#### **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): August 5, 2021

## Windtree Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

000-26422 (Commission File Number)

94-3171943 (I.R.S. Employer **Identification No.)** 

2600 Kelly Road, Suite 100, Warrington, Pennsylvania (Address of principal executive offices)

18976

Registrant's telephone number, including area code: (215) 488-9300

Not Applicable (Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	Name of each exchange
Title of each class	Symbol(s)	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 emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company  $\Box$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

(Zip Code)

#### Item 2.02 Results of Operations and Financial Condition

On August 5, 2021, Windtree Therapeutics, Inc. (the "*Company*") issued a press release announcing its financial results for the quarter ended June 30, 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 Exhibit 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 August 5, 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

Exhibit No.	Document
99.1	Press Release of Windtree Therapeutics, Inc., dated August 5, 2021, announcing financial results for the quarter ended June 30, 2021, furnished herewith.
99.2	Investor Presentation of Windtree Therapeutics, Inc.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

#### 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 FraserName:Craig FraserTitle:President and Chief Executive Officer

Date: August 5, 2021



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

**WARRINGTON, PA** – **August 5, 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 second quarter ended June 30, 2021 and provided key business updates.

"I am pleased with the progress we have made this quarter across multiple fronts. We are on track with istaroxime, our lead clinical product candidate, as we continue to enroll patients in our phase 2 global study for the treatment of early cardiogenic shock. We are also advancing study start up activities for the next trial with istaroxime in acute heart failure that will build upon our two previous successful phase 2 trials. Our second current active clinical program is a phase 2 study of lucinactant in patients with COVID-19 associated lung injury and Acute Respiratory Distress Syndrome," said Craig Fraser, President and Chief Executive Officer of Windtree. "With data in both phase 2 trials expected later this year, we are preparing for these important potential value inflection readouts. In addition, we are actively engaging with potential partners and remain opportunistic about business development prospects. Our balance sheet is strong and leaves us well-capitalized to execute on our ongoing clinical and regulatory milestones."

#### Key Business and Financial Updates

- Progressed in the Company's lead program for istaroxime in the treatment of early cardiogenic shock due to heart failure characterized by very low blood pressure and risk for hypo-perfusion to critical organs. This study is designed to build upon the phase 2 program where data showed istaroxime to improve cardiac function and dose related increases in systolic blood pressure. The Company currently has 12 participating trial sites, with data anticipated in the fourth quarter of 2021.
- Continued advancement of clinical trial of lucinactant for the treatment of COVID-19 associated lung injury (COVID-19 ARDS, acute respiratory distress syndrome). Given the changing patterns of COVID-19 due to both vaccines and variants, the Company is expanding the study to include select sites in Argentina where case counts and the number of severe COVID-19 patients in respiratory failure are high. Data in this phase 2 study is anticipated in the fourth quarter of 2021.
- Continued to advance multiple business development activities, including exploring regional based licensing with istaroxime, specifically in Asia, to support clinical development costs and activities as well as with the SERCA2a activators globally for development in chronic heart failure.
- Through the process of engaging with potential licensees, the Company recognized that to secure an out-licensing deal for rostafuroxin, an additional small clinical study would need to be conducted. Given that rostafuroxin is outside the current focus for development and investment, the Company is seeking a partner to conduct the additional clinical trial in addition to out-licensing opportunities for this program. Consequently, the Company lowered its rostafuroxin intangible asset value as described below.
- Filed a Track One prioritized patent application with the U.S. Patent and Trademark Office for istaroxime, which was 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.



- Announced Diane Carman, Esq. as Senior Vice President and General Counsel. A veteran senior executive, Ms. Carman brings over two decades of successful experience working in the life sciences and other highly regulated industries.
- Presented at the Ladenburg Thalmann 2021 Healthcare Conference and Access to Giving Virtual Investor Conference.

#### Select Financial Results for the Second Quarter ended June 30, 2021

For the second quarter ended June 30, 2021, the Company reported an operating loss of \$45.4 million, which includes a non-cash expense of \$37.8 million on impairment of our rostafuroxin intangible asset, compared to an operating loss of \$7.9 million in the second quarter of 2020.

Research and development expenses were \$4.2 million for the second quarter of 2021, compared to \$4.5 million for the second quarter of 2020. The decrease in research and development expenses is primarily due to active pharmaceutical ingredient costs incurred in the second quarter of 2020.

General and administrative expenses for the second quarter of 2021 were \$3.4 million, compared to \$3.5 million for the second quarter of 2020.

The Company reported a net loss of \$37.4 million (\$1.42 per basic share) on 26.4 million weighted-average common shares outstanding for the quarter ended June 30, 2021, compared to a net loss of \$9.6 million (\$0.63 per basic share) on 15.1 million weighted average common shares outstanding for the comparable period in 2020.

As of June 30, 2021, the Company reported cash and cash equivalents of \$30.0 million, which is expected to be sufficient to fund operations through at least the next twelve months.

Readers are referred to, and encouraged to read in its entirety, the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2021. The Form 10-Q which includes detailed discussions about the Company's business plans and operations, financial condition and results of operations will be filed with the Securities and Exchange Commission on August 5, 2021.

#### **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, 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 that the Company may never realize the value of its intangible assets and have to incur future impairment charges; 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 <u>www.sec.gov</u>. Any forward-looking 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.

#### **Contact Information:**

Monique Kosse LifeSci Advisors 212.915.3820 or monique@lifesciadvisors.com

#### Media contact:

Andrew Mielach LifeSci Communications 646.876.5868 or amielach@lifescicomms.com



#### WINDTREE THERAPEUTICS, INC. AND SUBSIDIARIES Condensed Consolidated Balance Sheets

(in thousands, except share and per share data)

		June 30, 2021 Unaudited	Decer	nber 31, 2020
ASSETS		Ollaudited		
Current Assets:				
Cash and cash equivalents	\$	29,965	\$	16,930
Prepaid expenses and other current assets	Ψ	2,329	Ψ	1,188
Total current assets		32,294		18,118
		52,254		10,110
Property and equipment, net		834		924
Restricted cash		154		154
Operating lease right-of-use assets		2,581		917
Intangible assets		39,320		77,090
Goodwill		15,682		15,682
Total assets	\$	90,865	\$	112,885
LIABILITIES & STOCKHOLDERS' EQUITY				
Current Liabilities:				
Accounts payable	\$	288	\$	1,161
Accrued expenses		3,111		3,813
Operating lease liabilities - current portion		336		805
Loans payable - current portion		1,175		352
Total current liabilities		4,910		6,131
Operating lease liabilities - non-current portion		2,318		201
Loans payable - non-current portion		-		2,423
Restructured debt liability - contingent milestone payments		15,000		15,000
Other liabilities		3,200		2,800
Deferred tax liabilities		8,674		16,778
Total liabilities		34,102		43,333
Stockholders' Equity:				
Preferred stock, \$0.001 par value; 5,000,000 shares authorized; 0 shares issued and outstanding at June 30,				
2021 and December 31, 2020		-		-
Common stock, \$0.001 par value; 120,000,000 shares authorized at June 30, 2021 and December 31, 2020;				
26,704,480 and 16,921,506 shares issued at June 30, 2021 and December 31, 2020, respectively; 26,704,456				
and 16,921,482 shares outstanding at June 30, 2021 and December 31, 2020, respectively		27		17
Additional paid-in capital		823,828		790,277
Accumulated deficit		(764,038)		(717,688)
Treasury stock (at cost); 24 shares		(3,054)		(3,054)
Total stockholders' equity		56,763		69,552
Total liabilities & stockholders' equity	\$	90,865	\$	112,885
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#### WINDTREE THERAPEUTICS, INC. AND SUBSIDIARIES Condensed Consolidated Statements of Operations (Unaudited)

(in thousands, except per share data)

	Three Months Ended June 30,			Six Months Ended June 30,			
	2021 2020			2021		2020	
Expenses:							
Research and development	\$	4,221	\$ 4,495	\$	8,631	\$	7,956
General and administrative		3,371	3,453		8,040		6,695
Loss on impairment of intangible assets		37,770	-		37,770		-
Total operating expenses		45,362	7,948		54,441		14,651
Operating loss		(45,362)	(7,948)		(54,441)		(14,651)
Other income (expense):							
Interest income		39	5		89		94
Interest expense		(46)	(31)		(87)		(75)
Other (expense), net		(352)	(1,584)		(243)		(1,460)
Total other (expense), net		(359)	(1,610)		(241)		(1,441)
Loss before income taxes		(45,721)	(9,558)		(54,682)		(16,092)
Income tax benefit		8,332			8,332		-
Net loss	\$	(37,389)	\$ (9,558)	\$	(46,350)	\$	(16,092)
Net loss per common share							
Basic and diluted	\$	(1.42)	\$ (0.63)	\$	(2.10)	\$	(1.12)
Weighted average number of common shares outstanding							
Basic and diluted		26,350	15,091		22,047		14,394



Windtree Therapeutics Company Overview August 5, 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

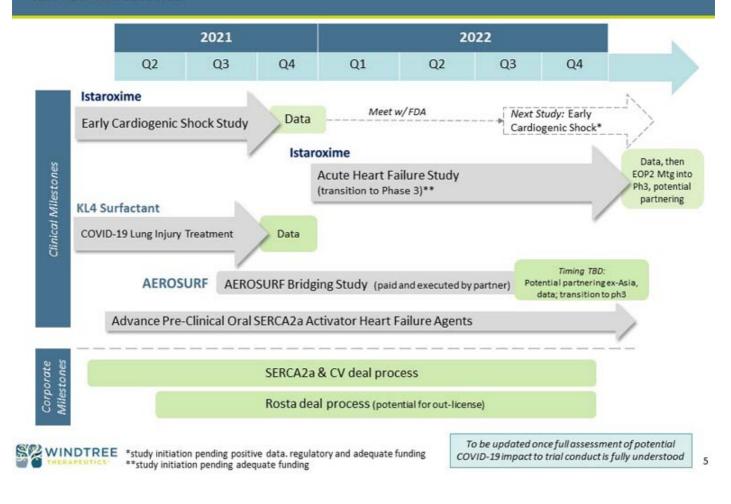
Highly experienced management team and company leadership

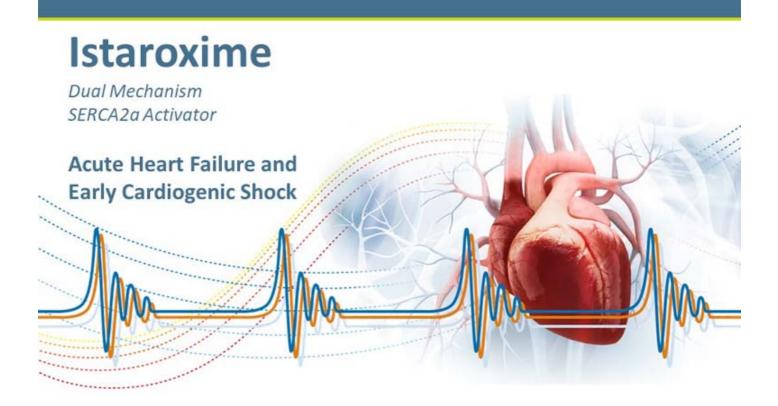


## Windtree Therapeutics Pipeline

Lead Products	Pre-	Phase I	Phase II	Phase III	Next Milestone
Istaroxime (Acute Heart Failure)			Phase 2b		<ul> <li>Study start up ongoing for second phase 2b clinical trial in ~300 patients targeted to start once clinical trial operations are fully funded</li> </ul>
Istaroxime (Early Cardiogenic Shock)			Phase 2		<ul> <li>Ongoing clinical study in ~60 patients in early cardiogenic shock; Data currently expected Q4 2021</li> </ul>
Oral SERCA2a Activators (Chronic HF; potentially HFpEF)			Preclinical		<ul> <li>Chronic and Acute Heart Failure</li> <li>Target for collaboration/partnership</li> </ul>
KL4 Surfactant – COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)			Phase 2		<ul> <li>IND Accepted; Initiated trial Q1 2021 anticipate data Q4 2021</li> </ul>
AEROSURF (KL4 surfactant Drug/Device Tx for RDS)			Phase 2b		<ul> <li>Bridge study in ~80 patients with new ADS to be funded and executed by licensee</li> </ul>
Rostafuroxin (Genetically Associated HTN)			Phase 2b		<ul> <li>Out-licensing opportunity</li> </ul>
	Istaroxime (Acute Heart Failure)         Istaroxime (Early Cardiogenic Shock)         Oral SERCA2a Activators (Chronic HF; potentially HFpEF)         KL4 Surfactant – COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)         AEROSURF (KL4 surfactant Drug/Device Tx for RDS)         Rostafuroxin	Istaroxime (Acute Heart Failure)       Istaroxime (Early Cardiogenic Shock)         Oral SERCA2a Activators (Chronic HF; potentially HFpEF)       Istaroxime         KL4 Surfactant – COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)       Istaroxime         AEROSURF (KL4 surfactant Drug/Device Tx for RDS)       Istaroxim	Istaroxime (Acute Heart Failure)       Istaroxime (Early Cardiogenic Shock)         Istaroxime (Early Cardiogenic Shock)       Istaroxime (Early Cardiogenic Shock)         Oral SERCA2a Activators (Chronic HF; potentially HFpEF)       Istaroxime (CoviD 19 Pilot; Possible invasive Tx for RDS in neonates)         AEROSURF (KL4 surfactant Drug/Device Tx for RDS)       Istaroxime (KL4 surfactant Drug/Device Tx for RDS)         Rostafuroxin       Istaroxime	Istaroxime (Acute Heart Failure)       Phase 2b         Istaroxime (Early Cardiogenic Shock)       Phase 2         Oral SERCA2a Activators (Chronic HF; potentially HFpEF)       Preclinical         KL4 Surfactant - COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)       Phase 2         AEROSURF (KL4 surfactant Drug/Device Tx for RDS)       Phase 2b         Rostafuroxin       Phase 2b	Istaroxime (Acute Heart Failure)Phase 2bIstaroxime (Early Cardiogenic Shock)Phase 2Oral SERCA2a Activators (Chronic HF; potentially HFpEF)PreclinicalKL4 Surfactant - COVID 19 (COVID 19 Pilot; Possible invasive Tx for RDS in neonates)Phase 2AEROSURF (KL4 surfactant Drug/Device Tx for RDS)Phase 2bRostafuroxinPhase 2b

### Strategy for Value Creation Planned Milestones







## 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



WINDTREE

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 who are also generally resistant to diuretic therapy and often discharged in a sub-optimal state

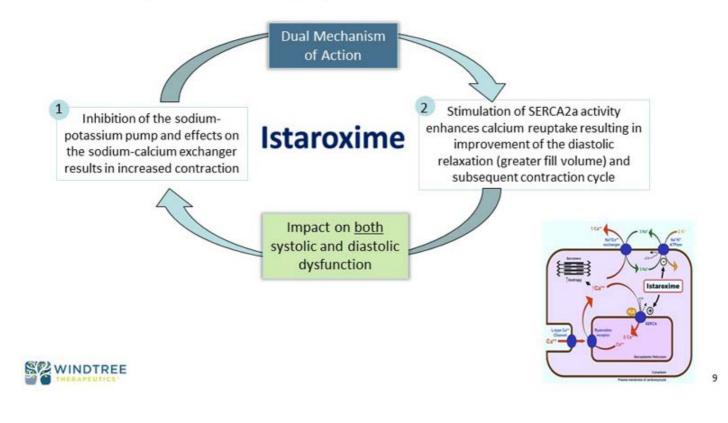
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2) European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13

ADHERE Registry, n=48,567; JAMA 2006

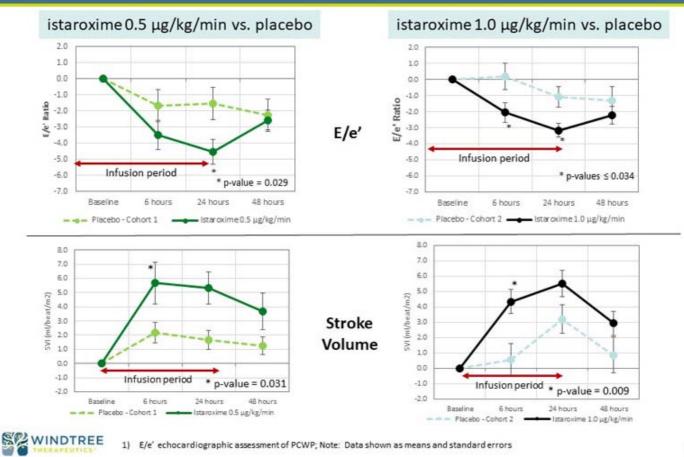
## Istaroxime – Novel First-in-Class Therapy

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

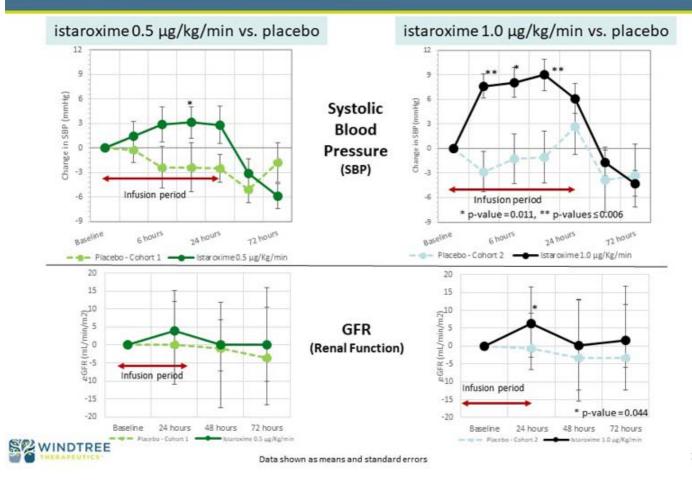


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Phase 2a	n= <b>120</b> ADHF Patients	Dosing= <b>0.5, 1, 1.5</b> µg/kg/min	<b>6</b> hour Infusion		Primary: PCWP significantly improved Stroke Vol & SBP – significant increase Heart Rate (HR) - lowered
Phase 2b	n= <b>120</b> ADHF Patients (dyspnea plus need or IV furosemide ≥ 40mg	Dosing= <b>0.5, 1.0</b> µg/kg/min	<b>24</b> hour 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
	improved card	rial results demonst diac function withou ects of existing ther	ut	:	Renal function tended to improve No evidence for increased risk of arrythmia or increases in troponin Generally well tolerated (nausea and
	DTREE			•	infusion site discomfort were most common AEs)

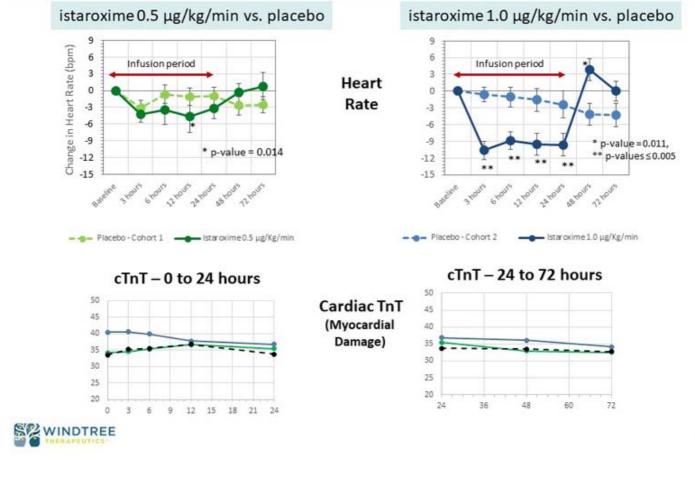
## **Primary Endpoint Achieved** Significant Changes in E/e' Ratio<sup>(1)</sup> and Stroke Volume



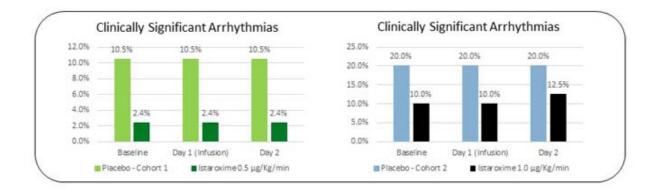
Systolic Blood Pressure Increased During Treatment and Renal Function Tended to Improve



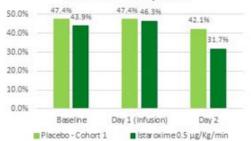
## Heart Rate Decreased and No Increases in Cardiac Troponins



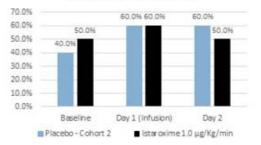
### Favorable Profile Observed with 24-hour Holter Monitoring May Have Protective Effect on Cardiac Arrhythmias







Ventricular Tachycardia

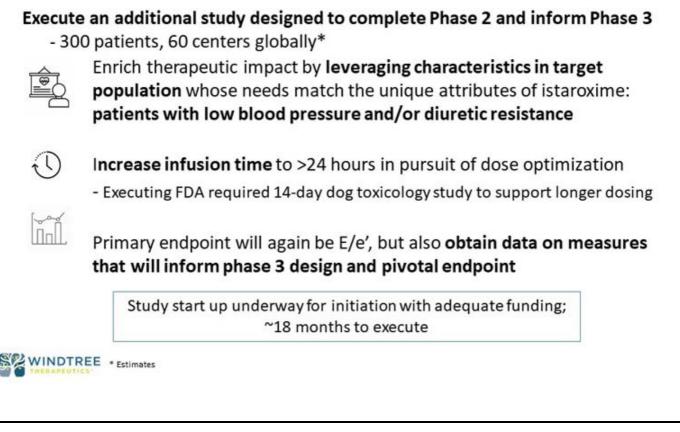


#### WINDTREE

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



## Istaroxime

## **Early Cardiogenic Shock**

Additional potential indication in active clinical development



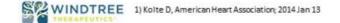


## **Cardiogenic Shock**



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

- Caused by severe impairment of cardiac function that results in diminished cardiac output, end-organ hypoperfusion and hypoxemia
- Commonly requires pharmacological or mechanical intervention to increase SBP to >90mmHg and improve tissue perfusion
- High in-hospital mortality (~30-40%) and substantial morbidity in survivors<sup>1</sup>



### Early Cardiogenic Shock Treatment Istaroxime Potential Opportunity for Accelerated Approval Pathway

#### No satisfactory pharmacological intervention to reverse the conditions

 Available therapies have unwanted side effects such as risk for arrythmias, decreasing blood pressure, renal dysfunction and even increases in mortality that limit their usefulness and position them as "rescue medicines" for severe cases

#### A therapy that can be used earlier to improve cardiac function and blood pressure without unwanted side effects is needed

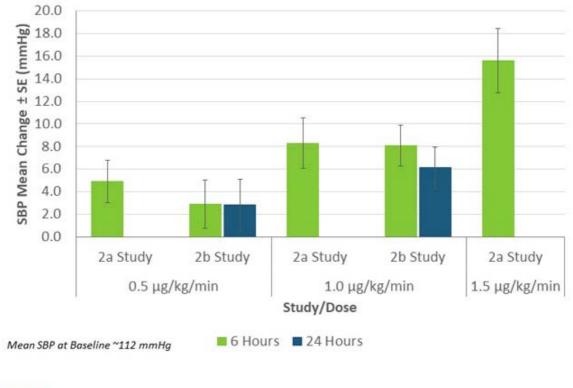
FDA Regulatory Commentary with Break-Through Therapy Designation Potential	Sponsors are potentially <b>not required to show benefit other than</b> <b>an increase in blood pressure to support approval of drugs to</b> <b>treat hypotension in the setting of shock</b> <sup>(1)</sup> (Precedent: NDA for Giapreza <sup>®</sup> (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) <sup>(2)</sup>
	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/ CSRC Think 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





#### Ongoing early cardiogenic shock study:

Clinical strategy: Start development with patients in early cardiogenic shock caused by severe heart failure



 $^{\sim}60$  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.

#### Data expected in Q4 2021

#### Clinical Objectives / "What Good Looks Like":

- Improve SBP with acceptable safety profile
  - Meaningful increase in SBP
  - Improved systolic and diastolic cardiac function without increasing heart rate, arrythmias or renal damage
- Support registration program and possible accelerated pathway



### **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

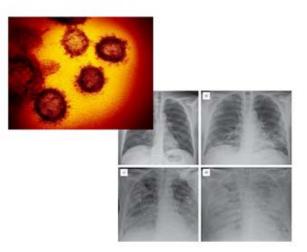
These next generation agents help form complete chronic and acute heart failure treatment portfolio for both licensing/partnership and potential commercialization



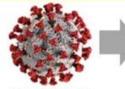
- Acute heart failure large market with significant unmet need
  - Istaroxime appears to be the only drug in phase 2 or phase 3 development for AHF treatment
- Istaroxime dual-mechanism therapy with positive phase 2a and 2b trial outcomes:
  - ✓ Improved cardiac function
  - ✓ Uniquely improved SBP and 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
   WINDTREE

Lyo Lucinactant Synthetic KL4 Surfactant

## Lung Injury in COVID-19 Patients



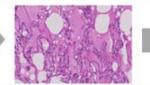
## COVID-19 and ARDS Have Significant Negative Impact on Surfactant-Related Lung Function



Uses angiotensinconverting enzyme 2 (ACE2) for entry into host cells



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

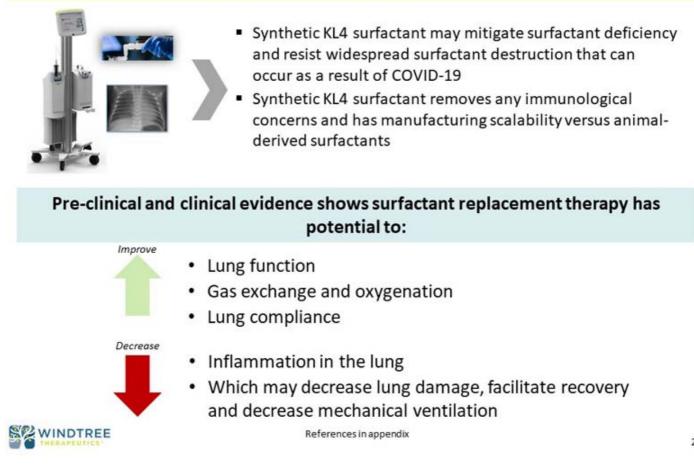
- COVID-19 infection can cause serious lung injury resulting in acute respiratory distress syndrome (ARDS) – condition with high mortality and no approved drug therapies, where surfactant abnormalities are an important factor
- Recent publications suggest that lung fibrosis and severe interstitial changes 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

AVD Survival (%) KL4 60 Percent 40 WFI 21 2 4 6 . 10 12 14 n. Days of Study KL4 + arrosolize KL4 surfactant, W i de osolized KL4 se

 Bernheim, A., X. Mei, et al. (2020). "Chest CT Findings in Coronavirus Disease-19 (COVID-19): Relationship to Duration of Infection." <u>Rediology</u>: 200463.
 Houseiny, 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 Remateorology</u>: 1-5.
 Song, F., N. Shi, et al. (0). "Emerging 2019 Novel Coronavirus (2019-nCoV) Pneumoniat0.1148/radiol.202020274." <u>Radiology</u> 0(0): 200274

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



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

#### Objective: demonstrate safe and tolerable surfactant administration and changes in physiological parameters in COVID-19-associated lung injury and ARDS

- Up to 20 patients from 4-5 US sites and up to 4 sites in Latin America
- Dosing through the endotracheal tube, target 80 mg TPL/kg; repeat dosing based on improvement in oxygenation
  - Outcome measures include:
    - Safety and tolerability of administration
    - Physiologic response: Oxygenation Index (OI)
      - Lung compliance on the ventilator

Data expected in Q4 2021 (depending on COVID-19 rates)

## If study outcomes are favorable, plan to seek non-dilutive grant funding to expand the acute lung injury program



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## 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)

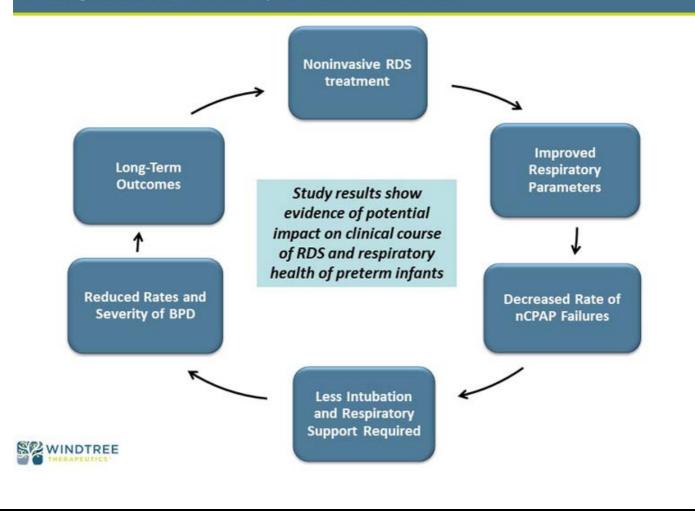
	AEROSURF	Current Treatment					
12	Non-Invasive Synthetic Surfactant	Invasive Surfactant (~40%)	nCPAP Only (~60%)				
Surfactant	<ul> <li>Proprietary Synthetic KL4 surfactant<sup>(1)</sup>:</li> <li>Structurally similar to human lung surfactant</li> </ul>	<ul> <li>Animal derived</li> </ul>	None				
Method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



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

## AEROSURF<sup>®</sup> – Potential to Impact the Clinical Course of RDS Building Evidence From Nearly 400 Patients Studied



## AEROSURF<sup>®</sup> 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

WINDTREE

#### **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

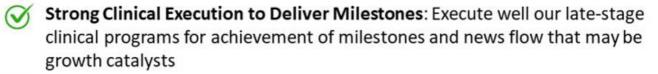
- May allow Windtree to do more investment across adult applications (i.e. lung injury, acute cardiovascular programs)
- 3 Continue business development for potential additional partnerships and licensing ex-Asia

Cash & Equivalents of ~\$30.0 million

Securities	Common Equivalents as of June 30, 2021	
Common Stock	26,704,456	
Options (WAEP \$11.30)	3,266,141	
Warrants (WAEP \$9.43)	16,628,802	
Fully Diluted Equivalents	46,599,399	







#### $\bigotimes$

#### 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!"

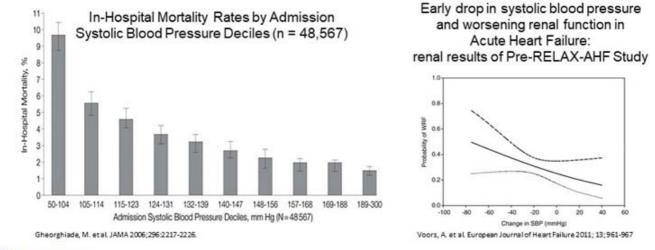
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## Appendix



## 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 SBP<sup>1</sup>
  - There is a direct relationship between early drop in SBP and worsening renal function in acute heart failure<sup>2</sup>



### WINDTREE

ADHERE Registry, n=48,567; JAMA 2006

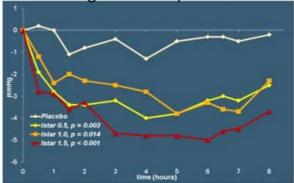
2) European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13

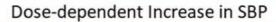
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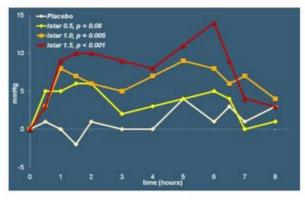
## Istaroxime Phase 2a (HORIZON-HF) Study

- 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









## **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%)	1	20
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%)

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

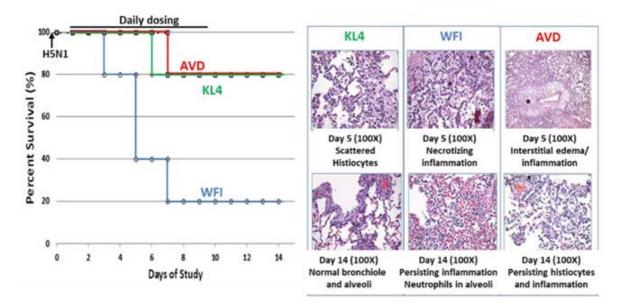
† Adverse Drug Reactions are AEs related to study drug †Most common - arrhythmia, atrial fibrillation, cardiac failure, ventricular tachycardia

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



### 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

WINDTREE

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

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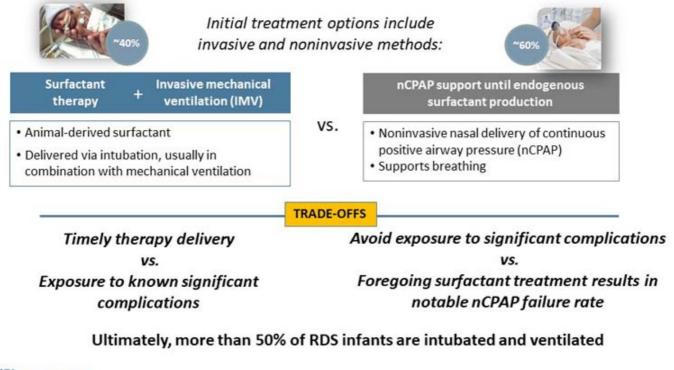


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#### Premature infants experience RDS due to underdeveloped lungs lacking endogenous surfactant. Surfactant helps keep lungs open between breaths and proper gas exchange

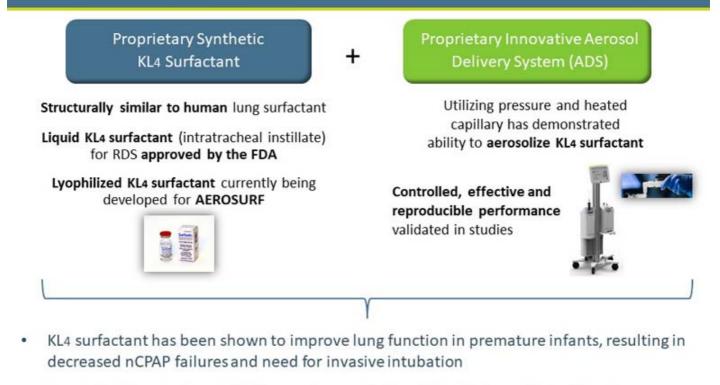




Source: Windtree and third-party market research

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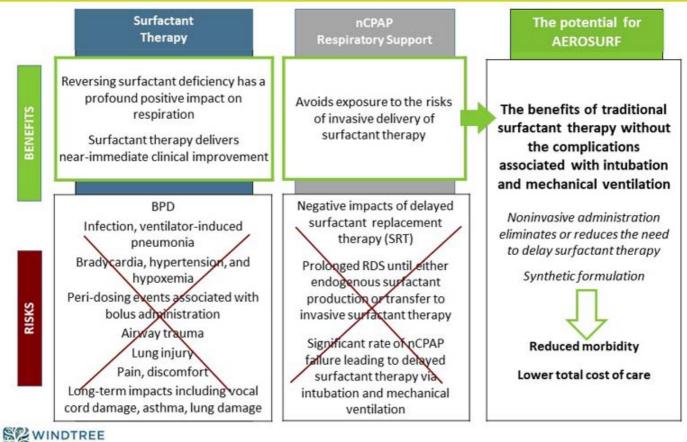
## Windtree Technology Platform – AEROSURF®



KL4 surfactant also has anti-inflammatory and other potentially positive attributes



## **Transformative Potential of AEROSURF®**



## **Business Development Focus**



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