UCD S-100 HUNDREDRUPEES SO100100100 TIXGINDIA SNAN SII महारोष्ट्र MAHARASHTRA O 2020 O XU 646131 1 बार जिल्हा कोपागार कार्यालय, वानय [Tres and JAN 2021 मुद्रांक प्रमुख लिपीक लिपीक **CLINICAL TRIAL SERVICES** AGREEMENT This Agreement is made and entered into this 11/Jan/2021 by and between: **Principal Investigator** Dr. Prajwal Patel H. S. Adichunchanagiri Hospital and Research Centre, Adichunchanagiri University, B. G. Nagara, Nagamangala Taluk, Mandya, Karnataka -571448, India. And **Head of Institute** Dr. Rajesh Venkataraman Head, Clinical Trial Adichunchanagiri Hospital & Research Centre, Adichunchanagiri University, B G Nagara, Nagamangala Taluk, * Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre Page 1 of 17 Pragual pates (Non

Mandya District, Karnataka - 571 448 And

CRO:

Biosphere Clinical Research Pvt. Ltd., SB - 02, 03 & 04, Second Floor, Highland Corporate Centre, Kapurbawdi Junction, Thane (W)-400607, Maharashtra, India.

For Study titled "BCR-RPD-01-A Phase III, Multicentre, Randomized, Double Blind, Parallel group, Comparative Clinical Study to evaluate Efficacy and Safety of Ropivacaine Hydrochloride 0.75% (7.5mg/mL) in Dextrose 8% (80mg/mL) injection compared to Bupivacaine Hydrochloride 0.5% (5mg/mL) in Dextrose 8% (80mg/mL) injection for subjects undergoing lower limb orthopaedic surgeries under spinal anaesthesia."

WHEREAS CRO is engaged in the business of clinical trials management as a Clinical Research Organization and intends to carry out the Phase III Clinical Study (here in after "the Study" / "Clinical trial") and is acting on behalf of Neon Laboratories Limited.

WHEREAS, the CRO has represented that it has entered into an agreement with the SPONSOR whereby the terms and conditions governing the conduct of the clinical trial at the INSTITUTION have been incorporated.

Subject to the condition of obtaining the pertinent ethics committee approval and the regulatory authority's authorization, the parties intend to participate in the Study by rendering their services and agree to the following:

INSTITUTION: The CRO has approached the INSTITUTION on behalf of the 1. SPONSOR, as the

SPONSOR desires the INSTITUTION to perform the study in regards to the said Investigational Product in accordance with the following standards:

- (a) The current World Medical Association Declaration of Helsinki titled "Ethical Principles for Medical Research involving Human Patients";
- (b) The current ICH Harmonized Tripartite Guideline for Good clinical Practice (CPMP/ICH/135/95);
- The current Indian Ministry of health and Family Welfare Guidelines for good (C) clinical practice titled, "Good Clinical Practices for Clinical Research in India";

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G. Nagara - 571448 B.G.Nagara - 571 448

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichuchanagiri University

- (d) The current Indian Council of Medical Research on Human Patients;
- (e) New Drugs and Clinical Trials Rules, 2019
- (f) The written requirements of all reviewing institutional ethics committees;
- (g) The Principal Investigator requirements;
- (h) All policies and procedures of the INSTITUTION;
- (i) All current and applicable permission, licenses, approvals, federal wide assurance and certifications and (1) all current and applicable laws and regulations (such as standards set forth in Sections 2(a) - (i) collectively referred to hereafter as the Standards)and;
- (j) In accordance with the final protocol, patient information sheet, informed consent documents and case report forms for the above-referenced clinical study (collectively, the Clinical Trial Protocol, a current version of which is attached hereto, which attachment shall be replaced in the final version and all amended versions, if any). It is understood and agreed that, in the event of a conflict among any of the standards, the most stringent standard shall apply.

2 **PERFORMANCE**:

a) <u>Protocol and Standards:</u> Principal investigator who will supervise and direct the work of the INSTITUTION and the Dean of the INSTITUTION, hereby confirm that they have read and understood the Clinical Trial Protocol for the Study to be conducted in<u>206</u> patients and further confirm that their research team is properly trained concerning the clinical trial Protocol and Standards. All amendments have also been read and understood. The Principal Investigator and the INSTITUTION agree to the final Clinical

Trial Protocol and to perform the study in strict accordance with this Agreement.

- b) <u>Subcontracting: Services of Principal Investigator</u>. The INSTITUTION shall not subcontract the performance of any or all of its obligations under this Agreement to any third party (including to any affiliate). The services of the Principal Investigator are considered essential for the performance of this Agreement. If for any reason the Principal Investigator becomes unavailable or otherwise unable to supervise and direct the activities under this Agreement, INSTITUTION shall promptly notify the CRO/SPONSOR. If a mutually acceptable successor is not promptly identified, this Agreement may be terminated by the CRO.
- c) <u>Study Duration</u>: It is anticipated that the Clinical Study will commence upon execution of this Agreement, that subject enrollment will be completed approximately in four months from the date of Site Initiation Visit, and that the Clinical Study will be completed as per the study schedule, unless otherwise terminated in accordance with Section7.

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448 Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448 d) <u>Recruitment</u>: The Principal Investigator understands and agrees that the CRO/SPONSOR requires at least 206 evaluable patients at the conclusion of the Study from approximately <u>8-10</u> sites, hence it will be necessary for the INSTITUTION to enroll <u>25-30</u> patients (considering a drop-out rate of 10%) to achieve the targeted number of patients who satisfy all enrollment criteria specified in the Clinical Trial Protocol, within a period of <u>1-2 months</u> approximately after the SPONSOR authorizes commencement of the study.

e) <u>Confidentiality:</u>

- i Definition: During the term of this agreement (period of five years thereafter), the INSTITUTION and Principal Investigator may have access to information, know- how, knowledge and data in oral, written, electronic, graphic or other tangible form, confidential or proprietary to SPONSOR or to SPONSOR's other collaborators (other than the INSTITUTION) and is, therefore of a confidential nature (confidential information). Confidential information shall include the Clinical Trial Protocol, SPONSOR's Investigator's Brochure concerning the Investigational Product data, all Study Data, all documents maintained in the Clinical Trial Record Binder (site documentation), any other data emerging out of the protocol, any other information supplied by SPONSOR/CRO during the course of the study and clinical development plan, except the information already existing in the public domain, and all results and reports obtained, collected, conceived, processed and developed pursuant to this Agreement.
- Use: The INSTITUTION shall hold all confidential information and shall n disclose confidential information only to its Principal Investigator, Co-Investigators, hospital staff and employees who have a need to know such confidential information for the purpose of this agreement and who agree in writing to keep such confidential information, confidential under terms substantially similar to those set forth herein. The INSTITUTION shall use confidential information for the sole purpose of providingservicesunderthisAgreementandshallnotuseconfidentialinformation for the INSTITUTION's own benefit at any time. No right or license under any patent application, trade secret or other proprietary right now or hereafter owned or controlled by the SPONSOR or other collaborators is granted to the INSTITUTION from the provision of confidential information hereunder. The INSTITUTION shall comply with the Study Data Confidentiality conditions.
- ii. Provision to CRO/SPONSOR: The INSTITUTION agrees that, at any time upon CRO/SPONSOR's request, it shall promptly provide to the CRO/SPONSOR respectively, copies of all Confidential Information under this Agreement. The INSTITUTION further agrees that upon any termination or expiration of this Agreement, it shall at CRO/SPONSOR's election, return to the CRO/SPONSOR or destroy all copies of all Confidential Information; however, that the INSTITUTION may retain two (2) archival copies, with obligation to maintain the confidentiality of such confidential information.

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Prograd Patel Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448

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f) <u>Work Product:</u>

- i Definition: The Parties agree that all work performed by the INSTITUTION hereunder including, without limitation, all study data, results, reports, inventions, discoveries, new uses or know-how obtained, collected, conceived, processed, developed, improved or reduced to practice by Principal Investigator or the INSTITUTION's other hospital staff or employees pursuant to this Agreement (collectively, work product) shall be the property of the SPONSOR.
- ii Disclosure, Assignment and Provision to CRO/SPONSOR: The parties agree that the INSTITUTION shall promptly disclose to the CRO/SPONSOR any and all work related to the product comprising inventions, discoveries, new uses or know-how obtained. As per the agreement, the CRO/SPONSOR can review and obtain copies of all work related to the product including and without limitation, all study data, in an agreed-upon format and with a complete glossary of terms used for such data.
- iii. Materials: The study medication, blood samples from patients under the study and all other tangible material provided to or obtained by the INSTITUTION under this Agreement (Collectively the Materials) shall be the property of the SPONSOR and/or SPONSOR's other collaborators (other than the INSTITUTION). The INSTITUTION shall use the Materials for the sole purpose of providing services under this agreement and shall not use the materials for its own benefit at any time. No right or license, any patent, patent application, trade secret or other proprietary right now or hereafter owned or controlled by SPONSOR or SPONSOR's other collaborators is granted to the INSTITUTION from the provision of materials hereunder. Upon any remaining Investigational Product and other Materials received or obtained hereunder in accordance with the Protocol, standards and the directions of CRO/SPONSOR.
- g) <u>Human Patients</u>: The INSTITUTION shall be responsible for safeguarding the rights and welfare of patients in the study. The INSTITUTION shall ensure (i) the rights and welfareofeachsuchpatientareprotected,(ii)informedconsentofeachsuchpatientis

freely and knowledgeably given: (A) to participate in the study and (B) for the collection by, processing by and disclosure to and between the CRO representatives of SPONSOR, Principal Investigators and Researcher, Study Monitors, Study Laboratory Personnel, Study Data Analysts, members of the Independent Ethics Committees and representatives of governmental and inter-governmental agencies in India; (iii) the balance between risk and potential benefit from participating in the study has been assessed and deemed acceptable; and (iv) the SPONSOR/CRO has made appropriate arrangements to eliminate, mitigate and/or compensate for the consequences to such patients and their families in case of any death, injury or illness which has causal relationship with the spinal anaesthesia for lower limb orthopaedic surgeries for which the SPONSOR/CRO has agreed to assume liability. Such arrangements shall include medical treatment and financial relief as per the Policy provided by Sponsor.

h) <u>Ethical Approval</u>: The INSTITUTION shall petition for written certification of ethical

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Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448 approval of the Study from its Institutional Ethics Committee. The INSTITUTION shall keep the CRO/SPONSOR fully advised of the progress of such submission and shall upon request, provide the CRO/SPONSOR with all correspondence relating to such submission. The INSTITUTION shall obtain such certification prior to screening any patients for the Study, annually after obtaining such certification, and prior to implementing any changes to the Clinical Trial Protocol. Upon receipt of such certification, the INSTITUTION shall promptly provide a copy to the CRO/SPONSOR.

- <u>Case Report Form Handling:</u> The Principal Investigator shall be responsible for providing correct Case Report Forms ("CRF") according to the following:
 - i The main objective of the CRF is to obtain those data required by the Protocol in a complete, accurate, legible and timely fashion. The data in the CRF must be consistent with the relevant source documents, and they must be suitable for submission to authorities.
 - ii. The data recorded in the course of the Study shall be documented in the CRFs and, as necessary, on the SAE report. They will then be forwarded to CRO/SPONSOR for data management and biometric analysis.
 - ii. The data in the CRF shall be recorded, evaluated, and stored in anonymous form in accordance with data-protection regulations. The Principal Investigator shall ensure that patient names are not mentioned on any document, neither CRFs nor other documents that will be forwarded to the CRO/SPONSOR.
 - iv. Wherever possible, all data obtained in the course of the Study must be recorded in the original patient files. Data to be recorded directly on the CRFs and considered as source data will be identified as such. All data in the CRFs must correspond exactly with data recorded in the source documents.
 - iv. If CRFs are not complete the Principal Investigator shall be obliged to complete them on request of CRO /SPONSOR.
- j) Drug Safety: The recording of Adverse Events (AEs) is an important aspect of study documentation. It is the Principal Investigator's responsibility to document all AEs according to the detailed guidelines of the Protocol. The Principal Investigator agrees to answer any questions of CRO/SPONSOR Medical Monitors concerning any AEs. According to the Protocol, the Principal Investigator will assess at each visit whether any Adverse Event (AE) including abnormal laboratory values has occurred. The details of all AEs, whether reported by the patient or observed by the Principal Investigator/Study personnel during the entire study, will be recorded onto the appropriate source document. Each adverse event must be recorded in the AE section of the case report form (CRF), regardless of the causal relationship. The Principal Investigator must immediately report all Serious Adverse Events (as defined in the Protocol), which occur during the course of the Study and up to the date of the patient's last visit, to the addressee given below. The SAE Report Form will be used for documentation and reporting. Initial and follow up SAE reports are to be sent to CRO for onward transmission to SPONSOR:

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Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichuchanagiri University B.G. Nagara - 571448

Name: Dr. Neeta Nargundkar Telephone Numbers: (022) 41006794 E-mail: drneeta@biospherecro.com

If the event is unexpected and fatal or life threatening and is considered by the Principal Investigator possibly related to the study medication CRO shall be informed immediately by telephone and followed immediately by mail. CRO will be responsible to notify on- time the health authorities in India.

- <u>Source Data:</u> The Principal Investigator shall be responsible for providing the Source Data according to the following regulations. Source data are the original patient records of all variables collected for the trial as well as the patient's medical history. Specifically, but not limited to they comprise:
 - i Signed Informed Consent Form
 - ii. Patient hospital file and individual clinical notes
 - iii. Laboratory Reports
 - iv. Pharmacy Records
 - v. Study specific source documents
 - vi. Appropriate sections of the CRF, where data are recorded directly onto specific forms
 - vii. Other reports and records of any procedure performed in accordance with the Protocol
- I) The Principal Investigator shall safely maintain the original study documentation together with all source data for the maximum period of time permitted by the hospital, research institute or practice in question, but not less than 5 years after the clinical part of the trial has been completed. If archiving can no longer be maintained at site, the Principal Investigator will notify CRO /SPONSOR.
- m) <u>Investigator Study File and Archiving:</u> The INVESTIGATOR shall prepare and maintain complete and accurate study documentation in compliance with ICH-GCP standards and

local regulations. Therefore, an investigator study file shall be prepared which contains all relevant documents necessary for the conduct of the study:

- i Signed Protocol and Amendments
- ii. Investigator's Brochure and Updates
- ii. EC Composition, approval(s)/opinion correspondence/reporting
- iv. Notifications of regulatory authorities
- v. CVs and signature sheet for key study personnel (e.g. Investigators, Study Nurses)
- vi Signed study agreements including financial agreement.
- vii. Trial Initiation Report
- vii. Approved and signed Informed Consent Forms
- ix. Patient Insurance Certificate
- x CRFs (Investigator's copy)
- xi. Data Clarification Forms(copies)

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- SAE documentation and related correspondence/reporting XIL
- Shipping/accountability/destruction records for investigational product. XIII.
- Certificate of Analysis XIV.
- Instructions for handling of investigational product. XV.
- Laboratory accreditation/certification and up-to-date reference ranges of normal XVI. values, Screening, enrollment and monitoring logs and subject identification code list
- XVIL Appointment diaries
- Study related correspondence with CRO/SPONSOR XVIIL
- Documentation and Material (Supplies): All supplies provided to the Principal n) Investigator for the purpose of carrying out the Study are supplied only for the purpose of the Study and must not be used for any other purpose whatsoever. The Principal Investigator, or a person(s) delegated by him, are responsible for the security and accountability of all supplies.
- The inventory must be available for monitoring, auditing and inspection. When the 0) study is completed, or if it is prematurely terminated, any supplies of unused material for the Study, supplied by the CRO/SPONSOR (except documentation required to be retained by the Principal Investigator), must be returned to the CRO/SPONSOR. In the latter case, the identification and quantity of each unit of study medication and the person in charge must be documented.
- Monitoring, Quality Assurance and Inspection by Authorities: The Study will be p) monitored by the CRO. Its representatives (alone or together with representatives from SPONSOR) will be allowed access to all information resulting from this Study and SPONSOR will have an unrestricted right to use such information. CRO (alone or together with representatives from SPONSOR) will perform regular on-site monitoring and remote monitoring throughout the Study. The tasks of the monitor comprise the following:
 - to ensure Protocol adherence i
 - to verify the data in the CRFs against source documents(SDV) ü
 - to check progress of the study and to motivate, if necessary m iv.
 - to review the CRFs for complete and accurate capture of data, including laboratory test reports and other patient_records V.
 - to check all data for possible SAEs and AEs
 - vi to review signed informed consent forms for signatures and date of consent
 - vii to ensure accurate record of drug accountability
 - viii. to ensure adequate storage of study_supplies
 - to collect completed CRFs ix
 - to discuss and help resolve any_problems X
- Source Data Verification (SDV) shall be performed on 100% of key data such as q) informed consent, demographics, and inclusion/exclusion criteria, parameters for the evaluation of the main endpoints, safety evaluation and drug accountability.

The visits shall involve the Principal Investigator or his appointed representative(s) and any

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other staff, as required. The Principal Investigator shall ensure that sufficient time is allowed for monitoring visits. Follow-up correspondence between the Site and the CRO relating to apparent inconsistencies or clarification of CRF entries will be kept on file at both CRO and the Site.

- r) Study Protocol, Patient Information Leaflet/Consent Forms, CRF and Trial Report as well as each step of data recording, monitoring and processing shall be subject to the independent Quality Assurance at CRO.
- s) This Study shall be audited on behalf of SPONSOR to assure GCP compliance as well as validity of the study data according to a study specific audit plan. The audits will be conducted in accordance with the SOPs of the CRO/SPONSOR.
- t) For monitoring visits and in case of audits and inspections by authorities, the Principal Investigator must provide direct access to the complete study records including CRFs, original source data, study documentation, and, if necessary, any additional background data. Furthermore, access to Study related facilities must be ensured.
- u) <u>Confidentiality of Patient Records:</u> The INSTITUTION and the Principal Investigator must assure that Study patients' anonymity will be maintained, and that their identities will be protected from unauthorized parties. Documents stating patients' names must be kept in strict confidence by the Principal Investigator. On CRFs or other documents removed from the INSTITUTION, patients must not be identified by their names, but by initials and patient identification number. The Principal Investigator is obliged to maintain a subject identification code list showing the patients' full name and date of birth together with the corresponding patient identification number to allow revealing identity of any subject.
- v) The Principal Investigator agrees that representatives of CRO/SPONSOR, of the responsible IEC/IRB and of national or international regulatory authorities may inspect the patient records at the site for source data verification. SPONSOR and CRO guarantee for their representatives that patient data will be treated confidentially. Monitors and Auditors are further bound to secrecy.
- 4 <u>AMENDMENTS</u>: The CRO, on behalf of the SPONSOR, may from time to time, make changes to the Protocol. Changes in the Protocol must take the form of written amendments and shall be approved by all signatories of the final version of the Protocol. Any amendments to the Protocol which affect the patient (e.g. changes in procedures/assessments or matters relating to patient safety) require approval of the relevant ethics committee as well as further informed consent from each concerned patient prior to implementation. The Principal Investigator shall obtain such approval. Changes of purely administrative nature shall be notified to the committee by the Principal Investigator, but do not require formal_approval.

5 **INSPECTIONS:**

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a) By Representatives of CRO/SPONSOR: The INSTITUTION agrees that

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448 Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448 CRO/SPONSOR's representatives and clinical monitors for the Study will have free access to the INSTITUTION's facilities and all documents pertaining to the Study during normal business hours, after provision of prior written notice, as is necessary to ensure that the Study is conducted in accordance with this Agreement. In the event any such representative or monitor observes non-compliance with this Agreement, incomplete, illegible or inaccurate recording of Study data, or other matters of concern relating to the Study, the INSTITUTION shall, in cooperation with such representative or monitor, promptly remedy such non-compliance, Study data recording problems or matters of concern and shall promptly notify such representative or monitor of such remedial actions taken.

- By Governmental Representatives: The INSTITUTION agrees that representatives of b) the government will have access to its facilities and such documents pertaining to the study as may be legally requested by such representatives. The INSTITUTION shall not disclose individually- identifiable personal information, individually-identifiable health care information or other Confidential Information to such governmental representatives except as required by law, and if the INSTITUTION discloses such individually- identifiable information or other Confidential Information to such governmental representatives, the INSTITUTION shall seek an appropriate, written agreement of confidentiality from such governmental representatives prior to making such disclosure. The INSTITUTION shall promptly provide copies to the CRO/SPONSOR of any notices, correspondence and other documentation received or prepared by or on behalf of the INSTITUTION in connection with any governmental inspection, action; inquiry or correspondence relating to or that may affect the INSTITUTION's activities under the Study. The INSTITUTION shall take all actions necessary to remedy any non- compliance cited by governmental authorities and shall promptly notify CRO/SPONSOR of such remedial actions taken.
- 6 <u>WARRANTIES AND DISCLAIMER OF WARRANTIES</u>: INSTITUTION warrants that all services provided under this Agreement will be provided in a professional and workmanlike manner, in compliance with the Standards and the terms of this Agreement.

7. AGREEMENT TERM AND TERMINATION:

- a) This Agreement is effective as of beginning of the study, and shall continue until 5 (five) years after completion of study, unless terminated sooner in accordance with this Article 7 or unless extended for a defined period by a signed written amendment in accordance with Article14.
- b) The Study and this Agreement may be terminated by written notice from the SPONSOR/CRO to the INSTITUTION for any of the following reasons:
 - i. Notification to CRO/SPONSOR from applicable regulatory authorities to terminate this Study.
 - ii. Determination by CRO/SPONSOR that the INSTITUTION is not performing the Study as required in the Agreement and/or is not meeting the agreed upon patient enrollment requirements set forth in Section 7(c)herein.
 - iii. Failure of the Principal Investigator and/or the INSTITUTION to provide access

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Prapiral paty Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology dichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospitai & Research Centre Adichunchanagiri University B.G. Nagara - 571448 to the SPONSOR monitors or SPONSOR representatives to the INSTITUTION's facilities and all original medical records and Study-related documents necessary to verify entries on Study Case Report Forms and the INSTITUTION's compliance with this Agreement.

- iv. Failure of the Principal Investigator or associated staff or any other person engaged in the Study (excluding patients) to be available, upon reasonable notice and by prior mutually convenient time appointment by CRO/SPONSOR, to meet with the CRO/SPONSOR monitors or CRO/SPONSOR representatives during the course of the Study as necessary to discuss information relevant to the Study.
- v. Unauthorized replacement of Principal Investigator, in accordance with Section 7(b) herein.
- vi. Determination by SPONSOR that business or scientific considerations require termination.
- vii. Case Report Forms provided to the Principal Investigator by the CRO/SPONSOR for use in the Study are not completely, accurately and/or legibly completed and/or forwarded to the CRO/SPONSOR's designated representative, as appropriate, within one (1) week of each patient's visit date.
- The INSTITUTION may terminate this Agreement by written notice from the INSTITUTION to the CRO/SPONSOR for any of following_reasons:
 - i. SPONSOR does not comply with the Clinical Trial Protocol provisions related to supply of Investigational Product for the Study, or the CRO/SPONSOR does not supply other agreed-upon study related material.
 - ii. The Principal Investigator reasonably suspects an adverse reaction/adverse event related to the Study procedure and of serious nature, after informing the Institutional Ethics Committees and the CRO/SPONSOR.
- d) In case of any termination or expiration of this Agreement:
 - i. Responsibility for treatment of enrolled patients will be as specified in the Standards;
 - ii. The INSTITUTION shall cooperate with the SPONSOR/CRO for an orderly wind- down of activities, with due regard for patient safety and welfare;
 - iii. The INSTITUTION shall return or destroy all Confidential Information to CRO/SPONSOR, at the CRO/SPONSOR's election, in accordance with Section 7(d)(iii)herein;
 - iv. The INSTITUTION shall promptly provide all Agreement deliverables due to the CRO/SPONSOR and, if requested by the CRO/SPONSOR, provide copies of all Work Product (including without limitation all Trial Data) to CRO/SPONSOR, in accordance with Section 7(d) (ii)herein;
 - v. The INSTITUTION shall return and/or dispose off all remaining Investigational Product or other Materials received or obtained hereunder, in accordance with the Protocol, Standards and the directions of CRO/SPONSOR, in accordance with Section 7(d) herein;
 - vi. The INSTITUTION shall, within thirty (30) days after such termination or expiration, provide a final invoice to the CRO; and
 - vii. The INSTITUTION shall, notwithstanding such termination or expiration,

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448 remain responsible for compliance with all Standards.

e) The provisions of Articles 5, 6, 7, 8, 9, 10, 12 and 13 herein shall survive any termination or expiration of this Agreement, as shall such other provisions as, by their context, are intended to survive such termination or expiration.

Effect of Termination

The Institution shall comply all the standard procedures required for study close out

8 **RECORDS:** The INSTITUTION shall maintain in the English language (a) all Work Product; and (b)complete, accurate and legible scientific and clinical documents, books and records pertaining to all activities performed and all Materials provided or obtained under this Agreement. The other Study materials will be archived at the INSTITUTION for the period set forth in the Clinical Trial Protocol and originals given to the CRO for the purposes of data analysis.

9. PUBLICATION OFRESULTS:

- a) Both the INSTITUTION and CRO shall treat matters of authorship in a proper, collaborative spirit, giving credit where it is due and proceeding in a manner that fosters cooperation and communication.
- b) It is hereby expressly made clear that all Intellectual Property Rights in the final test report as well as in the material generated during the process of Clinical trial will reside with the SPONSOR.CRO.

10. FINANCE:

a) The expenses of the Study, as set forth in the total projected budget, shall be paid by the CRO and are estimated not to exceed the amount mentioned in the total projected budget. In case it exceeds, it will be mutually agreed upon on reasonable grounds and documented appropriately. The CRO's payment to INSTITUTION is contingent upon the CRO receiving payment from the SPONSOR. Funds shall be paid by the CRO to the INSTITUTION for the satisfactory and timely performance under this Agreement, as per the payment details, terms and conditions laid out in

b) Annexure A.

All payments will be based on actual patient visits for every month.

Method of payment

CRO, on behalf of the Sponsor shall pay the relevant cost and fee as set out in Annexure A to the Institute and Institute will pay Principal Investigator.

Details of Payee are: All the site payments including investigator and co-investigator fees, Lab charges, Subject travel reimbursement and Institutional overhead charge will be paid on below mentioned payee name.

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospitai & Research Centre Adichuchanagiri University B.G. Nagara - 571448

Payee Name	SACCP Clinical Research
Address	Adichunchanagiri Hospital and Research Centre, B. G. Nagara, Nagamangala Taluk, Mandya district, Karnataka -571448, India
PAN Number	AAAJA2708B
Bank Account Number	8610101031980
Bank IFSC Code	CNRB0008610
GST NO	29AAAJA2708B1ZU
Name of the Bank	Canara Bank

Note: All the payments made to the payee are subject to Tax Deducted at Source (TDS) as per the applicable existing tax laws in the country and CRO will deduct the tax at the time of making payments unless a valid Certificate) from tax authority is made available.

c) An insurance policy, as relevant, for the participating patients covering any injury or illness suffered as a direct result of their participation in this Clinical Study shall be taken out by the SPONSOR/CRO. All participating patients will be informed by the Principal Investigator about the existence of the insurance policy and the extent of the coverage.

11. <u>PUBLICITY, PRODUCT PROMOTING ACTIVITY AND</u> <u>COMMUNICATION GUIDELINES:</u>

- a) The SPONSOR shall not identify or use the names, trademarks, trade names or symbols of the institution, Principal Investigator or his research team under the study without the prior written permission of the Principal Investigator and head of the institution for claims, publicity or any product promoting activity. because the SPONSOR is a publicly funded organization that must maintain a certain level of transparency about its collaborations, SPONSOR may disclose the identity of the INSTITUTION, publicly available information about the INSTITUTION and the broad purpose of the collaboration under this Agreement to third parties such as a Court of Law, regulatory agencies, governmental or legal agencies, other collaborators, other investigators involved in the project and the organization (profit or non-profit) funding the development of the Investigational Product. Also such details can be shared in scientific forums and with other medical professionals, if questioned.
- b) The INSTITUTION shall not identify or use the names, trademarks, trade names or symbols of the SPONSOR, the SPONSOR's employees or affiliates, SPONSOR, SPONSOR's employees, donors or affiliates or any other author of the primary collaborative publication described in Section 11(b) herein for publicity or product promoting_activity.
- c) Prior to the beginning of the Study, the CRO/SPONSOR shall develop external communication guidelines for use by the INSTITUTION. The INSTITUTION agrees to comply with such guidelines. The INSTITUTION shall not issue any press release

Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre

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Pragwal puter Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology ichunchanagiri Hospital & Research Centre

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G. Nagara - 571448

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concerning the Study or this Agreement without the prior, express written approval of SPONSOR.

12 LIMITATION OF LIABILITY: The parties expressly agree that there shall be no limitation on either Party's liability for any claims, damages, losses or liabilities arising out of or related to this Agreement or the services performed hereunder. IN NO EVENT SHALL EITHER PARTY BE LIABLE HEREUNDER FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LOST PROFITS AND LOSS OF USE OF FACILITIES) SUSTAINED BY THE OTHER PARTY OR ANY OTHER INDIVIDUAL, THIRD PARTY OR OTHER ENTITY FOR ANY MATTER ARISING OUT OF OR PERTAINING TO THE PATIENT MATTER OF THIS AGREEMENT. THE PARTIES EXPRESSLY ACKNOWLEDGE THAT THE FOREGOING LIMITATIONS HAVE BEEN NEGOTIATED BY THE PARTIES AND REFLECT A FAIR ALLOCATION OF RISK. Any disputes that arise during the study between SPONSOR/CRO and Principal Investigator will be under the jurisdiction of Mumbai courts.

i. <u>APPLICABLE LAW AND ARBITRATION</u>: This Agreement is entered into and will be deemed for all purposes to have been made in Mumbai, India and shall be governed and construed in accordance with the laws of India applicable to contracts and agreements. The parties shall share equally the costs of the Arbitration unless determined otherwise.

- 13 <u>AMENDMENTS:</u> This Agreement may only be amended by and to such degree as specified by the mutual written consent of the parties hereto.
- **14 ENTIRE AGREEMENT:** This Agreement, contains the entire understanding of the parties with respect to the subject matter hereof and except as expressly set forth herein, all express or implied agreements, representations and understandings, either oral or written, made prior to this Agreement are hereby expressly superseded by this Agreement. In the event there is a conflict between the Clinical Trial Protocol and the terms in the body of this Agreement, the terms in the body of this Agreement will govern with respect to commercial and contract terms, but such Protocol will govern with respect to the conduct of the Study and with respect to serving the welfare of patients of the Study. This Agreement may only be amended by a written instrument executed by the parties hereto, and CRO must approve any such amendment in writing prior to such amendment becoming effective.
- **SEVERABILITY:** The invalidity or unenforceability of any term or provision of this Agreement shall not affect the validity or enforceability of any other term or provision of this Agreement.
- 16 ASSIGNMENT: The Principal Investigator may not assign or transfer any of their rights or obligations under this Agreement without the prior written consent of the CRO. The CRO may assign this Agreement and all its rights and obligations hereunder to a successor or assignee of the business to which this Agreement relates.

Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448 Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichuchanagiri University B.G. Nagara - 571448

- WAIVER: No waiver of any term, provision or condition of this Agreement whether 17. by conduct or otherwise in any one or more instances shall be deemed to be or construed as a further or continuing waiver of the same term, provision or condition, or of any other term, provision or condition of this Agreement.
- NOTICE: Any notice required or permitted hereunder shall be in writing and shall be 18 deemed given as of the date it is (A) delivered by hand or (B) received by registered or certified mail, postage prepaid, return receipt requested, or received by facsimile and addressed to the party to receive such notice at the address set forth below, or such other address as is subsequently specified in_writing:

Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre

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Prayman Partel Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448

Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichuchanagiri University B.G. Nagara - 571448

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WHEREOF, the parties hereto have executed this Agreement in tripartite by proper persons thereunto duly authorized.

If to Principal Investigator: Name of the principle investigator

Prequer Party

Dr. Prajwal Patel H. S. Adichunchanagiri Hospital and Research Centre, Adichunchanagiri University, B. G. Nagara, Nagamangala Taluk, Mandya, Karnataka -571448, India.

If to CRO:

AL RE Norgendhal2 Nor II JAN 2021 MUMBA 18 *

If to INSTITUTION: Name of the Institute- Head, Clinical Trial

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Dr. Rajesh Venkataraman Adichunchanagiri University Adichunchanagiri Hospital & Research Centre, B G Nagara, Nagamangala Taluk, Mandya District, Karnataka - 571 448, India.

Dr. Neeta Nargundkar

Biosphere Clinical Research Pvt. Ltd., Highland Corporate Centre, SB 02,03 & 04, Second Floor, Near Kapurbawdi Junction, Thane (W)400 607.

Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre

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Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre Adichunchanagiri Hospital & Research Centre Adichunchanagiri University B.G.Nagara - 571 448 B.G. Nugara - 57 448

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Dr. Rajesh Venkataraman Head, Clinical Trails Contre Centre

Annexure A

Name of the Site:

Provisional Investigator Site Payment-Per Patient cost is as follows:

Visit Number	Payments INR
Visit 1 –Screening Visit/ -5 days	
-isit i -Screening visit/ -5 days	1500
/isit 2 –Randomization Visit / Day 1	1500
/isit 3-Follow up visit / 12 + 4 House and 1	
/isit 3–Follow up visit / 12 ± 4 Hours post administration of IP	1500
Visit 4 –Follow up visit / 24 \pm 6 Hours post administration of IP	1500
Visit 5- End of study visit/ 48+6 Hours post administration of IP or	1500
at the time of discharge whichever is earlier.	
Total	7500 INR

Note 1: The above payments are inclusive of Investigator Fees, Sub-Investigator Fees, Subject Travel Reimbursement, Laboratory cost and Institutional Overheads.

Note 2: Clinical Research Site Coordinator Fees 7,000 INR/month will be paid from Site Initiation Visit till completion of study activities. (Up to 2 Months)

Note 3: Screen failure subjects will be paid only up to 10% of the total enrolled completed subjects at the site.

Note 4: For drop-out subject payment will be made as per completed visit on pro-rata basis.

Note 5: All the site payments will be released upon receipt of original invoice signed by authorized signatories.

Note 6: All the payments made to the payee are subject to Tax Deducted at Source (TDS) and Goods and Services Tax (GST) as per the applicable existing tax laws in the country and CRO will deduct the tax at the time of making the payments.

Protocol Number: BCR-RPD-01 Site: Adichunchanagiri Hospital and Research Centre

Page 17 of 17

Cargendhom

Praval parter

Dr. Prajwal Patel .H.S Associate Professor KMC No: 76100 Department of Anaesthesiology Adichunchanagiri Hospital & Research Centre B.G.Nagara - 571 448 Dr. Rajesh Venkataraman Head, Clinical Trails Adichunchanagiri Hospital & Research Centre Adichuchanagiri University B.G. Nagara - 571448



Clinical Trial Details (PDF Generation Date :- Mon, 07 Aug 2023 04:08:49 GMT)

CTRI Number	CTRI/2020/02/023372 [Registered on: 17/02/2020] - Trial Registered Prospectively			
Last Modified On	11/05/2021			
Post Graduate Thesis	No			
Type of Trial	Interventional			
Type of Study	Surgical/Anesthesia			
Study Design	Randomized, Parallel Group	Trial		
Public Title of Study	Bupivacaine Hydrochloride in anaesthesia.	dextrose injection in	of Ropivacaine Hydrochloride in dextrose and lower limb orthopaedic surgeries under spinal	
Scientific Title of Study	A Phase III, Multicentre, Randomized, Double Blind, Parallel group, Comparative Clinical Study to evaluate Efficacy and Safety of Ropivacaine Hydrochloride 0.75% (7.5mg/mL) in Dextrose 8% (80mg/mL) injection compared to Bupivacaine Hydrochloride 0.5% (5mg/mL) in Dextrose 8% (80mg/mL) injection for subjects undergoing lower limb orthopaedic surgeries under spinal anaesthesia."			
Secondary IDs if Any	Secondary ID		Identifier	
	BCR-RPD-01 Version 2.0 da	ted 19 Sep 2019	Protocol Number	
	CT/Drugs/110/2019	-	DCGI	
Details of Principal		Details of Princi	pal Investigator	
Investigator or overall	Name	Dr Bharati Kondwill		
Trial Coordinator	Designation	Sponsors Principal		
(multi-center study)	Affiliation	Neon Laboratories	•	
	Address	140 Damji Shamji Industrial Complex Mahakali Caves Rd. Andheri		
	Phone	02268307000		
	Fax	02226873502		
	Email	bhartik2009@gmail	l.com	
Details Contact	D	etails Contact Pers	on (Scientific Query)	
Person (Scientific	Name	Dr Neeta Joshi		
Query)	Designation	Manager Formulation	on and Development	
	Affiliation	Neon Laboratories	-	
	Address	140 Damji Shamji Industrial Complex Mahakali Caves Rd. And East Mumbai MAHARASHTRA 400093 India		
	Phone	02268307000		
	Fax	02226873502		
	Email	neeta@pl.neongrou	ıp.com	
Details Contact		Details Contact Per	rson (Public Query)	
Person (Public Query)	Name	Dr Neeta Nargundk		
	Designation	Managing Director		
	Affiliation	Biosphere Clinical F	Research Pvt.Ltd	
	Address		04, 2nd Floor Highland Corporate Center,	



Source of Monetary or Material Support	> Neon Laboratories Ltd 140, DamjiShamji			A nerecro.com ary or Material Support		
	Andheri(East), Mumbai-4	10009	· ·			
Primary Sponsor				nsor Details		
	Name		Neon Laboratories			
	Address			ndustrial Complex, Maha nbai-400093, Maharashtr		
	Type of Sponsor		Pharmaceutical ind	ustry-Indian		
Details of Secondary	Name			Address		
Sponsor	NIL			NIL		
Countries of	List of Countries					
Recruitment	India					
Sites of Study	Name of Principal Investigator	Nam	ne of Site	Site Address	Phone/Fax/Email	
	Dr Prajwal Patel H S Dr Prasanta Kumar Das Dr Pradnya Bhalerao	All Ir Med		Department of Anaesthesiology Adichunchanagiri Hospital and Research Centre, Adichunchanagiri University, B.G Nagara Nagamangala Taluk, Dist- Mandya(Dt)- 571448,Karnataka Mandya KARNATAKA Department of Anaesthesiology,4th Floor,All India Institute of Medical Sciences, Sijua, Patrapada, Bhubaneshwar-751019, Odisha, India Khordha ORISSA Department of	9886787773 prajwal.patel83@gmail. com 9312677007 docdas.aiims@gmail.co m 8806664773	
		Colle	ege and Sassoon eral Hospital	Anaestheiology,1st Floor ,Block 11, B.J. Govt. Medical College and Sassoon General Hospitals, Jai Prakash Narayan Road, Near Pune Railway Station, Pune-411001, Maharashtra, India Pune MAHARASHTRA	dr.pradnyabhalerao@g mail.com	



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Dr Alok Khare	Jeevan Jyoti Hospital & Research Centre	Department of Anaesthesiology,Jeeva n Jyoti Hospital & Research Centre ,162, Bai Ka Bagh, Lowther Road, Allahabad– 211003 ,Uttar Pradesh,India Allahabad UTTAR PRADESH	9415338522 dralok1954@gmail.com



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		Aurangabad- 431003, Maharashtra, India. Aurangabad MAHARASHTRA	
Dr H G Manjunath	Mysore Medical College and Research Institute, KR Hospital	Department of Anaesthesia, KR Hospital , Mysore Medical College & Research Institute and Associate Hospitals Irwin Road, Mysore ,Karnataka, India -570021 Mysore KARNATAKA	9448054368 drhgmanjunath@hotmai I.com
Dr Maroti Gaikwad	PCMCs PGI Yashwantrao Chavan Memorial Hospital	Department Of Anaesthesia, PCMCs PGI Yashwantrao Chavan Memorial Hospital , Sant Tukaram Nagar, Near D.Y.Patil Medical College Vallabhnagar ,Pimpri, Pune - 411018, Maharashtra, India Pune MAHARASHTRA	9993226907 mrg20767@gmail.com
Dr Puneet Kumar Mital	Pushpanjali Hospital and Research Centre Pvt. Ltd.	Clinical Research Room, Ground floor,Pushpanjali Hospital and Research Centre Pvt. Ltd. Pushpanjali Palace Near Delhi Gate, Agra ,Uttar Pradesh - 282002 India Agra UTTAR PRADESH	09837027086 puneet.mital@gmail.co m
Dr Harishchandra Sakhare	Rao Nursing Home	Department of Anaesthesiology,Rao Nursing Home,Sr. No. 691A-1,CTS, NO. 1897-B, Pune-Satara Road,Next to Big Bazaar, Bibwewadi, Pune - 411037,Mahara shtra,India Pune MAHARASHTRA	9881719891 harish.sakhare@gmail. com
Dr Jagdish Hegde	Sparsh Super Speciality Hospital	Department of Anaesthesiology,Spars h Super Speciality Hospital, 4/1, Tumkur Road, Yeshwantpur, Bangalore-560022	9954275066 jagguhegde@gmail.co m



Details of Ethics Committee

		Bangalore KARNATAKA	
Name of Committee	Approval Status	Date of Approval	Is Independent Ethics Committee?
Ethics Committee G.S.V.M Medical College	Approved	23/06/2020	No
Ethics Committee Rao Nursing Home	Submittted/Under Review	No Date Specified	No
Institutional Ethics Committee and Independent Review Board , Jeevan Jyoti Hospital And Research Centre	Submittted/Under Review	No Date Specified	No
Institutional Ethics Committee at All India Institute of Medical Sciences	Approved	04/11/2020	No
Institutional Ethics Committee GGMC Mumbai	Approved	10/02/2021	No
Institutional Ethics Committee IMS and SUM Hospital	Submittted/Under Review	No Date Specified	No
Institutional Ethics Committee of B J Govt Medical College and Sassoon General	Approved	28/02/2020	No
Institutional Ethics Committee Sparsh Hospital	Approved	21/02/2020	No
Institutional Ethics Committee Yashwantrao Chavan Memorial Hospital	Approved	11/01/2021	No
Institutional Ethics Committee, Adichunchanagiri Institute of Medical Sciences	Approved	09/01/2021	No
Institutional Ethics Committee, Mysore Medical College & Research Institute and Associated Hospitals	Approved	25/01/2020	No
Institutional Ethics Com mittee,GMC,Nagpur	Submittted/Under Review	No Date Specified	No
IPGMEandR Research Oversight Committee	Submittted/Under Review	No Date Specified	No
MGM Ethics Committee for research on Human Subjects (MGM-ECRHS)	Approved	06/02/2020	No
Pushpanjali Hospital Ethics Committee	Approved	18/02/2020	No



Regulatory Clearance	Status			Date	
Status from DCGI	Approved/Obtained	Approved/Obtained		04/12/2019	
Health Condition /	Health Type			Condition	
Problems Studied	Patients			Administration	
Intervention /	Туре		Name		Details
Comparator Agent	Intervention		Ropivacaine Hy 0.75% (7.5mg/n 8%(80mg/mL) ii	nL) in Dextrose	A single dose of maximum up to 3 mL will beadministered to the subject through intrathecal rout at L3-L4 or L4-L5 intervertebral level in aseptic conditions with the help of spinal kit provided b sponsor. The exact dose of IP to be administered will be ascertained by the Principal Investigator.
	Comparator Agent	rator Agent Bupivacaine H 0.5% (5mg/ml 8%(80mg/mL		in Dextrose	A single dose of maximum up to 3 mL will beadministered to the subject through intrathecal rout at L3-L4 or L4-L5 intervertebral level in aseptic conditions with the help of spinal kit provided b sponsor. The exact dose of IP to be administered will be ascertained by the Principal Investigator.
	Inclusion Criteria				
	Age From 18.00 Year(s)				
	Age To 65.00 Year(s)				
	Gender	Both			
	Details	crit yea II.< dur	eria: 1.Ma ars (both inclusiv br/> 3.Subjects 	le and female su re). 2.Subje undergoing lowe under spinal ana	s must meet all the following bjects of age between 18 to 65 cts belonging to ASA Grade I to r limb orthopaedic surgeries of esthesia. 4.Subjects willing bation in the study.
Exclusion Criteria	Exclusion Criteria				
	Details	 Subjects will be excluded from the study for any of the following reasons: 1. Subjects with known hypersensitivity to the investigational medicinal products. 2. Subjects with contraindications for spinal anaesthesia. 3. Subjects receiving treatment with MAO inhibitors, Phenothia and Tricyclic antidepressants within 14 days prior to participate the trial. 4. Subjects with concurrent participation in another clinical trial investigational therapy within 30 days prior to signing informed consent. 5. Subjects with suspected inability to comply with the study procedure. 6. Female subjects who are pregnant or lactating. 7. Female subjects who are not ready to use acceptable contraceptive methods during the course of study. 		vity to the investigational r spinal anaesthesia. MAO inhibitors, Phenothiazines 14 days prior to participation in tion in another clinical trial or any ys prior to signing informed to comply with the study of or lactating.	
Method of Generating	Computer generated rand	domizati	on		



Method of Concealment	Sequentially numbered, sealed, opaque envelope	s				
Blinding/Masking	Participant and Investigator Blinded					
Primary Outcome	Outcome	Timepoints				
	 Mean difference in 1. Time required to reach sensory block up to T10. 2. Peak level of sensory block. 3. Time taken for two segment regression from peak level of sensory block. 4. Total duration of sensory block from time of injection to first demand for analgesia. 5. Time required for onset and complete recovery of motor block as measured by modified Bromage scale. 6. Time required for first micturition, achieve independent mobility. 	48±6 Hours				
Secondary Outcome	Outcome	Timepoints				
Torrad Comple Cine	 Mean change in vital parameters (Heart Rate, BP, Respiratory rate& SPO2). The assessment of safety will be based on the frequency of adverse events and change in laboratory values. 	48±6 Hours				
Target Sample Size	Total Sample Size=230 Sample Size from India=230 Final Enrollment numbers achieved (Total)=217 Final Enrollment numbers achieved (India)=217					
Phase of Trial	Phase 3					
Date of First Enrollment (India)	17/02/2020					
Date of First Enrollment (Global)	No Date Specified					
Estimated Duration of Trial	Years=1 Months=0 Days=0					
Recruitment Status of Trial (Global)	Not Applicable					
Recruitment Status of Trial (India)	Completed					
Publication Details	NIL					
Brief Summary	Na Sudy is A Plane II, Baltaren, Reckenzel, Onde Bird, Poeld grup, Companies Chiral Sudy is welcas Effican and Subty of Represente Hydroteche 5275 (7 Segret) is Datame IV 8879(11) hydr Biology Presenters.	m angened is Bytesare (Anderlands 135; glaget), ja Gantus Ph. (Blaget), japolia te adgets underging hav init enligend: Logets under gete assetten.				
48 49 49 49 49 49 49 49 49	analarati na manor kaka yi k 19. Analari da amang kaka yi kang kaka yi kang kaka ya ka Kaka ya kaka ya kaka Kaka ya kaka ya ka					
• Maan chan	en in dat presentemen (Heart Edita, BP, Respiratory and EPO). eer of under yell ha based on the frequency of adverse series and dronge in Montelary volume.					
• 15g Alaka						



Clinical Trial Details (PDF Generation Date :- Mon, 24 Aug 2020 06:03:53 GMT)

CTRI Number	CTRI/2019/07/020319 [Registered on: 22/07/2019] - Trial Registered Prospectively				
Last Modified On	24/08/2020	100000 m			
Post Graduate Thesis	No		and the second		
Type of Trial	Interventional				
Type of Study	Drug	an a			
Study Design	Other				
Public Title of Study	Testing of Sofinox Gel	on Diabetic Wound ulc	er patients		
Scientific Title of Study			se III, Study on the Safety and Efficacy of Sofinox G ACID 2%w/w) in Diabetic Wound Healing.		
Secondary IDs if Any	Secondary ID		Identifier		
	DUW-SHG/ IN-01 ver 24/04/2018	rsion 001 Dated on	Protocol Number		
	DUW-SHG/ IN-01 ve 04/08/2018	rsion 002 Dated on	Protocol Number		
	DUW-SHG/ IN-01 ve 10/04/2019	rsion 003 Dated	Protocol Number		
Details of Principal		Details of P	rincipal Investigator		
nvestigator or overall	Name	Dr RB Sudagar			
Trial Coordinator	Designation		Professor of Medicine		
(multi-center study)	Affiliation	the second se	ries Private Limited/ Sri Ramachandra University		
	Address		TAMIL NADU 600032		
	Phone	Contraction of the second second	NH CONTRACTOR		
	Fax				
	Email	drsingh7071@	omail.com		
Details Contact			Person (Scientific Query)		
Person (Scientific		Dr RB Sudaga			
Query)	Name		artment of General Medicine		
	Designation Affiliation				
	Address	Room no 7, De	Sri Ramachandra Medical College and Research Institute Room no 7, Department of General Medicine, Udayar block, No 1 Ramachandra Nagar, Sri Ramachandra Medical Centre, Porur, Chonnai		
	PATTIBOARI ala hospaal A teosonii Denus VRC Gare kat Foed	Chennai	Chennai TAMIL NADU 600116		
	Phone				
	Fax				
	Email	drsingh7071@	gmail.com		
Details Contact			t Person (Public Query)		
Person (Public Query)	Name	DrLRamanatha			
	Designation		er, Regulatory affairs		
	Affiliation				
			Apex Laboratories Private Limited Room no 21, M/S Apex Laboratories Private limited SIDCO garme		



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	Phone				
	Fax		and the second second second		
	Email	apexsrmc@gmail.c	com		
Source of Monetary or		Source of Monetary	or Material Support		
Material Support	> MS Apex Laboratories Tamil Nadu, India	Private Limited, SIDCO	farment complex III floor,	Guindy chennai 600032.	
Primary Sponsor		Primary Spo	onsor Details		
	Name	MS Apex Laborato	ries Private Limited		
	Address		ories Private limited SIDC nai-600032. Tamilnadu, I		
	Type of Sponsor	Pharmaceutical inc	lustry-Indian		
Details of Secondary	Name		Address		
Sponsor	NIL		NIL		
Countries of	List of Countries	to be the second se			
Recruitment	India				
Sites of Study	Name of Principal Investigator	Name of Site	Site Address	Phone/Fax/Email	
	Dr Chandrashekhar C Mahakalkar Prof of Surgery	Acharya Vinoba Bhave Rural Hospital, Datta Meghe Institute of Medical Sciences,	Sawangi, Wardha MAHARASHTRA	9822369277 cmahakalkar@rediffmai l.com	
	Dr Ravi BN	Adichunchungiri Hospital & Research Centre	Adichunchungiri Unviversity, B.G.Nagara, Nagamangal Mandya, Karnataka Mandya KARNATAKA	9448323893 ravibn972@yahoo.com	
	Dr Sabah Siddiqui	AIIMS RAIPUR	Room no. 2, Department of general medicine, Gate no. 4, AIIMS, Tatibandh, GE Road Raipur, C.G. Raipur CHHATTISGARH	8518881911 dr.sabah@aiimsraipur.e du.in	
	Dr Kumarvel Velayutham	Alpha Hospital & Research Centre	Alpha Hospital & Research Centre, 2B/2C, Gate lock Road, Mela Anupannady Madurai TAMIL NADU	9940582328 drvkumaravel@gmail.c om	
	Dr VB Narayana Murthy	Hycare for Wounds,	Hycare for Wounds,Hycare Super Speciality Hospital,No.37,38, Razak garden main road, MMDA Colony, Arumbakkam,	9566226622 vbnmurthy@gmail.com	



		Chennai-600106 Chennai TAMIL NADU	
Dr Abbay Kumar Sahoo	Institute of Medical Sciences and Sum Hospital	Institute of Medical Sciences and Sum Hospital, K8, Kalinga Nagar, Shampur Khordha ORISSA	9438534785 drabbay76@gmail.com
Dr Jayaprakash appajigol Assistant Prof of General Medicine	KLES, Dr. Prabhakar Kore Hospital and Medical research centre,	Nehru nagar, Belgavi, Karnataka- 590010 Belgaum KARNATAKA	9844595659 jayaprakashappajigol@ gmail.com
DrEThangavel Consultant Diabetologist	Monika Diabetes centre	8 Poondurai Road,Kalliappar Street,Nadar Medu, Railway colony, Erode -638002 Erode TAMIL NADU	9994522822 drethangavelu@yahoo. com
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	othering - 48 mg Orientes (120/kl_52/000 (120/kl_52) (15 48 68 6	ColeMin and	422002, Maharashtra, India Nashik MAHARASHTRA		
	Dr TV Raja	Visa Hospital	Visa Hospital, No 27, South West Boag Road, T Nagar. Chennai TAMIL NADU	9841038388 visahospital@gmail.co m	
Details of Ethics Committee	Name of Committee	Approval Status	Date of Approval	Is Independent Ethics Committee?	
	Alpha Hospital & Research Centre Institute of Diabetes & Endocrinology Ethics Committee	Approved	28/02/2017	No	
	Chennai Meenakshi Multispeciality Hospital Ethics Committee	Approved	25/05/2017	No	
	Ethics Committee Chennai Meenakshi Hospital	Approved	25/05/2017	No	
	IEC, KLE UNIVERSITY	Approved	20/04/2016	No	
	IEC-Adichunchangiri Institute of Medical Sciences	Approved	21/05/2018	No	
	IEC-All India Institute of Medical Sciences		27/08/2018	No	
	IEC-Sharad Pawar Dental College	Approved	23/03/2017	No	
	IMS and SUM Hospital Ethics Committee	Approved	04/08/2014	No	
	Saravana Multispeciality Hospital-IEC	Approved	18/02/2019	No	
	Shanmuga Medical Research Foundation Trust	Approved	08/03/2018	No	
	SMRFT-IEC	Approved	08/03/2018	No	
	SMRFT-IEC	Approved	08/03/2018	No	
	Sri Ramachandra Institutional Ethics committee	Approved	28/03/2017	No	
	Sri Ramachandra Institutional Ethics committee	Approved	28/03/2017	No	
	SUPE HOSPITALETHI CSCOMMITTEE	Approved	17/02/2017	No	
egulatory Clearance	Status		Date		
tatus from DCGI	No Objection Certificate		16/04/2019		
ealth Condition /	Health Type		Condition		
Problems Studied	Patients		Non-pressure chronic ulcer of other part of lowe		



Comparator Agent	Comparator Agent	Not Applicable	Not applicable		
	Intervention	Sofinox Gel	EVEN THOUGH FUSIDIC ACIE AS A MOLECULE POSSESSES A STEROIDAL CORE STRUCTURE IT DOES NOT EXPRESS ITSELF FOR ANTI-INFLAMMATORY & IMMUNOSUPPRESSIVE EFFECTS IN MEDICAL TREATMENT. BUT FUSIDIC ACID IN SOFINOX GEL IS ACHIEVED WITH A SUB-MICRON PARTICLE SIZE WHERE THE CORE STEROIDAL EFFECT GETS EXPRESSED BY THE PENETRATION ACHIEVED DUE TO ITS LOW PARTICLE SIZE".		
Inclusion Criteria	Inclusion Criteria				
	Age From	18.00 Year(s)			
	Age To	65.00 Year(s)			
	Gender	Both	To be made and a state of the second second		
		 Men or women aged between 18 and 65 years, with diabetic ulcers. Diabetic ulcer Single full-thickness ulcer of the extremity (below the malleolus) extending through the epidermis and dermis, but not involving bone tendons, ligaments or muscles. Chronic ulcer of at least four weeks despite appropriate wound care. Ulcer area (greatest length by greatest width), following sharp debridement, of 1 to 10 cm², both inclusive. Well controlled infection or cellulitis (systemic antibiotherapy). Adequate arterial blood supply to be measured, ankle brachial pressure index > 0.60, or ankle systolic pressure > 70 mmHg or toe pressure > 30 mmHg. Ankle brachial pressure index should be lower than 1.3 (which is frequently related to medial artery calcification). 			
Exclusion Criteria	Exclusion Criteria				
	Details	removed by debridement. 2. Any evidence of Osteomy radiographically. 3. HbA1c (?9.0), Renal failu nutritional status (albumin 4 disease. 5. Concomitant treatment w	Any evidence of Osteomyelitis assessed by the clinician diographically. HbA1c (?9.0), Renal failure (serum creatinine >3.0 mg/dL), poor tritional status (albumin 4. Known connective tissue or malignant		
	udas indicātā, ā 1 cars.	chemotherapy. 7. Use of investigational dru 8. Topical application of any (Growth Factor, antiseptics,			
	nt ton mob enable is not mean that t	last 4 weeks. 10. Patients with hypersens 11. Patients with hypersens			



	44.161/ 462-5 5.6-25 5.7-25 5.7-25 5.7-25 5.7-25 5.7-25 5.7-25 5.7-25 5.7-25 5.7-25	compliance), or fel reason. 13. Patient with ca stroke. 14. Pregnant wom	uration of the trial, treatment or wound care It to be unsuitable by the Investigator for any other Indiovascular disease or intermittent claudication or en will be excluded from the study. pressure index should not be greater than 1.3		
Method of Generating	Computer generated randomization				
Random Sequence Method of Concealment	Other				
Blinding/Masking	Open Label				
Primary Outcome	Outcome Timepoints				
	1 Complete healing is define epithelialisation or skin close	ed as full 100%	24 Weeks		
Secondary Outcome			Timepoints		
	Outcome 1. Percentage of reduction in ulcer size from baseline to 24 weeks.		24 Weeks		
Target Sample Size	Total Sample Size=312 Sample Size from India=312 Final Enrollment numbers achieved (Total)=Applicable only for Completed/Terminated trials Final Enrollment numbers achieved (India)=Applicable only for Completed/Terminated trials				
Phase of Trial	Phase 3				
Date of First Enrollment (India)	22/07/2019				
Date of First Enrollment (Global)	No Date Specified				
Estimated Duration of Trial	Years=0 Months=6 Days=0				
Recruitment Status of Trial (Global)					
Recruitment Status of Trial (India)	Open to Recruitment				
Publication Details	Not yet				
Brief Summary	Diabetes is a leading cause of non-traumatic lower extremity amputation, which is often preceded by a non-healing ulcer. The lifetime risk of foot ulceration in people with diabetes is 15%-20% ¹ . More than 15% of foot ulcers result in amputation of the foot or limb ² .				
	Several other population-based studies indicate a 0.5%-3% annua collective incidence of diabetic foot ulcers.				
	Normal infected wound shows signs of inflammation over the ulcers. Even though some of the diabetic foot ulcers does not shows inflammatory signs similar to infected wounds it does not mean that it is not affected by microbial organisms. There may be traces of microorganisms that hinder				

the process of revascularisation. According to study done by Benjamin A. Et al, suggests using topical antimicrobial therapy for treating chronic wounds in order to promote revascularisation process the bio burden on the wound ulcers has to be reduced using topical antimicrobial therapy empirically³⁸. Since diabetic foot ulcers are also similar to various other chronic wounds it is preferable to use the treatment strategy in the above mentioned study. An antibiotic is a low molecular substance produced by a microorganism that at a low concentration inhibits or kills other microorganisms. An antimicrobial is any substance of natural, semi synthetic or synthetic origin that kills or inhibits the growth of microorganisms but causes little or no damage to the host.

There are numerous topical regimens and devices available for the management of diabetic foot wounds including hydrogel, hydrocolloids, alginates, foam, silver impregnated dressings, growth factors, silicon impregnated a traumatic dressings, vacuum aided devices, hyperbaric oxygen therapy, etc.

Fusidic acid has a steroid like structure but no immunosuppressive and anti-inflammatory effects. In topical form, drug penetration is time related. The normal skin horny layer offers marked resistance to outside agents unless it is damaged or removed, but fusidic acid still does penetrate intact skin to some extent because of its significant absorption qualities, topical administration of fusidic acid results in much higher level of local concentration than that can be achieved with systemic administration. Further studies using fusidic acid cream have shown that there is fast and effective healing of superficial skin and soft tissue infection^{6,7,8}. Cochrane based review revealed that topical fusidic acid is equally or more effective than oral antibiotics in impetigo patients⁹.

Wound healing involves a timely expression of various growth factors that promotes cellular proliferation and migration, collagen deposition and formation of new connective tissue matrix^{10, 11}. Collagens are Proline-rich proteins that are fibrous with long, stiff, triple stranded helical structure comprising of three ?-chains. The major collagen molecules that give tensile strength to skin are heterotrimeric collagen type I, formed by two ? 1(I) chains and one ? 2(I) chain and homotrimeric collagen type III, formed by three ? 1(III) chains^{12,13}. The role of collagen in improving wound healing is by stimulating fibroblast activity¹⁴.An

observational study explains significant decrease in wound size in the experimental group compared to control group. The study proves that collagen dressing is better in comparison with conventional dressings considering early granulation tissue formation and reduced hospital stay.

Wound care plays a pivotal role in the management of diabetic foot ulcer, which comprises cleaning the wound with normal saline following aseptic techniques and the use of modern wound care techniques that promote a moist wound healing environment Although topical treatment is an important aspect of wound care, it is always considered secondary to surgical and systemic care. The increasing prevalence of antimicrobial resistance or other complications has led to a rise in the use of topical antimicrobial treatments *for increased wound bio burden*³⁸. Antimicrobial agents that are used topically are available in low cost and have the advantage of not driving resistance. Such agents provide high local concentrations, but do not penetrate intact skin or into deeper soft tissue.

Hence Topical antimicrobials may be beneficial in certain situations, where there are concerns regarding reduced antibiotic tissue penetration and in non-healing wounds where the classic signs and symptoms of infection are absent, but where there is a clinical suspicion of increased bacterial bioburden³⁷. In these situations topical antimicrobials have the potential to reduce bacterial load and may protect the wound from further contamination. In addition, treatment at an early stage may prevent spread of infection to deeper tissues.

Topical antimicrobial agents apart from treating the acute infection if present are also used to prevent future infection during the longer course of ulcer healing process. In the Cochrane library review which analysed topical antimicrobial agent for treating foot ulcers in people with diabetes. In this study 663 records where identified, out of which studies where qualified in terms of proper methodology and well designed RCT was reviewed³⁹.

Pooled data for non-antimicrobial dressings compared with antimicrobial dressings suggests (based on the average treatment effect from a random-effects model) that more wounds in people treated with antimicrobial dressings may completely heal. Our review found low-certainty evidence that treatment with antimicrobial dressings may increase the likelihood of wound healing; this may be a fruitful area for further research hence there is a scope for further study in analysing the benefit of topical antimicrobial agent in improving the outcome in diabetic foot ulcer.

Apex laboratories private limited has developed Sofinox Gel containing Sodium Fusidate. The rationale of the present study is to Study on the Safety and Efficacy of *Sofinox Gel* (SODIUM FUSIDATE equivalent to FUSIDIC ACID 2%w/w) *in* the management of Diabetic ulcers.