





# NUTRA GRACE

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Liquid-Filled HPMC Capsules	Soft-Gelatin Capsules	Liquid-Filled Hard Gelatin Capsules	Soft-Gelatin Capsules
			
Free from Plasticisers	Contains Plasticisers	Free from Plasticisers	Contains Plasticisers
Free from Preservatives	Contains Preservatives	Free from Preservatives	Contains Preservatives
Free from Glycerol	Contains Glycerol	Free from Glycerol	Contains Glycerol
Free from Propylene Glycol	Contains Propylene Glycol	Free from Propylene Glycol	Contains Propylene Glycol
Free from Starch	Contains Starch	Free from Residual Solvents	Contains Residual Solvents
Free from Gluten	Contains Gluten	Very Low	Contains High Moisture
Free from Residual Solvents	Contains Residual Solvents	Not Possible	Gas Exchange Possible
Very Low	Contains High Moisture	Highly Stable	Less Stable
Not possible	Gas Exchange Possible	Fast Disintegration	Slow Disintegration
High Stable	Less Stable		
Fast Disintegration	Slow Disintegration		

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# B C CAPS

(FOR VAGINAL HEALTH)

## Introduction & Objectives

- Vagina secretes healthy vaginal fluid for the normal functioning of the body. Physiological vaginal discharge varies with the menstrual cycle. There are no related symptoms such as vulva itching, swelling, redness, or bad odor with normal vaginal discharge.<sup>1</sup>
- Various factors like age, monthly cycle, usage of contraception has an impact on vaginal discharge.<sup>2</sup>
- Vaginal discharge prevalence in India is approximately 30% in the reproductive age group. It is reported that almost 90% vaginal discharge occurs due to infection of sexually transmitted diseases (STD).<sup>3</sup>
- The main cause of vaginal discharge is microbial infection. 70% cases are connected to bacterial vaginosis (BV), vulvovaginal candidiasis (VVC) or trichomoniasis vaginalis (TV). Approximately 50% of infections are through bacterial vaginosis.<sup>3</sup>
- Various side effects such as itching, chills, and rashes occurs due to the excessive use of antibiotics like metronidazole, and fluconazole. On the other hand the use of herbal products balances the normal functioning of the body. Side effects and adverse effects are low for the usage of herbal products.
- Neem extracts show antimicrobial properties against various strains of pathogens and fungi.<sup>4</sup>

## About B C CAPS



## Methodology

This is an open-label study conducted on 15 patients at Rajalakshmi Hospital, Bangalore from 23 April 2021 to 14 May 2021.

INCLUSION CRITERIA	EXCLUSION CRITERIA
Women with reproductive age group of 18-45 years	Allergy to neem products
Signs and symptoms- irritation, soreness, dysuria, vulvo-vaginal inflammation (edema, erythema), and abdominal pain	Pregnant or lactating female
Lab diagnosis of abnormal vaginal discharge	Before enrolment of 1 week- Patients who had taken oral or antifungal medicines intravenously within 4 weeks or used topical antifungal vaginal drugs
	Patient participated in any other clinical trial study in previous 3 months
	Terminally ill patients, or with severe cardiac, hepatic, renal, or cerebrovascular disease, malignancy, hypertension, collagen disorders, other serious medical illness.

- Voluntary informed consent was obtained from all the participants for enrolment.
- 15 subjects were recruited for evaluation of efficacy and safety of product B C Caps capsules (Neem Seed Oil) [500 mg in each scheduled visit], in treatment of abnormal vaginal discharge, developed by Nutra Grace, Hyderabad.
- Each woman was asked to insert two capsules in the vagina before bed for 14 days.
- Treatment evaluation was based on ease of symptoms reported by women, speculum examination and by microbiological investigations. No concomitant treatments were given along with the study product

## Results

### Primary Outcomes:

#### Speculum examination:

Speculum examination of vaginal discharge and cervical abnormalities were done before and after treatment with B C Caps for 7 days and 14 days as shown in Table 1.

1. Abnormal vaginal discharge is considered as a change in color from white to yellow, grey, or red, with characteristics of discharge to thick, lumpy, foamy, foul odor associated with itching and discomfort.
2. All the study participants had abnormal vaginal discharge before receiving the treatment. It is recorded that 80% and 93.3% of subjects had normal vaginal discharge (White, odorless, no itching) after the treatment with B C Caps for 7 days and 14 days, respectively- Figure 1.
3. Similarly, total 53.3% subjects had cervical abnormalities at the baseline. After the treatment with B C Caps, 86.6% and 93.33% of subjects had achieved normal cervical examination in 7 days and 14 days respectively -Figure 2.

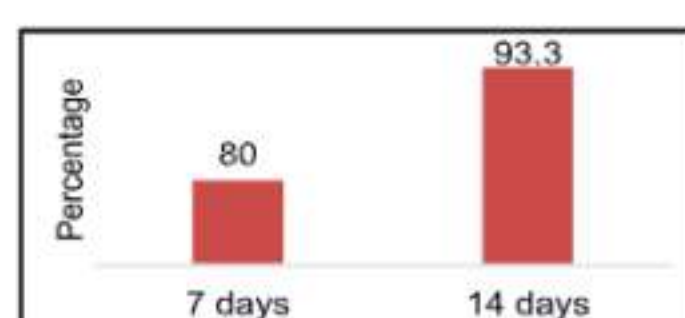


Figure 1: Improvement in Vaginal Discharge



Figure 2: Improvement in Cervical Abnormalities



# BC CAPS

(FOR VAGINAL HEALTH)

## Results

Table 1: Patient’s response to treatment assessed on day 0, day 7 and day 14 in speculum examination.

Treatment group	Symptomatic response (%) (n=15)			
	Vaginal discharge		Cervical abnormalities	
	Abnormal	Normal	Abnormal	Normal
Untreated (day 0)	15 (100)	0 (0)	8 (53.3)	7 (46.6)
Treatment (day 7)	3 (20)	12 (80)	2 (13.3)	13 (86.6)
Treatment (day 14)	1 (6.6)	14 (93.3)	1 (6.6)	14 (93.3)

Secondary outcomes:

Global assessment of symptoms

A constant significant decline was observed in the mean values of all the symptoms that are low back pain, vulval itching, general weakness, foul discharge, and burning sensation during the treatment from 1st day to 14th day as shown in Figure 3.

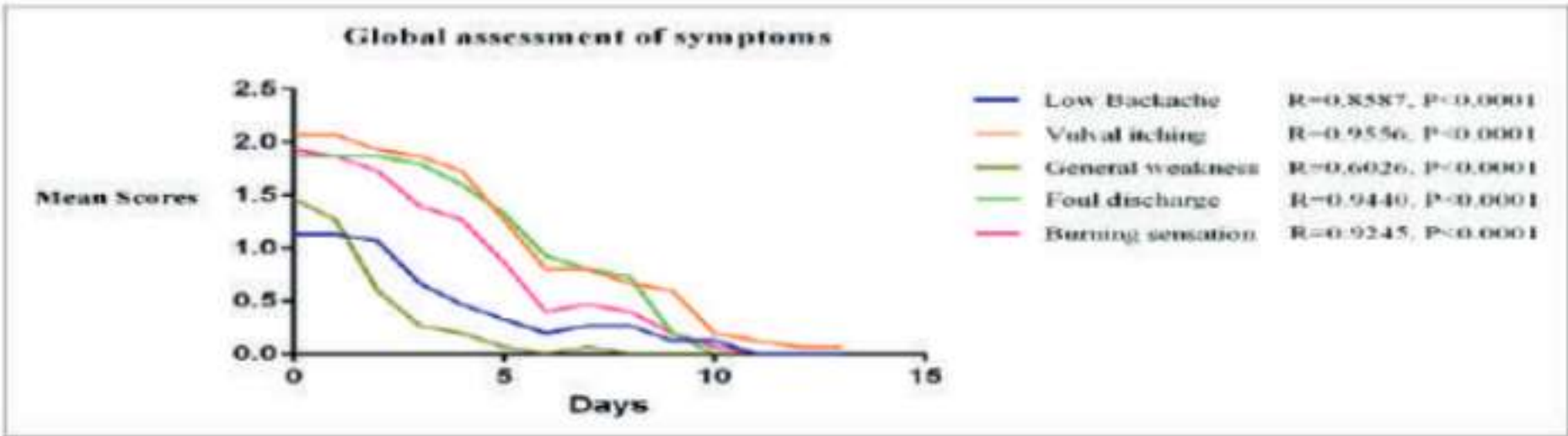


Figure 3: Global assessment of symptoms during the treatment (n=15)

Laboratory test values:  
Figure 4 showing improvement in Laboratory test values.

BV-Bacterial vaginosis;  
CA-Candida albicans;  
TV-Trichomonias vaginalis.

Whiff test:  
Significant difference (p=0.0001) was noted in the whiff test before (100% women with fishy odour positive) and after (100.0% women with no fishy odour) treatment with B C Caps

Vagina pH test:  
Women having pH below or equal to 4.5 A significant change (p=0.000051) was observed in the vaginal pH measurement, before and after the treatment with B C Caps-Figure 5. [Normal Vaginal pH≤4.5]

Figure 5: Improvement in vaginal pH below or equal to 4.5

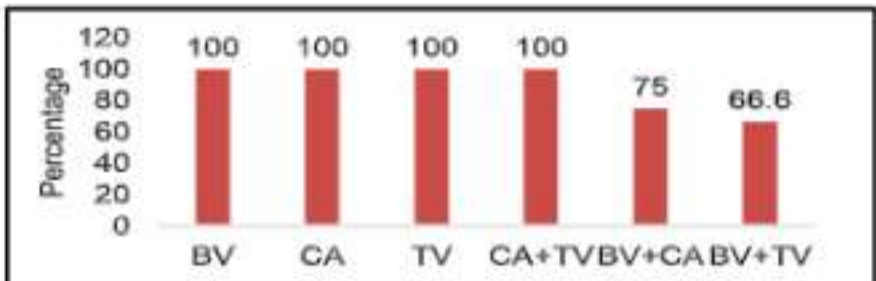
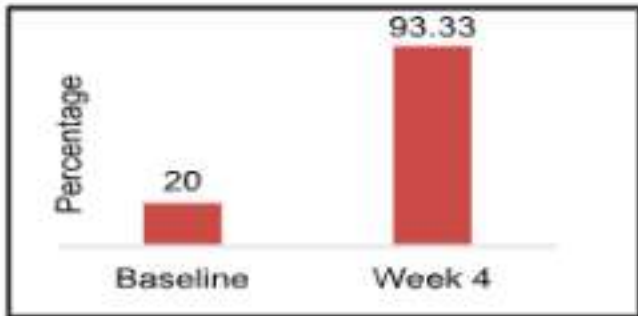


Figure 4: Improvement in pathogen clearance from baseline to end of the study



## Discussion

- Fluconazole is the FDA-approved drug for treating fungal vaginosis and vulvovaginal candidiasis infection in women, but this treatment is unsuccessful in reducing the relapse rate of disease. Therefore, use of traditional drugs is widely accepted for the disease.
- Efficacy of Praneem polyherbal pessary is found to be higher than other formulated complementary and alternative medicine (CAM) with symptomatic improvement of 72% in patients with abnormal vaginal discharge.
- Neem has various medicinal uses reported to date due to its vast anti-microbial properties. Neem oil has no side effects, is affordable, and is easily available in the market.
- B C Caps formulated with neem seed oil helps in alleviating symptoms associated with abnormal vaginal discharge, and thus, improve vaginal pH.

## Conclusion

The study fulfilled the goal of B C Caps which has shown huge improvements in subsiding symptoms and proven to be safe and effective as a treatment for abnormal vaginal discharge. Again its treatment showed improvements in associated symptoms with minimal to zero side effects.

## Acknowledgement

Authors would like to thank Dr. Urvashi P. Bhatara for providing the guidance throughout the study. They are also thankful to Rajalakshmi Hospital for providing the study center.  
Funding: Nutra Grace, B-11/7, 11/8, IDA Uppal, Hyderabad, Telangana, India.  
Ethical approval: The CTRI No. of trial registered is CTRI/2021/04/032728 and was approved by the Institutional Ethics Committee of Rajalakshmi Hospital, Bangalore.

## References

- Alzohairy MA Therapeutics Role of Azadirachta indica (Neem) and Their Active Constituents in Diseases Prevention and Treatment Evid Based Complement Alternat Med. 2016;7382506.
- García-Closas M, Herrero R, Bratti C, Hildesheim A, Sherman ME, Morera LA, Schiffman M. Epidemiologic determinants of vaginal pH. Am J Obstet Gynecol. 1999;180(5):1060-6.
- Becker M, Stephen J, Moses S, Washington R, Maclean I, Cheang M, Isac S, Ramesh BM, Alary M, Blanchard J. Etiology and determinants of sexually transmitted infections in Karnataka state, south India. Sex Transm Dis. 2010;37(3):159-64.
- Giri RP, Gangawane DAK, Giri DSG. Neem the Wonder Herb: A Short Review. Int J Trend in Scientific Res Develop. 2019.



# GRACE SPAS

(FOR PRIMARY DYSMENDRRHEA)

## Introduction & Objectives

- Menstruation is one of major sign in woman's healthy reproductive and endocrine system. Due to hormonal imbalances, most women experience pain during this period. Primary Dysmenorrhea (PD) is diagnosed when the pain is severe enough to limit normal activities or requires medication. <sup>1</sup>
- Current available therapies for PD include non-steroidal anti-inflammatory drugs (NSAIDs), oral contraceptive pills (OCPs), COX-2 (cyclo-oxygenase-2) specific inhibitors, and complementary and alternative medicines (CAM).<sup>1</sup>
- Asafoetida (Ferula asafoetida) also known as hing, is an important spice crop belonging to family Apiaceae. Its dried latex (gum oleoresin) is generally used for flavoring curries, sauces, and pickles<sup>2</sup>
- It is also used in folk phytomedicine since ancient time for treating painful, difficult and excessive menstruation.
- The preclinical study on Sprague-Dwaley rats revealed that ferula had wide safety range with little toxicity for short term use.<sup>2</sup>
- There is an unmet need for the development of formulation comprising herbal ingredients for the treatment of PD, which if taken orally gives magical results.
- So, in this study, the use of Grace Spas capsules consisting of 15mg of Hing oil was tested in women diagnosed with PD.

## About GRACE SPAS



## Methodology

This study was an open-labeled Single Arm Clinical Study conducted on 15 patients at NRR Hospital, Bangalore from 10 May 2022 to 10 June 2022.

- Voluntary informed consent was obtained from all the participants for enrolment
- 15 subjects were taken for the test product of Grace Spas capsules of 15 mg Hing Oil, as per each scheduled visit (3 consecutive menstrual cycles: post cycle 1, post cycle 2, post cycle 3).
- 2 Capsules were administered per day with food, for 3 consecutive cycles.
- No concomitant treatments were given along with the study product.

### EXCLUSION CRITERIA

Allergy to any of the study medication

Co-existing illness; STD; Abnormal vaginal discharge

Presence of any severe gastritis, secondary dysmenorrhea, pelvic inflammatory disease, acute or recurrent urinary tract infection, adnexal masses, uterine fibroids, endometriosis, or adenomyosis.

### INCLUSION CRITERIA

Female: Age group of 18-35 years

Over-The-Counter analgesic use for treatment of PD

Diagnosed with PD

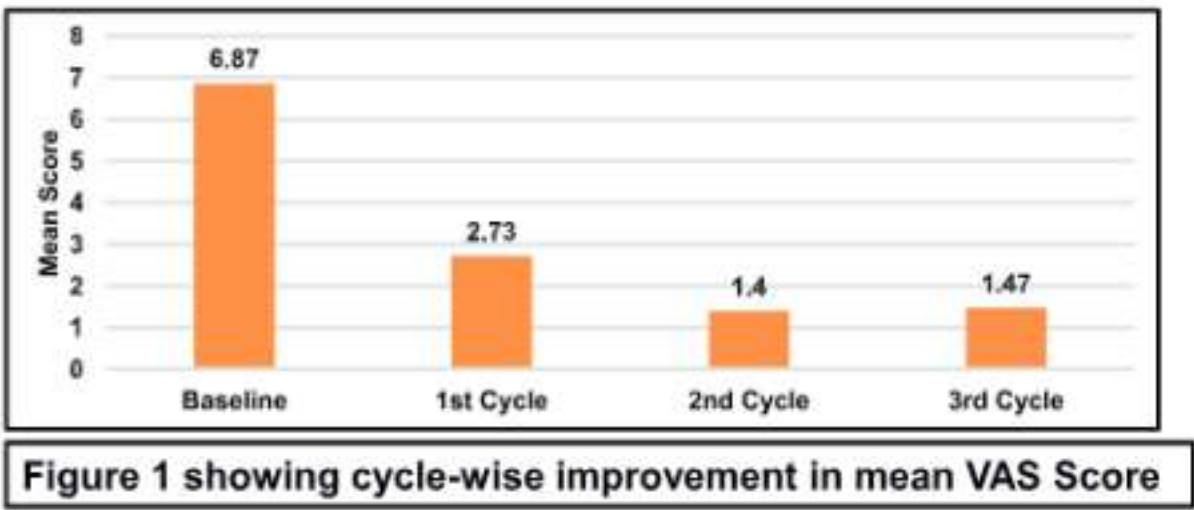
Regular cycles-every 21 to 35 days

## Results

### Primary Outcomes:

#### VAS Score: For Pain Intensity

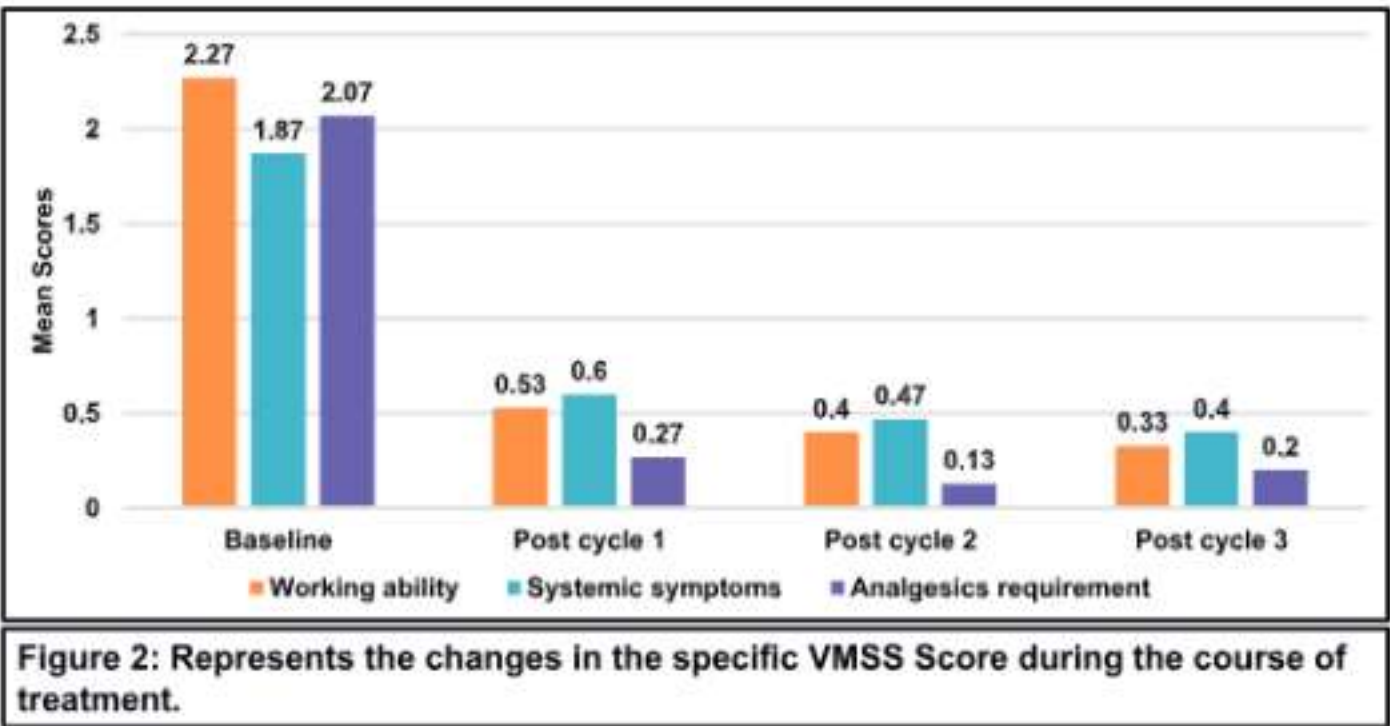
An overall mean score improvement indicates the overall effectiveness of the treatment of symptoms of dysmenorrhea, shown in Figure 1.



### Secondary Outcomes:

#### Verbal Multidimensional Scoring System (VMSS):

The Verbal Multidimensional Scoring System (VMSS) is assessed to evaluate the working ability, the systemic symptoms and whether analgesic is required or not.





## Results

### Sf-36 Patient Questionnaires: For assessing Health-Related Quality of Life

It was observed that there was a significant change (>90% improvement) in the health-related quality of life after starting the treatment in subsequent three consecutive (post cycle 1, post cycle 2, post cycle 3) menstrual cycles in overall Sf-36 - QoL score- Figure 3.

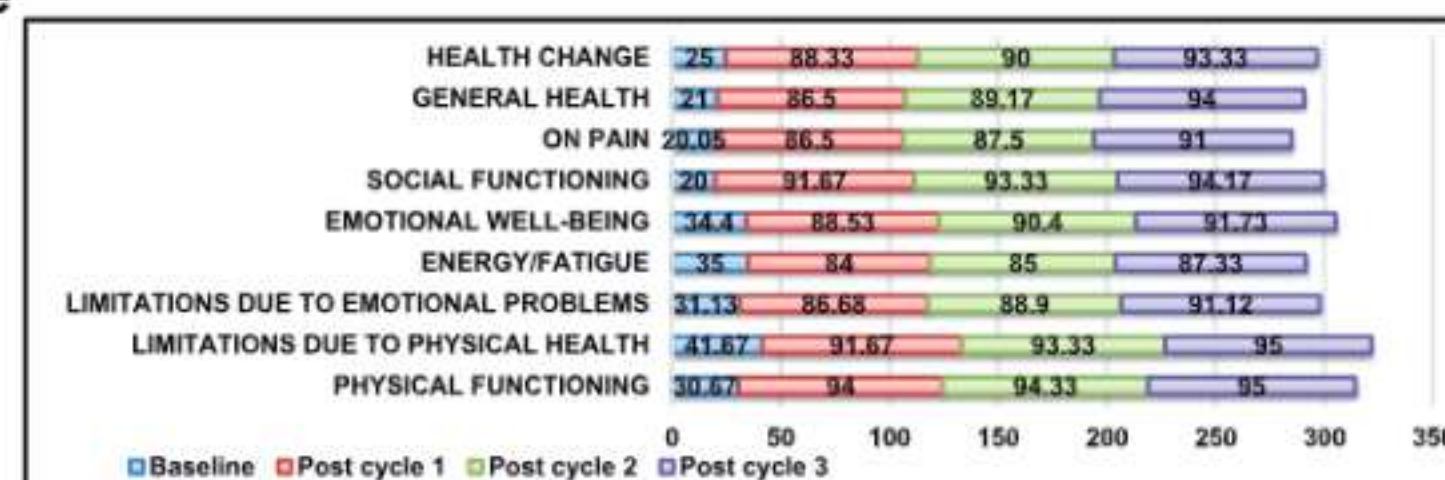


Figure 3 showing cycle-wise improvement in Sf-36 Health-related QoL

### Pictorial Menstrual Blood Loss Assessment:

There was an increase in the amount of menstrual blood loss at each cycle after starting the treatment, however the amount of blood loss was within the normal limits and this effect was attributed to the emmenagogue property of the test product, as depicted in Figure 4.

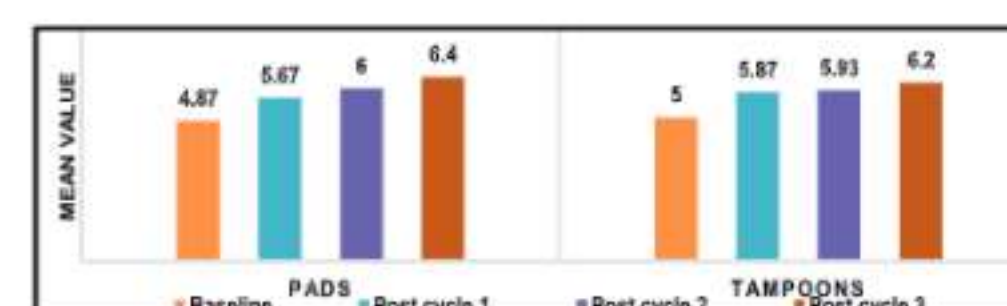


Figure 4: Pictorial Menstrual Blood Loss Assessment at 3 consecutive cycles

### Associated Systemic Symptoms:

It was observed that the severity of systemic symptoms such as Fatigue, Nausea, Anorexia, Fever, Headache, Vertigo, Diarrhoea, Vomiting, and Nervousness were reduced from mean baseline values at consecutive cycles.

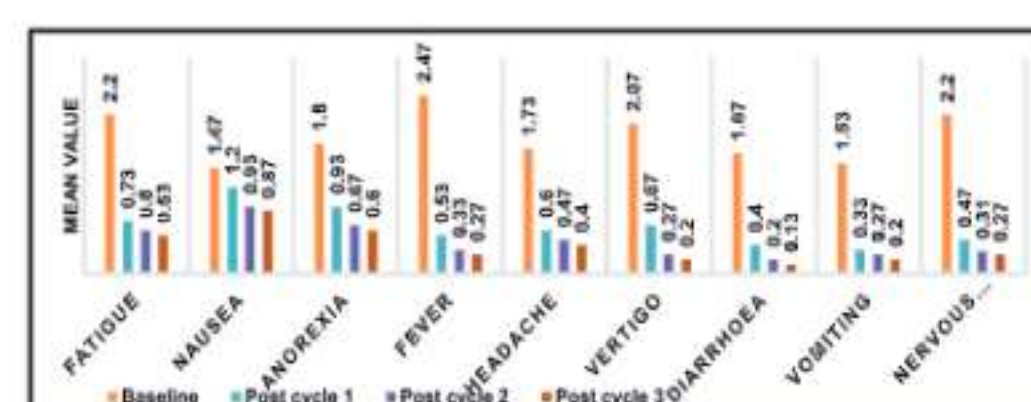


Figure 5: Assessment of Associated Systemic Symptoms at 3 consecutive cycles

### Analgesics usage:

The assessment on analgesics usage reveals that after starting the Grace Spas (Hing oil 15 mg) HPMC capsules treatment, reduced intake of analgesics was observed in subsequent three consecutive (post cycle 1, post cycle 2, post cycle 3) menstrual cycles- Fig 6.

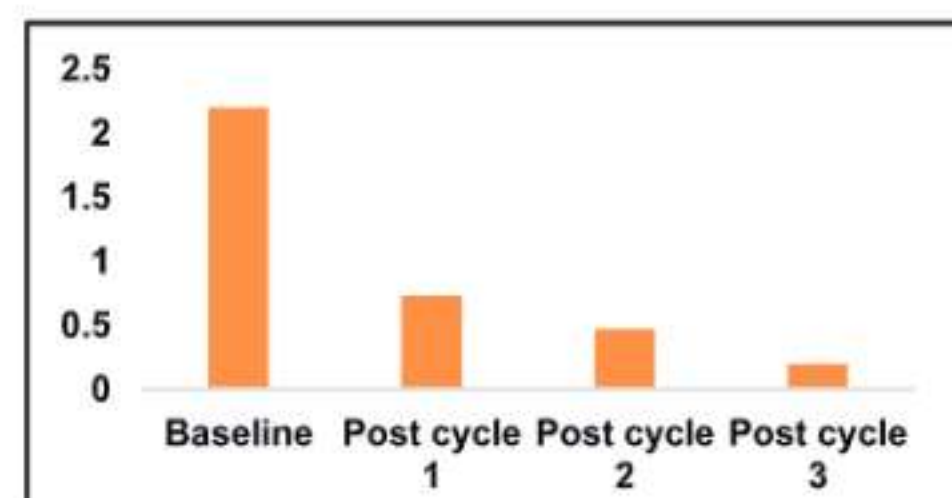


Fig 6: Average score of Analgesics usage

## Discussion

- Previous reviews have demonstrated that asafoetida, an oleo-gum-resin obtained from many Ferula species is frequently used in ethnopharmacology for alleviating pain during excessive menstruation.
- Our results demonstrated that Grace Spas (Hing oil 15 mg) HPMC capsules was efficacious well-tolerated and safe in study subjects (n=15), in alleviating the most of the symptoms of primary dysmenorrhea among women including complaints of painful menstruation, difficulties in bleeding etc

## Conclusion

The use of Grace Spas (Hing oil 15 mg) HPMC capsules for dysmenorrheal women was shown to be effective with a reduction in the common symptoms associated with dysmenorrhea and furthermore helps in its treatment without any significant side effects in the therapeutic doses used in this study.

## Acknowledgement

The author would like to thank to Dr. Urvashi Bhatara for providing the guidance throughout the study. We are also thankful to NRR Hospital for providing the study center.

Funding: Nutra Grace, B-11/7, 11/8, IDA Uppal, Hyderabad, Telangana, India  
CTRI number: CTRI/2022/05/042651

## References

- Pattanittum P, Kunyanone N, Brown J, et al. Dietary supplements for dysmenorrhoea. Cochrane Database Syst Rev. 2016;3(3):CD002124. Published 2016 Mar 22. doi:10.1002/14651858.CD002124.pub2
- Javaid R, Javed G, Ahmed F, Khan AA. HING (Ferula foetida Regel): A potent Unani Herb with its descriptive parameters of pharmacognosy and pharmacology: A Review. Journal of Drug Delivery and Therapeutics. 2020 Sep 15; 10(5):362-7.



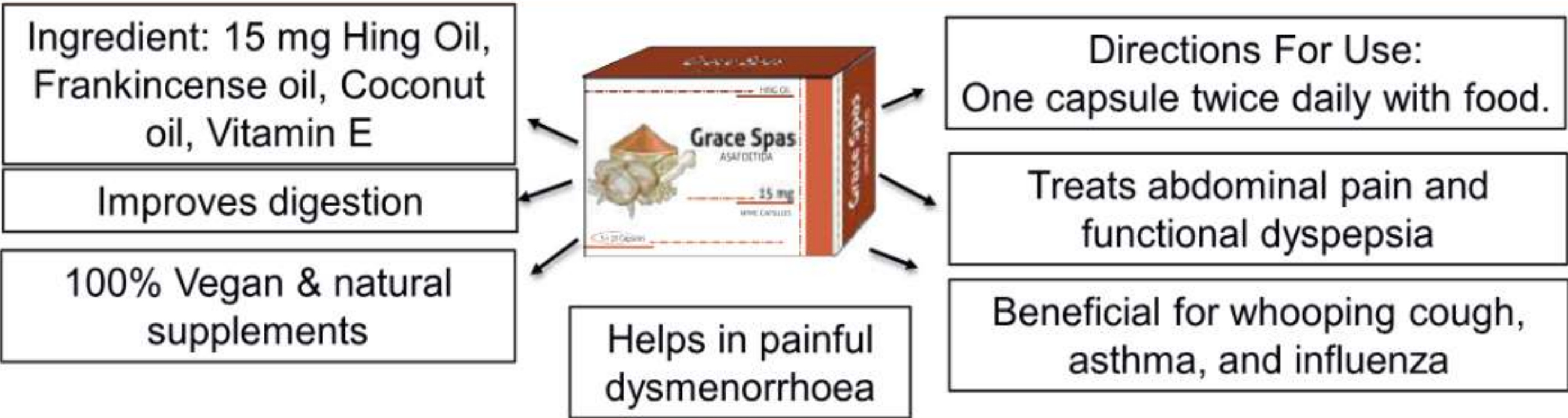
# GRACE SPAS

(FOR ABDOMINAL SPASM)

## Introduction & Objectives

- Abdominal pain (AP) refers to discomfort or pain felt in the area between the chest and the pelvis, caused due to broad range of issues like digestive issues, gastroenteritis, inflammation, abdominal aortic aneurysm, etc.<sup>1</sup>
- Functional dyspepsia (FD) is a prevalent functional gastrointestinal disorder (FGID) impacting GI tract.<sup>2,3</sup>
- Its symptoms include bloating, early feeling of fullness, post-meal satiety, belching, heartburn, indigestion, and epigastric pain, which can negatively affect quality of life.<sup>1</sup>
- Asafoetida (Ferula asafoetida) also known as hing, is an important spice crop belonging to family Apiaceae. Its dried latex (gum oleoresin) is generally used for flavoring curries, sauces, and pickles<sup>1</sup>
- Its known benefits are reported for whooping cough, asthma, ulcer, epilepsy, dyspepsia, flatulence, bronchitis, intestinal parasites and influenza.<sup>2</sup>
- Subjects having abdominal pain with cramping is allocated and provided to receive GRACE HING (Hing oil 15 mg) [Now **GRACE SPAS**] HPMC Capsules for 30 days.
- Daily Intake is 2 Capsules or as directed by the healthcare practitioner.

## About GRACE SPAS



## Methodology

This study was an open-labeled Single Arm Clinical Study conducted on 15 patients at Gurudev Clinic, Yelahanka, Bangalore from 10 May 2022 to 10 June 2022.

- Voluntary informed consent was obtained from all the participants for enrolment.
- 15 subjects were taken for the test product of Grace Hing [Now GRACE SPAS] capsules of 15 mg Hing Oil, as per each scheduled visit.
- One capsule twice daily with food.
- No concomitant treatments were given along with the study product.

INCLUSION CRITERIA	EXCLUSION CRITERIA
Both gender: Age group of 18-60 years	Allergy to any of the study medication
Fulfils Rome Diagnostic criteria	Co-existing illness
Abdominal pain irrespective of underlying diagnosis related to GI system	Presence of abdominal spasms occurring due to other diagnosis like cardiovascular diseases, cancer, respiratory conditions, orthopaedic conditions and complications
Frequent occurrences of Abdominal pain due to nature of disease	Use of Long term anaglesics; Gastro-intestinal surgery; gastro or duodenal ulcers afflicted with dysphagia & odynophagia

## Results

### Primary Outcomes:

#### VAS Score: For Pain Intensity

The study showed a significant decrease in pain assessment scores after taking GRACE HING [Now **GRACE SPAS**] (Hing oil 15 mg) HPMC Capsules, with a gradual decrease observed from the 15th to the 30th day as shown in Figure 1.

### Secondary Outcomes:

#### Global Overall Symptom Scale:

The mean score of global overall symptom scale (GOS) of epigastric pain, epigastric gastric discomfort, heart burn, acid regurgitation, upper abdominal bloating, excessive bleaching, nausea, early satiety, postprandial fullness significantly declined on 30th day assessment after using the GRACE HING (Hing oil 15 mg) [Now **GRACE SPAS**] HPMC Capsules- as shown in Fig 2.

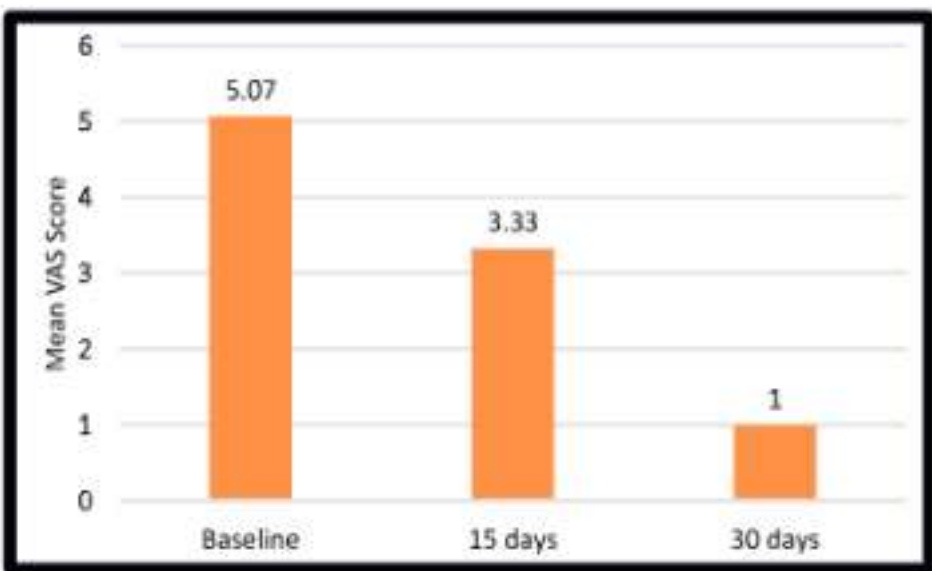


Figure 1 showing improvement in mean VAS Score

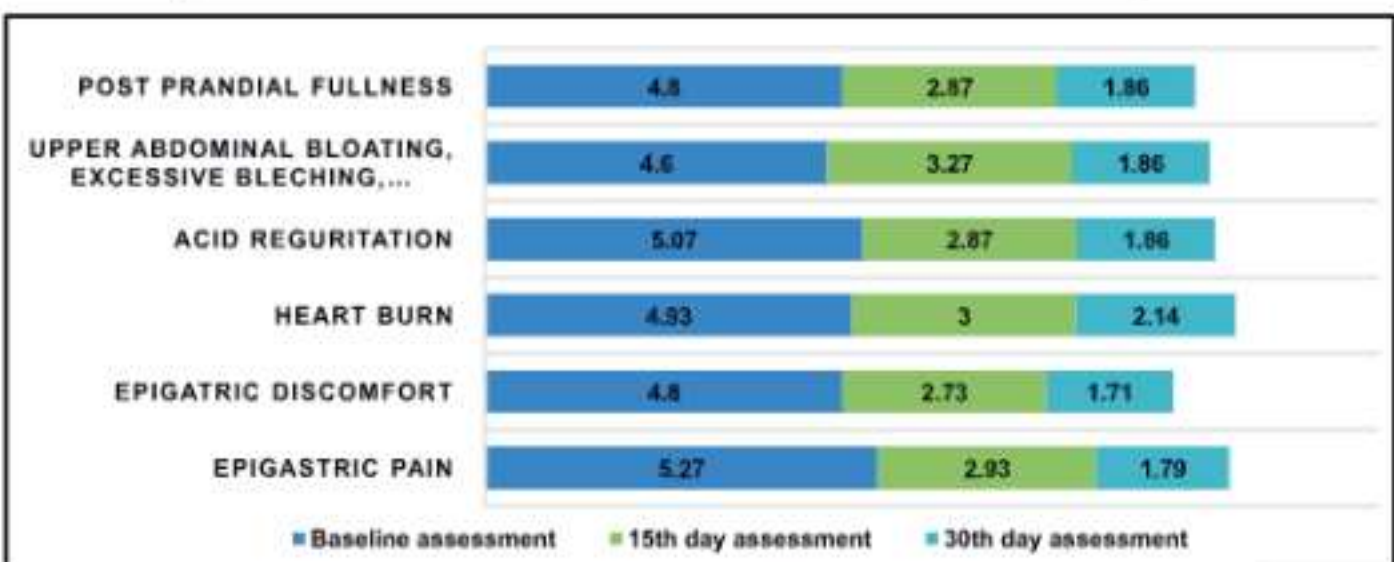


Figure 2: Represents the changes in the specific VMSS Score during the course of treatment.



# GRACE SPAS

(FOR ABDOMINAL SPASM)

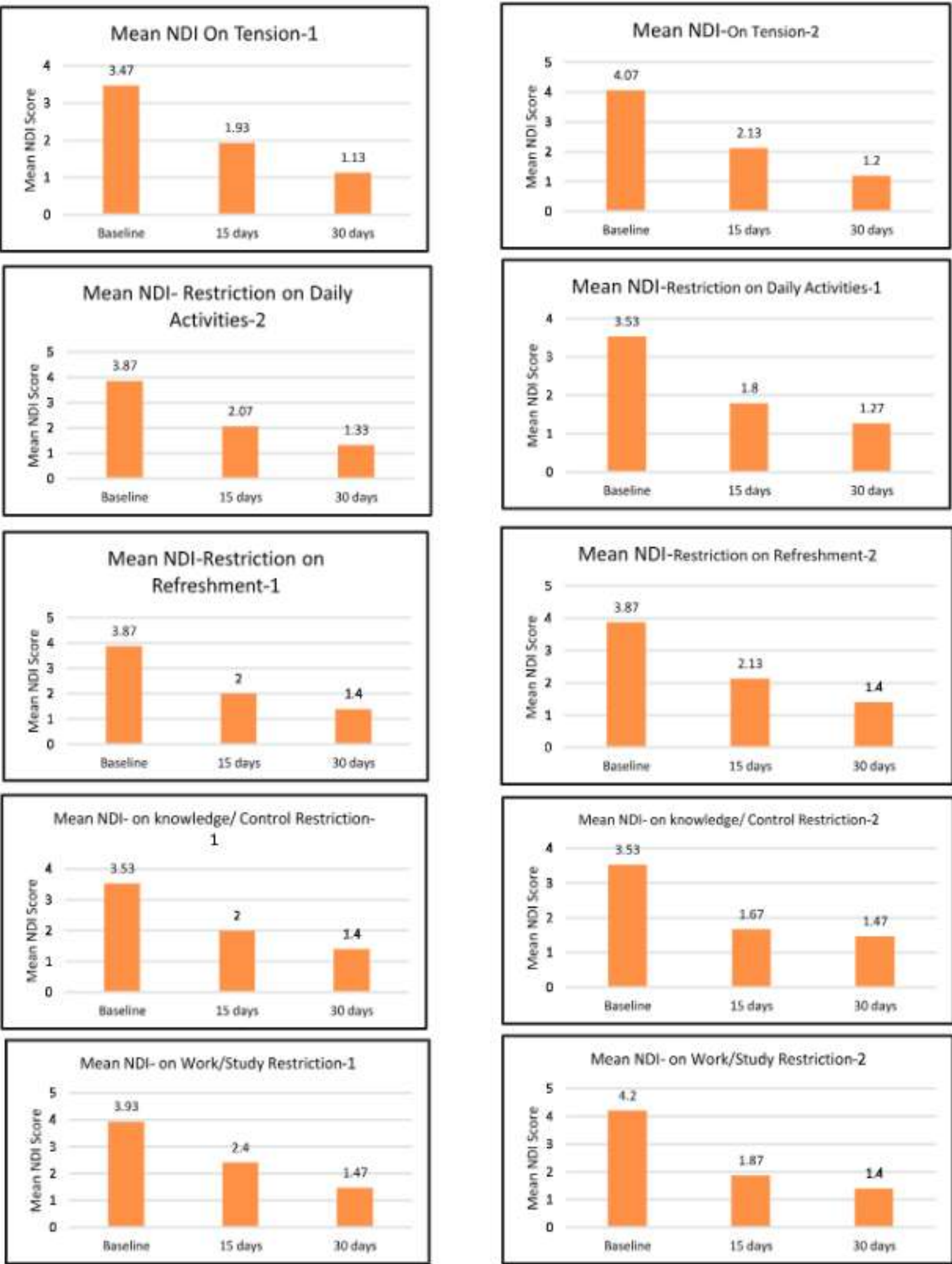
## Results

### Gastro-intestinal symptom scale:

Assessment measures various symptoms including abdominal pain, heartburn, acid reflux, nausea, hunger pains, stomach rumbling, bloated feeling, burping, flatus in the bowel, constipation, diarrhea, loose stools, hard stools, bowel movements, and sensation of incomplete bowel emptying on a scale of 0- no discomfort to 6- very severe discomfort. By the 30th day of the visit, 100% of subjects reported no discomfort at all.

### Nepean Dyspepsia Index:

This index is used to assess the severity and impact of dyspepsia on individuals. Discomfort occurring in subjects due to gastric complaints were significantly decreased after usage of GRACE HING (Hing oil 15 mg) [Now GRACE SPAS] HPMC Capsules. By the 30th day of the visit, the changes in the mean NDI scores were reduced, as shown in figures below.



## Discussion

- Previous reviews have demonstrated that asafoetida, an oleo-gum-resin obtained from many Ferula species is frequently used in traditional medicine for treatment of FD & AP. <sup>1, 2</sup>
- Our results demonstrated that GRACE HING (Hing oil 15 mg) [Now GRACE SPAS] HPMC Capsules helped in alleviating most of the symptoms of abdominal pain and functional dyspepsia. It significantly improved symptoms like bloating, postprandial fullness, food intake, heartburn, constipation, and digestion, with no reported side effects or adverse events.

## Conclusion

The use of GRACE HING (Hing oil 15 mg) [Now GRACE SPAS] HPMC Capsules has significantly improved patients' quality of life and daily activities after using it for 30 days. This furthermore shows it is efficacious, well-tolerated and safe without any significant side effects in the therapeutic doses used in this study. Thus, this study suggests nutraceuticals can contribute to overall health and well-being.

## Acknowledgement

The author would like to thank to Dr. Dr. Gurudev. S for providing the guidance throughout the study. We are also thankful to Gurudev Clinic for providing the study center.

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CTRI No: CTRI/2022/05/042652 [Registered on: 9/05/2022] Trial Registered Prospectively.

## References

1. Mala KN, Thomas J, Syam DS, Maliakel B, Krishnakumar IM. Safety and efficacy of Ferula asafoetida in functional dyspepsia: a randomized, double-blinded, placebo-controlled study. Evidence-Based Complementary and Alternative Medicine, 2018 Jan 1; 2018.
2. Tripathi AK, Rawat S, Mitra S, Sharma U, Sharma K. A review on pharmacological actions of Ferula asafoetida oleo-gum-resin [hingu] in the management of abdominal pain. Current Medical and Drug Research, 2019; 3(1).
3. Stanghellini, V. (2017). Functional Dyspepsia and Irritable Bowel Syndrome: Beyond Rome IV. Digestive Diseases, 35(1): 14–17. Doi: 10.1159/000485408.



# NEEMINT

(FOR GUT HEALTH)

## Introduction

- A GI disorder is a condition/disease that occurs within gastrointestinal tract GI tract has two major functions: serves as barrier to outside environment and allows nutrients to enter into the tract. Common diseases of GI tract include constipation, IBS, nausea, lactose intolerance, gas, bloating, gastro-oesophageal reflux disease, haemorrhoids, food poisoning, and celiac disease.<sup>1</sup>
- Fermentable oligo-, di- and monosaccharides polyols (FODMAPs) are considered as the source for aggravating the symptoms in IBS/IBD as it is poorly absorbed into the intestine.<sup>2</sup>
- Neem oil has therapeutic properties due to the presence of rich amount of antioxidants and other valuable components such as azadirachtin, nimbolinin, nimbin, nimbidol, salanin and quercetin.<sup>3</sup>
- Peppermint oil has been evaluated for its efficacy and tolerability in GI conditions, including nonserious constipation or diarrhoea associated with IBS to reduce global symptoms of pain and bloating.<sup>4</sup>
- There is an unmet need for the development of formulation comprising herbal ingredients for the treatment of irritable bowel syndrome which if taken orally gives magical results. So, in this study the use of Neemint capsule consisting of neem extract and peppermint oil was tested in GI patients.
- Combined effect of both neem and peppermint oil is also reported in the study involving *Agrotis ipsilon*.

## About Us

Headquartered in Hyderabad, Nutra Grace is India's first and leading manufacturer of Liquid-Filled Hard Gelatin & HPMC Nutraceutical Capsules.



## Methodology

### Case Series

This study was an open-label clinical trial conducted at Rajalakshmi Hospital, Bangalore on 15 patients from 26 April 2021 to 6 June 2021.

- Voluntary informed consent was obtained from all the participants for enrolment.
- 15 subjects were taken for the test product of Neemint capsules of 500 mg which comprises 350 mg of neem oil and 150 mg of peppermint oil as per each scheduled visit (Visit 1: 0 to Day-7, Visit 2: Day 7±2, Visit 3: Day 14±2, Visit 4: Day 28±2).
- No concomitant treatments were given along with the study product.

### INCLUSION CRITERIA

Both genders: Age group of 18-65 years

Diagnosed with 2 or more symptoms like indigestion, abdominal pain or cramps, nausea, vomiting, bloating, constipation, diarrhoea, changes in bowel habits, loss of appetite.

### EXCLUSION CRITERIA

Allergy to neem products

Pregnant or lactating female

Presence of any cardiovascular, renal, respiratory or any other chronic illness

Subject participating in a similar clinical study, currently or during the previous 90 days.

## Discussion & Conclusion

### Discussion :

- In this study, combinatory therapeutic properties of neem and peppermint oil are explored in form of Neemint capsules for treating gastrointestinal disorders.
- Our results demonstrated that Neemint capsules was highly efficacious in alleviating the treatment of IBS and GI symptoms and it is also found to be well-tolerated and safe in study subjects (n=15) having complaints of IBS and GI disturbances.

### Conclusion :

The study accomplished the goal of Neemint capsules which has shown remarkable improvements in subsiding the symptoms and proven to be safe and effective as a treatment for gastrointestinal disorder.



Results

Gastrointestinal Symptom Rating Scale (GSRS) score :

For weeks 1, 2, and 4 of treatment period with Neemint capsules, a highly statistically significant ( $p<0.00001$ ) decline in GI symptom (GSRS total score) is observed by 25.18%, 45.32%, and 65.46% reduction. The lowest percentage improvement is observed in the GSRS variable- passing of gas (50%), whereas the highest percentage improvement is in the GSRS variable- feeling full even long after you have stopped eating (73.02%). A significant decline in the mean GSRS score is seen in each evaluation visit which represents the overall effectiveness of the treatment of symptoms of IBS shown in Figure 1.

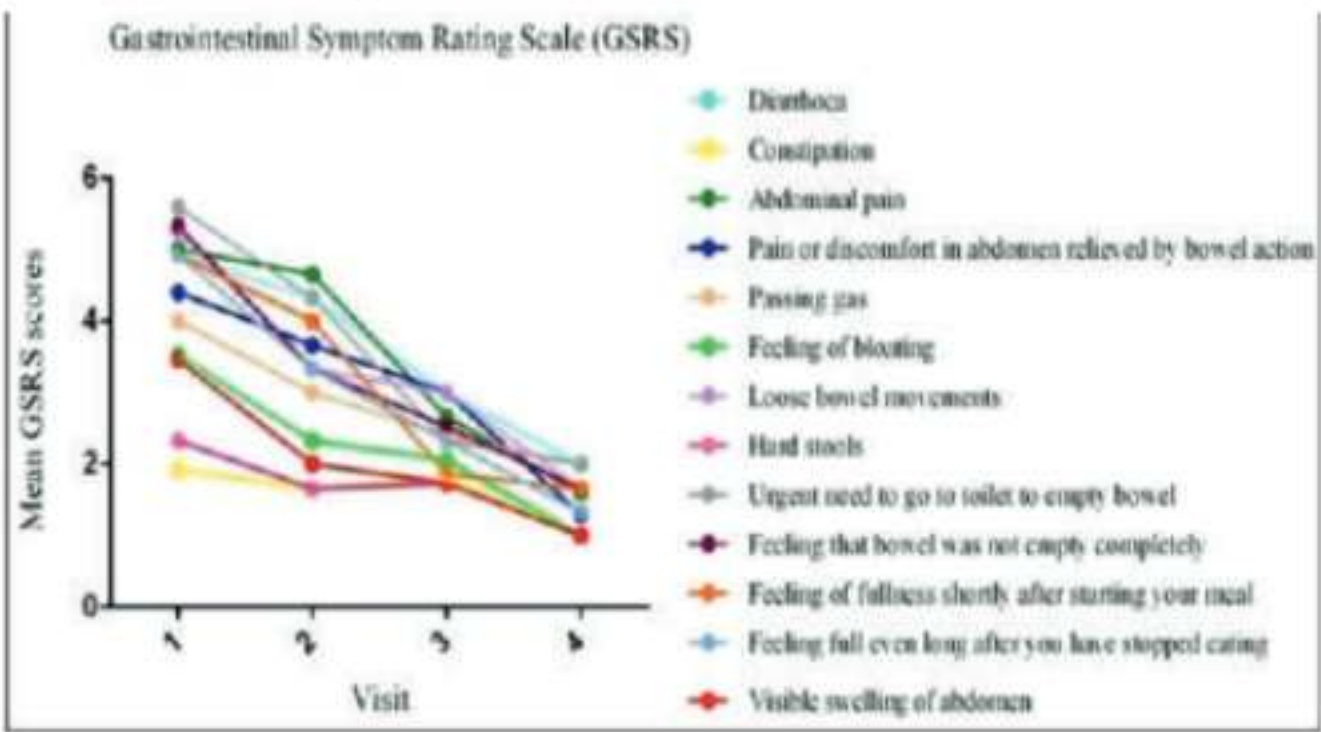


Figure 1: Represents the changes in the specific GSRS Score during the course of treatment

Secondary outcome

Irritable Bowel Syndrome -Quality of Life Scores mean data obtained at baseline (Visit 1) was  $35.41\pm10.032$  and at the last evaluation visit (Visit 4) was  $92.647\pm1.8011$ . It was observed that there was a significant change in the quality of life of all the subjects and the level of significance  $p<0.00001$  with 64.23% improvement in overall score.

Global assessment of symptoms

It was observed that there was a significant decline in the intensity of symptoms (diarrhoea, constipation, abdominal pain, nausea, vomiting, bloating) at the 4<sup>th</sup> evaluation visit when treated with Neemint capsules shown in Figure 2.

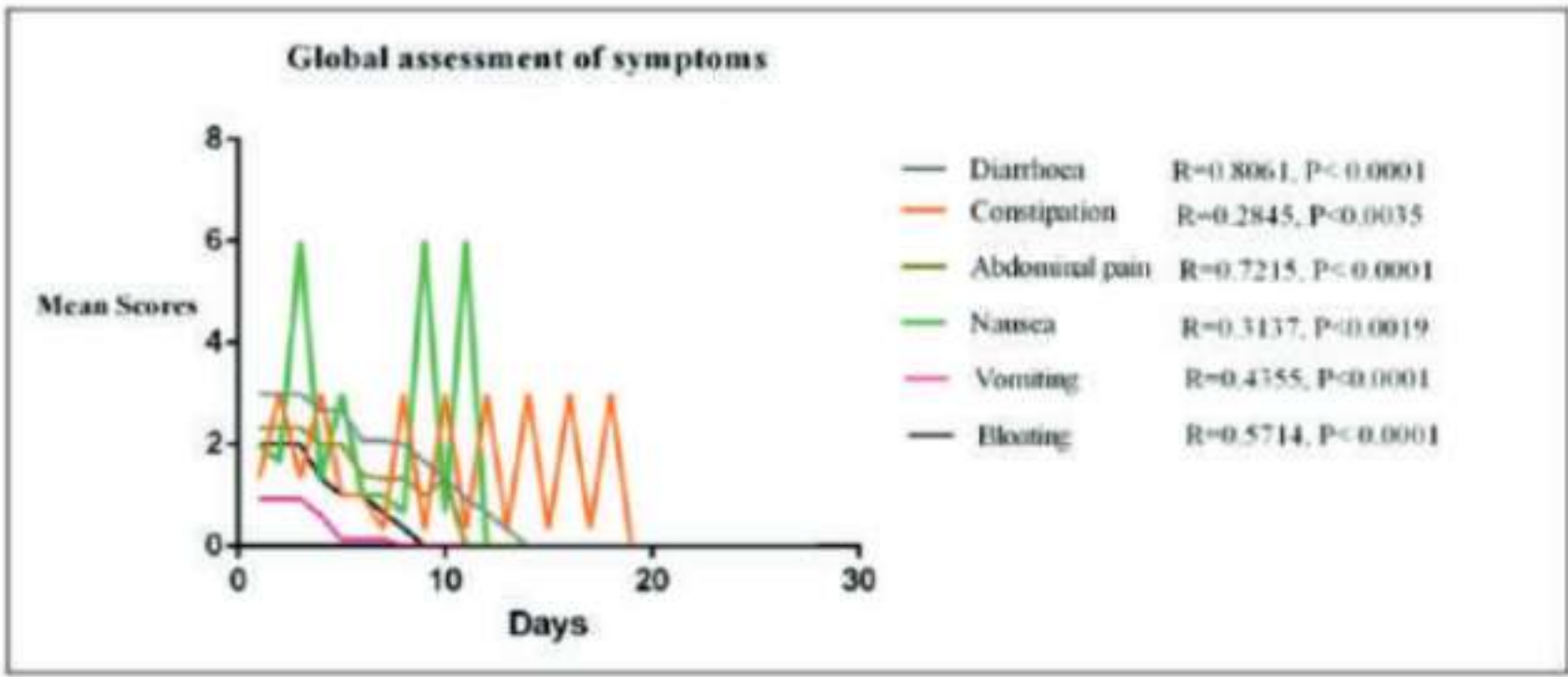


Figure 2: Global assessment of symptoms before and after treatment with Neemint Capsule for 28 days, (n=15)

Acknowledgment & References

Acknowledgement:

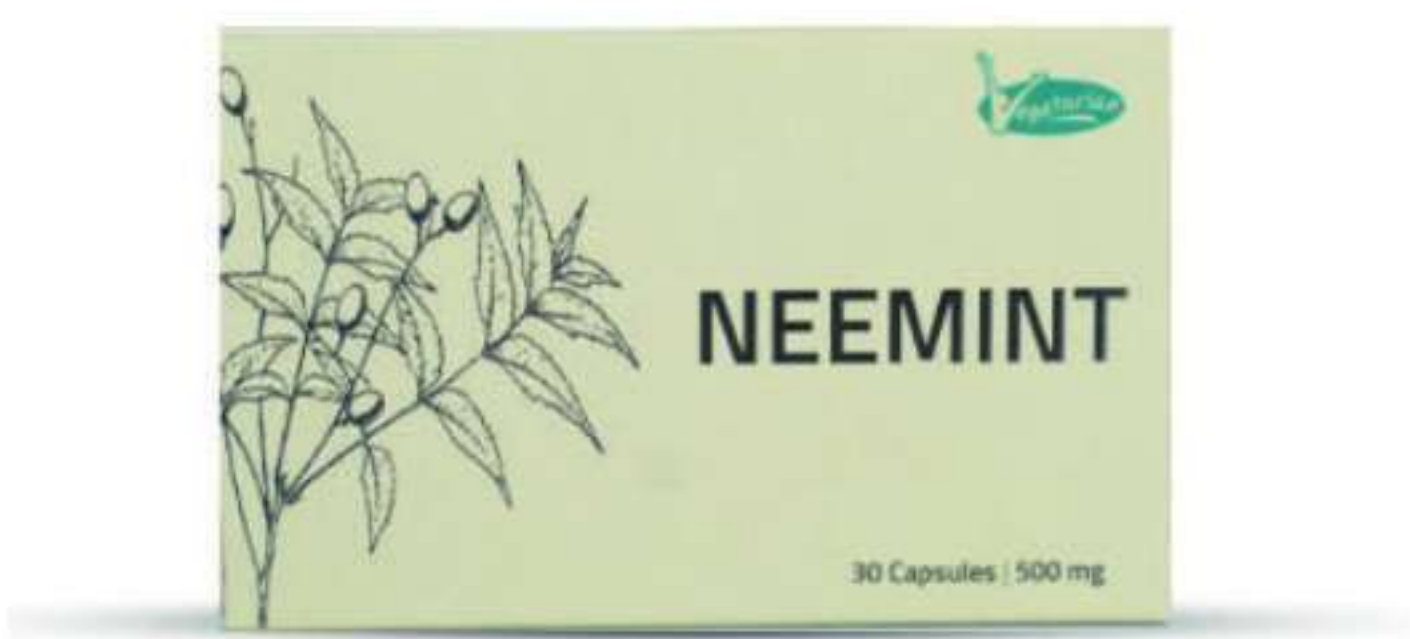
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Ethical approval: Not Required.

References:

1. Duggan C, Gannon J, Walker W. Protective nutrients and functional foods for the gastrointestinal tract. Am J Clin Nutri. 2002;75(5):789-808.
2. Lankarani KB. Diet and the Gut. Middle East J Dig Dis. 2016;8(3):161-5.
3. Alzohairy MA. Therapeutics role of azadirachta indica (Neem) and their active constituents in diseases prevention and treatment. Evidence-based Complementary Alternative Med. 2016;2016:7382506.
4. Shams R, Oldfield EC, Copare J, Johnson DA. Peppermint Oil: Clinical Uses in the Treatment of Gastrointestinal Diseases. JSM Gastroenterol Hepatol. 2015;3(1):1036.



## NEEMINT



### Composition

Neem Oil 350 mg + Peppermint Oil 150 mg  
Enteric Coated Liquid Filled HPMC Capsules

### Marketed Uses

- \* Broad spectrum antimicrobial.
- \* Multi purpose gastro intestinal disturbances including irritable bowel syndrome, etc...

## BC CAPS



### Composition

Neem Oil 500 mg  
Liquid Filled Hard Gelatin VAGINAL Capsules

### Marketed Uses

- \* Versatile vaginal disinfectant.
- \* Prevents abnormal vaginal discharge.
- \* Spermicidal.

## GRACE SPAS



### Composition

Hing (Asafoetida) Oil 15 Mg  
dissolves in a Proprietary blend of  
Frankincense Oil & Coconut Oil  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Versatile anti spasmodic.
- \* Primary dysmenorhes.
- \* Gastric and muscular spasm.

## P-GRACE



### Composition

Pumpkin Seed Oil 320 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Heart Health
- \* Prostate health
- \* Improves Mental well-being
- \* Soothes over active bladder



# ASTAGRACE



## Composition

Astaxanthin 4 mg, Vitamin E 10 mg,  
Vitamin D 600 IU & Vitamin A 840 mcg  
Liquid Filled HPMC Capsules

## Marketed Uses

- \* Eye Health
- \* Powerful Antioxidant Blend
- \* Skin health and anti-aging

# EYE 5



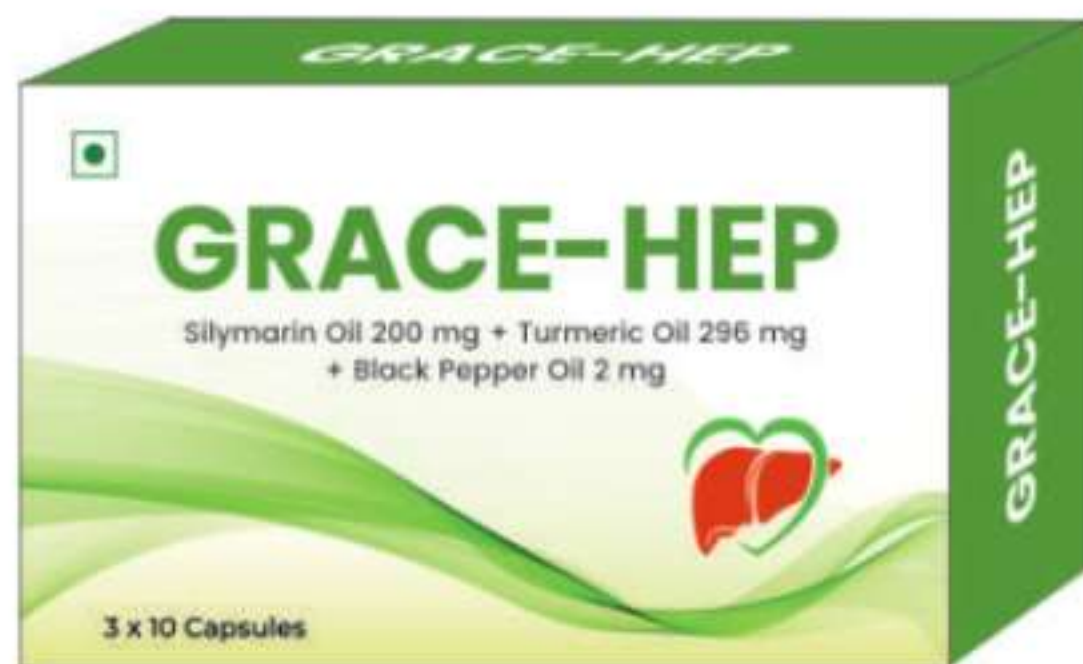
## Composition

Lutein 10 mg, Zeaxanthin 2mg, Lycopene 10 mg,  
Algal DHA 40% 250 mg, Vitamin A 840 mcg,  
Pumpkin seed Oil 80 mg, Flaxseed Oil and  
Vitamin E. Liquid Filled HPMC Capsules.

## Marketed Uses

- \* Age-related macular degeneration (AMD)
- \* Diabetic retinopathy
- \* Cataract
- \* Dry Eyes

# GRACE HEP



## Composition

Silymarin Oil 200 mg + Turmeric Oil 296 mg  
+ Black Pepper Oil 2 mg  
Liquid Filled HPMC Capsules

## Marketed Uses

- \* Liver Health & Detoxification
- \* Digestive Health
- \* Anti-inflammatory & Antioxidant support
- \* Cholesterol & Blood Sugar Management
- \* Joint & Arthritis support

# RENO GRACE



## Composition

Lemon Oil 5 mg + Coriander Oil 25 mg  
Liquid Filled HPMC Capsules

## Marketed Uses

- \* Kidney & Urinary Health
- \* Digestive and bloating Relief
- \* Antioxidant & Anti-inflammatory
- \* Urinary Tract Infections



## O-NIGELLA



### Composition

Black Seed Oil 480 mg +  
Natural Oregano Oil 20 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Immune Defense & Respiratory Health
- \* Digestive & Gut Health
- \* Metabolic & Heart Health

## GRACE NIGELLA



### Composition

Black Seed Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* COPD
- \* Asthma
- \* Rheumatoid arthritis
- \* Inflammation of nose, throat, tonsillitis; Backache
- \* Loss of hair and premature greying
- \* Eye Infection, pain, weak sight

## GRACE FLAX



### Composition

Flax seed Oil 500 mg  
Liquid Filled Hard Gelatin/ HPMC Capsules

### Marketed Uses

- \* Anti-cancer Properties
- \* Heart Health
- \* Skin Problems
- \* Arthritis
- \* Stress

## GARLIC CURE



### Composition

Garlic oil 0.5% - 500 Mg (in Coconut Oil)  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Boosts immunity
- \* Promotes heart health
- \* Diabetes
- \* Reduces blood pressure and Cholesterol
- \* Reduces oxidative stress
- \* Improves Bone Health:



## COMPLETE TURMERIC



### Composition

Turmeric Oil 450 mg + Curcumin 50 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Immunity Booster
- \* Antioxidant Benefits
- \* Anti inflammatory
- \* Skin Health

## THE COMPLETE MORINGA



### Composition

Combi pack containing:

- 1.Moringa Seed Oil 500 mg  
(Liquid Filled HPMC Capsule)
- 2.Moringa Leaf Extract 500 mg  
(Powder filled HPMC Capsule)

### Marketed Uses

- \* Cholesterol management
- \* Diabetes Management
- \* Immunity booster
- \* Weight Management

## GRACE DHA



### Composition

Algal DHA 40% 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Age related macular degeneration (AMD)
- \* Brain Health
- \* High blood pressure.

## GRACE SBT



### Composition

Sea Buckthorn Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Skin Benefits
- \* Heart Health
- \* Arthritis
- \* Rich in omega fatty acids
- \* Antioxidants



## E-VEG - 400



### Composition

Vitamin E 400 IU + Wheat Germ Oil 100 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* PMS
- \* Low sperm count
- \* Muscle cramps

## D3 5K



### Composition

Vit D3 - 5000 IU Stabilised in Coconut Oil  
Liquid Filled Hard Gelatin / HPMC Capsules.  
Available in D3 1K, 2K & 60K

### Marketed Uses

- \* Vitamin D Deficiency
- \* Maintaining Bone health
- \* Pregnancy

## TOCO FLAX



### Composition

Mixed Palm Oil Tocotrienol 50 mg +  
Flaxseed Oil 450 mg  
Liquid Filled Hard Gelatin / HPMC Capsules

### Marketed Uses

- \* Mental fatigue/ Stress:
- \* Heart Health
- \* Insulin Sensitivity
- \* Gut Health

## TOCOGRACE



### Composition

Mixed Palm Oil Tocotrienol 300mg +  
Wheat Germ Oil 200 mg  
Liquid Filled Hard Gelatin / HPMC Capsules

### Marketed Uses

- \* Brain Health
- \* Anti- Cancer
- \* Heart Health
- \* Insulin Sensitivity



## IMMUNO GRACE



### Composition

Turmeric Oil 225mg + Garlic Oil 25mg +  
Ginger Oil 50 mg + Vitamin E 200mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Immunity Booster
- \* Anti-inflammatory Support
- \* General Wellness

## GRACE HEALTH



### Composition

Fenugreek oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Menstrual Health Support
- \* Lactation support
- \* Blood Sugar Control
- \* Antioxidant Effect
- \* Breast enhancement
- \* Sexual desire
- \* Menopause

## O3 FA



### Composition

Fish Oil (Contain EPA : DHA = 18 : 12) 500 mg  
Liquid Filled Hard Gelatin Capsules  
Fish Oil Double Strength  
(Contain EPA : DHA = 36 : 24) 500 mg  
Liquid Filled Hard Gelatin Capsules

### Marketed Uses

- \* Cardiovascular Health
- \* Cognitive Health
- \* Liver Function
- \* Atherosclerosis.
- \* Asthma
- \* Improves immunity

## O3 Q



### Composition

Fish oil ( Containing EPA: DHA = 18 : 12)  
450 mg + Co-Enzyme Q10 30 mg  
Liquid Filled Hard Gelatin Capsules

### Marketed Uses

- \* Heart Health
- \* Male and Female Fertility
- \* Brain Health
- \* Eye Health



## GRACE KRILL OIL



### Composition

Krill Oil 500 mg  
Liquid Filled Hard gelatin Capsules

### Marketed Uses

- \* Anti-inflammatory functions
- \* Arthritis and Joint Pain
- \* Heart Health
- \* PMS Symptoms
- \* Source of Healthy Fats

## E P ZEN



### Composition

Evening Primrose Oil 500 mg  
Liquid Filled Hard Gelatin / HPMC Capsules

### Marketed Uses

- \* PMS
- \* Eczema
- \* Skin Health
- \* Hair health
- \* Multiple Sclerosis

## GRACE CASTOR



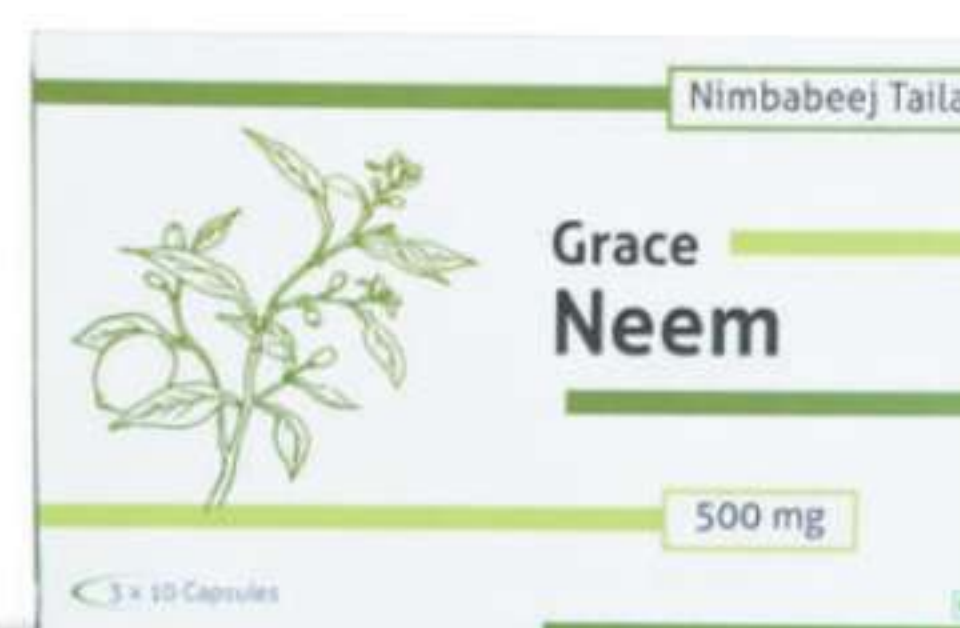
### Composition

Castor Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Treatment of constipation
- \* Anti inflammatory
- \* Arthritis / Joint Pain
- \* Stimulates hair growth.
- \* Promotes skin healing.
- \* Relieves inflammation

## GRACE NEEM



### Composition

Neem Seed Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Antimicrobial effect
- \* Anti-inflammatory
- \* Antioxidant Activity
- \* Antidiabetic
- \* Eczema.
- \* Anti- dandruff
- \* Immunity booster.



## GRACE COCONUT



### Composition

Coconut Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* May Aid Fat Loss
- \* Quick Energy Source
- \* Antimicrobial Effect
- \* Skin Health

## GRACE ALMONDS



### Composition

Almond Oil 500 mg  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Heart Health:
- \* Diabetes
- \* Memory
- \* Benefits of Digestive System
- \* Source of Healthy Fats

## GRACE - WG



### Composition

Wheat germ oil 500 mg  
Liquid Filled Hard Gelatin / HPMC Capsules

### Marketed Uses

- \* Antioxidant Support
- \* Skin Health
- \* Cardiovascular health

## LYCO GRACE



### Composition

Lycopene 10% - 100 mg +  
Wheat Germ Oil 400 mg +  
Liquid Filled HPMC Capsules

### Marketed Uses

- \* Antioxidant Support
- \* Male infertility treatment
- \* Improves mobility and morphology of sperms
- \* wheat germ oil can also help control cholesterol levels



## GRACE SKIN



### Composition

Blend of Almond, Black Seed (Nigella), Coconut, Sea Buckthorn, Neem. Turmeric, Vitamin E Oils.

### Marketed Uses

- \* Antibacterial Properties
- \* Wound Healing

## GRACE BREATHEASY



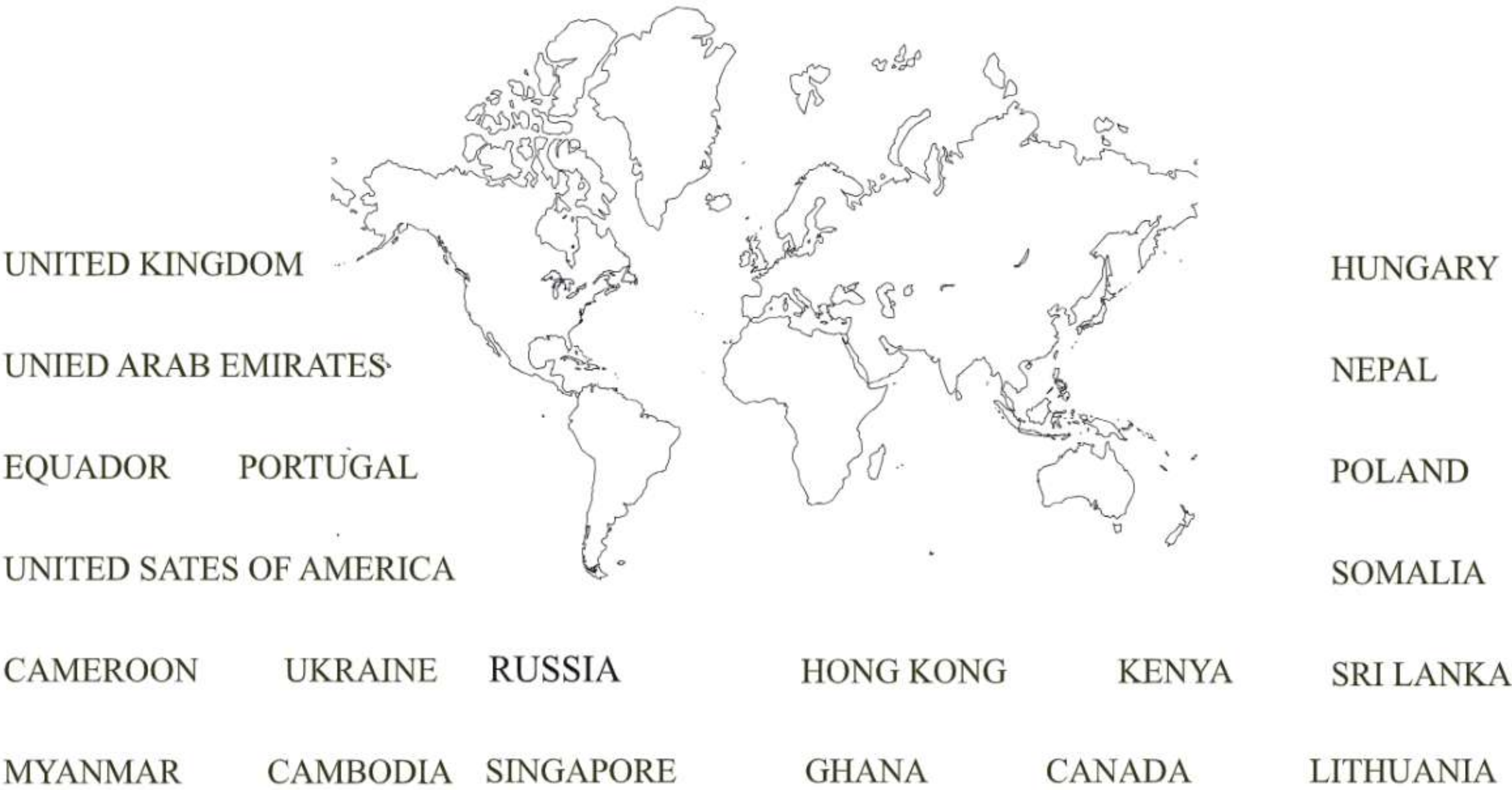
### Composition

Blend of Turmeric, Camphor, Eucalyptus, Tulsi, Oregano, Rosemary oils

### Marketed Uses

- \* For respiratory ailments
- \* Antimicrobial effect
- \* Helps soothe respiratory discomfort
- \* Provide fast-acting relief by promoting decongestion
- \* Protecting against microbial infections.

## OUR PRESENCE ACROSS GLOBE





## OUR CERTIFICATIONS

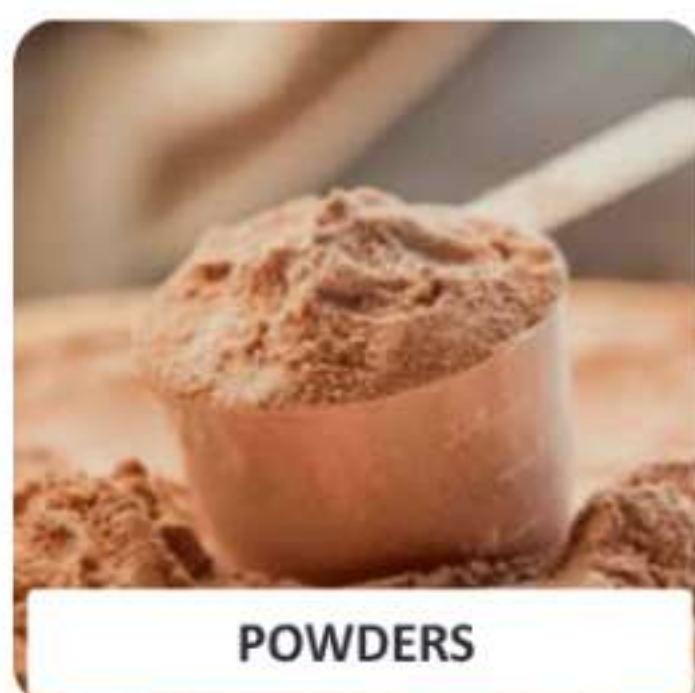
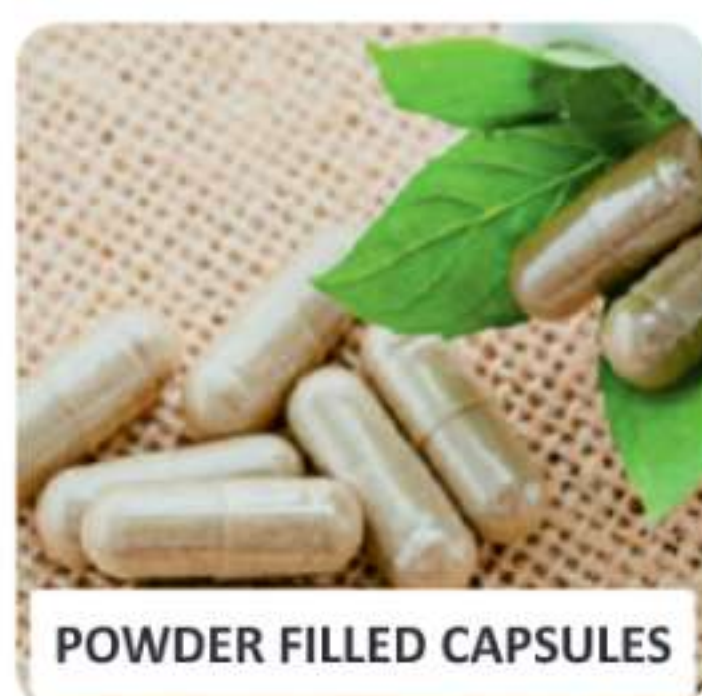


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## OTHER DOSAGE FORMS



*For more details*



*Scan me*

**NUTRA GRACE**

B-11/7 & 11/8, IDA, Uppal, Hyderabad - 500039, Telangana, INDIA.