EMPATHY: A Ph2-3 Randomized, Placebo-Controlled Trial Evaluating Safety and Efficacy of **Ensovibep in Ambulatory COVID-19 Patients**

Marianne Soergel¹, Richa Chandra², Shantha Rao², Charles G. Knutson³, Georg Hofstetter⁴, Vaia Stavropoulou¹, Nina Stojcheva¹, Philippe Legenne¹, Jeff Kingsley⁵ 1 Molecular Partners AG, Zurich-Schlieren, Switzerland. 2. Novartis Pharmaceuticals Corporation, East Hanover, NJ, USA, .3 Novartis Institutes for BioMedical Research, Cambridge, MA, USA. 4 Novartis Pharma AG, Basel, Switzerland. 5 IACT Health, Columbus, GA, USA

DISCI AIMERS

MS, NS, VS, and PL and employees of Molecular Partners AG RC, SR, CK and GH are employees of Novartis Pharma AG JK is an employee of IACT Health and a principle investigator on the **EMPATHY** trial

Ensovibep – One DARPin® Molecule to Bind Them All

The COVID-19 pandemic has highlighted the need for not only effective vaccines but also effective antivirals

Ensovibep is the first in a new class of antivirals that utilise the modularity of DARPin® domains to concomitantly bind to the three RBD units of the SARS-CoV-2 spike protein trimer. Effectively stopping the spike protein interaction with the ACE-2 receptor and rendering the virus particle impotent.

Ensovibep has shown high potency against all variants of concern in pre-clinical studies¹, and functional cures in animal models². Is safe and tolerable in phase 1 studies³. and shows encouraging signs in phase 2a studies4.

Ensovibep is now undergoing dose finding, safety and efficacy evaluation in ambulatory mild-to-moderate COVID-19 positive patients in the global phase 2b/3 study MP0420-CP302 called EMPATHY, #NCT04828161



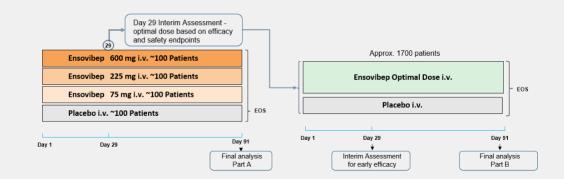
Visualisation of ensovibep binding to the SARS-CoV-2 Spike protein trimer: credits XXX

Study Design

Part A Randomized 4 arm placebo-controlled trial

Proof of efficacy and selection of the optimal efficacious dose

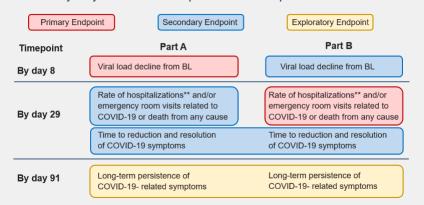
Part B: Randomized 2 arm placebo-controlled trial Confirmation of efficacy and superiority over placebo



Inclusion /exclusion

- Participating:
- USA
- South Africa
- · Europe (HU, NL
- India More countries will be invited for Part B
- Inclusion Criteria
- Ambulatory patients, symptomatic for ≤ 7 Days
- · Accepts patients with renal or liver disease, malignancies,
- · Accepts patients with prior vaccination
- · Positive rapid antigen test for SARS-CoV-2 on the day of
- · In US: "low risk" patients only (ROW: all risk levels)
- Exclusion criteria
 - · Prior antiviral therapy for COVID-19

Efficacy Objectives and Endpoints - All Compared with Placebo



Summary

We are exploring a tri-specific therapeutic protein that is expected to maintain superior resistance to virus mutations

- We anticipate that this study will offer relevant information beyond what was delivered by other studies in ambulatory COVID-19 patients by
 - Enriching the population with high viral load subjects (via positive rapid antigen test on the day of dosing)
 - Assessing not only short term virological and clinical efficacy, but also potential effects on the incidence of Long-COVID-19

Download the full poster as a PDF from our website: www.molecularpartners.com



- Malvezzi et al., ISIRV-WHO Virtual 2021 abs #
- BioRXive

- No reference available...
- No reference available..
- * Selected secondary and exploratory objectives
- **(≥ 24 h of acute care)