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): September 20, 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 (Zip Code)

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.

Item 8.01 Other Events

On September 20, 2021, Windtree Therapeutics, Inc. (the "<u>Company</u>") updated information reflected in a slide presentation, which is attached as Exhibit 99.1 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	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 Fraser

Name: Craig Fraser Title: President and Chief Executive Officer

Date: September 20, 2021



Windtree Therapeutics

Company Overview September 20, 2021

(NASDAQ: WINT)



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.



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

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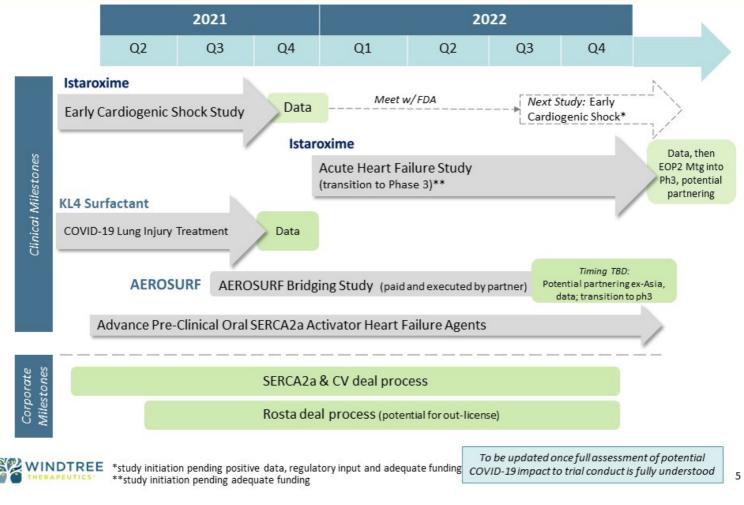
Highly experienced management team and company leadership

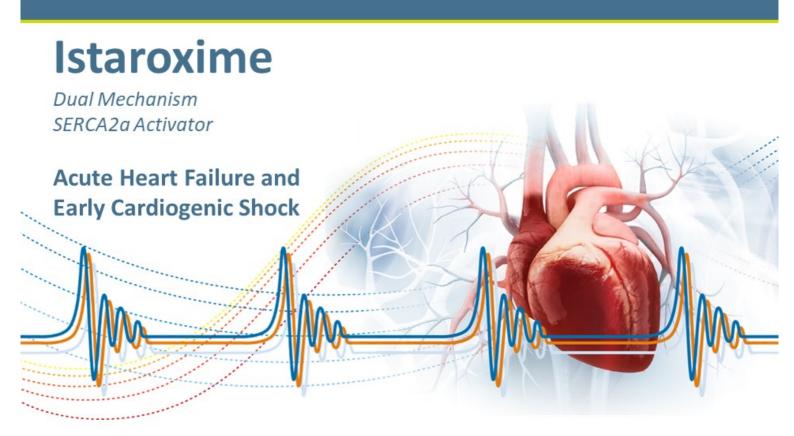


Windtree Therapeutics Pipeline

	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 patient in early cardiogenic shock; Data currently expected Q4 2021 (to be confirmed in early Q4'21)
	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 202 anticipate data Q4 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







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



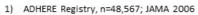


Sources: American Heart Association; DRG Data

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)



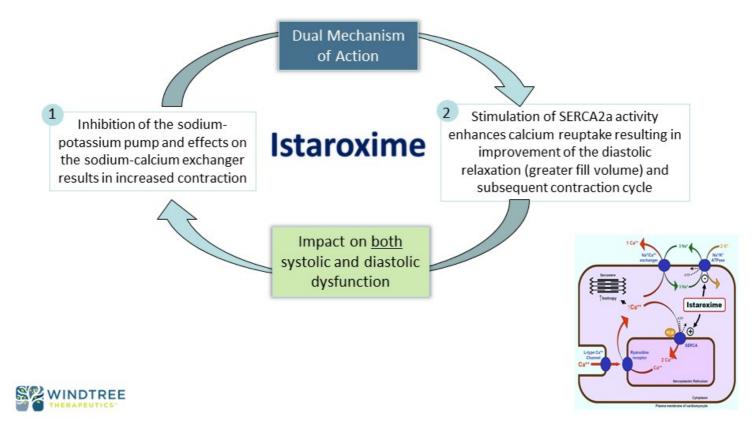
2) European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13



- 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

Istaroxime – Novel First-in-Class Therapy

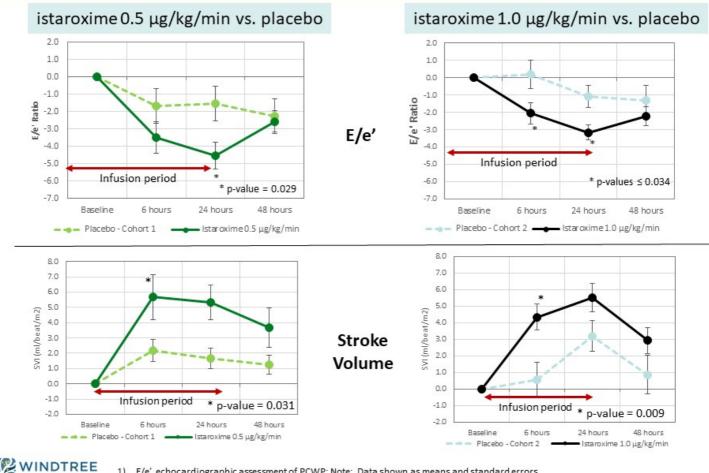
Novel intravenous agent designed to improve systolic contraction and diastolic relaxation of the heart



Istaroxime AHF Phase 2a & 2b Studies – Summary Multicenter, double blind, placebo-controlled, parallel group in 240 patients

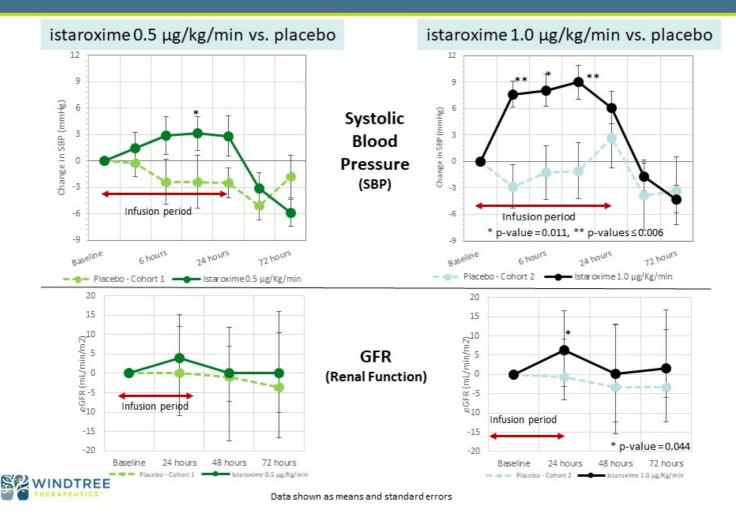
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Phase n=120 Dosing= ADHF Patients 0.5, 1, 1.5 μg/kg/m	6 hour in Infusion	 Primary: PCWP significantly improved Stroke Vol & SBP – significant increase Heart Rate (HR) - lowered
Phase n=120 Dosing= 2b ADHF Patients 0.5, 1.0 μg/kg/min (dyspnea plus need for IV furosemide ≥ 40mg) 0.5	24 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
Positive phase 2 trial results demon improved cardiac function with unwanted side effects of existing th	out	 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

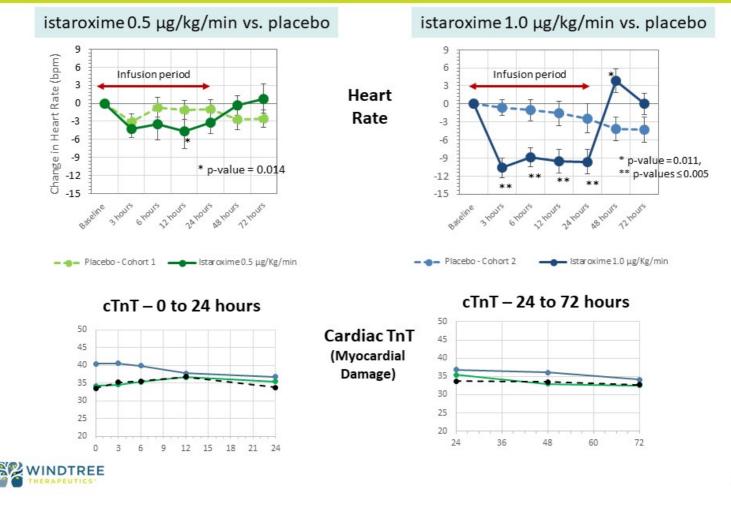


1) E/e' echocardiographic assessment of PCWP; Note: Data shown as means and standard errors

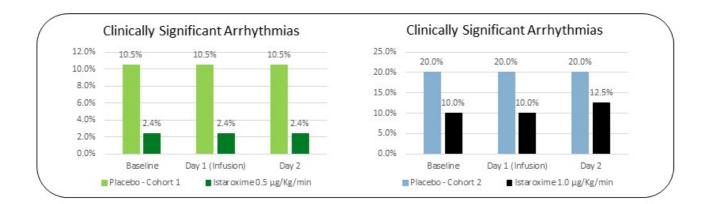
Systolic Blood Pressure Increased During Treatment and Renal Function Tended to Improve

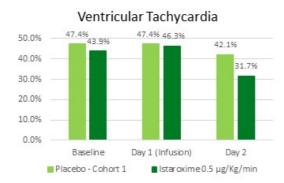


Heart Rate Decreased and No Increases in Cardiac Troponins

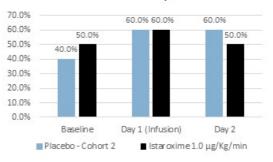


Favorable Profile Observed with 24-hour Holter Monitoring *May Have Protective Effect on Cardiac Arrhythmias*





Ventricular Tachycardia



WINDTREE

HERAPEUTICS 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, 60 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





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 survivors¹



WINDTREE 1) Kolte D, American Heart Association; 2014 Jan 13

No satisfactory pharmacological intervention to reverse the conditions

Available therapies have unwanted side effects such as risk for arrythmias, ٠ decreasing blood pressure, renal dysfunction and even increases in mortality that limit their usefulness and position them as "rescue medicines" for severe cases

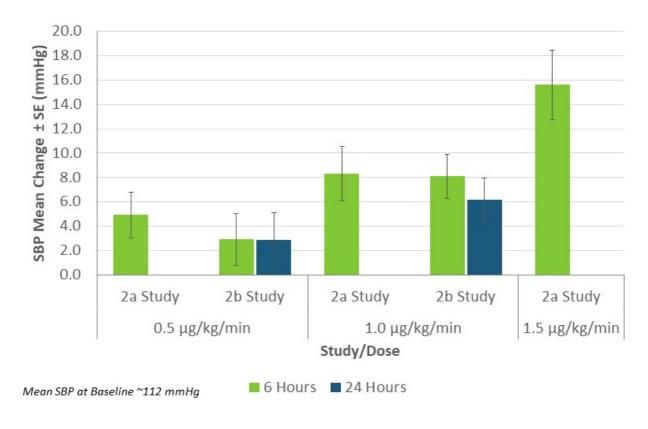
A therapy that can be used earlier to improve cardiac function and blood pressure without unwanted side effects is needed

FDA Regulatory Commentary with Break-Through Therapy Designation Potential	Sponsors are potentially 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



- 1) 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

- 1.0 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



* Timing of data to be confirmed in early Q4 '21

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

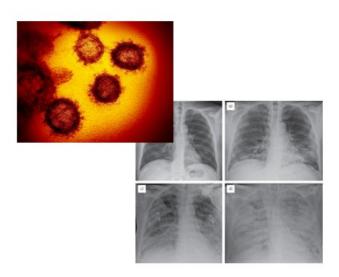
These next generation agents help form complete chronic and acute heart failure treatment portfolio for both licensing/partnership and potential commercialization



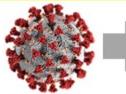
- Acute heart failure large market with significant unmet need
 - Istaroxime appears to be the only drug in phase 2 or phase 3 development for AHF treatment
- Istaroxime dual-mechanism therapy with positive phase 2a and 2b trial outcomes:
 - ✓ Improved cardiac function
 - ✓ Uniquely improved SBP and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



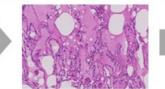
COVID-19 and ARDS Have Significant Negative Impact on Surfactant-Related Lung Function



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



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



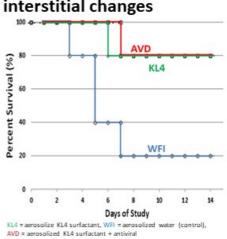
Surfactant is necessary for lungs to stay inflated and for proper gas exchange; Type 2 cell damage results in impaired surfactant production



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

 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.
 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.
 Song, F., N. Shi, et al. (0). "Emerging: 2019 Novel Coronavirus (2019-nCoV) Pneumonia10.1148/radiol.2020200274." <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



- Synthetic KL4 surfactant may mitigate surfactant deficiency and resist widespread surfactant destruction that can occur as a result of COVID-19
- Synthetic KL4 surfactant removes any immunological concerns and has manufacturing scalability versus animalderived surfactants

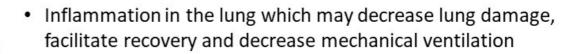
Pre-clinical and clinical evidence shows surfactant replacement therapy has potential to:



- Lung function
- Gas exchange and oxygenation
- Lung compliance



WINDTREE



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



AEROSURF

Synthetic KL4 Surfactant with Proprietary Aerosol Delivery System

Respiratory Distress Syndrome (RDS)



Respiratory Distress Syndrome (RDS) *Current Treatment Pathways*

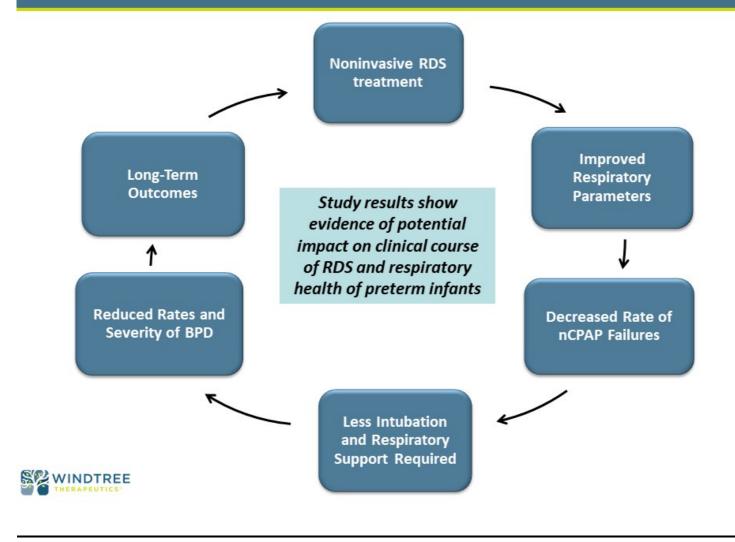
- Surfactant helps keep lungs open between breaths and gas exchange
- Premature infants experience respiratory distress syndrome ("RDS") due to lungs lacking endogenous surfactant
- Physicians must choose between invasive surfactant delivery with known, significant complications or non-invasive nasal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

	AEROSURF	Current T	reatment
10	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

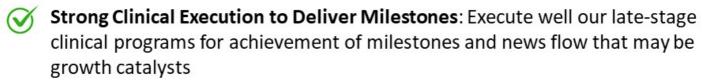
- Execute small (n=~80 90) Bridging Study to transition to EOP2/Phase 3:
 - Demonstrate that new ADS works and supplement phase 2 data
 - Optimize dosing with more drug and shorter repeat intervals
- 2 Leverage partnership with Lee's to execute in Asia (the largest market) and fund the above study in 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

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









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



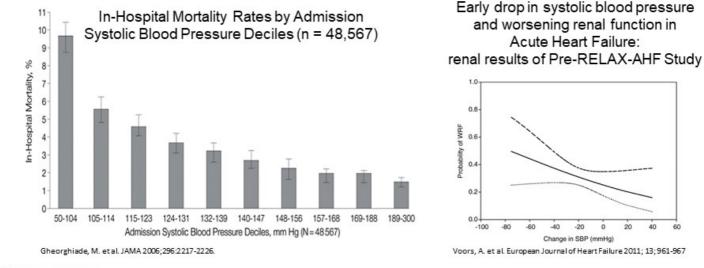
"Striving to Deliver Hope for a Lifetime!"



Appendix



- 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



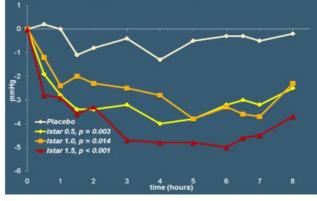


- 1) ADHERE Registry, n=48,567; JAMA 2006
- 2) European Journal of Heart Failure; Voors, PRE-RELAX AHF Study; 2011; 13

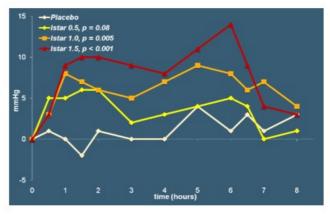
Istaroxime Phase 2a (HORIZON-HF) Study

- 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	<u>2</u>	2	1 (2.5%)*
Cardiac failure	1 (2.6%)	2 (4.9%)	3 (7.5%)
Renal embolism	2	4	1 (2.5%)
Transient ischemic attack	1 (2.6%)	-	-
Hyperventilation	1 (2.6%)	-	-
Hypotension	1 (2.6%)	2	121
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

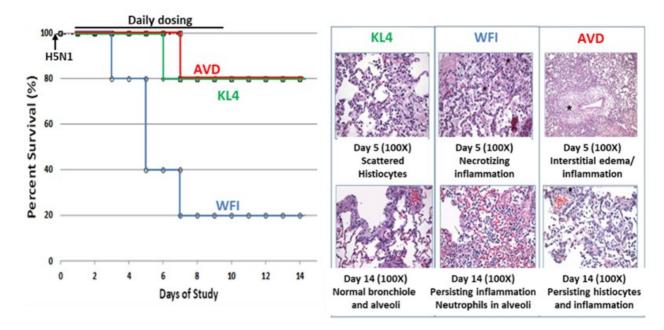
 $\label{eq:monodelta} {}^{\dagger\dagger} {\sf Most\ common-arrhythmia, atrial\ fibrillation, cardiac\ failure, ventricular\ tachycardia}$

‡ 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



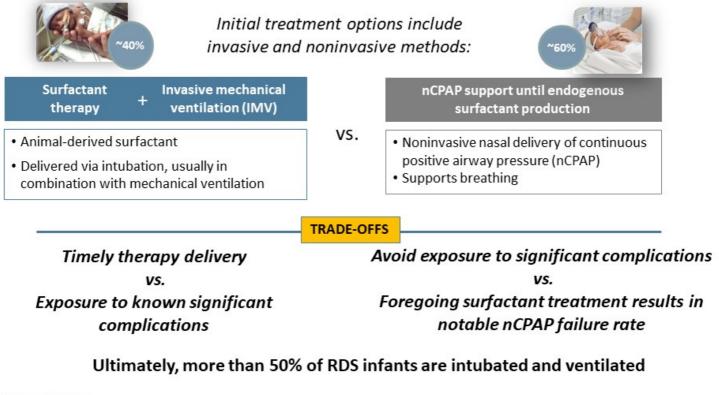
We have been evaluating the applicability of KL4 surfactant for multiple etiologies of lung injury as well as pandemic influenza long before the COVID-19 pandemic

Extensive Studies in 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



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

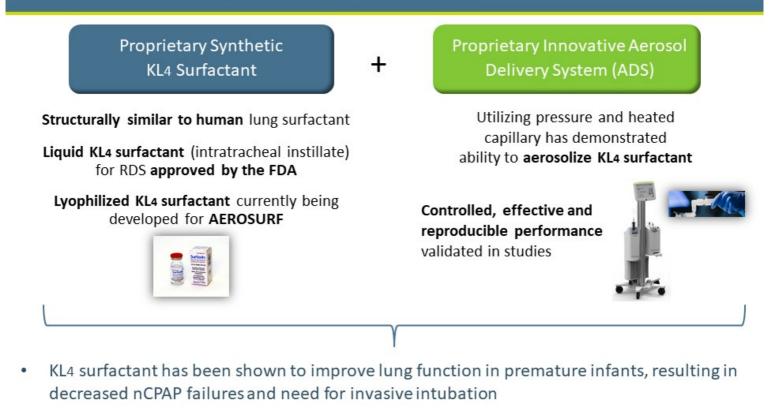




Source: Windtree and third-party market research

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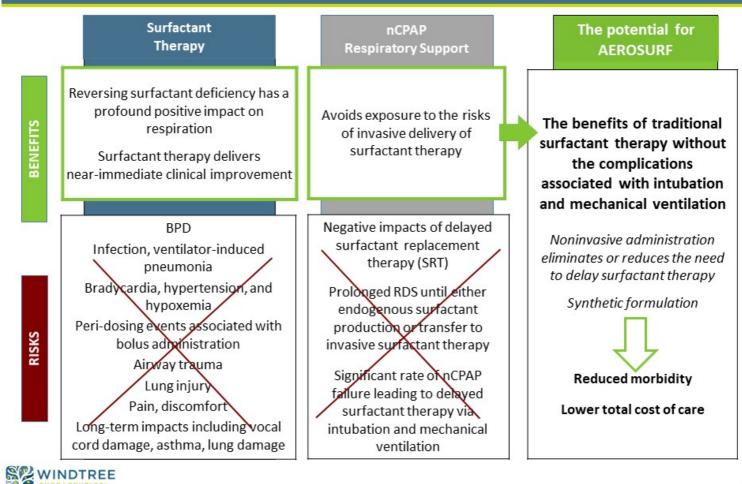
Windtree Technology Platform – AEROSURF®



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



Transformative Potential of AEROSURF®



Business Development Focus

