

ASX ANNOUNCEMENT

29 March 2021

Cynata Expands MEND clinical trial in COVID-19 and Respiratory Failure

Melbourne, Australia; 29 March 2021: Cynata Therapeutics Limited (ASX: CYP), a clinical-stage biotechnology company specialising in cell therapeutics, is pleased to announce that it has received ethics committee approval to expand recruitment criteria in its active MEND (MEseNchymal coviD-19) clinical trial.

Key highlights

- Ethics committee approval received to expand the recruitment criteria of Cynata's MEND clinical trial in patients in intensive care with respiratory failure, to include other causes beyond COVID-19 (such as influenza)
- The MEND trial will investigate early efficacy of Cymerus MSCs in patients with respiratory failure, who meet the well-established criteria for Acute Respiratory Distress Syndrome (ARDS)
- The trial expansion increases the pool of eligible patients, and is therefore expected to significantly accelerate recruitment
- Respiratory failure/distress (including ARDS) is a severe and life-threatening illness, representing a major unmet medical need

The MEND clinical trial was initially designed to investigate early efficacy of Cynata's proprietary Cymerus[™] mesenchymal stem cells (MSCs) in adults admitted to intensive care with COVID-19. The approved expansion will enable recruitment of patients with respiratory failure arising from other causes, with COVID-19 no longer a requirement. In view of the current state of control of the COVID-19 pandemic in Australia, this expansion of recruitment criteria is expected to substantially increase the pool of potential subjects for the trial.

The MEND trial is an open-label, randomised controlled clinical trial to investigate early efficacy of Cymerus MSCs in patients with respiratory failure. Cynata is seeking to enrol 24 adult patients admitted to intensive care with respiratory distress (or compromised lung function) at selected hospitals in Australia.

A corporate presentation on the MEND clinical trial and respiratory distress is attached to this announcement.

Dr. Kilian Kelly, Cynata's Chief Operating Officer, said:

"The expansion of this clinical trial represents execution of our strategy to ensure that, despite the dynamics of the COVID-19 pandemic, we will substantially increase the catchment of patients to accelerate the completion of the MEND trial. We have developed a solid pre-clinical data set in relevant diseases models of the severe respiratory distress and associated complications suffered by many patients affected by respiratory viruses such as SARS-CoV-2 (the virus that causes COVID-19) and influenza. This expansion will increase the number of patients eligible for recruitment into this trial, which is designed to investigate the potential benefits of our MSCs in treating these severely ill patients."

-ENDS-

Authorised for release by Dr Ross Macdonald, Managing Director & CEO

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About Cynata Therapeutics (ASX: CYP)

Cynata Therapeutics Limited (ASX: CYP) is an Australian clinical-stage stem cell and regenerative medicine company focused on the development of therapies based on Cymerus[™], a proprietary therapeutic stem cell platform technology. Cymerus[™] overcomes the challenges of other production methods by using induced pluripotent stem cells (iPSCs) and a precursor cell known as mesenchymoangioblast (MCA) to achieve economic manufacture of cell therapy products, including mesenchymal stem cells (MSCs), at commercial scale without the limitation of multiple donors.

Cynata's lead product candidate CYP-001 met all clinical endpoints and demonstrated positive safety and efficacy data for the treatment of steroid-resistant acute graft-versus-host disease (GvHD) in a Phase 1 trial. Clinical trials of Cymerus MSC products in osteoarthritis (Phase 3) and in respiratory distress (Phase 2) are currently ongoing. Planning is also underway for further clinical trials of Cymerus MSC products in GvHD (through licensee Fujifilm), critical limb ischemia, idiopathic pulmonary fibrosis, renal transplantation, and diabetic foot ulcers. In addition, Cynata has demonstrated utility of its Cymerus MSC technology in preclinical models of numerous diseases, including the clinical targets mentioned above, as well as asthma, heart attack, sepsis, acute respiratory distress syndrome (ARDS) and cytokine release syndrome.

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MEND Clinical Trial Update: Cynata Therapeutics Limited March 2021



Important information

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December 2020. This information is disclosed in the 4D report lodged with ASX on 26 February 2021. Any discrepancies between totals and sums of components in tables and figures in this Presentation are due to rounding.

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MEND Clinical Trial Update

MEND Phase 2 clinical trial recruitment criteria expanded: patient recruitment to target 24 subjects admitted to ICU with respiratory failure (COVID-19 is no longer a restriction¹)



Focus to be on ICU patients with respiratory failure; expected to increase the pool of eligible patients



Trial outcomes may have potential relevance in ARDS², CRS³ and sepsis



Original recruitment criteria was respiratory distress and expected COVID-19 or a COVID-19 diagnosis. 2. Acute Respiratory Distress Syndrome. 3. Cytokine Release Syndrome

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MEND¹ | Amended Phase 2 clinical trial

Ethics approval obtained to expand patient population to increase the pool of potential subjects

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.	Study design	 In collaboration with CPA Research Institute² and COVID-19 Stem Cell Treatment Group Open-label, randomised controlled clinical trial based in NSW, Australia Twelve patients randomised to receive Cymerus MSC infusions with standard care; twelve patients randomised as the control group, to receive current standard of care Primary endpoints: an improvement in PaO₂ / FiO₂ ratio (oxygenation of the patients blood) and safety & tolerability, up to Day 28
	Key milestones	 ✓ Ethics committee approval obtained for original trial protocol ✓ Trial start-up activities completed³ ✓ Patient enrolment open ✓ Ethics committee approval received to expand recruitment criteria beyond COVID-19 ❑ Seeking to enrol 24 adult patients admitted to intensive care with respiratory distress



CPA = Cerebral Palsy Alliance
 Document preparation; Electronic case report form, study database & safety monitoring systems; Study team training; Research Governance Office approval at each study site; Import, store & distribute Cymerus MSC product

Initial rationale underpinned by potential utility of MSCs in COVID-19

Rapid program planning and approval driven by increased market interest and Cynata's strong pre-clinical data in key target indications commonly arising from a severe case of COVID-19

Increased global interest in the potential of MSCs to treat complications of COVID-19¹

In some patients, COVID-19 causes **severe** complications, particularly involving the lungs

ARDS, sepsis, and CRS are all common hallmarks of serious cases of COVID-19

Cynata leveraged its pre-clinical data and increased interest to accelerate development with relevance to multiple indications





Target indications represent significant unmet medical needs

ARDS, sepsis and CRS are manifestations of an excessive inflammatory response and often occur in patients simultaneously





Market

Disease

Cymerus MSCs show positive effects in preclinical studies

Cynata's MSCs have shown potential as treatments in preclinical studies, including reducing inflammation which could be extremely useful in the MEND trial addressing the inflammatory reaction in these patients





Development pipeline and outlook

Broad and advanced clinical development pipeline, with multiple active trials and near-term catalysts

		Pre-clinical	Phase 1	Phase 2	Phase 3	Key catalysts
	GvHD			FUJi	FILM	Fujifilm responsible for all updates and ongoing development via global license agreement US\$2m milestone payment on Phase 2 completion
	ΟΑ		Successful safety results from Phase 1 GvHD trial enables other indications to bypass Phase 1	Accelerated to Phase 3 based on study parameters		Enrolment of 440 patients in the phase 3 clinical trial funded by an NHMRC grant
Y	MEND Program	Compelling pre-clinical data in ARDS, sepsis, CRS				Enrolment of 24 patients with respiratory distress admitted to ICU
	CLI					Phase 2 ready, with regulatory and ethics approval received ¹
	Diabetic Foot Ulcers					Sign agreement with TekCyte to utilise wound dressing technology in planned clinical trial
A	IPF					Expanding clinical development pipeline, with clinical trial planning underway
Grð	Renal transplant ²					
	Pre-clinical	Coronary artery disease; heart attack, asthma, cancer, other				Broad pre-clinical study results provide multiple opportunities for additional trials / partnering



Note: Timing is dependent on a number of external factors (including COVID-19 restrictions)

1. Trial timing uncertain due to continued impact on recruitment due to COVID-19, and being assessed as part of broader clinical development strategy

2. Preclinical model of organ transplant rejection complete

Key objectives for 2021

Cynata is in a strong position going forward with ~A\$30m cash¹ to fund all planned clinical trials and advance development of its proprietary Cymerus platform technology



Execute on the expansion of the clinical pipeline and commence new clinical trials

Executing strategy to accelerate recruitment in the MEND clinical trial



Advance recruitment progress in the active SCUIpTOR (OA) phase 3 clinical trial



Optimise manufacturing capabilities to enhance scale-up efficiencies



Execute US regulatory strategy, to drive commercialisation of its MSC products



Continue engagement in partnering discussions, and actively pursue of new opportunities





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