     3     3     3     2     1       4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 4/543     5     4     3     3     2     2     1       4/5586     5     4     4     3     3     3     2       4/5516     4     4     3     3     3     2     1       4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2     1       1/555     4     3     3     2     2     2     1   |                |              |       |       |       |       |       |       |
| 4/5586     5     4     4     3     3     3     2       4/5516     4     4     3     3     3     2     1       4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2     1       1/555     4     3     3     2     2     2     1   |                |              |       |       |       |       |       |       |
| 4/5516     4     4     3     3     2     1       4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              | •     |       |       |       |       |       |
| 4/5722     4     3     2     2     1     1     1       4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1   |                |              | · ·   | -     |       |       |       |       |
| 4/448     4     4     3     3     2     2     1       4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 4/454     4     3     2     2     2     2     1       4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 4/462     4     3     3     2     2     2     1       1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 1/338     3     2     2     1     1     1     1       4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 4/711     3     2     2     2     1     1     1       4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 4/895     5     4     3     3     2     2     2       1/555     4     3     3     2     2     2     1  |                |              |       |       |       |       |       |       |
| 1/555 4 3 3 2 2 2 1  |                |              |       |       |       |       |       |       |
|  |                |              |       |       |       |       |       |       |
| 1 1/032 1 1 1 1 3 2 2 2 2 1 2 1 2  | 4/932          | 4            | 4     | 3     | 3     | 2     | 2     | 1     |
|  |                |              |       |       |       |       |       | 1.15  |
|  |                |              |       |       |       |       |       | 0.37  |

## Assessment of Hair Fall Respond to Nature Nuskha Night Care **Hair Therapy (Group-3)**



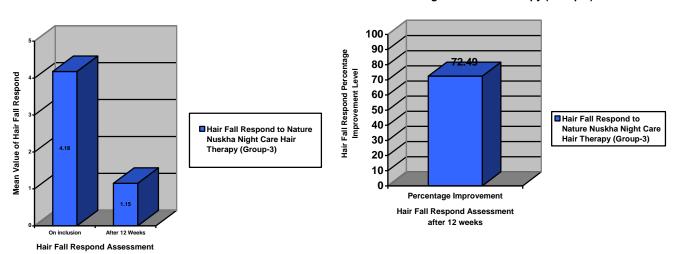
**Hair Fall Respond Assessment** 

| PRIMAR       | PRIMARY END POINT-HAIR FALL ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |                          |                                    |      |                |        |  |  |  |
|--------------|---|--------------------------|------------------------------------|------|----------------|--------|--|--|--|
| Hair Fall Me | easures   | N volunteers             | N volunteers Mean S.D.             |      |                | ssment |  |  |  |
| On inclu     | sion  | 39                       | 4.18                               | 0.64 | Improvement by | 3.03   |  |  |  |
| After 12 V   | Veeks 39  |                          | 1.15                               | 0.37 | % Improvement  | 72.49  |  |  |  |
|              | t-value   |                          | 25.59645661                        |      |                |        |  |  |  |
|              | P-value (a  | as compare to base line) | ompare to base line) < 0.05 (S***) |      |                |        |  |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

Assessment of Hair Fall Respond to Nature Nuskha Night Care Hair Therapy (Group-3)

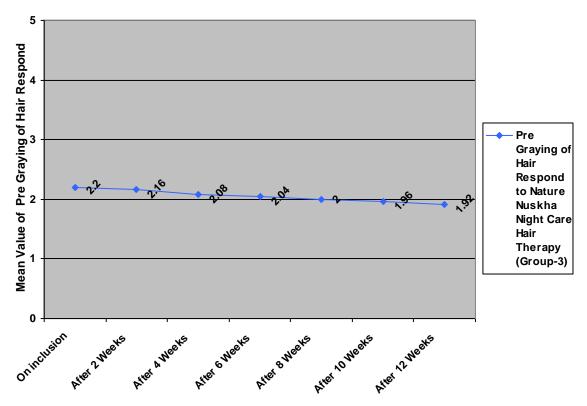
#### Assessment of Hair Fall Respond to Nature Nuskha Night Care Hair Therapy (Group-3)



## PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

|                | 2. Premature Graying of Hair |       |       |       |       |       |       |  |
|----------------|------------------------------|-------|-------|-------|-------|-------|-------|--|
|                |                              | After | After | After | After | After | After |  |
| Identification | On                           | 2nd   | 4th   | 6th   | 8th   | 10th  | 12th  |  |
| Number         | inclusion                    | Week  | Week  | Week  | Week  | Week  | Week  |  |
| 1/10328        | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/4349         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 7/913          | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/4527         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/11745        | 3                            | 3     | 3     | 3     | 3     | 3     | 2     |  |
| 1/11746        | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/4588         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/11003        | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/11007        | 4                            | 4     | 3     | 3     | 3     | 2     | 2     |  |
| 1/11006        | 4                            | 3     | 2     | 1     | 1     | 1     | 1     |  |
| 1/11109        | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/4828         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/4827         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/5074         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/11203        | 3                            | 3     | 3     | 3     | 2     | 2     | 2     |  |
| 4/5118         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 1/11206        | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/4486         | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/4487         | 3                            | 3     | 3     | 3     | 3     | 3     | 3     |  |
| 4/5234         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5214         | 1                            | 1     | 1     | 1     | 1     | 1     | 1     |  |
| 4/5285         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5288         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5253         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5342         | 3                            | 3     | 3     | 3     | 3     | 3     | 3     |  |
| 4/5352         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5415         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/543          | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/5586         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/5516         | 1                            | 1     | 1     | 1     | 1     | 1     | 1     |  |
| 4/5722         | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/448          | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/454          | 2                            | 2     | 2     | 2     | 2     | 2     | 2     |  |
| 4/462          | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/338          | NA                           | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 4/711          | 1                            | 1     | 1     | 1     | 1     | 1     | 1     |  |
| 4/895          | NA NA                        | NA    | NA    | NA    | NA    | NA    | NA    |  |
| 1/555          | 1                            | 1     | 1     | 1     | 1     | 1     | 1     |  |
| 4/932          | 3                            | 3     | 3     | 3     | 3     | 3     | 3     |  |
| Mean Value     | 2.20                         | 2.16  | 2.08  | 2.04  | 2.00  | 1.96  | 1.92  |  |
| Std. Dev.      | 0.82                         | 0.75  | 0.64  | 0.68  | 0.65  | 0.61  | 0.57  |  |

## Assessment of Premature Graying of Hair Respond to Nature Nuskha Night Care Hair Therapy (Group-3)



**Premature Graying of Hair Respond Assessment** 

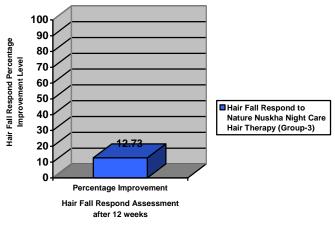
| PRIMARY END POINT-PREMATURE GRAYING OF HAIR ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |               |                      |             |                                      |                |       |  |  |
|---|---------------|----------------------|-------------|--------------------------------------|----------------|-------|--|--|
| Premature Graying Ha  | N volunteers  | Mean                 | S.D.        | Premature Graying Hair of Assessment |                |       |  |  |
| On inclusio   | n             | 25                   | 2.2         | 0.82                                 | Improvement by | 0.28  |  |  |
| After 12 Wee  | eks           | 25                   | 1.92        | 0.57                                 | % Improvement  | 12.73 |  |  |
|   | t-value       | 1.401893836          |             |                                      |                |       |  |  |
|   | P-value (as c | ompare to base line) | > 0.05 (NS) |                                      |                |       |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

#### Assessment of Pre Graying of Hair Respond to Nature Nuskha Night Care Hair Therapy (Group-3)

## Mean Value of Pre Graying of Hair Respond ■ Pre Graying of Hair Respond to Nature Nuskha Night Care Hair Therapy (Group-3) Pre Graying of Hair Respond

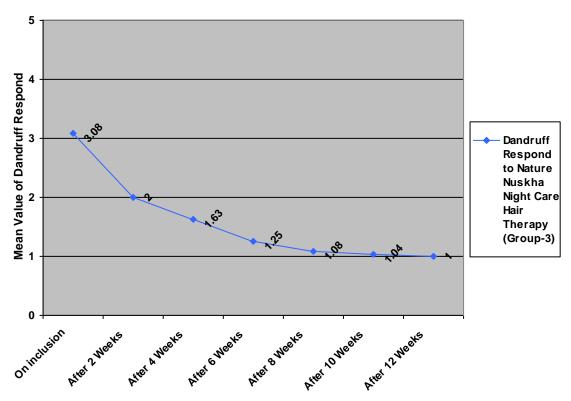
#### Assessment of Hair Fall Respond to Nature Nuskha Night Care Hair Therapy (Group-3)



## PRIMARY END POINT-DANDRUFF ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

|                |           |       | 3     | 3. Dandruff | 1     |       |       |
|----------------|-----------|-------|-------|-------------|-------|-------|-------|
|                |           | After | After | After       | After | After | After |
| Identification | On        | 2nd   | 4th   | 6th         | 8th   | 10th  | 12th  |
| Number         | inclusion | Week  | Week  | Week        | Week  | Week  | Week  |
| 1/10328        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/4349         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 7/913          | 3         | 2     | 2     | 1           | 1     | 1     | 1     |
| 4/4527         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 1/11745        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 1/11746        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/4588         | 4         | 2     | 1     | 1           | 1     | 1     | 1     |
| 1/11003        | 3         | 3     | 3     | 2           | 2     | 1     | 1     |
| 1/11007        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 1/11006        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 1/11109        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/4828         | 3         | 2     | 1     | 1           | 1     | 1     | 1     |
| 4/4827         | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/5074         | 5         | 3     | 2     | 1           | 1     | 1     | 1     |
| 1/11203        | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/5118         | 3         | 2     | 2     | 2           | 2     | 2     | 1     |
| 1/11206        | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/4486         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/4487         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/5234         | 3         | 2     | 1     | 1           | 1     | 1     | 1     |
| 4/5214         | 4         | 2     | 2     | 2           | 1     | 1     | 1     |
| 4/5285         | 3         | 2     | 2     | 2           | 1     | 1     | 1     |
| 4/5288         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/5253         | 4         | 2     | 2     | 1           | 1     | 1     | 1     |
| 4/5342         | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/5352         | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/5415         | 4         | 3     | 2     | 1           | 1     | 1     | 1     |
| 4/543          | 3         | 2     | 2     | 1           | 1     | 1     | 1     |
| 4/5586         | 4         | 3     | 3     | 2           | 1     | 1     | 1     |
| 4/5516         | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/5722         | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/448          | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/454          | 2         | 1     | 1     | 1           | 1     | 1     | 1     |
| 4/462          | 3         | 2     | 2     | 1           | 1     | 1     | 1     |
| 1/338          | NA        | NA    | NA    | NA          | NA    | NA    | NA    |
| 4/711          | 4         | 3     | 2     | 2           | 1     | 1     | 1     |
| 4/895          | 4         | 3     | 2     | 1           | 1     | 1     | 1     |
| 1/555          | 2         | 2     | 1     | 1           | 1     | 1     | 1     |
| 4/932          | 3         | 2     | 1     | 1           | 1     | 1     | 1     |
| Mean Value     | 3.08      | 2.00  | 1.63  | 1.25        | 1.08  | 1.04  | 1.00  |
| Std. Dev.      | 0.88      | 0.72  | 0.65  | 0.44        | 0.28  | 0.20  | 0.00  |

## **Assessment of Dandruff Respond to Nature Nuskha Night Care Hair Therapy (Group-3)**



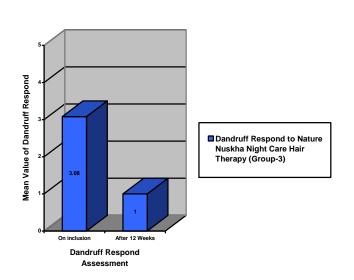
**Dandruff Respond Assessment** 

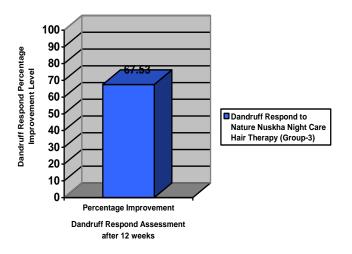
|            | PRIMARY END POINT-DANDRUFF ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |                       |             |      |                     |       |  |  |  |
|------------|--|-----------------------|-------------|------|---------------------|-------|--|--|--|
| Dandruff I | Measures   | N volunteers          | Mean        | S.D. | Dandruff Assessment |       |  |  |  |
| On inc     | lusion   | 24                    | 3.08        | 0.88 | Improvement by      | 2.08  |  |  |  |
| After 12   | After 12 Weeks 24  |                       | 1           | 0    | % Improvement       | 67.53 |  |  |  |
|            | t-value  |                       | _           |      |                     |       |  |  |  |
|            | P-value (as  | compare to base line) | < 0.05 (S*) |      |                     |       |  |  |  |

S = Significant (<0.05); NS = Not Significant (>0.05)

Assessment of Dandruff Respond to Nature Nuskha Night Care Hair Therapy (Group-3)

**Assessment of Dandruff Respond to Nature** Nuskha Night Care Hair Therapy (Group-3)





Secondary end Point: Visual Condition of Scalp with Hair Loss Assessment-

SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

|                       |              | Vis   | sual Condition    | on of Scalp       | with Hair Lo      | oss  |                    |
|-----------------------|--------------|---|-------------------|-------------------|-------------------|--|--------------------|
| Identification Number | On inclusion | After 2nd<br>Week   | After 4th<br>Week | After 6th<br>Week | After 8th<br>Week | After 10th<br>Week   | After 12th<br>Week |
| 1/10374               | 6            | NA  | •                 | NA                |                   | NA   |                    |
| 1/10327               |              | NA  | Marie I           | NA                |                   | NA   | 6                  |
| 4/4334                |              | NA  |                   | NA                | NA                |  |                    |
| 4/4446                |              |   |                   | NA                | NA                |  |                    |
| 4/4459                |              |   | NA                | NA                | NA                |  |                    |
| 4/4460                |              |   | NA                | NA                | NA                | Control of the Contro |                    |
| 4/4452                |              | NA  |                   | NA                | NA                |  |                    |
| 4/4461                |              | Complete State of the State of | NA                | NA                | NA                |  |                    |
| 4/4451                |              | NA  | NA                | NA                | NA                |  |                    |
| 7/915                 |              |   |                   |                   |                   |  |                    |
| 4/4518                |              | NA  |                   |                   | NA                | NA   |                    |
| 4/4490                |              |   |                   | NA                | NA                | NA   |                    |
| 4/4822                |              | NA  | NA                | NA                | NA                | NA   |                    |

| 4/4238  |     | NA |    |    |    |    |  |
|---------|-----|----|----|----|----|----|--|
| 4/4830  |     | NA |    | NA | NA | NA |  |
| 4/4330  |     | NA | NA |    | NA | NA |  |
| 1/11117 |     | NA | NA | NA | NA | NA |  |
| 4/5117  |     | NA | NA |    | NA | NA |  |
| 4/5233  |     | NA |    | NA | NA |    |  |
| 4/5221  | POP | NA | NA | NA | NA | NA |  |
| 4/5289  |     |    | NA | NA | NA |    |  |
| 4/5326  |     | NA | NA | NA | NA | NA |  |
| 4/5313  |     |    |    | NA |    |    |  |
| 4/5318  |     |    | 1  | -  |    | 1  |  |
| 4/5330  |     | NA |    | NA | NA | NA |  |
| 4/5343  |     | NA |    | NA | NA | NA |  |
| 4/5342  |     | NA |    | NA | NA | NA |  |

|                     | 931                 |             |                  |                |                 |              |       |
|---------------------|---------------------|-------------|------------------|----------------|-----------------|--------------|-------|
| 4/5341              |                     | NA          |                  | NA             | NA              | NA           | M     |
| 4/5523              |                     |             | NA               | NA             | NA              | NA           |       |
| 4/5694              |                     |             | NA               | NA             | NA              | NA           | A     |
| 4/84                |                     | NA          | NA               | NA             | NA              | NA           |       |
| 4/458               |                     |             | NA               |                | NA              |              |       |
| 4/497               |                     | NA          |                  | NA             | NA              | NA           |       |
| 4/558               |                     |             |                  |                |                 | NA           | 4     |
| 4/684               |                     | NA          | NA               | NA             |                 | NA           |       |
| 4/770               |                     |             | NA               | NA             | NA              | NA           |       |
| 4/830               |                     | NA          | NA               | NA             | NA              | NA           |       |
| 4/925               | <b>A</b>            |             |                  | NA             | NA              | NA           |       |
| Visual Assessment R | Result : Mark Chang | es has Occu | rred in Visual ( | Condition of S | alp with Hair l | oss after 12 | weeks |

| SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |                |  |  |  |  |  |  |
|---|----------------|--|--|--|--|--|--|
| N volunteers  | Measures       | Visual Condition of Scalp with Hair Loss |  |  |  |  |  |
| 48  | After 12 weeks | Mark Changes has Occurred                |  |  |  |  |  |

## SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

|                       |           | Vis        | sual Condition   | on of Scalp | with Hair Lo | oss        |            |
|-----------------------|-----------|------------|--|-------------|--------------|------------|------------|
| Li-re-r-N-            | On        | After 2nd  | After 4th  | After 6th   | After 8th    | After 10th | After 12th |
| Identification Number | inclusion | Week<br>NA | Week   | Week<br>NA  | Week         | Week<br>NA | Week       |
| 4/4489                |           |            | NA   | NA          | NA           | NA         |            |
| 4/4488                |           | NA         |  | NA          | NA           | NA         |            |
| 7/914                 |           | NA         |  | NA          | NA           | NA         |            |
| 4/4495                |           |            | NA   | NA          | NA           | NA         |            |
| 4/4494                |           |            | NA   | NA          | NA           | NA         |            |
| 1/11752               |           |            | NA   |             | NA           | NA         |            |
| 1/11753               |           |            | NA   | NA          | NA           |            |            |
| 1/11747               |           | NA         | The state of the s | NA          | NA           | NA         |            |
| 4/4503                |           | NA         |  | NA          | NA           |            |            |
| 4/4593                |           |            |  |             |              |            |            |
| 1/11817               |           |            | NA   | (1)         | NA           | NA         |            |
| 1/11005               |           | NA         |  | NA          | NA           | NA         |            |



|                       |                   |               |                 |                | 194            |               |        |
|-----------------------|-------------------|---------------|-----------------|----------------|----------------|---------------|--------|
| 4/5491                |                   | NA            | NA              |                | NA             | NA            |        |
| 4/5490                |                   | NA            | NA              |                |                | NA            |        |
| 4/5698                |                   | NA            | NA              | NA             | NA             | NA            |        |
| 4/273                 |                   | NA            | NA              | NA             |                | NA            |        |
| 4/395                 |                   | NA            | NA              | NA             | NA             | NA            |        |
| 4/385                 |                   |               |                 |                | NA             |               |        |
| 4/386                 |                   | NA            | NA              | NA             | NA             | NA            |        |
| 4/606                 |                   | NA            | NA              | NA             | NA             | NA            |        |
| 4/705                 |                   |               |                 |                |                | NA            |        |
| 4/845                 |                   | NA            | NA              | NA             | NA             | NA            | Page 1 |
| 4/857                 |                   |               |                 | NA             | NA             | NA            |        |
| Visual Assessment Res | ult : Simple Char | nges has Occi | urred in Visual | Condition of S | calp with Hair | Loss after 12 | weeks  |

| SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |                |  |  |  |
|--|----------------|--|--|--|
| N volunteers   | Measures       | Visual Condition of Scalp with Hair Loss |  |  |
| 48   | After 12 weeks | Simple Changes has Occurred              |  |  |

## SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

|                       |              | Vis               | sual Conditi      | on of Scalp       | with Hair Lo      | oss                |                    |
|-----------------------|--------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Identification Number | On inclusion | After 2nd<br>Week | After 4th<br>Week | After 6th<br>Week | After 8th<br>Week | After 10th<br>Week | After 12th<br>Week |
| 1/10328               |              | NA                | •                 | NA                |                   | NA                 |                    |
| 4/4349                |              | NA                | 6                 | NA                |                   | NA                 |                    |
| 7/913                 |              |                   | NA                | NA                | NA                | NA                 |                    |
| 4/4527                |              | NA                |                   | NA                | NA                | NA                 |                    |
| 1/11745               |              | NA                |                   | NA                | NA                | NA                 |                    |
| 1/11746               |              |                   | NA                | NA                | NA                | NA                 |                    |
| 4/4588                |              |                   |                   | NA                |                   | NA                 |                    |
| 1/11003               | (Miles)      | NA                |                   | NA                | NA                | NA                 |                    |
| 1/11007               |              | NA                |                   | NA                | NA                |                    |                    |
| 1/11006               |              |                   | NA                |                   | NA                |                    |                    |
| 1/11109               |              | NA                |                   | NA                | NA                | NA                 |                    |
| 4/4828                |              |                   | NA                |                   | NA                | NA                 |                    |
| 4/4827                |              |                   |                   |                   | NA                | NA                 |                    |

|         | 200 |    |    |    |    |    | La Taranta de la Caracteria de la Caract |
|---------|-----|----|----|----|----|----|--|
| 4/5074  |     | NA | NA |    | NA | NA |  |
| 1/11203 |     | NA | NA |    |    | NA |  |
| 4/5118  |     | NA | NA | NA | NA | NA |  |
| 1/11206 |     |    | NA |    |    | NA |  |
| 4/4486  |     | NA | NA | NA | NA |    |  |
| 4/4487  |     | NA | NA | NA | NA | NA |  |
| 4/5234  |     | NA |    | NA |    | NA |  |
| 4/5214  |     |    |    | NA | NA | NA |  |
| 4/5285  |     | NA | NA | NA |    | NA |  |
| 4/5288  |     |    | NA | NA | NA | NA |  |
| 4/5253  |     |    |    | NA | NA | NA |  |
| 4/5342  |     |    |    |    | NA |    |  |
| 4/5352  |     |    | NA | NA | NA | NA |  |
| 4/5415  |     | NA |    |    | NA |    |  |

| 70                      | 6                |             |                 |                 |               |                  |         |
|-------------------------|------------------|-------------|-----------------|-----------------|---------------|------------------|---------|
| 4/543                   |                  | NA          |                 | NA              | NA            | NA               |         |
| 4/5586                  |                  | NA          | NA              | NA              |               | NA               |         |
| 4/5516                  |                  | NA          |                 | NA              | NA            | NA               | AND .   |
| 4/5722                  |                  |             |                 | NA              |               |                  | (App.)  |
| 4/448                   |                  | NA          | NA              | NA              | NA            | NA               |         |
| 4/454                   |                  |             |                 | NA              |               | NA               |         |
| 4/462                   |                  | NA          | NA              | NA              | NA            | NA               |         |
| 1/338                   |                  | NA          | NA              | NA              | NA            | NA               |         |
| 4/711                   |                  | NA          |                 | NA              | NA            | NA               |         |
| 4/895                   |                  |             | NA              | NA              | NA            | NA               |         |
| 1/555                   |                  | NA          |                 | NA              | NA            | NA               |         |
| 4/932                   |                  | NA          | NA              | NA              | NA            | NA               |         |
| Visual Assessment Resul | t : Moderate Cha | nges has Oc | curred in Visua | al Condition of | Scalp with Ha | ir Loss after 12 | 2 weeks |

| SECONDERY END POINT- ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |                |  |  |  |
|--|----------------|--|--|--|
| N volunteers   | Measures       | Visual Condition of Scalp with Hair Loss |  |  |
| 49   | After 12 weeks | Moderate Changes has Occurred            |  |  |

## Safety Assessment:

## AFETY ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

| SAFETY ASSESSMENT OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |              |                |  |  |
|---|--------------|----------------|--|--|
| Mean value (Std. Dev.)   Mean value (Std. Dev.)                                   |              |                |  |  |
| Safety Parameters   | On inclusion | After 12 weeks |  |  |
| N volunteers  | 48           | 48             |  |  |
| Hb% (gm/dl)   | 11.2 (1.2)   | 11.5 (1.1)     |  |  |
| ESR (mm 1 <sup>st</sup> hr.)  | 12.2 (6.3)   | 12.0 (5.5)     |  |  |
| Blood Sugar- R (mg/dl)  | 102.5 (16.1) | 101.2 (11.3)   |  |  |
| Blood Urea (mg/dl)  | 28.9 (4.8)   | 30.0 (3.5)     |  |  |
| S. Bilirubin (mg/dl)  | 0.7 (0.2)    | 0.6 (0.1)      |  |  |
| URINE R/M   | NAD          | NAD            |  |  |

## SAFETY ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

| OOLOOMILITY OF HATTE                             | THE INCOMMENT BATT CALL | = 117 art 1111=117 ar 1   Orto |  |  |  |
|--|-------------------------|--------------------------------|--|--|--|
| SAFETY ASSESSMENT OF NATURE NUSKHA DAY CARE HAIR |                         |                                |  |  |  |
| THERAPY (GROUP-2)                                |                         |                                |  |  |  |
| Mean value (Std. Dev.) Mean value (Std. Dev.)    |                         |                                |  |  |  |
| Safety Parameters                                | On inclusion            | After 12 weeks                 |  |  |  |
| N volunteers                                     | 48                      | 48                             |  |  |  |
| Hb% (gm/dl)                                      | 11.2 (0.9)              | 11.3 (1.0)                     |  |  |  |
| ESR (mm 1 <sup>st</sup> hr.)                     | 11.6 (5.0)              | 10.8 (4.1)                     |  |  |  |
| Blood Sugar- R (mg/dl)                           | 102.9 (14.6)            | 100.9 (11.7)                   |  |  |  |
| Blood Urea (mg/dl)                               | 27.8 (5.5)              | 29.0 (3.8)                     |  |  |  |
| S. Bilirubin (mg/dl)                             | 0.7 (0.2)               | 0.6 (0.1)                      |  |  |  |
| URINE R/M  | NAD                     | NAD                            |  |  |  |

## SAFETY ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

| SAFETY ASSESSMENT OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3) |                        |                        |  |  |  |
|--|------------------------|------------------------|--|--|--|
| Safety Parameters  | Mean value (Std. Dev.) | Mean value (Std. Dev.) |  |  |  |
| Salety Farameters  | On inclusion           | After 12 weeks         |  |  |  |
| N volunteers   | 49                     | 49                     |  |  |  |
| Hb% (gm/dl)  | 11.5 (0.9)             | 11.8 (0.7)             |  |  |  |
| ESR (mm 1 <sup>st</sup> hr.)   | 11.1 (5.5)             | 10.1 (3.5)             |  |  |  |
| Blood Sugar- R (mg/dl)   | 99.8 (13.6)            | 104.7 (13.3)           |  |  |  |
| Blood Urea (mg/dl)   | 28.2 (5.0)             | 30.2 (4.1)             |  |  |  |
| S. Bilirubin (mg/dl)   | 0.7 (0.1)              | 0.7 (0.1)              |  |  |  |
| URINE R/M  | NAD                    | NAD                    |  |  |  |

## **Safety Events:**

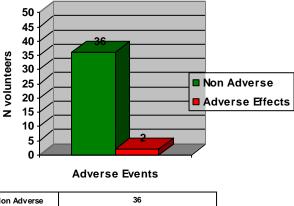
On the basis of statistical analysis of Safety Parameters there is no change in Blood & Urine values after 12 weeks duration of clinical trial. Therefore Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit is safe to used for long time.

## Adverse Events:

## ADVERSE EVENTS OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1)

| ADVERSE EVENTS OF NATURE NUSKHA DAY CARE AND NIGHT CARE HAIR THERAPY (GROUP-1) |    |  |
|--|----|--|
| N volunteers   | 38 |  |
| Non Adverse  | 36 |  |
| Adverse Affects  | 2  |  |

ADVERSE EVENTS OF NATURE NUSKHA DAY CARE & NIGHT CARE HAIR THERAPY (GROUP-1)

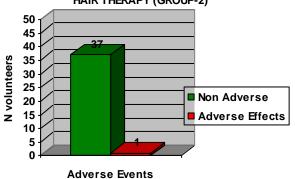


| ■ Non Adverse   | 36 |
|-----------------|----|
| Adverse Effects | 2  |

## ADVERSE EVENTS OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

| ADVERSE EVENTS OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2) |    |  |
|---|----|--|
| N volunteers  | 38 |  |
| Non Adverse   | 37 |  |
| Adverse Affects   | 1  |  |

## ADVERSE EVENTS OF NATURE NUSKHA DAY CARE HAIR THERAPY (GROUP-2)

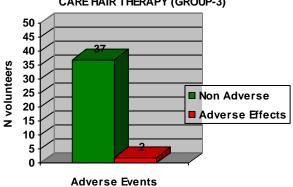


| ■ Non Adverse | 37 |
|---------------|----|
| ■ Adverse     | 1  |
| Effects       |    |

## ADVERSE EVENTS OF NATURE NUSKHA NIGHT CARE HAIR THERAPY (GROUP-3)

| ADVERSE EVENTS OF NATURE NUSKHA NIGHT CARE<br>HAIR THERAPY (GROUP-3) |    |  |
|--|----|--|
| N volunteers   | 39 |  |
| Non Adverse  | 37 |  |
| Adverse Affects  | 2  |  |

## ADVERSE EVENTS OF NATURE NUSKHA NIGHT **CARE HAIR THERAPY (GROUP-3)**



| ■ Non Adverse     | 37 |
|-------------------|----|
| ■ Adverse Effects | 2  |

## **Adverse Events:**

## No serious adverse effect was either observed or reported during the entire clinical trial.

Two out of 38 subjects who completed the study in group-1 subjected Combination Scalp Treatment with Herbal Hair Tonic Nature Nuskha Day Therapy and Night Therapy Kit (G-1) reported boils on forehead, which lasted for about a week and did not require any treatment and subsided of its own.

One out of 38 subjects who completed the study in group-2 subjected Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Day Therapy (G-2) reported boils on forehead, which lasted for about a week and did not require any treatment and subsided of its own

Two subjects out of 39 who completed the study in group-3 subjected Single Scalp Treatment study with Herbal Hair Tonic Nature Nuskha Night Therapy (G-3) reported boils on forehead, which lasted for about a week and did not require any treatment and subsided of its own.

## **Conclusion:**

All the three group trial of Herbal Hair Tonic Nature Nuskha Day Care and Night Care Hair Therapy were well tolerated. A few subjects complained of mild boils on forehead which lasted for about a week and which subsided of its own without requiring any medication.

Response of group trial of Herbal Hair Tonic Nature Nuskha Day Care and Night Care Hair Therapy in Improving in Hair Fall, Premature Graying of Hair and Dandruff from the base level of Scalp Condition by tested therapy in subjects having Various Scalp Condition after 12 weeks has been summarized in the following table:

| Nature Nuskha Hair Therapy<br>Trial Group | Hair Fall On<br>Inclusion (Average) | Hair Fall After 12<br>Weeks (Average) | Percentage<br>Improvement |
|---|-------------------------------------|---------------------------------------|---------------------------|
| Nature Nuskha Day Care & Night            |                                     | 1.16                                  | 72.77                     |
| Care Hair Therapy Group-1                 |                                     | -1.50                                 | . =                       |
| Nature Nuskha Day Care Hair               | 4.03                                | 1.11                                  | 72.46                     |
| Therapy Group-2                           |                                     |                                       |                           |
| Nature Nuskha Night Care Hair             | 4.18                                | 1.15                                  | 72.49                     |
| Therapy Group-3                           |                                     |                                       |                           |

| Nature Nuskha Hair Therapy     | Dandruff On         | Dandruff After 12 | Percentage  |
|--------------------------------|---------------------|-------------------|-------------|
| Trial Group                    | Inclusion (Average) | Weeks (Average)   | Improvement |
| Nature Nuskha Day Care & Night | 3.30                | 1.00              | 69.70       |
| Care Hair Therapy Group-1      |                     |                   |             |
| Nature Nuskha Day Care Hair    | 3.09                | 1.00              | 67.64       |
| Therapy Group-2                |                     |                   |             |
| Nature Nuskha Night Care Hair  | 3.08                | 1.00              | 67.53       |
| Therapy Group-3                |                     |                   |             |

So it can be concluded that Herbal Hair Tonic Nature Nuskha Day Care and Night Care Hair Therapy has been well tolerated after 12 weeks of administration and is able to reduced Hair Fall & Dandruff in subjects suffering from Various Scalp Condition and may be taken up for said clinical therapy.

#### ETHICAL CONSIDERATION

## **Basic Principles:**

The research was carried out in accordance with the Basic Principles defined in the ICH' Guidance for Good Clinical Practice' and the principles enunciated in the Declaration of Helsinki which states that "The health of my patient will be my first consideration," and the International Code of Medical Ethics declares that, "A physician shall act only in the patient's interest when providing medical care which might have the effect of weakening the physical and mental condition of the patient."

## **Independent Ethics Committee (IEC):**

This protocol and the corresponding informed consent forms (ICFs including both English and Hindi) used to obtain informed consent of study objects were reviewed by IEC and the study subjects were not dosed till the IEC approved the protocol and the ICF, as submitted or with modifications. The committee is constituted and operates in accordance with the principles and requirements described in the US code of Federal Regulations (21CFR Part 56)/Schedule Y,2005 and ICMR guidelines,2000(Ethical guidelines for biomedical research on human subjects)

#### **Informed Consent:**

The clinical investigator and his designate informed the subjects before the initiation of study through an oral presentation regarding the purpose, procedures to be carried out, potential hazards and the rights of subjects. Subjects were made to understand and sign a consent form summarizing the discussion prior to admission for the study in Period .A copy of the informed consent statement is being provided in the final report.

## **Drop-out/Withdrawal of Subjects from the Study:**

The subjects were informed that they would be free to drop out from the study at any time without stating any reason. The investigator was authorized to drop any subject from the study for any of the following reasons:

- 1) The subject suffers from significant inter-current illness or undergoes surgery during the course of the study.
- 2) The subject failed to comply with the requirements of the protocol. This includes pre-study directions regarding drug use or if the subject in uncooperative during the study.

33 volunteer dropped from the study did not come for the follow up as advised without giving any reason.

## **Medical Treatment for Injury:**

There was no study related injury reported and hence no treatment required.

## **BENEFITS:**

Since the drug is herbal in nature and the various herbal ingredients used in the formulation have been used in the treatment of various scalp condition hair related ailments in Ayurveda for a long time, the probability of its being safe for long term use are high. The majority of the presently used drugs to treat Hair Fall, Premature Graying of Hair & Dandruff are associated with a number of side effects. So if this herbal drug is found to be effective in the long term, it will be major breakthrough in the treatment of this disease.

## **NEW FINDINGS:**

Any new and important information discovered during the study may influence the treatment modalities available for the management of various scalps condition viz. Hair Fall, Premature Graying of Hair & Dandruff.

## **ALTERNATIVE TREATMENT:**

Since this study is for research only and a number of drugs are available for the treatment of various scalps condition viz. Hair Fall, Premature Graying of Hair & Dandruff.

## FINANCIAL COMPENSATION:

As no adverse side effect was reported, no compensation on drug related adverse effect treatment was required.

## **DATA MANAGEMENT**

## **Study Documentation:**

All data generated during the conduct of the study was directly entered in the raw data recording forms. All raw data and the transcribed data forms were completed by the study personnel assisting the study and checked wherever applicable for the completeness and the logistics by the clinical investigator or the designated study coordinator for the data. The clinical investigator and the coordinator supervised compilation of data until ready for archiving.

## **Supplementary Documentation:**

The final report includes a sample of the protocol, informed consent form along with translated copies, a copy of IEC approval, randomization schedule, and the clinical raw data consisting of medical history, physical examination and the clinical laboratory case records, adverse reaction documentation and the actual time of dosing

## **Quality Assurance Audits:**

The raw data generated during the course of the study, including the clinical and analytical operations and the final reports is liable for inspection and quality audit for confirmation according to the approved protocol and all the governing SOPs by an auditor from Quality Assurance unit of PEPL.

## **Accessibility:**

Accessibility of the raw data will be limited to IEC, sponsor and the regulatory agencies for scheduled monitoring inspection and audits.

## **Confidentiality of Data:**

The data identifying each study subjects by name will be kept confidential and will be accessible to the study personnel, Quality Assurance Auditor during audits and if necessary, to the IEC and various regulatory agencies.

## **Achieves:**

A representative sample of the drug supplies used in the study will be retained at PEPL, clinical section. All data generated in connection with this study, together with the original copy of this protocol and the final report will be archived at PEPL.

## **Publication Policy:**

Publication of the results of the study, whether in whole or part, shall be within the sole and absolute discretion of the sponsor i.e. Promed Exports Pvt Limited. In the publication subject's identity will not be revealed.

## **Deviations:**

There was no deviation in the protocol.

## **Sponsor's Study Monitor:**

Dr. Arvind Macchar, Head, IQGEN-X Pharma Pvt. Ltd. Navi Mumbai. INDIA was sponsor's monitor of the study.

## **Termination of the Study:**

As no adverse drug related event was not reported, the study completed its schedule.

## **Study Monitoring and Supervision:**

The study was monitored under the supervision of Dr Santosh Kumar Principal Investigator, and by Dr Atul Kumar, Co-investigator of the study.

A representative sample of the drug used in the study is being retained at PEPL. All data generated in connection with this study, together with the original copy of this protocol and the final report will be archived at PEPL.

## **Investigational Product Management:**

a. The following information was provided on the label.

Name of the product: Nature Nuskha Day Care – Herbal Extract Content-90 ml

Product code No.:IO025(India) B.N.:---- (005)07

Name of the product: Nature Nuskha Night Care – Oil Extract Content-90 ml

Product code No.: IQ024(India) B.N.:---- (005)06

Mfg.Date -----April 2018 Exp.Date -----May 2020

SAMPLE FOR RESEARCH TRIALS ONLY

Mfd.By: IQGEN-X Pharma Pvt. Ltd. Navi Mumbai. INDIA

Dose: 2-3 ml applied on the scalp twice, Nature Nuskha Day Therapy in the Morning b. after bath and Night Therapy at Night before sleep respectively.

- The investigator was supplied with the coded samples of drugs having the same number c. as that of the patient.
- All odd randomized numbers received the drug and the even number received. d.
- e. Storage conditions for study substances: Store at a temperature up to 25 C away from heat and light. Do not refrigerate.
- f. Investigational Product Accountability: (i) Vials containing Drug were assigned numbers according to the randomized table and a record of all such randomized vials is kept at GEN-X Pharma Pvt. Ltd. Navi Mumbai. INDIA by Dr. Arvind Macchar.(ii) depending upon the requirement a lot of 300 vials be sent. (iii) It was received by the Investigator and entered in the register/stock book (iv) On the instructions of the ophthalmologist/investigator the patient were issued the vials and its number recorded on the CRF. (v) In the register the Patients name /the code number were recorded. (v) Every time the patient visits he was given the same number of vial having the same number and the earlier vials were recovered from him. (vi) The vials will be stored at a temperature up to 25 C away from heat and light in the cupboard.
- After the completion of the study all the unused vials were taken back from the g. investigation centre and brought back at The GEN-X Pharma Pvt. Ltd. Navi Mumbai. INDIA and their random and total number will be recorded by Dr Santosh Kumar. The vials were opened and contents thrown and the plastic containers were destroyed by cutting in the presence of Dr Santosh Kumar and entered in the register and signed by him.

## **Data analysis:**

At least 30 patients are required in one group to provide statistically significant interpretation so the number of patients in each group i.e. treatment has been kept at 30.

## **Undertaking by the investigator:**

## **Appendices:**

Provide a study synopsis, copies of informed documents (patient information sheet, informed consent form etc.); CRF and other data collection forms; a summary of relevant pre-clinical safety information and any other document referenced in the clinical protocol.

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