

EFFECT OF EARLY TREATMENT WITH PEGINTERFERON LAMBDA AMONG PATIENTS WITH COVID-19: THE *TOGETHER* RANDOMIZED PLATFORM CLINICAL TRIAL

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Disclosures

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together•COVID-19 Phase 3 Study with Peginterferon Lambda OVERVIEW

- First major study in a predominantly vaccinated patient population
- 51% (CrI 24-70%, Pr >99.9%) risk reduction in COVID-19-related hospitalizations or ER retention > 6hr (primary endpoint)
- 89% hazard reduction in COVID-19-related-hospitalization or all-cause death amongst unvaccinated patients receiving early treatment (HR 0.11, 95% Crl 0.01-0.75, Pr 99.2%)
- Efficacy across viral variants, including Omicron
- Comparable reduction of SARS-CoV-2 viral loads as demonstrated in Phase 2
- Treatment emergent adverse events similar to placebo
- Single injection; 100% compliance
- Potential combination with Paxlovid, offering strategy to supress protease inhibitor resistance



- Background on Peginterferon Lambda
- Topline Phase 2 *ILIAD* data of Peginterferon Lambda in COVID-19 outpatients
- Topline Phase 3 *TOGETHER* study design and results
- Conclusions

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Peginterferon Lambda – a broad-spectrum antiviral

IN DEVELOPMENT AT EIGER FOR THE TREATMENT OF CHRONIC HDV INFECTION

- Pegylated recombinant IL-29 Type III interferon ("Lambda")
- Binds to Type III receptors as compared to Type I receptors (eg, Alfa)
 - Highly expressed on epithelial cells within the lungs, intestine, and liver
 - Limited expression on hematopoietic, muscle, and CNS cells
- Both Type I and Type III interferons signal through similar Jak-STAT pathway
- Peginterferon lambda extensively investigated in 19 Phase 1, 2 and 3 clinical trials
 - > 3,000 patients have been treated in HCV / HBV / HDV studies
- Convenient subcutaneous dosing (once weekly)





Lambda and Alfa Induce Similar Antiviral Responses



PEG-IFN lambda vs. PEG-IFN alfa for HCV*(EMERGE)

*all with ribavirin, treatment-naïve genotypes 1 and 4



Muir et al., Journal of Hepatology 2014, 1238–1246

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| | | Genotypes 1,4 (48 weeks' treatment) | | | |
|---|-----------------------------------|-------------------------------------|---------------------|----------------------|---------------------|
| Peginterferon Lambda | | | Lambda | | Alfa |
| VS | | 120 µg (N = 98) | 180 µg (N = 102) | 240 µg* (N = 104) | 180 μg (N = 103) |
| V D | Total number of AEs, n | 706 | 663 | 787 | 1006 |
| Peginterferon Alfa | Headache | 26 (26.5) | 28 (27.5) | 29 (27.9) | 43 (41.7) |
| i eginterion i miu | Myalgia | 10 (10.2) | 6 (5.9) | 13 (12.5) | 34 (33.0) |
| Tolerability | Arthralgia | 14 (14.3) | 6 (5.9) | 10 (9.6) | 21 (20.4) |
| referability | Pyrexia | 12 (12.2) | 8 (7.8) | 5 (4.8) | 34 (33.0) |
| PHASE 2 FMERGE STUDY IN HCV | Insomnia | 31 (31.6) | 18 (17.6) | 23 (22.1) | 26 (25.2) |
| | Chills | 4 (4.1) | 4 (3.9) | 2 (1.9) | 22 (21.4) |
| | Irritability | 15 (15.3) | 16 (15.7) | 18 (17.3) | 13 (12.6) |
| | Pruritus | 19 (19.4) | 18 (17.6) | 29 (27.9) | 30 (29.1) |
| | Rash | 13 (13.3) | 15 (14.7) | 12 (11.5) | 25 (24.3) |
| | Laboratory abnormalities, n/N (%) | | | | |
| | ALT and/or AST high | | | | |
| | Grade 3 | 2/98 (2.0) | 3/101 (3.0) | 19/102 (18.6) | 7/103 (6.8) |
| | Grade 4 | 0 | 0 | 3/102 (2.9) | 1/103 (1.0) |
| | Total bilirubin high | | | | |
| | Grade 3 | 2/98 (2.0) | 5/101 (5.0) | 8/102 (7.8) | 4/103 (3.9) |
| | Grade 4 | 0 | 2/101 (2.0) | 2/102 (2.0) | 1/103 (1.0) |
| | Haemoglobin low | | | | |
| | Grade 3 | 11/97 (11.3) | 6/101 (5.9) | 7/102 (6.9) | 32/103 (31.1) |
| | Neutrophils low | | | | |
| | Grade 3 | 0 | 1/101 (1.0) | 1/102 (1.0) | 20/103 (19.4) |
| | Grade 4 | 0 | 0 | 0 | 1/103 (1.0) |
| | Platelets low | | | | |
| | Grade 2 | 0 | 2/101 (2.0) | 0 | 18/103 (17.5) |
| • Muin et al. ///anatalamy 2014 , 1229, 1246 | Grade 3 | 0 | 0 | 0 | 2/103 (1.9) |

Peginterferon Lambda Has Broad-Spectrum Antiviral Activity

MAJOR COMPONENT OF INNATE IMMUNE DEFNESE TO VIRUSES, BACTERIA, FUNGI

POTENT ANTIVIRAL EFFECTS

| | Lambda in Animal Models | Lambda in Human Studies |
|-------------------------------------|----------------------------|----------------------------|
| HBV, HCV, HDV | \checkmark | \checkmark |
| SARS-CoV-2 | \checkmark | \checkmark |
| Influenza, Human Metapneumovirus | \checkmark | TBD |
| Rotavirus, Norovirus, Reovirus | \checkmark | TBD |

Potential Benefits of Type III Interferons Against COVID-19 TYPE III IFNS HAVE LESS PRO-INFLAMMATORY PROPERTIES THAN TYPE I IFNS



Type III IFNS: First Line of Defense Upon Infection of Airways

LAMBDA IFN PRODUCED FIRST TO LIMIT VIRUS SPREAD AT EPITHELIAL BARRIER WITHOUT TRIGGERING INFLAMMATION



- If infection escapes Type III IFN control, Type I IFNs are induced that provide second line of defense
- Alfa IFN enhances antiviral response beyond the respiratory epithelium
- Alfa IFN activates pro-inflammatory responses and causes immunopathology (cytokine storm)

Weak Induction of Interferon Expression by SARS-CoV-2 Supports Clinical Trials of Interferon Lambda to Treat Early COVID-19

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Clinical Infectious

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"SARS-CoV-2 induces very weak expression of interferons in infected cells. Absence of IFN production likely hampers the early innate immune response to SARS-CoV-2 infection and suggests that use of exogenous IFN to stimulate antiviral immunity might be successful for treating SARS-CoV-2 infection...While IFN-I has less pro-inflammatory properties than type I IFN, pegylated-IFN-I1 has not been tested in patients with respiratory infections and ideally, should be first studied in patients with early SARS-CoV-2 infection or as prophylaxis."

Clin. Infec. Dis. April 2020

Phase 2 *ILIAD* Study – Proof of Concept

Α

В



rom COVID symptoms







SOCIETY FOR CLINICAL TRIALS DAVID SACKETT TRIAL OF THE YEAR



The NEW ENGLAND JOURNAL of MEDICINE



- Randomized adaptive platform trial to investigate the efficacy of repurposed treatments for COVID-19 disease among high-risk adult outpatients
- Received ethics board approval in Brazil (CEP/CONEP#: 41174620.0.1001.5120), and Canada (HiREB#: 13390; UHN21-5018)
- Data and Safety Monitoring Committee provides independent oversight
- The trial was initiated on June 2, 2020
- Enrollment into the Peginterferon Lambda arm began on June 24th, 2021
- 28-clay follow-up, 60-day long-term outco Check for updates
 A multi-center, adaptive, randomized, platform trial to evaluate the effect of repurposed medicines in outpatients with early coronavirus disease 2019 (COVID-19) and high-risk for complications: the TOGETHER master trial protocol [version 1; peer review: awaiting peer review]





In collaboration with our global partners





- Inclusion criteria
 - > 18 years with a known risk factor for disease progression
 - Presenting to an outpatient care setting with an acute clinical condition consistent with COVID-19
 and symptoms beginning within 7 days of the screening date
 - Positive rapid test for SARS-CoV-2 antigen
- Exclusion criteria
 - Acute respiratory condition compatible with COVID-19 treated in the primary care and requiring hospitalization



- Participants were contacted on Days 1, 2, 3, 4, 5, 7, 10, 14, and 28 via telephone and social media applications
- Participants were contacted at Day 60 to assess long-term outcomes
- All SAEs were documented and reported as per local regulatory requirements
- Data were entered into the trial's EDC system (IBM Clinical Development)

together•COVID-19 Phase 3 Study OUTCOMES

Primary Outcomes:

- COVID-19 emergency setting visits due to the clinical worsening of COVID-19 (defined as participant remaining under observation for > 6 hours)
- Hospitalization due to the progression of COVID-19 (defined as worsening of viral pneumonia) and/or complications within 28 days of randomization.
- COVID-19 hospitalization or death

Secondary Outcomes:

- WHO clinical worsening scale
- PROMIS global health scale
- Mortality defined and all-cause
- Cause-specific hospitalization
- Viral clearance and viral load
- Respiratory symptoms
- Adverse events
- Adverse drug reactions
- Adherence with medication



- Run in a Bayesian framework
- Stopping rules inform the DSMB
- Stopping for superiority based on *a priori* probability of superiority >97.6% on primary endpoint
- Adaptive design permits changes
- Events reported as both binary and time-to-events



together • COVID-19 Phase 3 Study

SECOND LARGEST TREATMENT EVALUATION IN OUTPATIENT COVID-19

- Multi-center, investigator-sponsored, randomized, placebo-controlled Phase 3 study in Brazil (12 sites) and Canada (5 sites)
- Single injection of peginterferon lambda vs. placebo
- Randomized within 7 days of symptom onset and positive SARS-CoV-2 test
- Enrolled >1,900 high-risk, non-hospitalized, 84% vaccinated patients from Jul 2021 Feb 2022
- High-risk criteria defined by patients having at least one of the following criteria, including but not limited to:
 > age 50, diabetes, hypertension, CV disease, lung disease, kidney disease, obesity, etc.
- Primary endpoint is reduction of COVID-19—related hospitalizations or emergency hospital visits (>6h) through Day 28
- Key secondary endpoint is reduction of COVID-19–related hospitalizations or deaths through Day 28

| | # of Patients (%) | | | |
|--|----------------------|--------------|--------------|--|
| Baseline Characteristic | Peginterferon lambda | Placebo | Overall | |
| | (n = 931) | (n = 1018) | (N = 1947) | |
| Median age (range) | 43 (18 – 92) | 43 (18 - 88) | 43 (18 – 92) | |
| Sex | | | | |
| Female | 531 (57.0) | 582 (57.2) | 1113 (57.1) | |
| Male | 400 (43.0) | 436 (42.8) | 836 (42.9) | |
| Race or ethnic group | | | | |
| Mixed Race ⁺ | 876 (94.1) | 977 (96.0) | 1853 (95.1) | |
| White | 31 (3.3) | 27 (2.7) | 58 (3.0) | |
| Black or African American | 18 (1.9) | 10 (1.0) | 28 (1.4) | |
| Pacific Islander | 1 (0.1) | 0 (0) | 1 (0.1) | |
| Other | 2 (0.2) | 2 (0.2) | 4 (0.2) | |
| Risk factors for severe illness from COVID-19 | | | | |
| Age ≥ 50 yr | 349 (37.5) | 403 (39.6) | 752 (38.6) | |
| Obesity | 321 (34.5) | 398 (39.1) | 719 (36.9) | |
| Hypertension | 261 (28.0) | 320 (31.4) | 581 (29.8) | |
| Chronic cardiac disease | 18 (1.9) | 29 (2.8) | 47 (2.4) | |
| Asthma (physician diagnosed) | 91 (9.8) | 101 (9.9) | 192 (9.9) | |
| Chronic pulmonary disease | 21 (2.3) | 26 (2.6) | 47 (2.4) | |
| Type 2 diabetes | 88 (9.5) | 93 (9.1) | 181 (9.3) | |
| Cancer | 13 (1.4) | 12 (1.2) | 25 (1.3) | |
| Multiple comorbidities | 517 (55.5) | 607 (59.6) | 1124 (57.7) | |

| | # of Patients (%) | | | |
|--|----------------------|------------|-------------|--|
| Baseline Characteristic | Peginterferon lambda | Placebo | Overall | |
| | (n = 931) | (n = 1018) | (N = 1947) | |
| Vaccination doses before randomization | | | | |
| No | 142 (15.3) | 177 (17.5) | 319 (16.5) | |
| 1 dose | 223 (24.5) | 258 (25.9) | 481 (25.3) | |
| 2 doses | 458 (50.3) | 483 (48.6) | 941 (49.3) | |
| 3 doses | 88 (9.7) | 78 (7.8) | 166 (8.6) | |
| Missing | 20 | 22 | 42 | |
| COVID-19 variant | | | | |
| Alpha | 6 (1.0) | 3 (0.5) | 9 (0.8) | |
| Delta | 266 (44.2) | 261 (47.1) | 527 (45.5) | |
| Gamma | 88 (14.6) | 57 (10.1) | 145 (12.5) | |
| Omicron | 241 (40.0) | 233 (42.1) | 474 (41.0) | |
| Zeta | 1 (0.2) | 1 (0.2) | 2 (0.2) | |
| Missing | 329 | 463 | 792 | |
| Days since onset of symptoms | | | | |
| 0-3 days | 567 (60.9) | 591 (58.1) | 1158 (59.4) | |
| 4-7 days | 364 (39.1) | 426 (41.9) | 790 (40.6) | |
| Missing | 0 | 1 | 1 | |

together•COVID-19 Phase 3 Study

HIGHLY SIGNIFICANT ON PRIMARY ENDPOINT

| Risk | # Days of Symptoms Before Treatment | Risk Reduction (95% BCI) | Probability of Superiority* |
|--|--|-----------------------------|--------------------------------|
| COVID-19-Related Hospitalization or ER retention | ≤ 7 days | 51% (24 - 70%) | >99.9% |
| | ≤ 3 days | 57% (19 - 79%) | 99.6% |

Peginterferon Lambda Highly Superior Compared to Placebo

99.91% PROBABILITY OF SUPERIORITY, SURPASSING PRESPECIFIED SUPERIORITY THRESHOLD OF 97.6%



together•COVID-19 Phase 3 Study

PRIMARY ENDPOINT DRIVEN BY HOSPITALIZATIONS : 74% OF EVENTS WERE HOSPITALIZATIONS

| Risk | # Days of Symptoms Before Treatment | Risk Reduction (95% BCI) | Probability of Superiority* |
|---|--|-----------------------------|--------------------------------|
| Hospitalization due to COVID-19 | ≤ 7 days | 43% (5-67%) | 98.3% |
| | ≤ 3 days | 65% (25-85%) | 99.6% |
| Hospitalization due to COVID-19 or Death due to COVID-19 | ≤ 7 days | 41% (3 –65%) | 98.1% |
| | ≤ 3 days | 65% (25–85%) | 99.6% |

No deaths in the peginterferon lambda arm in early treated patients

Comparable Populations

Unvaccinated populations

Primary outcome COVID hospitalization or death

Early treated (<3 days)

Primary outcome COVID hospitalization or death

Unvaccinated and early treatment

COVID hospitalization or death



Clear Peginterferon Lambda Treatment Effect by Subgroup

COVID-19-RELATED HOSPITALIZATIONS OR ER RETENTION (TREATED WITHIN 7 DAYS OF SYMPTOMS)

| | Peginterferon Lambda | Placebo | | Risk Reduction (RR, 95% Crl) |
|--------------|----------------------|-------------------------|---------------------|------------------------------|
| ITT | 25/931 | 57/1018 | - | 51% (0.49, 0.30 to 0.76) |
| Age | | | | |
| ≥50 | 18/350 | 38/404 ⊷ | | 44% (0.56, 0.32 to 0.93) |
| <50 | 7/581 | 19/614 - | —— | 59% (0.41, 0.17 to 0.91) |
| Sex | | | | |
| Male | 16/400 | 32/436 ⊢ ● | | 45% (0.55, 0.30 to 0.96) |
| Female | 9/531 | 25/582 — • | | 59% (0.41, 0.19 to 0.83) |
| Symptom onse | et | | | |
| ≤ 3 days | 11/567 | 28/590 ⊢● | | 58% (0.42, 0.21 to 0.80) |
| > 3 days | 14/364 | 29/428 — | <u> </u> | 42% (0.58, 0.31 to 1.05) |
| Vaccination | status | | I I | |
| Unvaccinat | ced 6/143 | 18/177 — | 1 | 56% (0.44, 0.18 to 0.98) |
| Vaccinated | 19/786 | 38/835 | | 46% (0.54, 0.31 to 0.91) |
| Obesity | | | | |
| Yes | 10/323 | 29/403 — • | | 55% (0.45, 0.22 to 0.86) |
| No | 15/608 | 28/615 - | | 45% (0.55, 0.30 to 1.00) |
| | | | 1 1 | ר () |
| | | 0.0 0.5 | 1.0 1.5 | 2.0 |
| | | Peginterferon Lambda Be | tter Placebo Better | |

together • covid-19: Variant Sub-analysis

PRELIMINARY ANALYSIS DEMONSTRATES LAMBDA IS ACTIVE AGAINST MULTIPLE VARIANTS

| Time Period | Dominant Variant | Lambda N (# events) | Placebo N (# events) |
|------------------|---------------------|------------------------|-------------------------|
| Jun 21 to Feb 22 | Full Study | 916 (25) | 1001 (57) |
| Dec 21 to Feb 22 | Omicron | 425 (2) | 500 (18) |
| Aug 21 to Dec 21 | Delta | 358 (12) | 363 (23) |
| Jun 21 to Aug 21 | Gamma | 128 (11) | 138 (16) |



- Preliminary analysis of treatment response against dominant variants: Gamma, Delta, and Omicron
- Jun 2021 to Aug 2021 (Gamma predominant)
 - 25% risk reduction during this earliest period
- Aug 2021 to Dec 2021 (Delta predominant)
 - 46% risk reduction
- Dec 2021 to Feb 2022 (Omicron predominant)
 - Highest risk reduction of 83%

together• COVID-19: Vaccine Sub-analysis

PEGINTERFERON LAMBDA IS ACTIVE ACROSS MULTIPLE VACCINE STATUS

| # Doses | Lambda n (# events) | Placebo n (# events) |
|--------------|------------------------|-------------------------|
| unvaccinated | 142 (6) | 177 (18) |
| 1 dose | 223 (6) | 258 (15) |
| 2 dose | 458 (13) | 483 (21) |
| 3 dose | 88 (0) | 78 (2) |

Majority of vaccinated patients received Pfizer or AZ vaccines





| Outcome | Measure | Peginterferon Lambda* (N=931) | Placebo* (N=1018) | Estimated Treatment Effect |
|---|--------------|----------------------------------|----------------------|-------------------------------|
| Hospitalization or ER retention > 6h for COVID-19 | RR (95% Crl) | 25 (2.7%) | 57 (5.6%) | 0.49 (0.30, 0.76) |
| Days to hospitalization or ER > 6h for COVID-19 | HR (95% Crl) | | | 0.47 (0.29, 0.73) |
| Hospitalization for COVID-19 | RR (95% Crl) | 21 (2.3%) | 40 (3.9%) | 0.58 (0.34, 0.96) |
| Days to hospitalization for COVID-19 | HR (95% Crl) | | | 0.57 (0.33, 0.95) |
| Death or hospitalization due to COVID-19 | RR (95% Crl) | 22 (2.4%) | 40 (3.9%) | 0.61 (0.36, 0.99) |
| Days to death or hospitalization due to COVID-19 | HR (95% Crl) | | | 0.59 (0.35, 0.97) |
| Death due to COVID-19 | RR (95% Crl) | 1 (0.1%) | 4 (0.4%) | 0.39 (0.05, 1.95) |
| Days to death for COVID-19 | HR (95% CI) | | | 0.22 (0.01, 1.64) |
| Hospitalization or ER (any duration) for COVID-19 | RR (95% Crl) | 99 (10.6%) | 140 (13.8%) | 0.78 (0.61, 0.99) |
| Days on mechanical ventilation | MD (95% Crl) | 10.2 (7.4) | 13.6 (11.9) | -4.47 (-6.89, 3.09) |

together•covid-19: Adverse Events

TREATMENT EMERGENT ADVERSE EVENTS COMPARABLE TO PLACEBO

| | DD | Lambda | Placebo | Effect size |
|---------------|--------------|-----------|-----------|-------------------|
| | NN | n (%) | n (%) | |
| TEAE, Grade 1 | RR (95% Crl) | 27 (2.9%) | 37 (3.6%) | 0.78 (0.48, 1.26) |
| TEAE, Grade 2 | RR (95% Crl) | 86 (9.2%) | 99 (9.7%) | 0.95 (0.72, 1.25) |
| TEAE, Grade 3 | RR (95% Crl) | 21 (2.3%) | 35 (3.4%) | 0.66 (0.39, 1.11) |
| TEAE, Grade 4 | RR (95% CrI) | 8 (0.9%) | 8 (0.8%) | 1.09 (0.42, 2.86) |



GREATER VIRAL LOAD DECLINE IN PATIENTS WITH HIGH BASELINE VIRAL LOAD

- Viral load reduction similar to Phase 2
- Patients with higher baseline viral loads:
 - Greater median viral load decline at Day 7
 - \circ 8.2 log₁₀ (peginterferon lambda) vs. 5.16 log₁₀ (placebo)
 - Greater proportion of patients BLOQ at Day 7
 - 50.5% (peginterferon lambda) vs. 32.9% for (placebo)



• Paxlovid (Pfizer M^{pro} protease inhibitor + ritonavir)

ritonavir \rightarrow challenge for rapid dosing in patients with many medications

- Protease inhibitor susceptible to developing resistance (?occurring in cases of relapse post treatment)
- Orthogonal MOA compared to Lambda
- Combination of Paxlovid + peginterferon lambda has potential to both:
 - increase efficacy and
 - decrease emergence of resistance to Paxlovid

together•COVID-19 Phase 3 Study

POTENTIAL "ONE AND DONE" FOR NEWLY DIAGNOSED COVID-19 OUTPATIENTS

- First major study in mostly vaccinated patients: early treatment resulted in greater treatment effects on all outcomes
- Primary endpoint: 51% (Crl 24-70%, Pr >99.9%)) risk reduction
- Unvaccinated patients receiving early treatment: hazard reduction of 89% in COVID-19-relatedhospitalization or death (HR 0.11, 95% CrI 0.01-0.75, Pr 99.2%*)
- 100% compliance with efficacy seen across viral variants, including Omicron
- Treatment emergent adverse events similar to placebo
- Ongoing, active discussions with FDA on potential Emergency Use Application

Demonstrated efficacy in a relevant patient population, regardless of vaccination status or SARS-CoV-2 variant



FAST — GRANTS

COVID-19 RESEARCH FUNDING









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