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Vibrant Ltd.

Study Protocol: V-280

Study number: NCT05036369


Protocol number: 280CLD

Protocol Date: 24 May2021, Rev. 01

A Prospective, Randomized, Multi-center, Double-Blinded, Clinical Study to Assess the Efficacy and Safety of Vibrant Capsule vs. Placebo, for the Treatment of Chronic Idiopathic Constipation

Confidentiality statement:

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1. Sponsor Statement of compliance

The sponsor of this study, Vibrant Ltd., manufacturer of the investigational device, legally represented by Lior Ben-Tsur, Chief Executive Officer, states the following:

- a. to assume responsibility related to the clinical investigation;
- b. that the treatments used to perform the clinical study are adequate for the device under investigation;
- c. that the clinical study, as for the responsibility of the manufacturer, will be conducted in conformance with:


The Federal Food, Drug, and Cosmetic Act, as amended, and regulations promulgated thereunder (“the Act”) and the United States Food and Drug Administration (“FDA”) regulations governing the protection of human subjects and regulations governing clinical investigators, The World Medical Association Declaration of Helsinki, titled “Ethical Principles for Medical Research Involving Human Subjects”, ICH/GCP guidelines, Applicable relevant national legislation, HIPAA as defined in 45. C.F.R. section 164.501 or relevant national equivalent and following revisions or other analogous internationally recognized standards, to be specified, and only after the approval, by the competent Ethics Committee, of the investigational protocol, the informed consent and the documentation required by the above mentioned standards;

Print Name:

Signature:

Date:

██████████

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2. Investigator Signature:

Prior to participation in this study, a written approval must be obtained from the Institutional Review Board, and copy should be provided to the Sponsor, Vibrant Ltd., or their authorized representatives, along with the Institutional Review Board approved Informed Consent Form.

The Principal Investigator must also:

- Conduct the study in accordance with the study protocol, the Investigator Agreement, Declaration of Helsinki, Good Clinical Practices, international harmonized standards for clinical investigation of medical devices (Title 21 of the Code of Federal Regulations (21 CFR), part 812 (Investigational Device Exemptions), the laws and regulations of the countries where the study will take place, indemnity/insurance requirements and any other applicable regulations.
- Agree to participate in an appropriate training program as part of the study initiation.
- Assure that informed consent is obtained from each subject prior to enrollment, using the Institutional Review Board approved form.
- Assure that the study is not commenced until Institutional Review Board approval has been obtained.
- Provide all required data and agree to source document verification of study data with subject's medical records.
- Allow staff of the Sponsor and its authorized representatives, as well as representatives from regulatory agencies, to review, inspect and copy any documents pertaining to this clinical investigation.

The Principal Investigator (PI) may delegate one or more of the above functions to an associate or sub-investigator. However, the PI retains overall responsibility for proper conduct of the study, including obtaining and documenting subject informed consent, compliance with the study protocol, and the collection of all required data.

Principal Investigator Statement:

I the undersigned, have reviewed this protocol and agree to conduct this study in adherence to the study protocol, GCP (Good Clinical Practice) compliance, Ethical principles set forth in the declaration of Helsinki and authority regulations for the protection of human subjects participating in clinical trials.

Print Name:

Signature:

Date:




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3. List of Abbreviations


| | |
|---------|--|
| % | Percent |
| AE | Adverse Event |
| ADE | Adverse Device Effect |
| AGA | American Gastroenterological Association |
| AR | Authorized Representative |
| BMI | Body Mass Index |
| BUN | Blood Urea Nitrogen |
| CSBM | Complete Spontaneous Bowel Movement |
| eCRF | Electronic Case Report Form |
| CI | Confidence Interval |
| CIC | Chronic Idiopathic Constipation |
| DSMB | Data and Safety Monitoring Committee |
| EC | Ethics Committee |
| ECG | Electrocardiogram |
| EDC | Electronic Data Capture |
| FA | Full Analysis Set |
| FC | Functional Constipation |
| GCP | Good Clinical Practice |
| FDA | Food and Drug Administration |
| IBS-C | Irritable Bowel Syndrome with Constipation |
| ICF | Informed Consent Form |
| ICH | International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use |
| IFU | Instruction for Use |
| IRB | Institutional Review Board |
| ISF | Investigator Site Files |
| ITT | Intent To Treat |
| Mg | Milligram |
| mg | Microgram |
| Min | minute(s) |
| MFR | Manufacturer |
| NCAs | National Competent Authorities |
| NSAIDs | Non-Steroidal Anti-Inflammatory Drugs |
| mITT | Modified Intent to Treat |
| OTC | Over The Counter |
| PAC-QOL | Patient Assessment of Constipation Quality of Life questionnaire |

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| PEG | Polyethylene glycol |
| PI | Principal Investigator |
| PP | Per Protocol |
| QOL | Quality of life |
| SAE | Serious Adverse Event |
| SADE | Serious Adverse Device Effect |
| SBM | Spontaneous Bowel Movement |
| US | United States |
| USADE | Unanticipated Serious Adverse Device Effect |

4. Protocol Synopsis

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| Title | A Prospective, Randomized, Multi-center, Double-Blinded, Clinical Study to Assess the Efficacy and Safety of Vibrant Capsule vs. Placebo, for the Treatment of Chronic Idiopathic Constipation |
| Indication | The Vibrant Capsule is intended for the treatment of adult subjects with Chronic Idiopathic Constipation. |
| Objectives | The objectives are to assess the efficacy and safety of Vibrant capsule administered twice a week |
| Number of Subjects | About 102 enrolled subjects including 10% drop-outs. |
| Number of centers | The study will be performed in about 30 centers |
| Study Duration | Study duration is 10 to 12 weeks <ul style="list-style-type: none"> - 2 to 4 weeks of run-in - 8 weeks of treatment |
| Design | <p>The study is a prospective, randomized, multicenter, adaptive design, double blinded clinical study, to evaluate the efficacy and safety of Vibrant Capsule vs. placebo in relieving constipation in subjects with Chronic Idiopathic Constipation.</p> <p>Two arms will be assessed (at a ratio of 1:1 of Vibrant Treatment vs. placebo):</p> <ul style="list-style-type: none"> - Vibrant Capsule administered twice a week (Monday and Thursday) - Placebo Capsule administered twice a week (Monday and Thursday) |

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| | <p>This is a double-blind study. The subjects and the evaluators will be blinded to the treatment allocated to each subject. Each site will assign an unblinded person that will handle all issues related to capsule administration and accountability. The unblinded person will not be involved in any subject's assessments. Rest of the site staff will remain blind throughout the study.</p> <p>An interim analysis will be performed after about 80 evaluable subjects will complete 8 weeks of treatment. The following parameters will be assessed: primary endpoint, and main safety parameters.</p> <p>Depending on the results of the interim analysis:</p> <ul style="list-style-type: none"> • The study will be stopped, • The study will continue as planned • The sample size will be increased |
| Method | <p>Subjects will come for 4 visits: Screening (visit 1), baseline (visit 2), after 4 treatment weeks from baseline (visit 3) and after 8 treatment weeks from baseline (Final visit , visit 4). A total of 8 treatment weeks.</p> <p><u>Visit 1</u> - Screening: Subjects will be identified (by driving license or any other identity card) and consented into the study, PAC-QOL questionnaire will be completed. Following this visit, subjects who meet the study criteria will start a run-in period that will last 2-4 weeks. During this run in period subjects will be instructed to complete a simple seDiary every day before bed time. The eDiary includes questions on:</p> <ul style="list-style-type: none"> • Daily BM • Change of subject's diet, if applicable (NOTE: the protocol will not ask/require the subjects to change anything in his/her diet) • Change in symptoms as: Bristol stool consistency, straining, bloating, and the other questions in the eDiary • Medication |

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- Change in general health condition

Assessment of subject's eligibility will be based on 14 consecutive days of this eDiary. In accordance with inclusion #3, subjects with a weekly average of ≥ 1 SBM and ≤ 2.5 SBM will be eligible for the study (assuming all other criteria are met). In any case, subjects should have at least 1 SBM and not more than 3 SBMs during each of the run-in weeks.

Visit 2 - Baseline: After the run-in period, subjects will attend the Baseline visit and eligibility will be re-assessed. Subjects will be randomized with a ratio of 1:1 to either active capsule, or placebo capsule. for a treatment period of 8 weeks. Subjects will be trained on their treatment administration as well as on the usage of the base unit and will have their first capsule administration on site.


Subjects will be instructed to continue completion of the eDiary each day until the end of the study.

The first 2 weeks of treatment will be considered as a subjects' training period.

Visit 3 – after 4 weeks of treatment - an on site visit will take place to evaluate subject's treatment safety. Additional supply of capsules for additional 4 weeks of treatment will be dispensed to the subjects.


Visit 4 - Final visit –after another 4 weeks of treatment - an on site visit will take place to evaluate subject's treatment safety. Base units and remaining supplies (including capsules) will be collected.

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| | <p>PAC-QOL and Ease of use questionnaires will be completed.</p> <p>During the entire study period, data reporting will be done on an electronic Case Report Form (eCRF) and an eDiary.</p> <p>During the entire study period subjects will be asked to refrain from taking any medications or supplements to relieve their constipation.</p> <p>Subjects will be authorized to use rescue medication after 3 consecutive days without a bowel movement.</p> |
| Endpoints | <p>Primary endpoints:</p> <p>Efficacy Endpoints:</p> <p>The two primary efficacy endpoints are the CSBM1 success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment, and CSBM2 success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment.</p> <p>The study will be deemed successful if either the CSBM1 <u>or</u> the CSBM2 success rate is statistically significantly higher in the active arm than in the placebo arm.</p> <p>NOTE:</p> <ul style="list-style-type: none"> A spontaneous bowel movement (SBM) is defined as a bowel movement that occurs at least 48h after laxative/rescue intake and without digital maneuver. |


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| | <ul style="list-style-type: none"> • A complete spontaneous bowel movement (CSBM) is defined as a spontaneous bowel movement associated with a feeling of complete evacuation by the subject. <p>Safety Endpoints: Safety endpoints include all adverse events related and unrelated to the study treatment</p> <p>Secondary Efficacy Endpoints: Secondary efficacy endpoints include:</p> <ul style="list-style-type: none"> • Change from baseline in average straining. • CSBM1 expanded success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment. • Change from baseline in average stool consistency, using the Bristol Stool Scale • CSBM2 expanded success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment. • Change from baseline in average bloating. <p>Additional Efficacy Endpoints: Additional efficacy endpoints include:</p> <ul style="list-style-type: none"> • SBM success rate, defined as an increase from baseline period of at least one weekly Spontaneous Bowel Movement (SBM) during at least 6 of the 8 weeks of treatment. • Incidence of Rescue Medication use during the treatment period |
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| | <ul style="list-style-type: none"> • Change from baseline in weekly number of Spontaneous Bowel Movement (SBM). • Change from baseline in weekly number of Complete Spontaneous Bowel Movement (CSBM). • Rate of SBM \leq 24 hours after first dose • Change from baseline in average abdominal gas. • Change from baseline in average abdominal pain. • Change from baseline in abdominal discomfort. • Time to occurrence of spontaneous bowel movement after first capsule activation. • Change from baseline in quality of life using the PAC-QOL (Patient Assessment of Constipation Quality of Life) questionnaire. |
| Subject Population | Subjects with Chronic Idiopathic Constipation |
| Inclusion criteria | <ol style="list-style-type: none"> 1. Subjects aged 22 years and older 2. Subjects with Chronic Idiopathic Constipation (CIC) according to Rome IV criteria 3. Subjects who have not experienced relief of their symptoms from one or more available therapies (for at least one month at recommended dose) or unable to tolerate these therapies 4. Subjects with an average of ≤ 2.5 Spontaneous Bowel Movements (SBM) per week and ≥ 1 SBM per week (as a result of at least 1 SBM and not more than 3 SBMs during each of the run-in weeks) 5. Subjects above 50 years old or < 50 years old and with alarm signs should have colonoscopy performed within 10 years prior to study participation. Colonoscopy results should exclude GI obstruction and/or GI malignancy |


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| | <ol style="list-style-type: none"> 6. Subject signed the Informed Consent Form (ICF) 7. Female subjects must have a negative blood pregnancy test during screening, confirmed by a negative urine pregnancy test during baseline and must not be lactating prior to receiving study medication. For females of child-bearing potential, a hormonal (i.e., oral, implantable, or injectable) and single-barrier method, or a double-barrier method of birth control must be used throughout the study. All other female subjects must have the reason for their inability to bear children documented in the medical record [i.e., tubal ligation, hysterectomy, or post-menopausal (defined as a minimum of one year since the last menstrual period)]; in these circumstances, a pregnancy test will not be necessary. |
| Exclusion criteria | <ol style="list-style-type: none"> 1. History of complicated/obstructive diverticular disease 2. History of intestinal or colonic obstruction, or suspected intestinal obstruction. 3. History of significant gastrointestinal disorder, including any form of inflammatory bowel disease or gastrointestinal malignancy (celiac disease is accepted if the subject has been treated and is in remission) 4. Clinical evidence of current and significant gastroparesis 5. Use of any of the following medications: <ul style="list-style-type: none"> ○ Medications that may affect intestinal motility (including but not limited to prokinetics, anti-Parkinsonian medications, opiates, opioids, Verapamil, Nifedipine, iron, magnesium supplements, Tricyclic antidepressants (TCAs), Heparin, Warfarin and Baclofen. ○ With the exception of antidepressants (other than TCAs), thyroid or hormonal replacement therapy, when the subject has been on a stable dose for at least 3 months prior to enrollment. |


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| | <ol style="list-style-type: none"> 6. Clinical evidence of significant respiratory, cardiovascular, renal, hepatic, biliary, endocrine, psychiatric or neurologic disease. 7. Presence of cardiac pacemaker, gastric electrical stimulator or any electrical implanted device. 8. History of, or current eating disorders, such as anorexia, bulimia, or compulsory overeating. 9. Diagnosis of mega-rectum or colon, congenital anorectal malformation, clinically significant rectocele, history of intestinal resection (with an exception for appendectomy, cholecystectomy and inguinal hernia repair), history of bariatric surgery or evidence of any structural abnormality of the gastrointestinal tract that might affect capsule's transit 10. History of Zenker's diverticulum, dysphagia, esophageal stricture, eosinophilic esophagitis or achalasia 11. Chronic use of non-steroidal anti-inflammatory drugs (NSAIDs): chronic use is defined as taking full dose NSAIDs more than three times a week for at least six months. Subjects on cardiac doses of aspirin may be enrolled in the study 12. Subjects with pelvic floor dysfunction/defecatory disorder, based on subject history 13. Participation in another interventional clinical study within one month prior to screening. 14. Women who are pregnant or lactating 15. Use of any medication for constipation relief during the study, except as rescue medication, as indicated by study rules 16. Inability to use an electronic daily Diary (on a computer, phone application, tablet or other electronic device) to report bowel movements, symptoms and medication usage |
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| | 17. Subject participated in a previous Vibrant study 18. Subjects planning to undergo MRI during the study 19. Any known allergy to soybean, beeswax, Calcium Carbonate, Gelatin, Glycerin or Titanium dioxide 20. Any other condition which in the opinion of the investigator may adversely affect the safety of the subject or would limit the subject's ability to complete the study |
| Statistical analysis | <p>Study Hypotheses:</p> <p>In this study, we will test the following hypotheses:</p> <ul style="list-style-type: none"> • $H_0 : P_{a1} - P_{s1} = 0$ • $H_1 : P_{a1} - P_{s1} \neq 0$ <p>Where P_{a1} is the CSBM1 success rate in the selected active arm, and P_{s1}, the CSBM1 success rate in the placebo arm.</p> <p>AND:</p> <ul style="list-style-type: none"> • $H_0 : P_{a2} - P_{s2} = 0$ • $H_1 : P_{a2} - P_{s2} \neq 0$ <p>Where P_{a2} is the CSBM2 success rate in the selected active arm, and P_{s2}, the CSBM2 success rate in the placebo arm.</p> <p><u>Sample size:</u></p> <p>A sample size is calculated to test the null hypothesis. Calculations (using SAS[®] proc power) show that a sample size of 92 subjects (46 in each of the 2 study arms), would provide 80% power at a study wise 5% level of significance (two-sided), i.e. 2.5% for each one of the primary endpoints to</p> |

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| | <p>detect a difference of 28% in the success rate, assuming a success rate of 12% in the placebo arm.</p> <p>The sample size will be increased to at least 102 subjects (54 in each of the 2 study arms) to account for a potential 10% of drop-out rate.</p> <p><u>Main Efficacy Analysis:</u></p> <p>The subject's CSBM1 success status (i.e. if the subjects achieve an increase from baseline of at least 1 weekly CSBM during at least 6 out of the 8 treatment weeks will be presented in tabular form by study arm, along with 95% Wilson score Confidence Intervals (CI) and will be compared between the study arms with a Cochran-Mantel-Haenszel test controlling for center.</p> <p>The CSBM2 success rate will be analyzed in the same manner.</p> |
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5. INTRODUCTION

This document is a clinical research protocol and the described study will be conducted in compliance with the protocol, standards of Good Clinical Practices and associated regulations, and all applicable research requirements.


6. BACKGROUND

Chronic constipation is a common gastrointestinal disorder in the general population. It is estimated that chronic constipation affects between 2 and 27% of the population. A majority of chronic constipation sufferers are women, who represent three-fourths of those affected¹.

Constipation may be primary (Chronic Idiopathic Constipation (CIC), Irritable Bowel Syndrome with Constipation (IBS-C)) or secondary to other factors (such as drugs like opioids, colorectal cancer, diabetes, Parkinson's disease or spinal cord injury). It is estimated that 100 million adults in the United States (US) have chronic pain².

There is no widely accepted definition of chronic constipation. Although physicians often define constipation based on stool frequency, subjects experience constipation as a multi-symptom disorder that includes infrequent bowel movements, hard or lumpy stools, straining, bloating, a feeling of incomplete evacuation after a bowel movement and abdominal discomfort³. The Rome Foundation has created symptom-based diagnostic criteria for chronic constipation. To meet the definition of chronic constipation, the criteria must be fulfilled for the prior 3 months with symptom onset at least 6 months prior to diagnosis⁴.

Chronic constipation impacts quality of life and is perceived by subjects as a severe disease³. Adding to the burden of disease, constipation is among the ten most expensive gastrointestinal diseases in terms of direct and indirect healthcare costs⁵. A recent systematic review of the disease burden of IBS and CIC found the attributable direct costs of IBS to range from approximately \$1,600 to \$7,500 per subject-year, whereas the attributable direct costs of CIC range from approximately \$1,900 to \$7,500 per subject-year⁶.

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Although a variety of treatment options are available for chronic constipation, subjects have reported low satisfaction with current treatment alternatives in multiple published studies. Thus, there is a need for additional therapeutic options that address subject symptoms and preferences.

Constipation Management

The American Gastroenterological Association (AGA) has established a treatment algorithm for constipation that provides multiple therapeutic steps depending on severity of symptoms. See [http://www.gastrojournal.org/article/S0016-5085\(12\)01545-4/pdf](http://www.gastrojournal.org/article/S0016-5085(12)01545-4/pdf). The first step in the treatment of constipation focuses on lifestyle modification with three main parameters: adequate fluid intake, a high fiber diet and regular physical activity.


Fiber absorbs water, increases stool bulk, and in doing so stimulates the bowel to decrease stool transit time and ease evacuation. Medicinal and dietary fiber supplements, such as psyllium, can be added to the high fiber diet or used as primary therapy.

If lifestyle modification does not produce satisfactory results, subjects have access to a number of FDA-approved products (Food and Drug Administration), available both over the counter (OTC) and by prescription. Stool softeners (docusate sodium, docusate calcium) act by decreasing surface tension to allow water to enter the bowel more readily, making the stool softer, which makes it easier and less painful to pass. However, there is currently limited data on the efficacy of stool softeners in subjects with constipation¹.

Osmotic laxatives are also available, including polyethylene glycol (PEG), lactulose, magnesium hydroxide, magnesium citrate, magnesium sulfate, and sodium phosphate. PEG and lactulose have been shown to improve stool frequency and stool consistency^{1,6,7}.

Osmotic laxatives contain poorly absorbed ions or molecules that retain water in the intestinal lumen. Although effective, they can cause bloating and cramping. In addition, due to their mechanism of action, they should be used with caution in older adults and in subjects with renal impairment because of the risk of dehydration and electrolyte disturbances.

Stimulant laxatives include senna, bisacodyl or sodium picosulphate. They induce fluid and electrolyte secretion by the colon or induce peristalsis in the colon, thereby producing a bowel movement.

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Recent advances in research have resulted in new classes of medication for the treatment of constipation, available on prescription. For example, linaclotide is an agonist of guanylate cyclase-C receptors, and increases chloride, bicarbonate and fluid secretion into the intestinal lumen, lubricating the stool and accelerating gastrointestinal transit. Linaclotide was FDA-approved in 2012 for CIC and IBS-C. Adverse events include diarrhea, which leads to discontinuation of the medication in approximately 5% of subjects⁸. In total, 8% of subjects in linaclotide clinical trials discontinued due to adverse events, and 27% had their dose reduced or suspended secondary to adverse reactions, the majority of which were diarrhea or other gastrointestinal adverse reactions. See http://www.accessdata.fda.gov/drugsatfda_docs/label/2014/202811s004lbl.pdf

Lubiprostone is approved for use in women with IBS-C and in men and women with CIC, as well as opioid-induced constipation in subjects with non-cancer pain. It is a selective chloride channel activator, increasing ion and fluid secretion. The main adverse events associated with Lubiprostone are mild to moderate nausea and diarrhea^{2,9}. Approximately 29% of subjects who received Lubiprostone 24 mcg twice daily in clinical trials experienced nausea; 4% of subjects had severe nausea while 9% of subjects discontinued treatment due to nausea. Approximately 12% of subjects who received Lubiprostone 24 mcg twice daily experienced diarrhea; 2% had severe diarrhea while 2% discontinued treatment due to diarrhea. In addition, it has been reported to cause dyspnea, which was reported in 2.5% of the treated chronic idiopathic constipation population and 0.4% in the treated IBS-C population. Although not classified as serious adverse events, some subjects discontinued treatment because of this event. These events have usually been described as a sensation of chest tightness and difficulty taking in a breath, and generally have an acute onset within 30-60 minutes after taking the first dose. They generally resolve within a few hours after taking the dose, but recurrence has been frequently reported with subsequent doses. See http://www.accessdata.fda.gov/drugsatfda_docs/label/2008/021908s005lbl.pdf.

In subjects with severe chronic constipation, surgery may be considered; however, it is generally limited to use in the most severe cases after medical management has failed to provide adequate relief. In subjects with severe incapacitating slow transit constipation, colectomy with ileorectal anastomosis can improve constipation and related symptoms^{10,11}.

In summary, while there are a variety of treatments available for constipation, there is currently no satisfactory treatment for many constipated subjects: a US study showed that 47% of constipated subjects are not completely satisfied with their current constipation treatment³, while a European study showed that only 27% of European subjects are satisfied with current treatment options⁵. Furthermore, many subjects become refractory to one or more OTC laxatives with chronic use, which may cause frustration for both

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the clinician and the subject, and ultimately leads many subjects to abandon therapy and remain dissatisfied with their condition². Nearly 90% of subjects express interest in new therapies¹².

7. DEVICE NAME AND INTENDED USE

7.1 *Device Name*

Vibrant Capsule

7.2 *Intended Use*

The Vibrant Capsule is an orally administered non-biodegradable vibrating capsule intended to be prescribed for the treatment of adult chronic idiopathic constipation in patients who have not experienced relief of their symptoms from one or more available therapies (used for at least 1 month at recommended dosage) or unable to tolerate these therapies. The capsule achieves its purpose by mechanically inducing a bowel movement in the large intestine.

8. DEVICE DESCRIPTION

The Vibrant Capsule is designed to mechanically induce a peristaltic wave in the large intestine, thus aiding in relieving constipated subjects. Constipation relief is achieved by the capsule's vibrations impinging on the gastrointestinal wall, consequently inducing peristaltic activity which promotes transit and facilitates defecation.

The Vibrant Capsule has several important features:

- Small Dimensions.
- Easy to swallow (smooth shell).

[REDACTED]

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8.1 Capsule

8.1.1 Vibrant Active:

[REDACTED]

[REDACTED]

[REDACTED].

Figure 1. The capsule and components

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8.1.2 Vibrant Placebo:

[REDACTED]

[REDACTED]

8.1.3 Accessory: activation base unit

A user friendly activation base was developed by the company for subject use ([REDACTED]). The activation base (or base unit) is meant to be used at home by subjects. The base unit is easy to use and requires a simple training before taking it home. Subjects will activate the capsule themselves at home.

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Figure 3. Activation base: description of components and image

Setting up the base unit

[REDACTED]

8.2 *Capsules Activation*

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9. RISKS & BENEFITS

The Vibrant Capsule is designed according to international standards for medical devices. Compliance with these standards ensures that the device can be used safely in human beings.

Biocompatible materials are used for the vibrating capsule components. The use of biocompatible materials should protect the subject of any hazardous from possible adverse events.

The device classification according to ISO10993-1 and FDA's guidance *Use of International Standard ISO-10993-1:2009, "Biological Evaluation of Medical Devices Part 1: Evaluation and Testing": Draft Guidance for Industry and Food and Drug Administration Staff* ("FDA Biocompatibility Guidance") is as follows:

Category: Surface device.

Contact duration: permanent contact (>30 days)

Contact: breached or compromised surfaces.

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9.1 Risks

The Vibrant capsule has been designed to mechanically induce a normal peristaltic wave in the large intestine, thus aiding in relieving constipated subjects.

The capsule moves through the gastrointestinal system, without interacting with any other body system and does not deliver medication of any kind. The Vibrant capsule targets basic pathophysiological factors contributing to chronic constipation by inducing intrinsic contractile activity without using chemical supplements. The capsule operates without any biological interference.

[REDACTED]

[REDACTED]

Device manufacturing and assembly is done in an ISO 13485:2003 facility.

[REDACTED]

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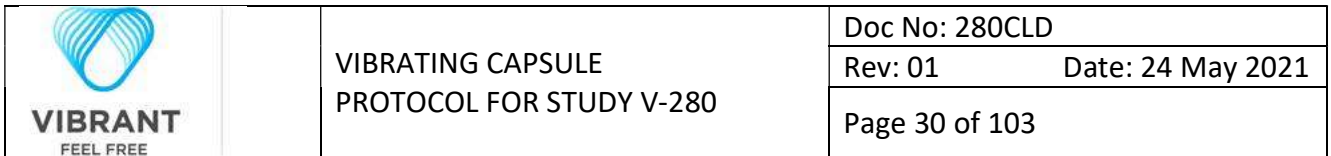


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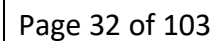
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12. STUDY OBJECTIVE

The objectives are to assess the efficacy and safety of Vibrant capsule administered twice a week.

13. STUDY ENDPOINTS

13.1 *Primary endpoint*

Efficacy:

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There are two primary efficacy endpoints for this study. The two primary efficacy endpoints are the CSBM1 success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment, and CSBM2 success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment.

The study will be deemed successful if either the CSBM1 or the CSBM2 success rate is statistically significantly higher in the active arm, than in the placebo arm.

NOTE:

A spontaneous bowel movement (SBM) is defined as a bowel movement that occurs at least 48h after laxative/rescue intake and without digital maneuver.

A complete spontaneous bowel movement (CSBM) is defined as a spontaneous bowel movement associated with a feeling of complete evacuation by the subject.


Safety Endpoints:

- Safety endpoints include all adverse events related and unrelated to the study treatment

13.2 *Secondary endpoints*

Secondary efficacy endpoints include:

- Change from baseline in average straining.
- CSBM1 expanded success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment.
- Change from baseline in average stool consistency, using the Bristol Stool Scale

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- CSBM2 expanded success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment
- Change from baseline in average bloating.

Additional efficacy endpoints include:

- SBM success rate, defined as an increase from baseline of at least one weekly Spontaneous Bowel Movement (SBM) during at least 6 of the 8 weeks of treatment.
- Incidence of Rescue Medication use during the treatment period
- Change from baseline period in weekly number of Spontaneous Bowel Movement (SBM).
- Change from baseline period in weekly number of Complete Spontaneous Bowel Movement (CSBM).
- Rate of SBM \leq 24 hours after first dose
- Change from baseline period in average abdominal gas.
- Change from baseline period in average abdominal pain.
- Change from baseline period in abdominal discomfort.
- Time to occurrence of spontaneous bowel movement after first capsule activation.
- Change from baseline in quality of life using the PAC-QOL (Patient Assessment of Constipation Quality of Life) questionnaire.

14. STUDY CONDUCT & POPULATION

This study will be performed in accordance with the design and specific provisions of this protocol, in accordance with the ethical principles that have their origin in the Declaration of Helsinki, that are consistent with Good Clinical Practice (GCP), Title 21 of the Code of Federal Regulations (21 CFR), part 812 (Investigational Device Exemptions), and the applicable regulatory requirements.


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14.1 *Inclusion Criteria*


1. Subjects aged 22 years and older.
2. Subjects with Chronic Idiopathic Constipation (CIC) according to Rome IV criteria
3. Subjects who have not experienced relief of their symptoms from one or more available therapies (for at least one month at recommended dose) or unable to tolerate these therapies.
4. Subjects with an average of ≤ 2.5 Spontaneous Bowel Movements (SBM) per week and ≥ 1 SBM per week (as a result of at least 1 SBM and not more than 3 SBMs during each of the run-in weeks)
5. Subjects above 50 years old or < 50 years old and with alarm signs should have colonoscopy performed within 10 years prior to study participation. Colonoscopy results should exclude GI obstruction and/or GI malignancy.
6. Subject signed the Informed Consent Form (ICF)
7. Female subjects must have a negative blood pregnancy test during screening, confirmed by a negative urine pregnancy test during baseline and must not be lactating prior to receiving study medication. For females of child-bearing potential, a hormonal (i.e., oral, implantable, or injectable) and single-barrier method, or a double-barrier method of birth control must be used throughout the study. All other female subjects must have the reason for their inability to bear children documented in the medical record [i.e., tubal ligation, hysterectomy, or post-menopausal (defined as a minimum of one year since the last menstrual period)]; in these circumstances, a pregnancy test will not be necessary.

14.2 *Exclusion Criteria*

1. History of complicated/obstructive diverticular disease
2. History of intestinal or colonic obstruction, or suspected intestinal obstruction.
3. History of significant gastrointestinal disorder, including any form of inflammatory bowel disease or gastrointestinal malignancy (celiac disease is accepted if the subject has been treated and is in remission)
4. Clinical evidence of current and significant gastroparesis
5. Use of any of the following medications:

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- Medications that may affect intestinal motility (including but not limited to prokinetics, anti-Parkinsonian medications, opiates, opioids, Verapamil, Nifedipine, iron, magnesium supplements, Tricyclic antidepressants (TCAs), Heparin, Warfarin and Baclofen.
 - With the exception of antidepressants (other than TCAs), thyroid or hormonal replacement therapy, when the subject has been on a stable dose for at least 3 months prior to enrollment.
6. Clinical evidence of significant respiratory, cardiovascular, renal, hepatic, biliary, endocrine, psychiatric or neurologic disease.
 7. Presence of cardiac pacemaker, gastric electrical stimulator or any electrical implanted device.
 8. History of, or current eating disorders, such as anorexia, bulimia, or compulsory overeating.
 9. Diagnosis of mega-rectum or colon, congenital anorectal malformation, clinically significant rectocele, history of intestinal resection (with an exception for appendectomy, cholecystectomy and inguinal hernia repair), history of bariatric surgery or evidence of any structural abnormality of the gastrointestinal tract that might affect capsule's transit.
 10. History of Zenker's diverticulum, dysphagia, esophageal stricture, eosinophilic esophagitis or achalasia
 11. Chronic use of non-steroidal anti-inflammatory drugs (NSAIDs): chronic use is defined as taking full dose NSAIDs more than three times a week for at least six months. Subjects on cardiac doses of aspirin may be enrolled in the study.
 12. Subjects with pelvic floor dysfunction/defecatory disorder, based on subject history.
 13. Participation in another interventional clinical study within one month prior to screening.
 14. Women who are pregnant or lactating
 15. Use of any medication for constipation relief during the study, except as rescue medication, as indicated by study rules.
 16. Inability to use an electronic daily Diary (on a computer, phone application, tablet or other electronic device) to report bowel movements, symptoms and medication usage.
 17. Subject participated in a previous Vibrant study.
 18. Subjects planning to undergo MRI during the study.
 19. Any known allergy to soybean, beeswax, Calcium Carbonate, Gelatin, Glycerin or Titanium dioxide
 20. Any other condition which in the opinion of the investigator may adversely affect the safety of the subject or would limit the subject's ability to complete the study.

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14.3 *Duration of Study*

Study duration includes at least 2-4 consecutive weeks of run-in, followed by 8 weeks of treatment - Total of at least 10-12 weeks. The sample size is calculated for about 102 enrolled subjects (depending on the results of the sample size adaptation) including 10% drop-outs.

Actual point of enrollment for the subject is considered the day of first capsule intake.

15. STUDY TREATMENT

15.1 *Study Design*


The study is a prospective, randomized, multi-center, double-blinded, clinical study to assess the efficacy and safety of the Vibrant capsule vs. placebo, for the treatment of Chronic Idiopathic Constipation.

The objectives are to assess the efficacy and safety of Vibrant capsule administered twice a week vs. Placebo in subjects with chronic idiopathic constipation.

The study will be performed in about 30 centers in the USA.

Data reporting will be done on an electronic Case Report Form (eCRF). In addition, subjects will fill in daily information about their bowel movements, clinical symptoms and medication usage on an electronic Diary (eDiary). The eDiary will be accessed via a computer, smartphone, tablet or other suitable device, through a designated website.

Information about time of activation of the Vibrant Capsules will be recorded automatically by the base unit and automatically transferred to a designated website.

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Subjects with Chronic Idiopathic Constipation (CIC) according to Rome IV criteria and meet the study inclusion and exclusion criteria will be offered participation in this study. The background of the proposed study and its risks and benefits will be explained to the subject and the informed consent form will be signed prior to any study related procedures.

Subject will come for 4 visits: Screening, baseline, after 4 weeks and after 8 weeks of treatment.

During the visits, the following topics will be discussed: occurrence of adverse events, compliance to filling in the daily information on the eDiary and to the treatment, concomitant medication/rescue taken, evolution of constipation symptoms, subject's perceptions about the treatment, motivation of the subject, or any other relevant topic.

Subjects will take either Vibrant or Placebo capsule during 8 weeks:


Two arms will be assessed:

- Vibrant Capsule administered twice a week (Monday and Thursday)
- Placebo Capsule administered twice a week (Monday and Thursday)

The first capsule will be administrated on site at the baseline visit and the next capsules will be swallowed at subject's home (for more details see section 15.9).

15.2 Medical History

Subject's demographic and medical information acquired from the subject or the subject's medical chart, including age, gender, weight, height, body mass index (BMI), number of natural childbirth and previous medical history and medications will be recorded, including: a history of clinically significant abnormalities of all body systems; concurrent diseases; relevant past medical history.

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15.3 *Constipation History*

Full history of constipation will be recorded on the eCRF, including duration of constipation, full history and habits of medication (over the counter and prescription) and supplements use, frequency of spontaneous bowel, current medication/supplements use, description of current diet (with focus on water intake and fiber intake), physical activity (number of hours of physical activity per week), recent change in bowel movements.

15.4 *Physical Examination*

During the screening visit all subjects will undergo a conventional physical examination by an authorized physician. The physical examination will include diagnosis and documentation of any significant abnormalities or diseases. The physical examination includes a digital rectal examination.


15.5 *Assessment of pelvic floor dysfunction (defecatory disorder)*

Assessment of pelvic floor dysfunction will be based on subject history. Subjects with suspicion of pelvic floor dysfunction will be excluded.

If subjects have been previously diagnosed with pelvic floor dysfunction following anorectal manometry, a balloon expulsion test, or other examinations, documented results from these tests can be used to exclude subjects.

15.6 *Blood and urine tests*

During the screening visit all subjects will undergo or provide lab test results from the past 3 months (providing no recently medical changes in patient illness) for the following but not limited to blood tests: blood count, calcium, creatinine, Blood Urea Nitrogen (BUN), sodium, potassium and TSH. Blood pregnancy test will be performed during the screening visit and urine pregnancy test will be performed at baseline before the 1st capsule administration.

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15.7 Screening visit (day -28 to -14)

Subject will be identified by driving license or any other identity card. A copy of the identity card will be kept in the subject source documents.

Subjects will be asked to sign a consent form and will be screened for study eligibility according to inclusion and exclusion criteria. The daily bowel movements frequency, history of constipation, etiology of constipation and medication use (including prescription medication) will be thoroughly assessed. Subject demographic and medical information acquired from the subject or the subject's medical chart, including age, gender, previous medical history, concomitant medications, risk factors etc. will be also recorded on the eCRF.


For subjects over 50 years old a colonoscopy report should be confirmed and available during the screening visit (see incl. #5). The Bristol Stool Scale and Rome IV questionnaire (see Appendix A, B) will be completed and signed by the investigator, who is a physician to confirm the diagnosis of Chronic Idiopathic Constipation. Findings will be recorded on the eCRF.

In addition, subjects will undergo a physical examination including digital rectal examination, vital signs measurements and blood tests or blood test results from the past 3 months (providing no recently medical changes in patient illness). PAC-QOL (see Appendix D) be completed by the subject at screening visit.

The investigator will confirm their eligibility and their physical and mental suitability to participate in this study.

Eligible subjects will then be asked to refrain from taking any medication or supplement they are using to relieve their constipation during the entire study period except as allowed under the protocol (rescue treatment is allowed as per section 15.12).

Following the screening visit, subjects will enter the run-in period, in which an e-diary will be completed (on a daily basis and before bedtime) for 14 consecutive days (run-in period). During the screening visit, patient will be trained on how to complete a daily diary and on the definitions for “complete” evacuation and digital maneuver. On the day of screening, the coordinator should determine with the subject the last day of intake of constipation medication/aid and ensure that the last intake of constipation medication/aid has been taken more than 48 hours before the first diary entry.

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The subject will define his/her preferred device to use the eDiary. The subject and study coordinator will define together the time during which the subject will fill in the eDiary (before bed time) and a daily alert will be set up on the phone of the subject.

15.8 *Run-in period (day -28 or -14, to -1)*


Eligible subjects after screening, will be asked to refrain from taking any medication or supplement to relieve their constipation. Subjects will complete the eDiary every day before bedtime. Subject's eligibility according to inclusion #3 will be determined based on 14 consecutive days.

In the eDiary the subjects will be asked to report on their:

- Daily BM,
- Change of diet, if applicable (NOTE: the protocol will not ask the patient to change anything in his/her diet. any change of diet will be recorded in the eDiary)
- Change in symptoms as: Bristol stool consistency, straining, bloating, and the other questions in the eDiary
- Medication
- change in general health condition

The run-in period may be extended by a few days in case of technical issue (difficulty to access eDiary or in case a clear decision cannot be made), to allow for a wash-out period, or other. The run-in period may be extended by up to 14 days.

In case of extension, the last 14 consecutive days of the eDiary will be monitored to determine eligibility of the subjects (based on inclusion #3). Subjects need to have an average of ≥ 1 SBM and ≤ 2.5 SBM per week during the two weeks of run-in for eligibility. In any case, subjects should have at least 1 SBM and not more than 3 SBMs during each of the run-in weeks.

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The study coordinator will monitor the e-diary of each patient to confirm patient's compliance and that data entered is clear. The subjects will receive a short phone call as needed from the study coordinator.

The phone calls may include clarification re eDiary entries, resolving issues of subject compliance with the eDiary, occurrence of adverse events, use of rescue medication, subject understanding of what he/she needs to do in the context of the study and discussion of any issue or difficulty that the subject might have. Documentation of the date and time of the phone call will be reported on the eCRF.

Subjects that miss to complete 3 days (or more) of the e-diary (not due to technical issues) during the run-in period, may be considered as screening failures due to lack of compliance.

During the run in (as well as throughout the whole study period) subjects will need to adhere to rescue medication rules (see section 15.12). Subject that used 3 rescue meds (or more) during the run in period will be considered a screening failure.

15.9 *Baseline / randomization visit (day 0)*


After the run-in period, if subject is found eligible for randomization, the Sponsor will send eligibility confirmation to the site study team following which the subject will be invited to the medical center for the baseline visit for further assessment. Eligibility will be re-assessed, making sure there were not any relevant changes since the screening visit.

Eligible subjects will be randomized to either Vibrant or Placebo arm (1:1ratio), for a treatment period of 8 weeks.

The subjects will be trained in the medical center how to use the base unit. He/she will activate the first capsule and will ingest it in front of the medical staff. All other capsules will be ingested at the subject' home.

During the 8 weeks treatment period, subjects will ingest the capsules twice a week: one capsule on Mondays, and on Thursdays (total of 16 capsules for the whole study). Subjects will not ingest any capsule on any other days of the week.

If the visit falls on a day which is not Monday or Thursday, the subject should ingest the first capsule on site and as follow:

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In case baseline visit occurs on Tuesday, subject will swallow the 1st capsule at the site and the next capsule will be swallowed on Thursday

In case baseline visit occurs on Wednesday, subject will swallow the 1st capsule at the site and the next capsule will be swallowed on Monday

In case baseline visit occurs on Friday, subject will swallow the 1st capsule at the site and the next capsule will be swallowed on Monday

Actual point of enrollment for the subject is considered the day of first capsule intake.

The first 2 weeks of treatment will be considered as a subjects' training period.

During the visit, an interview will be conducted, where the following topics will be discussed: compliance to filling in the daily information on the eDiary, change in concomitant medication/rescue taken, evolution of constipation symptoms, subject's perceptions about the treatment, motivation of the subject, refreshing the definitions of what is "complete" evacuation and digital maneuver or any other relevant topic. In addition, the subject will receive capsules supply for Treatment period 1 (period of 4 weeks between baseline and next visit).


During treatment period 1, Subjects will be instructed to adhere to rescue medications rules (section 15.12) and to continue filling a daily eDiary. This will include daily recordings of capsule intake, number and time of bowel movements, clinical symptoms score, AEs/ change in their health condition , and medication/supplements usage, including rescue medication.

15.10 4 weeks visit (day 28 ± 2)

Four weeks after baseline visit, an on-site visit will be conducted to evaluate subject's treatment efficacy and safety.

During the visit, the following topics will be discussed to evaluate the following:

- subject's safety (including AE/ change in general health condition)

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- eDiary completion
- compliance with capsules intake
- change in concomitant medication/rescue administration
- evolution of constipation symptoms
- device accountability: at 4 weeks visit, subject must bring back to the site all remaining capsules (including spare capsule) in his/her possession and the capsules must be counted and accounted for.
- motivation of the subject, refreshing the definitions of what is “complete” evacuation and digital maneuver or any other relevant topic.


In this visit the subject will receive capsules supply for Treatment period 2 (period of 4 weeks between this visit and termination visit).

During treatment period 2, Subjects will be instructed to adhere to rescue medications rules (section 15.12) and to continue filling a daily eDiary. This will include daily recordings of capsule intake, number and time of bowel movements, clinical symptoms score, AEs/ change in their health condition , and medication/supplements usage, including rescue medication

15.11 8 weeks visit / Termination (day 56 ± 2)

Eight weeks after baseline visit, an on-site visit (final visit) will be conducted to evaluate the following:

- subject's safety (including AE/ change in general health condition).
- eDiary completion
- concomitant medication/rescue administration
- evolution of constipation symptoms
- device accountability: At 8W visit, subject must bring back to the site the base unit and the router as well as all remaining capsules in his/her possession and the capsules must be counted and accounted for.
- PAC-QOL, and ease of use questionnaires

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15.12 *Rescue Treatment*

Subjects will stop using all medications or supplements to relieve constipation during the entire study period and comply to use constipation aid only for rescue.

Using rescue medication is authorized only after 3 consecutive days without a bowel movement and under the rules described below. The subjects will not be required to contact the investigator prior to taking any medication/supplement but they will be required to declare all the rescue medications on their eDiary. The following treatment is recommended (not by order):


1. Dulcolax® (bisacodyl) suppository
2. Fleet Enema®
3. Dulcolax® (bisacodyl) tablet (1x5mg)

The subject is allowed to take a rescue medication/supplement that is not in the above list, without contacting the investigator. The subject must declare all rescue intake in the eDiary.

Subjects who take rescue medication three times or more during the run-in period will be considered as screening failures.

15.13 *Blinding*

This is a double-blind study. The subjects and the evaluators will be blinded to the treatment allocated to each subject. In each site, an unblinded person will be assigned. The unblinded person will be responsible for dispensing the clinical supplies, training the subjects in regards to capsule intake, conducting capsule's accountability and supporting the subjects with any issue regarding capsule intake and activation. The unblinded person will not be part of any subject's assessments throughout the study and will take any measures to make sure none of the evaluators are exposed to the treatment allocated to the subject.

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15.14 *Unblinding*

Prior to breaking the treatment blind, consultation with the PI or the Sponsor will be done. The unblinded person will keep the treatment code list locked in a secure area and can be reached 24 hours a day to rapidly access subject unblinding codes if necessary. If a subject's treatment assignment is unblinded, the information will be provided to only the individuals needing it for treatment decisions, with documentation of the event and the reason for unblinding recorded in the subject's research record. Breaking of the blind for individual patients in emergency situations is an Investigator responsibility. All cases involving emergency unblinding should immediately be reported to the Sponsor, as far as the emergency permits. Other cases of unblinding (intentional or unintentional) should be reported to the Sponsor in writing within 2 business days after the unblinding. If a serious adverse event (SAE) has resulted in unblinding, this information will be included in the SAE Report Form. Information on whether the blind has been broken must be collected before the database is declared clean and is released to the statistician.


15.15 *Concomitant medication*

All medications taken by the subject in addition to the investigational device is termed concomitant medications. All concomitant medications taken during the study must be documented in the case report form (name of drug, date of intake, dosage, number of takes per day, reason for medication). The subject will fill in all the information in the eDiary on a daily basis.

15.16 *Prohibited medications*

The medications listed below will be prohibited during the entire study:

- Medications that may affect intestinal motility
- Prokinetics
- Opiates
- Opioids
- Verapamil
- Nifedipine
- Iron
- Magnesium supplements

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- Tricyclic Antidepressants (TCAs)
- Baclofen
- Chronic use of NSAIDs (cardiac doses of Aspirin are allowed)

Chronic use of non-steroidal anti-inflammatory drugs (NSAIDs) is defined as taking full dose NSAIDs on a regular basis (i.e. more than three times a week) for at least six months prior to the screening visit.
Subjects on cardiac doses of aspirin may be enrolled in the study.

The following medications are equally prohibited, but with an exception when the subject has been on a stable dose of the medication for at least 3 months prior to the screening visit:

- Antidepressants (other than TCAs)
- Thyroid or hormonal replacement therapy.

15.17 Recording

The information requested per protocol will be recorded in the eCRF for all subjects participating in this study

15.18 Study Schedule

Table 1 summarizes the required data collection from assessments and tests performed during the study.


| Procedures | Screening | Baseline | 4w visit | 8w visit (Termination) |
|--|------------|-----------|--------------------|---------------------------|
| Visit No. | 1 | 2 | 3 | 4 |
| Day | -28 to -14 | 0 | 28 (± 2 days) | 56 (± 2 days) |
| IC | + | | | |
| Eligibility Criteria | + | + | | |
| Physical Exam | + | | | |
| Digital Rectal Exam | + | | | |
| Vital Signs | + | | | |
| Blood test (incl. pregnancy if applicable) | + | | | |
| Urine Pregnancy test (if applicable) | | + | | |
| On site administration of capsule | | + | | |
| Rome IV | + | | | |
| Bristol Stool | + | | | |
| PAC-QOL | + | | | + |
| Ease of use | | | | + |
| Subject eDiary | + | + | + | + |
| Adverse Events | | + | + | + |
| Device accountability | | | + | + |
| Concomitant Medication | + | + | + | + |
| Phone call | As needed | As needed | As needed | As needed |

Table 1 – Study Schedule of Assessments

15.19 *Deviations from study protocol*

Any deviation from the study protocol should be notified to the sponsor, documented on study deviation forms and reported to the Ethics Committee as required.

Protocol deviations related to treatment compliance (e.g. missed capsule, capsule taken on a non-capsule administration day, etc.) will not be declared on the protocol deviation form accessible via the EDC (Electronic Data Capture). Protocol deviations related to treatment compliance will be

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monitored and declared by the Sponsor, CRO and sites using a platform external to the EDC. This external platform will use the information transmitted from the base units about activations (base unit serial number, date and time of activation, success/failure) as a basis to monitor treatment compliance.

Additional information transmitted by the subject from the eDiary about number of capsules taken out of the blister and swallowed for each day, as well as direct information given by the subject to the study coordinator by phone, email or SMS, will be used by the Sponsor and CRO to make a final decision about treatment compliance, for each day of treatment, for all subjects.

A final list of protocol deviations related to treatment compliance will be issued at the end of the study, from the external platform, and signed by the site. This list will be considered equivalent as protocol deviations forms. The site will not manually enter these protocol deviations in the EDC.

15.20 *Investigative Center Selection Criteria*

The investigative site will meet the following selection criteria prior to inclusion in this study:


- Clinical research study experience and resources that demonstrate good compliance with study requirements and timely, complete documentation of subject follow-up.
- Sufficient subject volume to meet enrollment timeframe.

16. ADVERSE EVENTS RECORDING

At each evaluation, the investigator will determine whether any adverse events (AE's) have occurred. All adverse events occurring during the study will be recorded on the appropriate case report form page and signed by the investigator. The nature, severity and relation of the adverse event to the study device will be documented.

16.1 *Reporting Requirements*

Timely and complete reporting of Adverse Events (AE) and safety assessment allows:

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- Protection of safety and study subjects.
- Greater understanding of the overall safety profile of the study treatment.
- Appropriate modification of study protocols and improvement in study design and procedures.
- Adherence to regulatory requirements.

The definitions and reporting requirements adopted in this study are derived from the current International standard on clinical investigations: Title 21 of the Code of Federal Regulations (21 CFR), part 312 (Investigational New Drug Application), Section 32 (IND Safety Reporting) and part 812 (Investigational Device Exemptions), Section 150 (Reports).

16.2 Definitions

Adverse Events (AE)


AE is defined as any untoward medical occurrence in a subject. This definition does not imply that there is a relationship between the adverse event and the device under investigation. An AE can therefore be any unintended sign, symptom, disease or injury or any untoward clinical signs (including an abnormal laboratory findings) in subjects, users or other persons whether or not related to the investigational medical device. The following should be reported as AE:

- Untoward medical conditions or signs or symptoms that were absent before starting study treatment.
- Untoward medical conditions or signs or symptoms present before starting study treatment and worsen (increase severity or frequency) after starting study treatment.
- Abnormal laboratory findings.
- Clinical signs or symptoms that require therapy.

Adverse Device Effect (ADE)

ADE is adverse event, related to the use of an investigational medical device. This includes any adverse event resulting from insufficiencies or inadequacies in the instructions for use or the deployment of the device, the operation, or any malfunction of the investigational medical device, device failure or misuse, and any event that is a result of a user error.

Device failures, Malfunctions and Misuse

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Investigators are instructed to report all possible device failures (except capsule failures, see section 15.17) or misuse observed during the course of the trial. These incidents will be documented in the case report form provided as follows:

- **Device Failure** - A device failure has occurred when the device is used in compliance with the Instructions for Use, but does not perform as described in the Instructions for Use. A device failure occurs when -
 - A capsule fails to activate.
 - No capsule activation can be seen in the tracking systems This event may lead to the replacement of the base unit.
- Device Misuse** - Any use of the investigational device by an investigator or subject that is contradictory to the application described in the Instructions for Use will be categorized as device misuse.


Serious Adverse Events (SAE)

A SAE is an adverse event that:

1. Led to a death,
2. Led to a serious deterioration in the health of the subject that:
 - a. Resulted in a life-threatening illness or injury.
 - b. Resulted in a permanent impairment of a body structure or a body function.
 - c. Required in-subject hospitalization or prolongation of existing hospitalization.
 - d. Resulted in medical or surgical intervention to prevent permanent impairment to body structure or a body function.
3. Led to fetal distress, fetal death or a congenital abnormality or birth defect.

Device Deficiency

Device Deficiency is defined as Inadequacy of a medical device related to its identity, quality, durability, reliability, safety or performance, such as malfunction, misuse or use error and inadequate labeling. A final list of device deficiency will be issued at the end of the study, from the external platform, and signed by the site.

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Device deficiencies that might have led to a SAE if a suitable action had not been taken or intervention had not been made or if circumstances had been less opportune are also handled under the SAE reporting system.

However, planned hospitalization for pre-existing condition and/or procedure required by the clinical trial protocol, without serious deterioration in health, is not considered to be a SAE.

Serious Adverse Device Effect (SADE)

A Serious Adverse Device Effect is an adverse device effect that has resulted in any of the consequences characteristic of a serious adverse event.

Unanticipated Serious Adverse Device Effect (USADE)


USADE is defined as serious adverse device effect which by its nature, incidence, severity or outcome has not been identified in the current version of the risk analysis report or other study related documents.

16.3 Anticipated Adverse Events

The Vibrant Capsule targets pathophysiological parameters of chronic constipation by inducing natural bowel activity without using chemical supplements.

Anticipated Adverse Events include those that are reasonably expected to occur in association with a clinical investigation assessing a treatment for Chronic Idiopathic Constipation. Events can occur as a result of the disease or as a result of the treatment (including usage of the home base unit). They may include but are not limited to the following (in alphabetical order):

- Abdominal pain/discomfort/cramping
- Blood in the stool may develop or increase
- Bloating/Flatulence
- Diarrhea
- Nausea may develop or increase
- Rectal pain may develop or increase
- Sensation of vibration in the abdomen
- Uncontrolled leakage of stool may occur

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- Vomiting may develop

All events listed above, and additional events that the investigator will evaluate will fit the definition of ‘anticipated event’, will be categorized as such in the study.

16.4 Adverse Event Reporting

All adverse events and adverse device effects occurring during the clinical trial must be recorded on the appropriate AE form in the eCRF, within a reasonable time (up to 5 calendar days from investigator’s awareness of the event). All AEs will be characterized by the following criteria:

- Intensity or Severity
- Relatedness
- Outcome
- Treatment or Action Taken.

16.4.1 Intensity or Severity

The following categories of the intensity of an adverse event are to be used:

Mild – Awareness of a sign or symptom that does not interfere with the subject’s usual activity or is transient, resolved without treatment and with no sequelae.

Moderate – Interferes with the subject’s usual activity and/or requires symptomatic treatment.


Severe – Symptom(s) causing severe discomfort and significant impact of the subject’s usual activity and requires treatment.

16.4.2 Relatedness

The investigator will use the following definitions to assess the relationship of the AE to the investigational medical device:

Not related - The cause of the AE is known and the event is not related to the investigational medical device.

Possibly related - There is a reasonable possibility that the event may have been caused by the investigational medical device.

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The AE has a timely relationship to the study procedure(s); however, follows no known pattern of response, and an alternative cause seems more likely or there is significant uncertainty about the cause of the event.

Probably related - It is likely that the event was caused by the investigational medical device.

The AE has a timely relationship to the study procedure(s) and follows a known pattern of response; a potential alternative cause, however, may explain the event.

Related - A related event has a strong temporal relationship and an alternative cause is unlikely.

16.4.3 Outcome

The clinical outcome of the AE or SAE will be characterized as follows:

Death - The SAE CRF must be completed for this outcome (see section 16.5 Expedited Reporting of Serious Adverse Events).

Recovered without sequelae - The subject has recovered with no sequelae from the event

Ongoing - Subject did not recover and symptoms continue

Recovered with sequelae - The subject has recovered but with clinical sequelae from the event

Unknown - The subject outcome is unknown


16.4.4 Treatment or Action taken

The treatment or action taken after the occurrence of an AE or SAE will be reported as:

Interventional Treatment - Surgical, percutaneous or other procedure

Medical Treatment - Medication frequency of administration reduction/interruption or discontinuation, or medication initiated for event

None - No action is taken

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16.5 *Expedited Reporting of Serious Adverse Events*

Any Serious Adverse Event, and device deficiencies should be reported to Vibrant Ltd. within 24 hours of investigators' knowledge of the event. Investigator should report these events on the appropriate SAE form / Device Deficiencies Form in the eCRF and send the form by fax or e-mail, to the following safety contact person:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]


If applicable, the investigator should also inform the representative of the appropriate local Ethics Committee, within 24 hours of investigator's awareness of the event. A copy of the report cover letter should be filed within the study file.

The sponsor is responsible for the ongoing safety evaluation of the investigational medical device. The sponsor will promptly notify all concerned investigator(s)/institution(s) and the regulatory authority(ies) of findings that could affect adversely the safety of subjects, impact the conduct of the trial, or alter the Medical Ethics Committee approval/favorable opinion to continue the trial.

The sponsor will expedite the reporting to all concerned investigator(s)/institutions(s), to the EC(s), where required, and to the regulatory authority(ies) of the occurrence of Unanticipated Serious Adverse Device Effects.

16.6 *Follow- Up of Unresolved Events*

All adverse events should be followed until they are resolved or the subject's participation in the study ends.

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17. STATISTICAL CONSIDERATIONS

17.1 *Study Design and Objectives*

The study is planned as a prospective, randomized, multi-center, double-blinded, placebo-controlled, 2 arm study, designed to assess the efficacy and safety of Vibrant capsule vs. placebo, for the treatment of chronic idiopathic constipation.

After a run-in period of 14-28 days, subjects will be randomized with a ratio of 1:1 to either Vibrant capsule or placebo capsule. The subjects will then be treated with the active Vibrant or placebo capsule for 8 weeks. The first 2 weeks of treatment will be considered as a subjects' training period. One interim analysis will be conducted after about 80 evaluable subjects will complete 8 weeks of treatment.


17.2 *Study Endpoints*

17.2.1 *Primary Efficacy Endpoint*

There are two primary efficacy endpoints for this study.

The two primary efficacy endpoints are the CSBM1 success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment, and CSBM2 success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 6 of the 8 weeks of treatment.

The study will be deemed successful if either the CSBM1 or the CSBM2 success rate is statistically significantly higher in the active arm, than in the placebo arm.

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17.2.2 *Secondary Efficacy Endpoints*


Secondary efficacy endpoints include:

1. Change from baseline in average straining.
2. CSBM1 expanded success rate, defined as an increase from the run-in period of at least one weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment.
3. Change from baseline in average stool consistency, using the Bristol Stool Scale
4. CSBM2 expanded success rate, defined as an increase from the run-in period of at least two weekly Complete Spontaneous Bowel Movement (CSBM) during at least 5 of the 8 weeks of treatment
5. Change from baseline in average bloating.

17.2.3 *Additional Efficacy Endpoints*

Additional efficacy endpoints include:

-
- SBM success rate, defined as an increase from baseline at least one weekly spontaneous Bowel Movement (SBM) during at least 6 out of 8 weeks of treatment.
- Incidence of Rescue Medication use during the treatment period.
- Change from baseline in weekly number of Spontaneous Bowel Movement (SBM).
- Change from baseline in weekly number of Complete Spontaneous Bowel Movement (CSBM).
- Rate of SBM \leq 24 hours after first dose
- Change from baseline in average abdominal gas.
- Change from baseline in average abdominal pain.
- Change from baseline in abdominal discomfort.
- Time to occurrence of spontaneous bowel movement after first capsule activation.
- Change from baseline in quality of life using the PAC-QOL (Patient Assessment of Constipation Quality of Life) questionnaire.

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17.2.4 *Safety Endpoints*

Safety endpoints include all adverse events related and unrelated to the study treatment.

17.3 *Statistical Hypothesis*

In this study, we will test the following hypotheses:

- $H_0 : P_{a1} - P_{s1} = 0$
- $H_1 : P_{a1} - P_{s1} \neq 0$

Where P_{a1} is the CSBM1 success rate in the active arm, and P_{s1} , the CSBM1 success rate in the placebo arm.

AND:


- $H_0 : P_{a2} - P_{s2} = 0$
- $H_1 : P_{a2} - P_{s2} \neq 0$

Where P_{a2} is the CSBM2 success rate in the active arm, and P_{s2} , the CSBM2 success rate in the placebo arm

17.4 *Sample size*

A sample size is calculated to test the null hypotheses. Calculations (using SAS[®] proc power) show that a sample size of 92 subjects (46 in each study arm), would provide 80% power at a study wise 5% level of significance (two-sided), i.e., 2.5% for each one of the primary endpoints to detect a difference of 28% in the success rate, assuming a success rate of 12% in the placebo arm.

The sample size will be increased to at least 102 subjects (51 in each study arm) to account for a potential 10% of drop-out rate.

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17.5 *Interim Analyses*

One interim analysis will be performed, after about 80 evaluable subjects will complete 8 weeks of treatment. Planning an interim analysis that permits an increase in the sample size as described below does not additionally inflate the type I error according to references 25-27. In addition, the final analysis is performed using the conventional test as appropriate for the statistical hypothesis. ONLY the un-blinded statistician and members of the DSMB committee will be exposed to the report. Investigators and company directors will only be informed of a decision to continue or to discontinue the trial, or to implement modifications in sample size increase.

17.5.1 *Procedure*

After all the relevant data will be entered into the database, and the database cleaned, a soft lock to the database will be performed. An independent un-blinded statistician (not the study statistician) will perform the assessments described below.

At the interim analysis, the data of the evaluable subjects will be analyzed.

17.5.2 *Blinding*


ONLY the un-blinded statistician will be exposed to the subjects' treatment allocation. Investigators and company directors will only be exposed to the interim report.

The members of the DSMB (Data and Safety Monitoring Committee) may also have access to the unmasked information of the interim analysis. Investigators and company directors will only be informed of a decision to continue or to discontinue the trial, or to implement modifications in sample size of the trial. The un-blinded statistician who is responsible for conducting the interim analyses should ensure that the unmasked data is not available to any unauthorized person within or outside the company.

17.5.3 *Decision Rules*

The purposes of the interim analysis is to re-assess the sample size based on conditional power

The study will either continue to the originally planned sample size if the result is “favorable”, stop for futility if the result is “unfavorable”, or an increase will be made to the sample size if the result is “promising”. These decisions will be made based on the

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conditional power (CP), defined as the conditional probability that the result will exceed a critical value at the interim given the observed effect size $\widehat{\delta}_1$ = difference between CSBM success rates active versus placebo at the interim look.

Notation:

n1= sample size at interim analysis (40 subjects in each study arm).

n2= original sample size calculated based on assumed effect size (92).

nmax = the highest sample size the company is willing to use, nmax = 250 (including allowance for drop-out).

CPmin= is the calculated minimum CP based on the ratios nmax/n2, n1/n2 and the target study power (80%).

The following are the decision rules for the interim analysis. These depend on the zone into which CP falls at the interim, the calculated CPmin, the maximum sample size designated for the study and the % of the originally planned sample size at which the interim analysis will be performed. Following this principle does not inflate the Type I error.

1. If the respective conditional power for each of the primary endpoints is < 25.78 or if the difference between the success rate (treatment – placebo) for both primary endpoints is less than 10%, then stop the trial for futility.
2. a. If the conditional power for both primary endpoints is $25.78 \leq CP < 80\%$ then recalculate the sample size to recover the targeted 80% for both endpoints, the maximum sample size selected will be the larger of the two.
b. If the CP of only one of the primary endpoints is $25.78 \leq CP < 80\%$ then recalculate the sample size to recover the targeted 80% for that endpoint alone.


In both cases a and b, the maximum sample size for the study will be 250 subjects

3. If the respective conditional power for each of the primary endpoints is $\geq 80\%$ then continue to the originally planned sample size.

Note that the interim analysis will be conducted on both the ITT and mITT analysis sets, and the study will be stopped due to futility only if the interim effects in both populations fall below the threshold.

17.5.4 Controlling the Alpha level for the primary endpoint

The overall alpha level for this study is 5%. According to references 25-27, planning an interim analysis that permits an increase in the sample size as described above does not inflate the type I error.

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17.6 Randomization

After a subject meets the eligibility criteria, he/she will be equally allocated (with a 1:1 ratio) to one of the following treatment groups based on a randomization scheme with randomized blocks' size stratified by center:

- Vibrant capsule administered twice a week
- Placebo capsule administered twice a week

The randomization scheme will be prepared by BioStats using the SAS® (version 9.4.) random number generating procedure.

17.7 Blinding

This is a double-blind study. The subjects and evaluators will be blinded to the treatment allocated to each subject.

17.8 Data Analysis Sets

17.8.1 Safety (SA)


The SA analysis set will consist of all subjects randomized. Subjects will be analyzed in the treatment group as treated.

17.8.2 Intent to Treat (ITT)

The ITT analysis set will consist of all subjects randomized. In accordance with the ITT principle, all subjects randomized will be kept in their originally assigned treatment group for analysis. Subjects with no valid post baseline assessment will not be part of the relevant analysis.

17.8.3 Modified Intent to Treat (mITT)

The mITT analysis set will consist of all randomized subjects who met the inclusion criteria of the protocol. In accordance with the ITT principle, all subjects randomized will be kept in their originally assigned treatment group. Subjects with no valid post baseline assessment will not be part of the relevant analysis. Subjects with less than 2 weeks (with at least 5 days per week) of valid diary during the treatment period will be considered as non-evaluable

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17.8.4 Per-Protocol (PP)

The per-protocol analysis set will consist of all subjects from the mITT analysis set without major protocol violations and successfully completed the study, with treatment group analyzed as treated.

17.8.5 Statistical Analysis of Analysis Sets

The SA analysis set will serve as the main set for safety assessments.

The mITT analysis set will serve as the main set for efficacy assessments.

The efficacy assessment will be presented on the ITT and PP analysis sets.

17.9 Statistical Analysis

17.9.1 General Considerations

Statistical analyses will be performed using SAS® v9.4 or higher (SAS Institute, Cary NC, USA).

Baseline demographic and other baseline characteristics, together with safety analyses will be performed on all enrolled subjects.

Baseline values are defined as the last valid value prior to treatment.


All statistical tests will be two-sided. If statistical tests are performed nominal p-values will be presented. Where confidence limits are appropriate, non-adjusted two-sided 95% confidence interval will be constructed.

For comparison of means (continuous variables), the two-sample t-test or the Wilcoxon rank sum test will be used as appropriate. For comparison of proportions (categorical variables), the Chi-squared test or Fisher's exact test will be used as appropriate.

17.9.2 Significance levels and handling of type I error

17.9.2.1 Type I Error

The overall significance level for this study is 5% using two-tailed tests. According to references 25-27, planning an interim analysis that permits an increase in the sample size as described in section 17.5 does not inflate the type I error. The treatment by site interaction will be tested at a significance level of 10%.

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17.9.2.2 Primary Endpoints

The Benjamini Hochberg procedure for controlling the false discovery rate will be implanted for the two primary endpoints.

17.9.2.3 Hierarchy Approach for Secondary Endpoints Analysis

The hierarchy approach will be adopted for the primary and secondary endpoints to control type I error due to multiple endpoints testing. Thus, the primary endpoint will first be analyzed and only if at least one of them is found statistically significant, will the secondary endpoints be analyzed.

The first secondary endpoint will be tested, first, for statistical significance and only if found significant (versus an alpha level of 5% if both primary endpoints are found statistically significant, or 2.5% if only one of the two primary endpoints is found statistically significant), the next in line will be tested. Only if the first and second secondary endpoints are found statistically significant, then the third one will be tested, and so on.

The order of the secondary endpoints is as listed in paragraph 17.2.2.


17.9.3 Demographic and Other Baseline Variables

Demographic and baseline condition related characteristics will be tabulated. Continuous variables will be summarized by a mean, standard deviation, minimum, median, and maximum, and categorical variables by a count and percentage.

17.9.4 Disposition of Subjects

Treatment tolerability will be presented by treatment groups, the number and percent of subjects who fail to complete the study and the number and percent of subjects who fail to complete the study because of Adverse Events will be presented. Time to withdrawal will also be assessed and presented by Kaplan-Meier curves and will be compared using the Log-Rank test if relevant.

17.9.5 Efficacy Analysis

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The subject's CSBM1 success status (i.e. if the subjects achieve an increase from baseline of at least 1 weekly CSBM during at least 6 out of the 8 treatment weeks) will be presented in tabular form by study arm, along with 95% Wilson score Confidence Intervals (CI) and will be compared between the study arms with a Cochran-Mantel-Haenszel test controlling for center.

The CSBM2, the expanded CSBMs and the SBM success rates will be analyzed in a similar manner.

The incidence of rescue medication and the rate of SBM within 24 hours from the first study dose use will be analyzed in a similar manner.

The change from baseline in average straining will be modeled with an Analysis of Covariance (ANCOVA) model, with baseline average straining and site entered as covariates. The adjusted means of the change from baseline per study arm, and the difference between the groups will be presented along with respective 95% CI. The change from baseline in average stool consistency, in average bloating, in weekly number of SBM and CSBM, and in symptoms will be analyzed with similar ANCOVA models.

Time to occurrence of SBM after intake of the first Vibrant capsule (either active or placebo) will be assessed and presented by Kaplan-Meier curves and will be compared between the study arms using the Log-Rank test if relevant.

Treatment satisfaction, and incidence of use of rescue medication will be presented in tabular form.


The PAC-QoL, the rescue medication use, and the rate of SBM during the first 24 hours after the first dose will be presented in tabular form.

17.9.6 *Treatment by Center Interaction*

Poolability will be tested in the primary analysis at a significance level of 10%.

Poolability across centers, for the primary endpoints, will be assessed using a logistic regression model.

Centers will be grouped together by geographical area, a table of the sites and their geographical area within and without the USA will be presented. If found significant, the reason for the significance would be further explored and rationalized. This evaluation may include demographic features, symptoms at presentation, clinical and treatment history, and site comparability in the features found to be associated with the primary performance variable.

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Pooling analysis will be repeated with US centers combined, and Out of US (OUS) centers combined.

17.9.7 *Safety Analysis*

Adverse events (AE) will be presented by seriousness, severity and relation to treatment, by treatment group. The number of reports, the number of subjects, and the incidence (percent of subjects) will be tabulated by study arm.


17.9.8 *Handling of Missing Data*

Subjects with less than 6 weeks of diary data will be considered as failures for the CSBM and SBM success rates, as the primary imputation method for missing data.

Additional sensitivity analysis of the primary end-point will be performed to assess the impact of missing data on the study outcome using possible imputation methods for binary data:

- Multiple imputation for binary data.
- Observed Data: Use only subjects with 8 weeks of non-missing diary data and who did not withdraw early from study.
- Best Case Scenario: Assume all subjects with missing data in study group are successes; Assume all subjects in the placebo group with missing data are failures.
- Worst Case Scenario: Assume all subjects with missing data in study group are failures; Assume all subjects in the placebo group with missing data are successes.

In addition, for missing diary day, the number of bowel movement will be imputed to “0”, and the intake of rescue medicine to “No”. For the time to first SBM analysis, subjects with no known SBM will be considered left censored. For the analyses of the other endpoints, no imputations for missing values will be performed.

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18. DATA MONITORING PLAN

The Principal Investigator and his study staff will monitor all data accrual. In addition a data monitor will visit the study site during the study and review the progress of the clinical trial including safety data and ensure as possible that it is conducted, recorded, and reported in accordance with the protocol, Good Clinical Practice (GCP), and the applicable regulatory requirement(s). A written report form will be issued after each monitoring visit (including initiation and close out visits). The monitoring visit report will include a summary of what the monitor reviewed and the monitor's statements concerning the significant findings/facts, deviations and deficiencies, conclusions, actions taken or to be taken and/or actions recommended to secure compliance. The investigator/institution should provide direct access to source data/documents for trial-related monitoring and auditing, IRB/IEC review and inspection by the appropriate regulatory authority/ies. Remote initiation visit/ data monitoring/ close out visits are optional in case on site visits are not done.

NOTE: e-Source may be used.

Verification during monitoring visit will include:


1. That the investigator has adequate qualifications and resources and remains adequate throughout the trial period, that facility, including laboratories, equipment, and staff, are adequate to safely and properly conduct the trial and remain adequate throughout the trial period.
2. Verifying for the investigational product(s):
 - a. That storage conditions are acceptable.
 - b. That the investigational product(s) are supplied only to subjects who are eligible to receive it according to protocol and no other use is being done with the Vibrant devices.
 - c. That the receipt, use, and return of the investigational product(s) at site are controlled and documented adequately and that supplies delivery notes are confirmed upon reception throughout the trial.
 - d. That the unused investigational product(s) at sites will be returned.
3. Verifying that the investigator follows the approved protocol and all approved amendment(s), if any.
4. Verifying that written informed consent was obtained before each subject's participation in the trial.

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5. Ensuring that the investigator receives the current Investigator's Brochure, all documents, and all trial supplies needed to conduct the trial properly and to comply with the applicable regulatory requirement(s).
6. Ensuring that the investigator and the investigator's trial staff are adequately informed about the trial.
7. Verifying that the investigator and the investigator's trial staff are performing the specified trial functions, in accordance with the protocol and any other written agreements, and have not delegated these functions to unauthorized individuals.
8. Verifying that the investigator is enrolling only eligible subjects and at sufficient recruitment rate.
9. Verifying that source documents and other trial records are accurate, complete, kept up-to-date and maintained.
10. Verifying that the investigator provides all the required reports, notifications, applications, and submissions, and that these documents are accurate, complete, timely, legible, dated, and identify the trial.
11. Checking the accuracy and completeness of the CRF entries, source documents and other trial-related records against each other.
12. The data required by the protocol are reported accurately on the CRFs and are consistent with the source documents.
13. Adverse events, concomitant medications and intercurrent illnesses are reported in accordance with the protocol on the CRFs.
14. Visits that the subjects fail to make, tests that are not conducted, and examinations that are not performed are clearly reported as such on the CRFs.
15. All withdrawals and dropouts of enrolled subjects from the trial are reported and explained on the CRFs.
16. Verifying that the investigator had answered all of the queries that came up from inspection of the CRFs or other trial material.
17. That the investigator is maintaining the essential documents.
18. Verifying that deviations from the protocol, SOPs, GCP, and the applicable regulatory requirements are reported by the investigator to the IRB/IEC and that appropriate actions were taken to prevent recurrence of the detected deviations.

Should there be an unexpected number of device failures or related complications that increase the risks to the participants, or critical efficacy endpoints at intervals that are not satisfying, the study will be halted and analysis performed to determine whether to continue, modify the protocol, or close the study.

19. DATA CONFIDENTIALITY

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Each subject will be identified by his/ her initials and a unique subject identification number. Source data will be stored with source documents. The Investigator Site Files (ISF) will be held in a secure area. The subject's name and personal data will remain confidential and will not be published in any way. However, the sponsor's monitor or representative and regulatory representatives, auditors and inspectors may have access to medical files in order to verify authenticity of data collected. For the purpose of remote data monitoring sites will upload the source documents into a secured platform which is CFR part 11 compliant.

20. FUNDING

The study is funded by Vibrant Ltd.

21. ETHICS


Prior to study initiation the site shall obtain EC or IRB approval of the study. A copy of the written EC approval must be provided to the sponsor prior to the start of the study.

Any changes in the study protocol, informed consent forms, or investigator must be re-approved by the EC or IRB and the approval documented. All subjects screened in the study will provide their consent prior to entering the study. An informed consent form shall be signed and dated by the subject. The investigator will retain the forms as part of the study records.

This study will be executed in accordance with the Declaration of Helsinki, in agreement with the guidelines for conducting a clinical investigation in accordance with the principles of ICH GCP outlined in the E6 document. By signing the present protocol, the investigator commits to carry it out in accordance with local legal requirements.

Other investigator responsibilities relative to the EC/IRB include the following:

1. During the conduct of the study, the investigator will submit progress reports to the EC/IRB as required, and request re-review and approval of the study at least once a year;
2. The investigator will report immediately to the EC/IRB of any unexpected serious adverse events that occur during the study, and provide the sponsor with a copy of the correspondence;

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3. If the sponsor notifies about serious adverse events reported in other studies using this device, the investigator must report that information to the EC/IRB;
4. As required, the investigator must obtain approval from the EC for protocol amendments and for revisions to the consent form or subject recruitment advertisements;
5. The investigator should provide the EC/IRB with any other information it requests before or during conduct the study;
6. The investigator must maintain a file of study-related information that includes all correspondence with the EC/IRB;
7. The investigator must notify EC/IRB when study is completed (i.e. after the last study visit of the final study subject);
8. After study completion (within 12 months is recommended) the investigator should provide the EC/IRB with a final report on the study. The recommended components of a final report are as follows; dates of study start and completion, number of subjects enrolled/treated, number of subjects who discontinued participation early and reason why, itemization and discussion of any serious adverse event.

Progress reports and Final reports might be submitted to EC/IRB by the Sponsor (on behalf of the investigator)


22. INFORMED CONSENT

Written informed consent must be obtained from each study subject. The subject will be asked to read the informed consent form and to sign the form to indicate consent to participate in the study.

The investigator will explain carefully to the subject the research nature of the study. The scope and aims of the research will be described together with known or foreseeable benefits, risks and discomforts that subjects may experience. Appropriate alternative treatments will be discussed so that the subject may determine whether or not he or she wishes to participate in the study. The subject must understand that throughout the study his or her participation remains voluntary and protected by the Declaration of Helsinki.

The investigator is responsible for obtaining written (or witnessed) informed consent from potential subjects prior to study entry. The task of obtaining informed consent can be delegated, per PI discretion. Subjects will be given time to read the informed consent and ask any questions before being asked to sign the form. The informed consent (approved by the sponsor and the Ethics Committee) must be signed and dated by the subject and the investigator (or investigator's designee). One copy of the signed consent will be given to the subject, a second copy will be sent to the referral investigator and the original will be retained by the investigator.

Subject should be identified during screening visit by driving license or any other identity card.

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Subjects may withdraw their consent to participate in the study at any time without prejudice. The investigator may withdraw a subject if, in his clinical judgment, it is in the best interest of the subject or if the subject cannot comply with the protocol. Attempts should be made to complete any examinations and the sponsor must be notified of all withdrawals.

Should a protocol amendment be made, the subject's consent form may be revised to reflect the changes of the protocol. It is the responsibility of the investigator to ensure that an amended informed consent is approved or reviewed by the EC/IRB, and that it is signed by all subjects subsequently entered in the study and those currently in the study, if affected by the amendment.

23. REGULATORY AND HEALTH AUTHORITY AUDITS

The European Union's authorities and/or the Food and Drug Administration (FDA) and/or the local state health authorities may request access to all study records, including source documents for inspection. The investigator and hospital staff are requested to cooperate with these audits. The investigator must notify the sponsor of any health authority audit as soon as notification of such audit is made. A representative or designee of the sponsor may also conduct similar audits and may be present during health authority audit.


24. ELECTRONIC REPORTING OF DATA

All medical data in this trial are to be recorded directly in the EDC (Electronic Data Capture) system. Documentation on paper will be restricted to exceptional circumstances only.

The investigator must ensure the accuracy, completeness and timeliness (and legibility in case of documentation on paper) of data.

Sites will get trained on how to access and use the EDC and will be foreseen with a personal user login and password.

Subjects will access and complete their diaries online via a website specifically created for the purposes of the study. Subjects will be trained on how to access and use this website and will be foreseen with a personal user login and password.

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25. RECORD RETENTION

It is required that a copy of all records (e.g., informed consent documents, source documents, safety reports, study device dispensing record, etc.) which support case report forms for this study, be retained in the files of the responsible investigator for a minimum of fifteen (15) years following notification by the sponsor that all investigations (not merely the investigator's portion) are completed, terminated and/or discontinued. If the principal investigator retires, relocates, or for other reasons withdraws from the responsibility of keeping the study records, custody must be transferred to a person who will accept the responsibility. Vibrant Ltd. must be notified in writing of the name and address of the new custodian.

26. PROTOCOL MODIFICATIONS

An amendment to the protocol may be proposed by an investigator or the sponsor. The amendment will be prepared and approved by the sponsor according to the sponsor's relevant SOP. The amendment must be submitted to the EC/IRB. When applicable, the amendment's implementation will take place only once approved by the EC/IRB.


If for any unexpected reasons, there is any requirement to deviate from the treatments stated above, the protocol deviation should be discussed in advance with a Vibrant Ltd. representative.

27. PUBLICATION POLICY

All information concerning this study that was not previously published is considered confidential information. This confidential information shall remain the sole property of Vibrant Ltd.; it shall not be disclosed to others without written consent of Vibrant Ltd. and shall not be used except in the performance of this study.

Any investigator involved with this study is obligated to provide the Sponsor with complete test results and all data derived from the study.

28. SUBJECT / STUDY DISCONTINUATION

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Subjects should be removed from the study whenever considered necessary for their welfare or when the subject expresses a desire to withdraw from the study. Non-compliance with the protocol, the occurrence of a Serious Adverse Event or any medical condition that, in the opinion of the investigator, warrants discontinuation from the study for the safety of the subject, may necessitate discontinuing a subject. If a subject is discontinued, the reason must be entered on the case report form and signed by the investigator. In case of any questionable situation, the study monitor or Vibrant Ltd. personnel should be consulted. When a subject is removed from the study as a result of Serious Adverse Event, a final physical examination must be performed. Subjects removed from the study because of an adverse event will be followed-up until the adverse event has been resolved.


In the case that the occurrence of adverse events is greater than anticipated, the clinical investigation will be suspended; in such a case, a safety committee will be arranged to decide if the study could be continued. The Ethics Committee will be notified and the results of the safety committee discussions will be brought for the EC/IRB review and decision.

Early termination could be a result of:

1. Withdrawal of informed consent by the subject.
2. Subjects who after inclusion develop medical diseases which may affect the function and interpretation of study results.
3. Serious protocol deviation.
4. Non-compliance with medical device administration or study procedures as determined by the sponsor.
5. Change in subject's condition.
6. Subject is Lost to follow-up.
7. Confirmed pregnancy.
8. Regulatory authorities stop the trial.

During the study, subjects exiting the trial will be replaced with new subjects, up to 10%

Site staff should set an early termination visit as soon as they become aware of subject's discontinuation. During this visit, any remaining study supplies should be collected and accountability should be conducted if applicable. 'End of study' form should be completed in source documents and any other relevant information should be documented (for example, in case of AE).

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Vibrant Ltd., reserves the right to discontinue any study for administrative reasons at any time, such as, but not limited to a decision to discontinue further clinical investigation with the device, improper conduct of the study by the investigator, inability to obtain the number of subjects required by the protocol, etc. Reimbursements for reasonable expenses will be made if such an action is necessary.

29. DEVICE ACCOUNTABILITY


Complete traceability records will be kept of all devices during the study. Vibrant devices and relevant accessories will be provided by Vibrant Ltd., bearing required labeling. Device identification and accessory identification will be documented in subject medical records and CRF

Each clinical investigator will be responsible for the safe storage with restricted access of the investigational materials in their possession, thereby preventing use of any materials by any persons not participating in the study.

All base units and remaining capsules (untouched or taken out of the blister package) must be brought back by the subjects to the site by the time they exit the study. The number of remaining capsules must match the information transmitted by the base unit about capsule activations and the information gathered about the subject's treatment compliance throughout the study. In order to perform this task, the Sponsor, CRO and study coordinator will rely on the same platform used to monitor protocol deviations related to treatment compliance. A final account, and the whereabouts of each capsule provided to the subject will be documented in the EDC by the study coordinator. Capsule failures will not be documented in the EDC but on the external platform, using the base unit information.

After completion of the study, all unused or remaining devices must be returned in their original package to Vibrant Ltd. Hakochav, Yokneam 2069206 P.O.Box 516, Israel (unless otherwise is requested by the Sponsor).

All investigators will be responsible for using the products according to the IFU and protocol and maintaining product inventory and records.

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30. APPENDICES

Appendix A – Bristol Stool Scale


Appendix B - Rome IV questionnaire and instructions for completion

Appendix C – Ease of use questionnaire


Appendix D – Patient Assessment of Constipation Quality of Life (PAC-QOL) Questionnaire

31. REFERENCES


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The image displays two side-by-side bar charts, each showing the percentage of respondents who answered 'Yes' to a series of questions. The y-axis for both charts ranges from 0 to 100 percent, with major grid lines every 20 units and minor grid lines every 5 units.

Left Chart (Questions 1-10):

| Question | Percentage of 'Yes' Responses |
|----------|-------------------------------|
| 1 | 100% |
| 2 | 100% |
| 3 | 100% |
| 4 | 100% |
| 5 | 100% |
| 6 | 100% |
| 7 | 100% |
| 8 | 100% |
| 9 | 100% |
| 10 | 100% |

Right Chart (Questions 11-20):

| Question | Percentage of 'Yes' Responses |
|----------|-------------------------------|
| 11 | 100% |
| 12 | 100% |
| 13 | 100% |
| 14 | 100% |
| 15 | 100% |
| 16 | 100% |
| 17 | 100% |
| 18 | 100% |
| 19 | 100% |
| 20 | 100% |



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| [REDACTED] | [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] |
| [REDACTED] | [REDACTED] [REDACTED] |
| [REDACTED] | [REDACTED] [REDACTED] |



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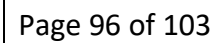
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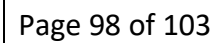
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[REDACTED]

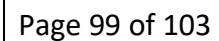
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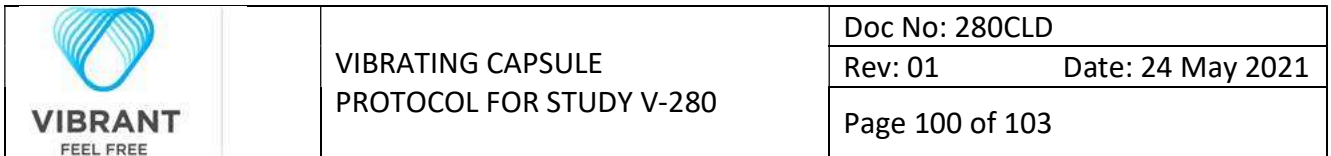
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| Group | U.S. should take action (%) | U.S. should not take action (%) |
|-------------------------|-----------------------------|---------------------------------|
| All respondents | ~85 | ~15 |
| U.S. born | ~75 | ~25 |
| Non-U.S. born | ~15 | ~85 |
| U.S. born, non-Hispanic | ~80 | ~20 |
| U.S. born, Hispanic | ~70 | ~30 |




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