

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

CONTACTS: Dr Ross Macdonald, CEO, Cynata Therapeutics, +61 (0)412 119343, <u>ross.macdonald@cynata.com</u> Claire LaCagnina, U.S. Media Contact, +1 315.765.1462, <u>clacagnina@6degreespr.com</u>



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.

Sherapeutics

A Next Generation Stem Cell Therapeutics Company MEND Clinical Trial Update: Cynata Therapeutics Limited March 2021

Important information

Summary information

This Presentation contains summary information about Cynata Therapeutics Limited and its subsidiaries (CYP) which is current at 29 March 2021 This Presentation should be read in conjunction with CYP's other periodic and continuous disclosure information lodged with the Australian Securities Exchange (ASX), which are available at www.asx.com.au.

Not an offer

This Presentation is not a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with the ASIC) or any other law. This Presentation is for information purposes only and is not an invitation or offer of securities for subscription, purchase or sale in any jurisdiction. The release, publication or distribution of this Presentation (including an electronic copy) outside Australia may be restricted by law. If you come into possession of this Presentation, you should observe such restrictions. Any non-compliance with these restrictions may contravene applicable securities laws.

Not investment advice

This Presentation does not constitute investment or financial product advice (nor tax, accounting or legal advice) or any recommendation by CYP or its advisers to acquire CYP securities. This Presentation has been prepared without taking account of any person's individual investment objectives, financial situation or Industry and Market data particular needs. Before making an investment decision, prospective investors should consider the Certain market and industry data used in connection with this Presentation may have been obtained from appropriateness of the information having regard to their own investment objectives, financial situation and needs and seek legal, accounting and taxation advice appropriate to their jurisdiction. CYP is not licensed to provide financial product advice in respect of CYP securities.

Investment risk and past performance

Ah investment in CYP securities is subject to known and unknown risks, some of which are beyond the control of CYP and its directors. CYP does not guarantee any particular rate of return or performance of CYP. Past performance cannot be relied upon as an indicator of (and provides no guidance as to) future CYP performance including future share price performance.

Financial data

therapeutic

All financial information in this Presentation is in Australian currency (A\$) unless otherwise stated.

This Presentation contains historical financial information based on the Company's results for the half year to 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.

Forward-looking statements

This Presentation contains certain 'forward looking statements', which can generally be identified by the use of forward looking words such as 'expect', 'anticipate', 'likely', 'intend', 'should', 'could', 'may', 'predict', 'plan',

'propose', 'will', 'believe', 'forecast', 'estimate', 'target', 'outlook', 'guidance', 'potential' and other similar expressions. The forward looking statements contained in this Presentation are not guarantees or predictions of future performance and involve known and unknown risks and uncertainties and other factors, many of which are beyond the control of CYP, its directors and management, and may involve significant elements of subjective judgment and assumptions as to future events which may or may not be correct. There can be no assurance that actual outcomes will not differ materially from these forward looking statements. A number of important factors could cause actual results or performance to differ materially from the forward looking statements. No representation or warranty, express or implied, is made as to the accuracy, likelihood of achievement or reasonableness of any forecasts, prospects, returns or statements in relation to future matters contained in this Presentation. The forward looking statements are based on information available to CYP as at the date of this Presentation. Except as required by law or regulation (including the ASX Listing Rules), CYP and its directors, officers, employees, advisers, agents and intermediaries undertake no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise. You are strongly cautioned not to place undue reliance on forward-looking statements, particularly in light of the current economic climate and the significant volatility, uncertainty and disruption caused by the outbreak of COVID-19.

research, surveys or studies conducted by third parties, including industry or general publications. Neither CYP nor its representatives have independently verified any such market or industry data provided by third parties or industry or general publications.

Disclaimer

To the maximum extent permitted by law, CYP and its advisers, affiliates, related bodies corporate, directors, officers, partners, employees and agents (Related Persons) exclude and disclaim all liability, including without limitation for negligence, for any expenses, losses, damages or costs arising from this Presentation or reliance on anything contained in or omitted from it. To the maximum extent permitted by law, CYP and its Related Persons make no representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of information in this Presentation and disclaim any obligation or undertaking to release any update or revision to the information in this Presentation to reflect any change in expectations or assumptions.

Statements made in this Presentation are made only as at the date of this Presentation. The information in this Presentation remains subject to change without notice.

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)



nal use

aneutics

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

MEND¹ | Amended Phase 2 clinical trial

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

titi titititi tititititi titititititi population	 24 adult patients admitted to intensive care with respiratory failure (compromised lung function) Respiratory Failure is a collection of signs and symptoms which collectively can be known as Acute Respiratory Distress Syndrome (ARDS), with significant overlap in patients experiencing CRS and sepsis
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

1. MEseNchymal coviD-19 Trial (MEND)

2. CPA = Cerebral Palsy Alliance

therape

^{3.} 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

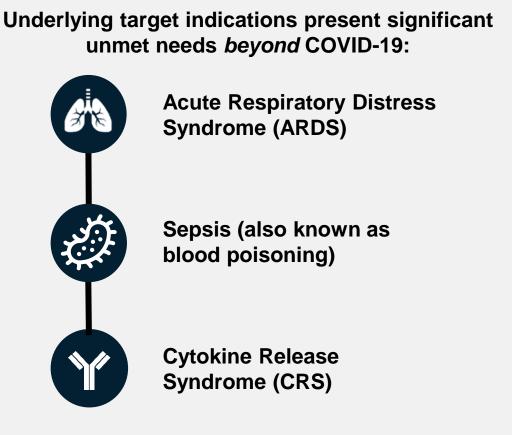
Rapid program planning and approval driven by increased market interest and Cynata's strong pre-clinical data in key target indications commonly arising from a severe case of COVID-19

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**

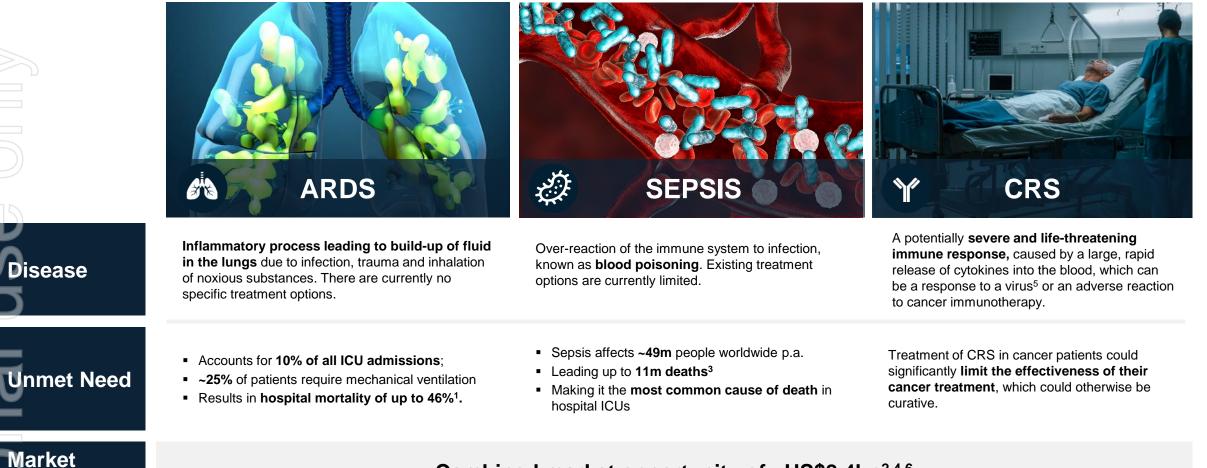
ARDS, sepsis, and CRS are all common hallmarks of serious cases of COVID-19

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



Combined market opportunity of ~US\$8.4bn^{2,4,6}

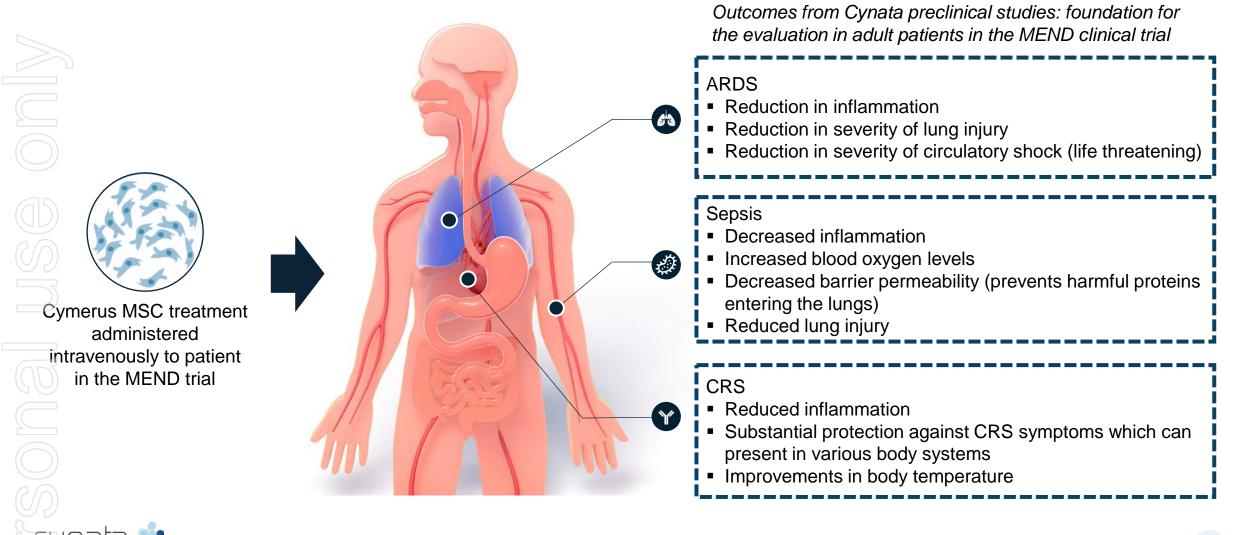


Opportunity

1. Bellani G, Laffey JG, Pham T, et al. Epidemiology, Patterns of Care, and Mortality for Patients With Acute Respiratory Distress Syndrome in Intensive Care Units in 50 Countries. Jama. 2016;315(8):788; 2. Vasomune Therapeutics company announcement, 2018 (Reflects total global market opportunity in 2018) 2. Vasomune Therapeutics company announcement, 2018 (Reflects total global market opportunity in 2018). 3. World Health Organisation, 2020 https://www.who.int/news-room/fact-sheets/detail/sepsis 4. GlobalData 2017 (Reflects total global market opportunity in 2026) 5. Mortality in COVID-19 patients has been linked to the virus inducing a 'cytokine storm'; excessive production of proinflammatory cytokines leads to ARDS aggravation and widespread tissue damage, leading to organ failure and death. (Source: Ragab D et al. (2020) The COVID-19 Cytokine Storm; What We Know So Far. Front. Immunol. 11:1446. doi: 10.3389/fimmu.2020.01446) 6. GlobeNewswire, 2020

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			FUJ	FILM	Fujifilm responsible for all updates and ongoing development via global license agreement
				. 05.		US\$2m milestone payment on Phase 2 completion
	ΟΑ		Successful safety results from Phase 1 GvHD trial enables other	Accelerated to Phase 3 based on study parameters		Enrolment of 440 patients in the phase 3 clinical trial funded by an NHMRC grant
A CAR) 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		indications to bypass Phase 1			Sign agreement with TekCyte to utilise wound dressing technology in planned clinical trial
and the second sec	IPF					Expanding clinical development pipeline, with clinical trial planning underway
Gið	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



en y

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





use only

Cynata Therapeutics Limited

Level 3 62 Lygon Street Carlton Victoria 3053 Australia

fy in

Contact details:



ross.macdonald@cynata.com



www.cynata.com