UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 13, 2021

Windtree Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

000-26422

Delaware

94-3171943

(State or other jurisdiction of incorporation or organization)	(Commission File Number)	(I.R.S. Employer Identification No.)
2600 Kelly Road, Suite 100, Warrington, Pennsylvania	18	3976
(Address of principal executive offices)	(Zip	Code)
Registrant's to	elephone number, including area code: (215	9) 488-9300
(Former na	Not Applicable nme or former address, if changed since last	report)
Check the appropriate box below if the Form 8-K filing is following provisions (see General Instruction A.2. below		obligation of the registrant under any of the
 □ Written communications pursuant to Rule 425 und □ Soliciting material pursuant to Rule 14a-12 under to Pre-commencement communications pursuant to F □ Pre-commencement communications pursuant to F 	the Exchange Act (17 CFR 240.14a-12) Rule 14d-2(b) under the Exchange Act (17 CF	
Securities registered pursuant to Section 12(b) of the Act	:	
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.001 per share	WINT	The Nasdaq Capital Market
Indicate by check mark whether the registrant is an emerg chapter) or Rule 12b-2 of the Securities Exchange Act of		of the Securities Act of 1933 (§230.405 of this
		Emerging growth company \Box
If an emerging growth company, indicate by check mark or revised financial accounting standards provided pursua		nded transition period for complying with any new

Item 2.02 Results of Operations and Financial Condition

On May 13, 2021, Windtree Therapeutics, Inc. (the "*Company*") issued a press release announcing its financial results for the quarter ended March 31, 2021. A copy of the press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information contained in this Item 2.02 (including Exhibits 99.1) is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "*Exchange Act*"), or otherwise subject to the liabilities of that section and shall not be deemed to be incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 8.01 Other Events.

On May 13, 2021, the Company updated information reflected in a slide presentation, which is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated herein by reference. Representatives of the Company will use the updated presentation in various meetings with investors from time to time.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following Exhibits are being filed herewith:

Exhibit No.	Document
99.1	Press Release of Windtree Therapeutics, Inc., dated May 13, 2021, announcing financial results for the quarter ended March 31, 2021, furnished herewith.
99.2	Investor Presentation of Windtree Therapeutics, Inc.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Windtree Therapeutics, Inc.

By: /s/ Craig Fraser

Name: Craig Fraser

Title: President and Chief Executive Officer

Date: May 13, 2021



Windtree Therapeutics Reports First Quarter 2021 Financial Results and Provides Key Business Updates

WARRINGTON, PA – **May 13, 2021** – Windtree Therapeutics, Inc. (NasdaqCM: WINT), a biotechnology and medical device company focused on advancing multiple late-stage interventions for acute cardiovascular and pulmonary disorders, today reported financial results for the first quarter ended March 31, 2021 and provided key business updates.

Key Business and Financial Updates

- Expanded the participating countries and sites in the Company's Phase 2 global clinical study of istaroxime for the treatment of Early Cardiogenic Shock in severe acute heart failure patients. Cardiogenic shock is a severe form of heart failure marked by critically low blood pressure. This study builds upon observations from the acute heart failure program and will assess the ability of istaroxime to improve blood pressure in these patients and is expected to be completed in the second half of 2021.
- Dosed the first patient in its Phase 2 clinical trial studying lucinactant, the Company's KL4 surfactant, in acute lung injury in adults with COVID-19 associated acute respiratory distress syndrome (ARDS). The study is designed to evaluate key safety and physiological measures and is expected to be completed in Q3 2021.
- Completed an equity financing raising approximately \$30.0 million in gross proceeds during the first quarter of 2021, before deducting
 underwriting discounts and commissions and other estimated offering expenses. Net proceeds from the offering were approximately \$27.4 million.
- Announced pursuit of additional expedited patent protection for our lead asset istaroxime with the filing of a Track One prioritized patent application with the U.S. Patent and Trademark Office for a patent stemming from an application previously filed under the Patent Cooperation Treaty. Under the Track One program, the new istaroxime patent is expected to receive review and final disposition within a year of priority status being granted, rather than the customary three-year examination for non-prioritized examinations.
- Extended the scientific collaboration with the University of Milan-Bicocca for further characterization and development of the Company's oral SERCA2a compounds for the potential treatment of chronic and acute human heart failure.

"With additional countries and sites opening and dosing patients in our Phase 2 global clinical study of istaroxime for the treatment of Early Cardiogenic Shock in severe acute heart failure patients and the first patient dosed in our Phase 2 study of lucinactant in acute lung injury in adults with COVID-19 associated ARDS, our first quarter was off to a very productive start," said Craig Fraser, President and Chief Executive Officer of Windtree. "As we look to the rest of the year, we see several potential value-creating milestones with data readouts anticipated in both Phase 2 trials. Additionally, we are actively engaged on the business development front, and are encouraged by the level of interest. Importantly, with the successful completion of a financing this quarter, our balance sheet provides the runway to continue to help fuel these current and planned development activities. We are focused on execution and a year of important milestones."

Select Financial Results for the First Quarter ended March 31, 2021

For the first quarter ended March 31, 2021, the Company reported an operating loss of \$9.1 million, compared to an operating loss of \$6.7 million in the first quarter of 2020.

Research and development expenses were \$4.4 million for the first quarter of 2021, compared to \$3.5 million for the first quarter of 2020. The increase in research and development expenses is primarily due to costs related to the clinical development of istaroxime.

General and administrative expenses for the first quarter of 2021 were \$4.7 million, compared to \$3.2 million for the first quarter of 2020.

The Company reported a net loss of \$9.0 million (\$0.51 per basic share) on 17.7 million weighted-average common shares outstanding for the first quarter ended March 31, 2021, compared to a net loss of \$6.5 million (\$0.48 per basic share) on 13.7 million weighted average common shares outstanding for the comparable period in 2020.

As of March 31, 2021, the Company reported cash and cash equivalents of \$38.5 million.

Readers are referred to, and encouraged to read in its entirety, the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2021, which will be filed with the Securities and Exchange Commission on May 13, 2021, which includes detailed discussions about the Company's business plans and operations, financial condition, and results of operations.

About Windtree Therapeutics

Windtree Therapeutics, Inc. is advancing multiple late-stage interventions for acute cardiovascular and pulmonary disorders to treat patients in moments of crisis. Using new clinical approaches, Windtree is developing a multi-asset franchise anchored around compounds with an ability to activate SERCA2a, with lead candidate istaroxime being developed as a first-in-class treatment for acute heart failure and early cardiogenic shock in heart failure. Windtree has also focused on developing AEROSURF® as a non-invasive surfactant treatment for premature infants with respiratory distress syndrome, and is facilitating transfer of clinical development of AEROSURF® to its licensee in Asia, Lee's HK, while Windtree evaluates other uses for its synthetic KL4 surfactant for the treatment of acute pulmonary conditions including lung injury due to viral, chemical and radiation induced insults. Also, in its portfolio is rostafuroxin, a novel precision drug product targeting hypertensive patients with certain genetic profiles.

For more information, please visit the Company's website at www.windtreetx.com.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. The Company may, in some cases, use terms such as "predicts," "believes," "potential," "proposed," "continue," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "will," "should" or other words that convey uncertainty of future events or outcomes to identify these forward-looking statements. Such statements are based on information available to the Company as of the date of this press release and are subject to numerous important factors, risks and uncertainties that may cause actual events or results to differ materially from the Company's current expectations. Examples of such risks and uncertainties include: risks and uncertainties associated with the ongoing economic and social consequences of the COVID-19 pandemic, including any adverse impact on the Company's clinical trials or disruption in supply chain; the success and advancement of the clinical development programs for istaroxime, AEROSURF®, KL4 surfactant and the Company's other product candidates; the Company's ability to secure significant additional capital as and when needed; the Company's ability to access the debt or equity markets; the Company's ability to manage costs and execute on its operational and budget plans; the results, cost and timing of the Company's clinical development programs, including any delays to such clinical trials relating to enrollment or site initiation; risks related to technology transfers to contract manufacturers and manufacturing development activities; delays encountered by the Company, contract manufacturers or suppliers in manufacturing drug products, drug substances, aerosol delivery systems (ADS) and other materials on a timely basis and in sufficient amounts; risks relating to rigorous regulatory requirements, including that: (i) the FDA or other regulatory authorities may not agree with the Company on matters raised during regulatory reviews, may require significant additional activities, or may not accept or may withhold or delay consideration of applications, or may not approve or may limit approval of the Company's product candidates, and (ii) changes in the national or international political and regulatory environment may make it more difficult to gain regulatory approvals and risks related to the Company's efforts to maintain and protect the patents and licenses related to its product candidates; risks related to the size and growth potential of the markets for the Company's product candidates, and the Company's ability to service those markets; the Company's ability to develop sales and marketing capabilities, whether alone or with potential future collaborators; and the rate and degree of market acceptance of the Company's product candidates, if approved. These and other risks are described in the Company's periodic reports, including the annual report on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, filed with or furnished to the Securities and Exchange Commission and available at www.sec.gov. Any forwardlooking statements that the Company makes in this press release speak only as of the date of this press release. The Company assumes no obligation to update forward-looking statements whether as a result of new information, future events or otherwise, after the date of this press release.

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Media contact:

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Tables to Follow

Condensed Consolidated Balance Sheets

(in thousands, except share and per share data)

Three Months Ended March 31,

		March 31,		
		2021		2020
		Unaudited		
ASSETS				
Current Assets:				
Cash and cash equivalents	\$	38,490	\$	16,930
Prepaid expenses and other current assets		851		1,188
Total current assets		39,341		18,118
Property and equipment, net		879		924
Restricted cash		154		154
Operating lease right-of-use assets		2,747		917
Intangible assets		77,090		77,090
Goodwill		15,682		15,682
Total assets	\$	135,893	\$	112,885
		<u> </u>		<u> </u>
LIABILITIES & STOCKHOLDERS' EQUITY				
Current Liabilities:				
Accounts payable	\$	939	\$	1,161
Accrued expenses		3,744		3,813
Operating lease liabilities - current portion		392		805
Loans payable - current portion		2,409		352
Total current liabilities		7,484		6,131
		.,		-,
Operating lease liabilities - non-current portion		2,438		201
Loans payable - non-current portion		-		2,423
Restructured debt liability - contingent milestone payments		15,000		15,000
Other liabilities		2,800		2,800
Deferred tax liabilities		16,683		16,778
Total liabilities		44,405		43,333
Total Managed		,		.5,555
Stockholders' Equity:				
Preferred stock, \$0.001 par value; 5,000,000 shares authorized; 0 shares issued and outstanding at March 31,				
2021 and December 31, 2020		_		_
Common stock, \$0.001 par value; 120,000,000 shares authorized at March 31, 2021 and December 31, 2020;				
26,257,089 and 16,921,506 shares issued at March 31, 2021 and December 31, 2020, respectively;				
26,257,065 and 16,921,482 shares outstanding at March 31, 2021 and December 31, 2020, respectively		26		17
Additional paid-in capital		821,165		790,277
Accumulated deficit		(726,649)		(717,688)
Treasury stock (at cost); 24 shares		(3,054)		(3,054)
Total stockholders' equity	_	91,488	_	69,552
	\$	135,893	\$	112,885
Total liabilities & stockholders' equity	Ψ	155,035	Ψ	112,003

Condensed Consolidated Statements of Operations

(in thousands, except per share data)

Three	Mo	nths	Ended
_	_		_

		March 31,		
		2021	2020	
Expenses:				
Research and development	\$	4,410 \$	3,461	
General and administrative		4,669	3,242	
Total operating expenses		9,079	6,703	
Operating loss		(9,079)	(6,703)	
Other (expense) income:				
Interest income		50	89	
Interest expense		(41)	(44)	
Other income, net		109	124	
Total other (expense) income, net		118	169	
Net loss	<u>\$</u>	(8,961) \$	(6,534)	
N. d				
Net loss per common share	*	(0 E4)	(0.40)	
Basic and diluted	\$	(0.51) \$	(0.48)	
Weighted average number of common shares outstanding				
Basic and diluted		17,695	13,697	
Basic and diluted		17,695	13,69/	



Windtree Therapeutics

Company Overview May 13, 2021

(NASDAQ: WINT)



Forward-Looking Statements

This presentation includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements, among other things, include statements about the Company's clinical development programs, business strategy, outlook, objectives, plans, intentions, goals, future financial conditions, future collaboration agreements, the success of the Company's product development activities, or otherwise as to future events. The forward-looking statements provide our current expectations or forecasts of future events and financial performance and may be identified by the use of forward-looking terminology, including such terms as "believes," "estimates," "anticipates," "expects," "plans," "intends," "may," "will," "should," "could," "targets," "projects," "contemplates," "predicts," "potential" or "continues" or, in each case, their negative, or other variations or comparable terminology, though the absence of these words does not necessarily mean that a statement is not forward-looking. We intend that all forward-looking statements be subject to the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified and some of which are beyond our control, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. These risks and uncertainties are further described in the Company's periodic filings with the Securities and Exchange Commission ("SEC"), including the most recent reports on Form 10-K, Form 10-Q and Form 8-K, and any amendments thereto ("Company Filings"). Moreover, we operate in an evolving environment. New risks and uncertainties may emerge from time to time, and it is not possible for management to predict all risks and uncertainties. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.

Under no circumstances shall this presentation be construed as an offer to sell or as a solicitation of an offer to buy any of the Company's securities. In addition, the information presented in this deck is qualified in its entirety by the Company Filings. The reader should refer to the Company Filings for a fuller discussion of the matters presented here.



Windtree Therapeutics Highlights



Biopharmaceutical and medical device company with four advanced clinical programs spanning cardiovascular and respiratory disease states (NASDAQ: WINT)



Clinical programs focused on significant markets with high unmet needs and with supportive regulatory paths:

- Two clinical programs received Fast Track and Orphan Drug Designations; one program with potential for Breakthrough Designation
- Multiple clinical and business milestones which may have the potential to be growth catalysts

Highly experienced management team and company leadership



Windtree Therapeutics Pipeline

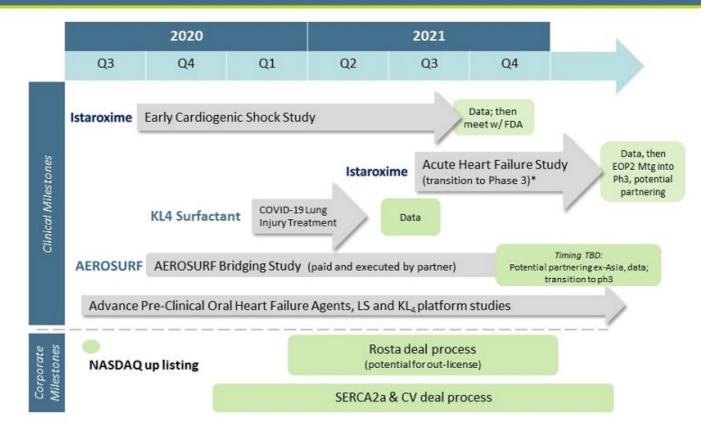
	Lead Products	Pre-	Phase I	Phase II	Phase III	Next Milestone
FDA Fast Track Designation	Istaroxime (Acute Heart Failure)			Phase 2b		 Study start up ongoing for second phase 2b clinical trial in ~300 patients targeted to start once clinical trial operations are fully funded
Potential for Breakthrough designation	Istaroxime (Early Cardiogenic Shock)			Phase 2		 Ongoing clinical study in ~60 patients in early cardiogenic shock; Data currently expected 2H 2021
	Oral SERCA2a Activators (Chronic HF; potentially HFpEF)			Preclinical		 Chronic and Acute Heart Failure Target for collaboration / partnership
FDA, EMA Orphan Drug for RDS	KL4 Surfactant – COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)			Phase 2		 IND Accepted; Initiated trial Q1 2021; anticipate data Q3 2021
FDA Fast Track Designation, Orphan Drug	AEROSURF (KL4 surfactant Drug/Device Tx for RDS)			Phase 2b		 Bridge study in ~80 patients with new ADS to be funded and executed by licensee
	Rostafuroxin (Genetically Associated HTN)			Phase 2b		 Out-licensing opportunity



Strategy for Value Creation

Planned Milestones

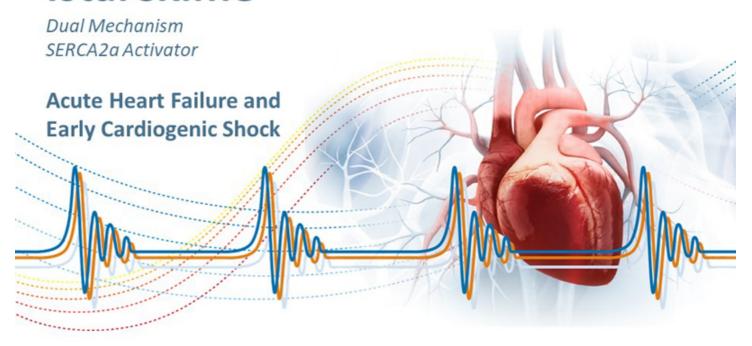
To be updated once full assessment of potential COVID-19 impact to trial conduct is fully understood





^{*}study initiation pending adequate funding

Istaroxime





Heart Failure - Large, Growing Market But Underserved

The prevalence and mortality of heart failure is high and increasing

- ➤ 6M U.S., 20M+ worldwide patients
- #1 cause of U.S. hospitalization in patients > 65 years old;
 - > 1.3M admissions annually (U.S.) ~1.5M admissions annually (E.U.)
- In-patient mortality up to 7%; 30-day mortality can exceed 10%
- Most expensive of the Medicare diagnoses; U.S. hospitals >\$18B annually
- There has not been meaningful new pharmacologic advancements in acute heart failure for decades

Lack of therapeutic advances led the FDA to issue new Heart Failure Guidance in July 2019 for greater development flexibility in acceptable endpoints, specifically acknowledging mortality is not required





Sources: American Heart Association; DRG Data

Acute Heart Failure - Significant Unmet Clinical Need



- Clinical objectives for AHF patient management include:
 - Relieve pulmonary congestion and general edema (e.g. "dry out") with i.v. diuretics
 - Improve cardiac function and peripheral / organ perfusion
 - Achieve stable, fully compensated clinical state
 - Transition to oral, outpatient medicines (for chronic management of heart failure)



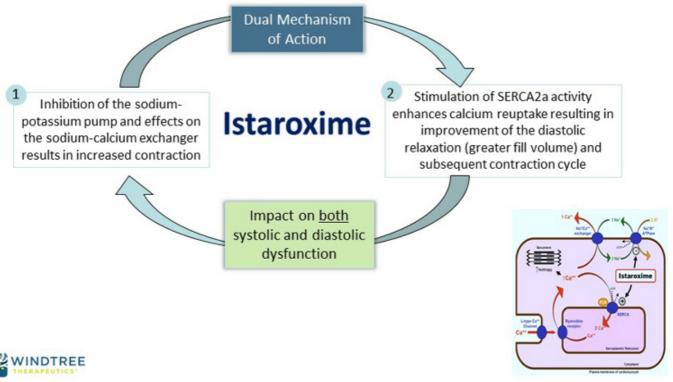
- Current approaches to acutely improve cardiac function are associated with unwanted effects:
 - · Heart rhythm disturbances
 - Increased heart rate and myocardial oxygen demand
 - Decreased blood pressure
 - · Potential damage to the heart muscle
 - · Worsening renal function
 - Mortality
- Patients with low blood pressure (SBP)
 and peripheral hypoperfusion are high
 risk, challenging patients and are also
 generally resistant to diuretic therapy and
 often discharged in a sub-optimal state

¹⁾ ADHERE Registry, n=48,567; JAMA 2006

²⁾ European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13

Istaroxime - Novel First-in-Class Therapy

Novel intravenous agent designed to improve systolic contraction and diastolic relaxation of the heart



Istaroxime AHF Phase 2a & 2b Studies – Summary

Multicenter, double blind, placebo-controlled, parallel group in 240 patients









Phase **ADHF Patients** 2a

Dosing= 0.5, 1, 1.5 µg/kg/min

6 hour Infusion Primary: PCWP significantly improved

Stroke Vol & SBP - significant increase

Heart Rate (HR) - lowered

Phase 2b

n=120

ADHF Patients (dyspnea plus need for IV furosemide ≥ 40mg) Dosing=

Positive phase 2 trial results demonstrated

improved cardiac function without

unwanted side effects of existing therapies

24 hour 0.5, 1.0 µg/kg/min Infusion Primary: E/e' (echocardiographic assessment of PCWP) was significantly improved by both doses

Heart rate decreased and stroke volume increased

Istaroxime maintained / increased systolic blood pressure

Renal function tended to improve

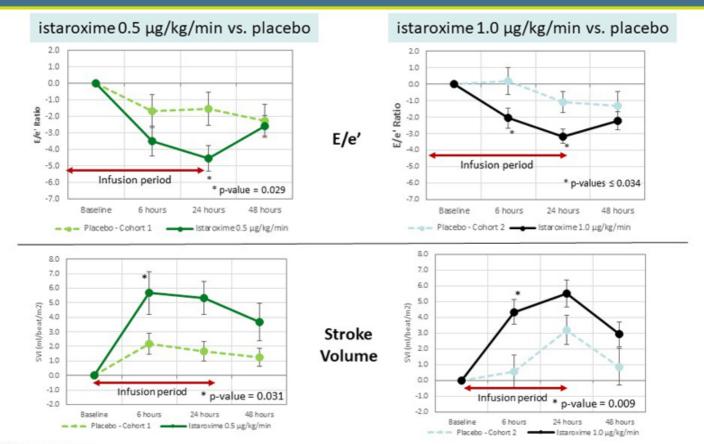
No evidence for increased risk of arrythmia or increases in troponin

Generally well tolerated (nausea and infusion site discomfort were most common AEs)



Primary Endpoint Achieved

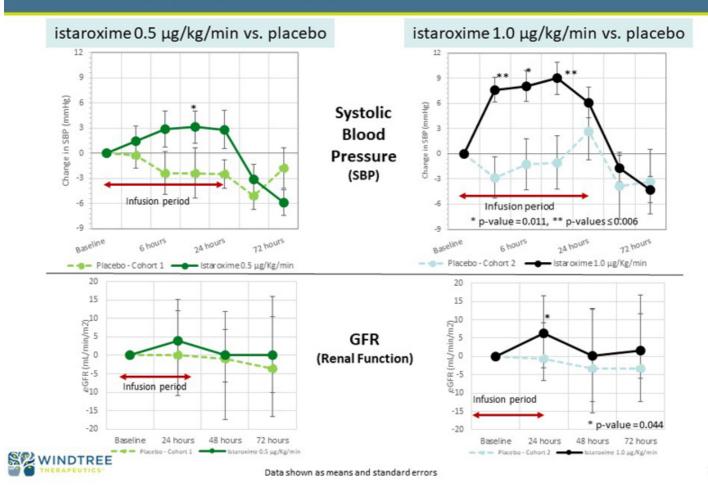
Significant Changes in E/e' Ratio⁽¹⁾ and Stroke Volume





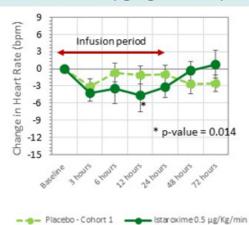
1) E/e' echocardiographic assessment of PCWP; Note: Data shown as means and standard errors

Systolic Blood Pressure Increased During Treatment and Renal Function Tended to Improve

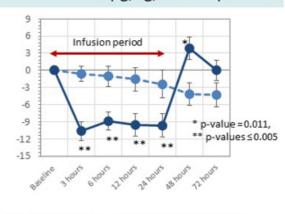


Heart Rate Decreased and No Increases in Cardiac Troponins

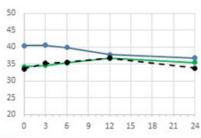
istaroxime 0.5 μg/kg/min vs. placebo



istaroxime 1.0 μg/kg/min vs. placebo



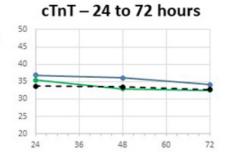




Cardiac TnT (Myocardial Damage)

Heart

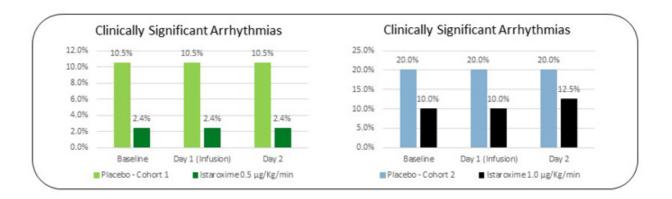
Rate



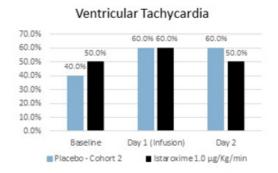


Favorable Profile Observed with 24-hour Holter Monitoring

May Have Protective Effect on Cardiac Arrhythmias



Ventricular Tachycardia 50.0% 47.4% 46.3% 42.1% 40.0% 30.0% 31.7% 10.0% Baseline Day 1 (Infusion) Day 2 Placebo - Cohort 1 Istaroxime 0.5 µg/Kg/min





PVCs (n°/24 hours) shown as median, ventricular tachycardia and clinically significant arrhythmias shown as percentage of patients

Istaroxime - Acute Heart Failure Next Steps

Objective: Optimize therapy and employ study enrichment strategies to create strong Phase 3 and partnership position

Execute an additional study designed to complete Phase 2 and inform Phase 3

300 patients, 75 centers globally*



Enrich therapeutic impact by leveraging characteristics in target population whose needs match the unique attributes of istaroxime: patients with low blood pressure and/or diuretic resistance



Increase infusion time to >24 hours in pursuit of dose optimization

- Executing FDA required 14-day dog toxicology study to support longer dosing



Primary endpoint will again be E/e', but also obtain data on measures that will inform phase 3 design and pivotal endpoint

Study start up underway for initiation with adequate funding; ~18 months to execute



Istaroxime

Early Cardiogenic Shock

Additional potential indication in active clinical development





Early Cardiogenic Shock Treatment

Istaroxime Potential Opportunity for Accelerated Approval Pathway

Cardiogenic shock is a **severe presentation of heart failure** characterized by **very low blood pressure and hypoperfusion** accompanied by high PCWP and decreased urine output

- No satisfactory pharmacological intervention to reverse the conditions
- High in-hospital mortality and morbidity

FDA Regulatory Commentary with Break-Through Therapy Designation Potential Sponsors are potentially **not required to show benefit other than** an increase in blood pressure to support approval of drugs to treat hypotension in the setting of shock⁽¹⁾

(Precedent: NDA for Giapreza® (IV Angiotensin II), approved in 2017 for increasing MAP in distributive shock – a different type of shock, not a competitor to istaroxime in early cardiogenic shock)⁽²⁾

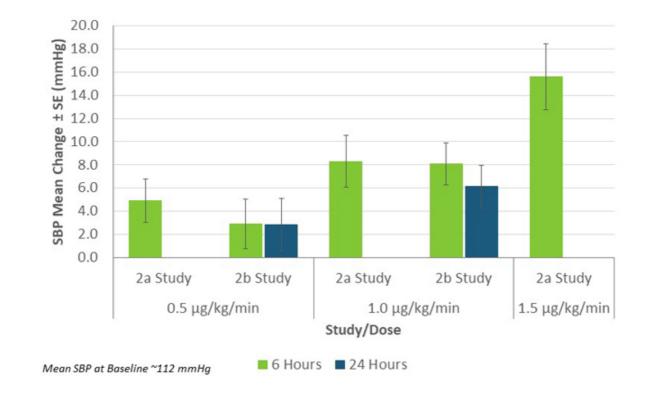
Precedent indicates potential accelerated regulatory pathway and review opportunities



- Kosaraju A, Hai O. Cardiogenic Shock. [Updated 2019 Jan 25]. In: https://www.ncbi.nlm.nih.gov/books/NBK482255/ CSRCThink Tank-July 24, 2019
- 2) Senatore et al., Am J Cardiovasc Drugs, February 2019, Volume 19, Issue 1, pp 11-20 (https://doi.org/10.1007/s40256-018-0297-9)

Changes in SBP – Phase 2a and 2b Dose Groups

Istaroxime Has Potential to Improve Blood Pressure and Organ Perfusion





Istaroxime

Early Cardiogenic Shock in Severe AHF Study

Goal:

- · Improve SBP with acceptable safety profile
 - Increased systolic and diastolic cardiac function without increasing heart rate, risk for arrythmias or myocardial oxygen demand
- · Support a breakthrough therapy regulatory application

Ongoing early cardiogenic shock study:

(while we are preparing for larger phase 2b acute heart failure study):



 $^{\sim}$ 60 patients in early cardiogenic shock (SBP 75-90mmHg) with AHF in the EU and US



1.5μg/kg/min target dose for 24 hours



- Primary endpoint is SBP AUC at 6 hours
- Other measures include: arrythmias, SBP AUC at 24 hours, echo measures, etc.

Started 2H 2020; Data expected in 2H 2021



Next Generation, Oral SERCA2a Activators *Acute and Chronic Heart Failure Platform*

The Company also has pre-clinical programs on product candidates including:

Selective SERCA2a Activators

- Oral & i.v. therapies for chronic heart failure (CHF) and AHF
- Attractive approach for heart failure with preserved ejection fraction (HFpEF)

Dual Mechanism, (SERCA2a & Na+/K+) Compounds

 "Next generation Istaroxime" as oral / i.v. for in-patient acute and outpatient chronic use

These next generation agents help form complete chronic and acute heart failure treatment portfolio for both licensing / partnership and potential commercialization



Summary

Potential to Create Value

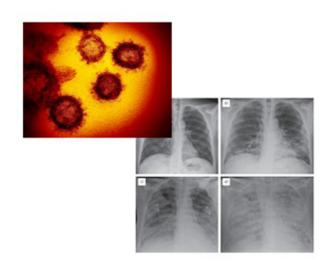
- Acute heart failure large market with significant unmet need
 - Istaroxime appears to be the only drug in phase 2 or phase 3 development for AHF treatment
- Istaroxime dual-mechanism therapy with positive phase 2a and 2b trial outcomes:
 - ✓ Improved cardiac function
 - ✓ Uniquely improved SBP and renal function
 - ✓ Favorable safety profile compared to existing therapies
- Creating strong phase 3 position: planned Istaroxime study will leverage unique profile in a target population that may most benefit from Istaroxime, dose longer and include measures that would inform the phase 3
- Potential accelerated path to approval: Istaroxime Early Cardiogenic Shock study with data expected in 2H 2021
 - · Opportunity for Breakthrough
- Next generation, oral SERCA2a activators in early development create a multi-asset, chronic and acute heart failure platform



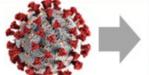
Lyo Lucinactant

Synthetic KL4 Surfactant

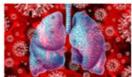
Lung Injury in COVID-19 Patients



COVID-19 and ARDS Have Significant Negative Impact on Surfactant-Related Lung Function

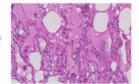


Uses angiotensinconverting enzyme 2 (ACE2) for entry into host



ACE2 is surface molecule on alveolar Type 2 lung cells – the source of surfactant



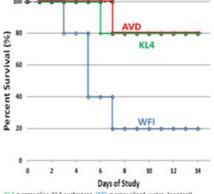


Surfactant is necessary for lungs to stay inflated and for proper gas exchange; Type 2 cell damage results in impaired surfactant production



Increased likelihood of mechanical ventilation

- COVID-19 infection can cause serious lung injury resulting in acute respiratory distress syndrome (ARDS) – condition with high mortality and no approved drug therapies, where surfactant abnormalities are an important factor
- Recent publications suggest that lung fibrosis and severe interstitial changes occur in COVID-19 patients who developed ARDS (1, 2, 3)
 - Changes resemble those seen in premature infants who are initially ventilated due to RDS and later develop bronchopulmonary dysplasia (BPD)
- KL4 surfactant significantly reduced mortality in a pre-clinical study of highly pathogenic avian (H5N1) influenza

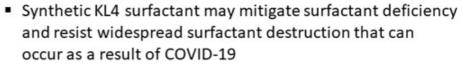


KL4 = aerosolize KL4 surfactant, WFI = aerosolized water (control AVD = aerosolized KL4 surfactant + antiviral

1) Bernheim, A., X. Mei, et al. (2020). "Chest CT Findings in Coronavirus Disease-19 (COVID-19): Relationship to Duration of Infection." <u>Radiology</u>: 200463. 2) Hosseiny, M., S. Kooraki, et al. (2020). "Radiology Perspective of Coronavirus Disease 2019 (COVID-19): Lessons From Severe Acute Respiratory Syndrome and Middle East Respiratory Syndrome. <u>American Journal of Reentgenology</u>: 1-5.
3) Song, F., N. Shi, et al. (0). "Emerging 2019 Novel Coronavirus (2019-nceV) Precumonial 0.1148/radiol.2020200274." <u>Radiology</u> 0(0): 200274

Surfactant Administration in Severe COVID-19 Lung Injury May Have Potential to Provide Significant Benefits





 Synthetic KL4 surfactant removes any immunological concerns and has manufacturing scalability versus animalderived surfactants

Pre-clinical and clinical evidence shows surfactant replacement therapy has potential to:



- · Lung function
- · Gas exchange and oxygenation
- · Lung compliance



- Inflammation in the lung
- Which may decrease lung damage, facilitate recovery and decrease mechanical ventilation



References in appendix

Phase 2 study of Lucinactant (KL4 Surfactant) for Treatment of COVID-19

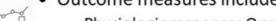
Objective: demonstrate changes in physiological parameters in COVID-19associated lung injury and ARDS



- Up to 20 patients from 4-5 US sites
 - Led by investigators at Brigham & Women's and Duke Medical Center



- Dosing through the endotracheal tube, target 80 mg TPL/kg; repeat dosing based on improvement in oxygenation
- Outcome measures include:



- Physiologic response: Oxygenation Index (OI)
- Lung compliance on the ventilator
- Clinical parameters (time on MV, days in ICU, mortality)

Data expected in Q3 2021

(depending on COVID-19 rates)

If study outcomes are favorable, plan can be to initiate 2 expanded trials:

- 1. Expanded study in ventilated patients to establish outcomes
- Aerosolized delivery to avoid mechanical ventilation (similar to our respiratory distress syndrome studies)



AEROSURF

Synthetic KL4 Surfactant with Proprietary Aerosol Delivery System

Respiratory Distress Syndrome (RDS)



Respiratory Distress Syndrome (RDS)

Current Treatment Pathways

- Surfactant helps keep lungs open between breaths and gas exchange
- Premature infants experience respiratory distress syndrome ("RDS") due to lungs lacking endogenous surfactant
- Physicians must choose between invasive surfactant delivery with known, significant complications or non-invasive nasal continuous positive airway pressure (nCPAP) alone (that often fails without surfactant)

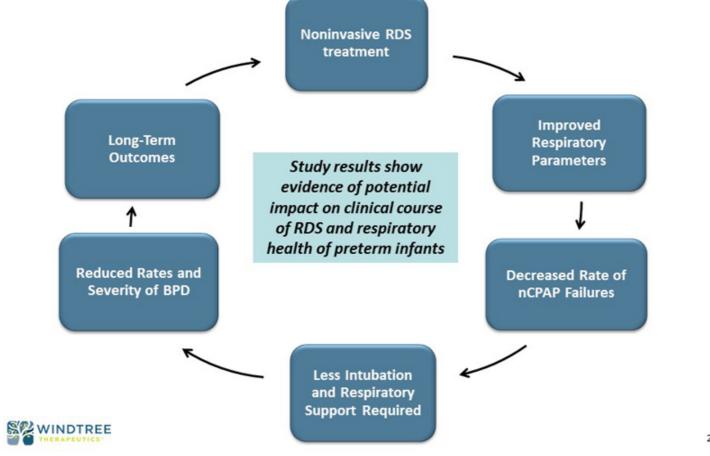
	AEROSURF	Current T	reatment
	Non-Invasive Synthetic Surfactant	Invasive Surfactant (~40%)	nCPAP Only (~60%)
Surfactant	 Proprietary Synthetic KL4 surfactant⁽¹⁾: Structurally similar to human lung surfactant 	Animal derived	■ None
Method of Delivery	 Proprietary aerosol delivery system (ADS) with nCPAP 	 Intubation usually in combination with mechanical ventilation 	Nasal prongs
The AEROSURF Difference	 Timely surfactant therapy delivered non-invasively to avoid potential complications Improves respiratory parameters Potential for decreased nCPAP failures and decreased need for invasive intubation and decreased rates of bronchopulmonary dysplasia (BPD) 	 Timely therapy, but exposure to known significant complications associated with invasive intubation 	 Avoid exposure to significant complications Foregoing surfactant treatment results in notable nCPAP failure rate and intubations



1) Liquid KL4 surfactant for RDS approved by the FDA. Lyophilized KL4 currently being developed for AEROSURF

AEROSURF® – Potential to Impact the Clinical Course of RDS

Building Evidence From Nearly 400 Patients Studied



AEROSURF® Program Evolution and Strategy

Mitigating Risks and Strengthening Our Approach

Program Evolution

- ✓ Transitioned to the newly-developed ADS
- ✓ Demonstrated efficacy in reducing nCPAP failure, need for intubation and BPD with a generally positive safety profile
- ✓ Completed three phase 2a and 2b trials



Program Strategy

- Execute small (n=~80 90) Bridging Study to transition to EOP2 / Phase 3:
 - Demonstrate that new ADS works and supplement phase 2 data
 - Optimize dosing with more drug and shorter repeat intervals
- 2 Leverage partnership with Lee's to execute in Asia (the largest market) and fund the above study in nondilutive manner
 - May allow Windtree to do more investment across adult applications (i.e. lung injury, acute cardiovascular programs)
- 3 Continue business development for potential additional partnerships and licensing ex-Asia

Financial Summary & Capitalization as of March 31, 2021

- Cash & Equivalents of ~\$38.5 million
- Bank Debt: ~\$2.4M credit facility due in March 2022

Securities	Common Equivalents as of March 31, 2021
Common Stock	26,257,065
Options (WAEP \$11.39)	3,239,728
Warrants (WAEP \$9.43)	16,628,802
Fully Diluted Equivalents	46,125,595



Strategy for Value Generation



- Strong Clinical Execution to Deliver Milestones: Execute well our late-stage clinical programs for achievement of milestones and news flow that may be growth catalysts
- **⊘** Transactions:
 - Secure focused BD transactions for deal revenue and non-dilutive financial support of clinical development
 - Progress heart failure platform to attractive and valuable position for global partnership (while retaining US co-promotion rights)
- Optimization: Bring in new, well suited development opportunities and transactions



Windtree Therapeutics



"Striving to Deliver Hope for a Lifetime!"



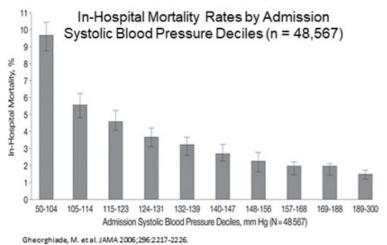
Appendix



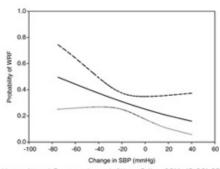
Acute Heart Failure

Significant Healthcare Issue with Significant Unmet Clinical Need

- Patients with low blood pressure (SBP) and peripheral hypoperfusion are high risk, challenging patients. These patients are also generally resistant to diuretic therapy and often discharged in a sub-optimal state
 - Low SBP in-patient mortality approximately two-fold greater than normal / high SBP¹
 - There is a direct relationship between early drop in SBP and worsening renal function in acute heart failure²

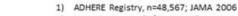


Early drop in systolic blood pressure and worsening renal function in Acute Heart Failure: renal results of Pre-RELAX-AHF Study



Voors, A. et al. European Journal of Heart Failure 2011; 13; 961-967





2) European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13

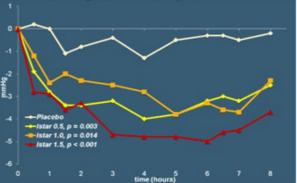


Istaroxime Phase 2a (HORIZON-HF) Study

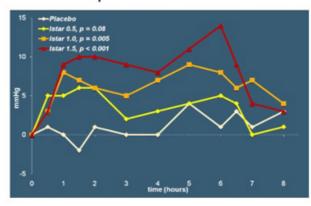
- Multicenter, double blind, placebocontrolled, doses 6-hour infusion of istaroxime 0.5, 1.0, 1.5 ug/kg/min, conducted in the EU
- Hospitalized with AHF, with criteria including:
 - LVEF ≤ 35%
 - SBP 90-150 mmHg
- N=120 (30/group)
- Significant improvement in PCWP, SBP, heart rate was lower.
 Istaroxime was generally well tolerated with no unexpected adverse events

Primary Endpoint:

PCWP Significant Improvements



Dose-dependent Increase in SBP





Istaroxime Phase 2b Adverse Events

Event	Pooled placebo (n=39)	istaroxime 0.5 mg/Kg/min (n=41)	istaroxime 1.0 mg/Kg/min (n=40)
All adverse events	23 (59.0%)	31 (75.6%)	33 (82.5%)
Adverse events leading to discontinuation	1 (2.6%)		4 (10.0%)
Serious adverse events	2 (5.1%)	2 (4.9%)	6 (15.0%)
Cardiac death	-		1 (2.5%)
Cardiogenic shock	-		1 (2.5%)*
Cardiac failure	1 (2.6%)	2 (4.9%)	3 (7.5%)
Renal embolism	-	-	1 (2.5%)
Transient ischemic attack	1 (2.6%)		-
Hyperventilation	1 (2.6%)	-	-
Hypotension	1 (2.6%)		-
Adverse Drug Reactions†	10 (25.6%)	23 (56.1%)	25 (62.5%)
Cardiovascular++	9 (23.1%)	4 (9.8%)	7 (17.5%)
Gastrointestinal‡	2 (5.1%)	4 (9.8%)	14 (35.0%)
Infusion site pain/inflammation	-	20 (48.8%)	13 (32.5%)

[‡] Most common - abdominal pain, nausea, vomiting, diarrhoea



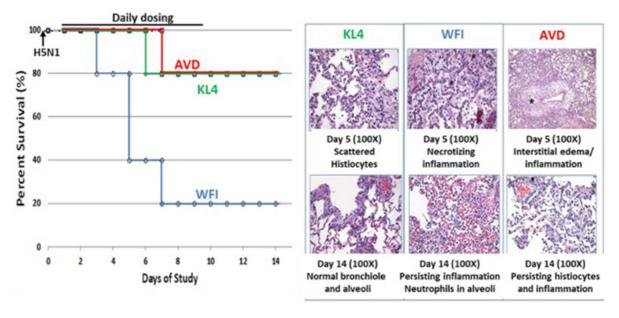
Note: data shown as n° patients (%) - patients can have more than one event during the 30-day follow up period * Same patient who then died, and 1 additional death occurred at Day 31 (cardiac death) outside the 30 day window

[†] Adverse Drug Reactions are AEs related to study drug

^{††}Most common - arrhythmia, atrial fibrillation, cardiac failure, ventricular tachycardia

KL4 Surfactant Significantly Reduced Mortality in a Pre-Clinical H5N1 Study H5N1 Study – With and Without Anti-Viral Agent

- Ferrets Infected with highly pathogenic avian (H5N1) influenza
- Results in significant viral and inflammation related lung damage that is substantially ameliorated by KL4 surfactant treatment



KL4 = aerosolize KL4 surfactant, WFI = aerosolized water (control), AVD = aerosolized KL4 surfactant + antiviral



Evidence of KL4 Surfactant Potential Utility in COVID-19

Demonstrated Utility Across Various Respiratory Distress

We have been evaluating the applicability of KL4 surfactant for multiple etiologies of lung injury as well as pandemic influenzalong before the COVID-19 pandemic

Demonstrated Utility of KL4		
Extensive Studies in Acute Lung Conditions:	 13 studies for intratracheal administration including RDS, BPD, acute hypoxemic respiratory failure and adults with ARDS 2,148 patients enrolled 1,028 treated Aerosolized KL4 surfactant studied in 366 subjects enrolled, 223 subjects treated 	
SARS and Subsequent Support for Acute Lung Injury Studies	 ~\$10M of NIH support for clinical and non-clinical programs including lung protection studies involving viral infections with H1N1 and RDS CEO testified before congressional committee regarding KL4 for the treatment of SARS 	
American Thoracic Society Presentation	 KL4 surfactant has to the potential to be employed to protect the lung and reduce mortality in patients exposed to highly pathogenic influenza as well as against pandemic strains 	

In May 2018 data from a preclinical animal model of a <u>highly</u>
<u>pathogenic H5N1 viral</u> pneumonia was presented showing aerosolized
KL4 surfactant reduced lung damage and improved overall survival



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Respiratory Distress Syndrome (RDS)

Current Treatment Pathways

Premature infants experience RDS due to underdeveloped lungs lacking endogenous surfactant.

Surfactant helps keep lungs open between breaths and proper gas exchange



Initial treatment options include invasive and noninvasive methods:



Surfactant therapy

Invasive mechanical ventilation (IMV)

- · Animal-derived surfactant
- Delivered via intubation, usually in combination with mechanical ventilation

nCPAP support until endogenous surfactant production

VS.

- Noninvasive nasal delivery of continuous positive airway pressure (nCPAP)
- · Supports breathing

TRADE-OFFS

Timely therapy delivery vs.

Exposure to known significant complications

Avoid exposure to significant complications vs.

Foregoing surfactant treatment results in notable nCPAP failure rate

Ultimately, more than 50% of RDS infants are intubated and ventilated



Source: Windtree and third-party market research

Windtree Technology Platform - AEROSURF®

Proprietary Synthetic KL4 Surfactant

+

Proprietary Innovative Aerosol Delivery System (ADS)

Structurally similar to human lung surfactant

Liquid KL4 surfactant (intratracheal instillate)
for RDS approved by the FDA

Lyophilized KL4 surfactant currently being developed for AEROSURF



Utilizing pressure and heated capillary has demonstrated ability to aerosolize KL4 surfactant

Controlled, effective and reproducible performance validated in studies



- KL4 surfactant has been shown to improve lung function in premature infants, resulting in decreased nCPAP failures and need for invasive intubation
- KL4 surfactant also has anti-inflammatory and other potentially positive attributes



Transformative Potential of AEROSURF®

Surfactant Therapy

Reversing surfactant deficiency has a profound positive impact on respiration

Surfactant therapy delivers near-immediate clinical improvement

nCPAP Respiratory Support

Avoids exposure to the risks of invasive delivery of surfactant therapy

The potential for AEROSURF

The benefits of traditional surfactant therapy without the complications associated with intubation and mechanical ventilation

Noninvasive administration eliminates or reduces the need to delay surfactant therapy

Synthetic formulation



Reduced morbidity

Lower total cost of care

BPD

Infection, ventilator-induced pneumonia

Brady cardia, hypertension, and hypoxemia

Peri-dosing events associated with bolus administration

Airway trauma Lung injury

Pain, discomfort

Long-term impacts including vocal cord damage, asthma, lung damage

Negative impacts of delayed surfactant replacement therapy (SRT)

Prolonged RDS until either endogenous surfactant production or transfer to invasive surfactant therapy

Significant rate of nCPAP failure leading to delayed surfactant therapy via intubation and mechanical yentilation



BENEFITS

RISKS

Business Development Focus

We are actively engaged in discussions with multiple companies with a proactive focus as follows:

Shortterm Cardiovascular Partner – China

Pure SERCA2a Pharma Partner – Global

AEROSURF® / KL4 Licensing ex-Asia



Heart Failure Portfolio Partner – Global Rosta Out-License - Global



Portfolio Optimization and Expansion Retained US Co-Promo Rights

