



सत्यमेव जयते

GOVERNMENT OF INDIA
CENTRAL DRUGS STANDARD CONTROL
ORGANISATION (Headquarter)
(Directorate General of Health Services)
Ministry of Health & Family Welfare
FDA Bhavan
ITO, Kotla Road New
Delhi - 110002 (Delhi) Phone No.:
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File No. CT/19/000041

To,

M/s. Novartis Healthcare Pvt. Ltd.,
Inspire BKC Part of 601 & 701 Bandra Kurla Complex,
Bandra (East) Mumbai – 400 051, Maharashtra, India.

Sir,

With reference to your application No GCT/Form44/FF/2019/14756 (GCT/39/19) dated 17-05-2019, please find enclosed herewith the permission in Form CT-06 for conduct of clinical trial titled, **“A phase III, Multicenter, Randomized, Double-blind Study to Assess Efficacy and Safety of Two Doses of Crizanlizumab versus placebo, with or without Hydroxyurea/ Hydroxycarbamide Therapy, in Adolescent and Adult Sickle Cell Disease Patients with Vaso-Occlusive Crises (STAND)”, Protocol number CSEG101A2301 version number 00 (Original Protocol) dated 29/01/2019** under the provisions of New Drugs and Clinical Trial Rules, 2019

The permission granted by the Central Licensing Authority to conduct clinical trial shall be subject to following conditions, namely:-

- (i) Clinical trial at each site shall be initiated after approval of the clinical trial protocol and other related documents by the Ethics Committee of that site, registered with the Central Licencing Authority under rule 8;
- (ii) where a clinical trial site does not have its own Ethics Committee, clinical trial at that site may be initiated after obtaining approval of the protocol from the Ethics Committee of another trial site; or an independent Ethics Committee for clinical trial constituted in accordance with the provisions of rule 7:
Provided that the approving Ethics Committee for clinical trial shall in such case be responsible for the study at the trial site or the centre, as the case may be:
Provided further that the approving Ethics Committee and the clinical trial site or the bioavailability and bioequivalence centre, as the case may be, shall be located within the same city or within a radius of 50 kms of the clinical trial site;
- (iii) in case an ethics committee of a clinical trial site rejects the approval of the protocol, the details of the same shall be submitted to the Central Licensing Authority prior to seeking approval of another Ethics Committee for the protocol for conduct of the clinical trial at the same site;
- (iv) the Central Licencing Authority shall be informed about the approval granted by the Ethics Committee within a period of fifteen working days of the grant of such approval;

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- (v) clinical trial shall be registered with the Clinical Trial Registry of India maintained by the Indian Council of Medical Research before enrolling the first subject for the trial;
- (vi) clinical trial shall be conducted in accordance with the approved clinical trial protocol and other related documents and as per requirements of Good Clinical Practices Guidelines and the provisions of these rules;
- (vii) status of enrolment of the trial subjects shall be submitted to the Central Licencing Authority on quarterly basis or as appropriate as per the duration of treatment in accordance with the approved clinical trial protocol, whichever is earlier;
- (viii) six monthly status report of each clinical trial, as to whether it is ongoing, completed or terminated, shall be submitted to the Central Licencing Authority electronically in the SUGAM portal;
- (ix) in case of termination of any clinical trial the detailed reasons for such termination shall be communicated to the Central Licencing Authority within thirty working days of such termination;
- (x) any report of serious adverse event occurring during clinical trial to a subject of clinical trial, shall, after due analysis, be forwarded to the Central Licencing Authority, the chairperson of the Ethics Committee and the institute where the trial has been conducted within fourteen days of its occurrence as per Table 5 of the Third Schedule and in compliance with the procedures as specified in Chapter VI;
- (xi) in case of injury during clinical trial to the subject of such trial, complete medical management and compensation shall be provided in accordance with Chapter VI and details of compensation provided in such cases shall be intimated to the Central Licencing Authority within thirty working days of the receipt of order issued by Central Licencing Authority in accordance with the provisions of the said Chapter;
- (xii) in case of clinical trial related death or permanent disability of any subject of such trial during the trial, compensation shall be provided in accordance with Chapter VI and details of compensation provided in such cases shall be intimated to the Central Licencing Authority within thirty working days of receipt of the order issued by the Central Licencing Authority in accordance with the provisions of the said Chapter;
- (xiii) the premises of the sponsor including his representatives and clinical trial sites, shall be open for inspection by officers of the Central Licencing Authority who may be accompanied by officers of the State Licencing Authority or outside experts as authorised by the Central Licencing Authority, to verify compliance of the requirements of these rules and Good Clinical Practices Guidelines, to inspect, search and seize any record, result, document, investigational product, related to clinical trial and furnish reply to query raised by the said officer in relation to clinical trial;
- (xiv) where the new drug or investigational new drug is found to be useful in clinical development, the sponsor shall submit an application to the Central Licencing Authority for permission to import or manufacture for sale or for distribution of new drug in India, in accordance with Chapter X of these rules, unless otherwise justified;
- (xv) the laboratory owned by any person or a company or any other legal entity and utilised by that person to whom permission for clinical trial has been granted used for research and development, shall be deemed to be registered with the Central Licencing Authority and may be used for test or analysis of any drug for and on behalf of Central Licencing Authority;
- (xvi) the Central Licencing Authority may, if considered necessary, impose any other condition in writing with justification, in respect of specific clinical trials, regarding the objective, design, subject population, subject eligibility, assessment, conduct and treatment of such specific clinical trial;
- (xvii) the sponsor and the investigator shall maintain the data integrity of the data generated during clinical trial.
- (xviii) The permission to initiate clinical trial granted under rule 22 in form CT-06 or automatic approval under rule 23 in Form CT 4A shall remain valid for a period of **two years** from the date of its issue, unless extended by the Central Licencing Authority.

Yours faithfully,

(Dr. S. Eswara Reddy)
Drugs Controller General (India)
Central Licencing Authority
Stamp

FORM CT-06

(See rules 22,25,26,29 and 30)

**PERMISSION TO CONDUCT CLINICAL TRIAL OF NEW DRUG OR
INVESTIGATIONAL NEW DRUG**

1. The Central Licensing Authority hereby permits **M/s. Novartis Healthcare Pvt. Ltd., Inspire BKC Part of 601 & 701 Bandra Kurla Complex, Bandra (East) Mumbai – 400 051, Maharashtra, India** to conduct clinical trial of the new drug or investigational new drug as per protocol number **CSEG101A2301 version number 00 (Original Protocol) dated 29/01/2019** in the below mentioned clinical trial sites [As per Annexure].-

2. Details of new drug or investigational new drug and clinical trial site [As per Annexure].

3. This permission is subject to the conditions prescribed in part A of Chapter V of the New Drugs and Clinical Trials Rules, 2019 under the Drugs and Cosmetics ct, 1940.

Place: New Delhi

Date _____

(Dr. S. Eswara Reddy)
Drugs Controller General (India)
Central Licensing Authority
Stamp

Note: The permission to initiate clinical trial granted under rule 22 in form CT-06 shall remain valid for a period of **two years** from the date of its issue, unless extended by the Central Licencing Authority.

Annexure:

Details of new drug or investigational new drug:

Names of the new drug or investigational new drug	SEG101 (Crizanlizumab)			
Therapeutic class:	Humanized Monoclonal P-selectin antibody			
Dosage form:	Concentrate for Solution for infusion			
Composition:	Ingredient	Amount per vial ¹	Function	Reference to Standards
	SEG101 antibody	100.0 mg	Drug Substance	Novartis Monograph
	Sucrose	753.3 mg	Stabilizer	Ph. Eur.; USP/NF
	Sodium citrate	50.53 mg	Buffering agent	Ph. Eur.; USP/NF

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	Citric Acid anhydrous	5.399 mg	Buffering agent	Ph. Eur.; USP/NF
	Polysorbate 80	2.00 mg	Stabilizer	Ph. Eur.; USP/NF
	Water for injection	q.s ² up to 10.33 g	Solvent	Ph. Eur.; USP/NF
	1. The overfill (5%), which allows the withdrawal of the labeled amount of the drug product from the vial, is not included in this table 2. q.s. = quantity sufficient			
Indications:	Sickle Cell Disease Patients with Vaso-Occlusive Crisis			

Details of clinical trial site:

Names and address of clinical trial site	Ethics committee details	Name of investigator
All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029, India	Ethics Committee, All India Institute of Medical Sciences, Room No. 102, Old OT Block, Ansari Nagar, New Delhi-110029, India ECR/538/Inst/DL/2014/RR-17	Dr. Tulika Seth
Christian Medical College, Department of Hematology, Ida Scudder Road, Vellore 632004, Tamil Nadu, India.	Ethics committee-Silver, Office of Research, Carman Block – First Floor, Christian Medical College, Vellore 632002, Tamil Nadu, India ECR/326/Inst/TN/2013/RR-16	Dr. Biju George
Institute of Hematology and Transfusion Medicine; 88, College Street, MCH Building, Medical College and Hospital, Kolkata-700073, West Bengal, India	Institutional Ethics Committee for Human Research; 88, College Street, MCH Building, Medical College and Hospital, Kolkata-700073, West Bengal, India ECR/287/Inst/WB/2013/RR-16	Dr. Maitreyee Bhattacharyya
Institute of Child Health, 11, Dr. Brijesh Guha Street, Park Circus, Ballygunge, Kolkata – 700017, West Bengal, India	Ethics Committee, Institute of Child Health, 11, Dr. Brijesh Guha Street, Park Circus, Ballygunge, Kolkata – 700017, West Bengal, India ECR/359/Inst/WB/2013/RR/16	Dr. Apurba Ghosh