



Forward Looking Statement

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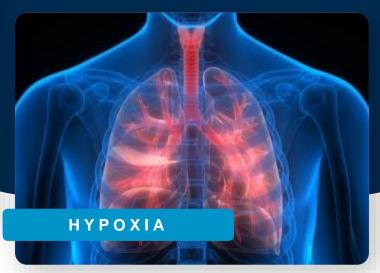
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Mission Statement

Bioxytran is a clinical stage pharmaceutical company developing platform technologies in the fields of Glycovirology, Hypoxia and Degenerative Diseases to eliminate viruses and prolong lifespan using carbohydrate drug design.









Technology Overview

ProLectin Rx - Glycovirology

Virology:

- Covid-19
- Influenza
- Other virologic diseases

Long term symptoms resulting from viral infections (long-hauler):

- ARDS
- Pulmonary Fibrosis

BXT-25 – Hypoxia & Degenerative Diseases

Ischemia:

- Stroke
- Alzheimer
- Dementia
- Traumatic Brain Injury

Anemia Wound healing

Oncology and Fibrosis

- Cancer Metastasis
- NASH
- Other Fibrotic condition

Platform Overlap

ProLectin-M is a licensed technology that targets COVID-19 mild to moderate cases

MDX-viewer is a licensed technology that uniquely allow the company to prove oxygen delivery to tissue. It will be used in clinical trials as a regulatory end-point



ProLectin Rx Glycovirology

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Lingering Effects of COVID-19

Variants are complicating the vaccination strategy



Herd Immunity

80% level has not been reached



Vaccination

Not everyone wants to get vaccinated

Not everyone has access to vaccines



New mutations

Alpha, Delta, Omicron, ?



Lower risk of death

At risk population



Minimize asymptomatic spread

not likely to spread without showing symptoms

Vaccinations Unknowns (risks)

- Duration of protection
- Effectiveness against variants
- Frequency of boosters
- Long Term consequences of Immune system

If herd immunity is unattainable Therapeutic treatments are the ONLY fall back position



ProLectin-Rx Galectin Antagonists



Versatile

Mutation agnostic therapeutic



Tested (phase I/II clinical trials)

No toxicity
Reduction of viral load to
undetectable levels



No limitation

No exclusions for age or underlying medical conditions



Efficient

Eliminate contagion

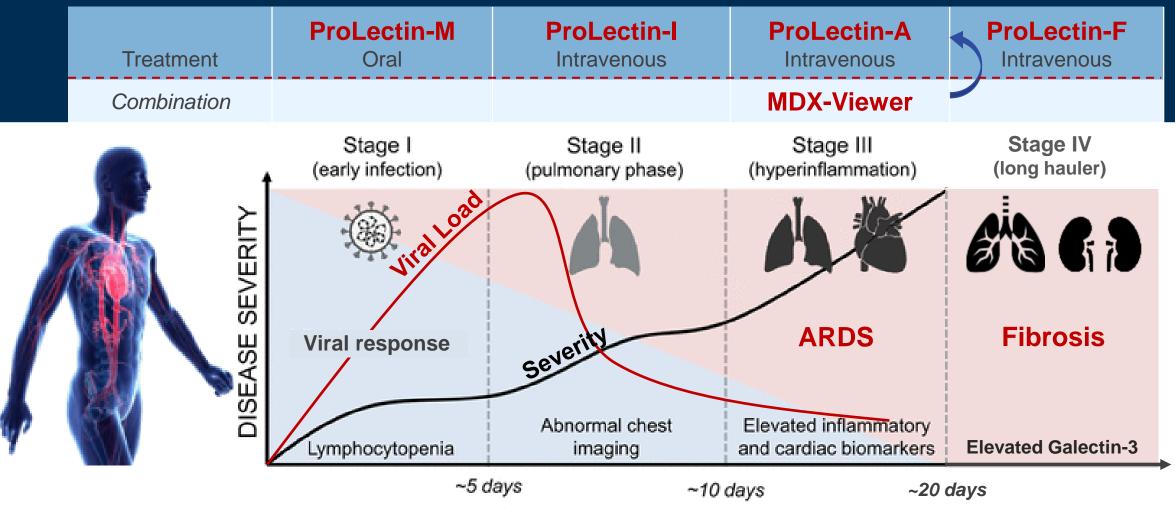
First line of defense against <u>all</u> mutations of Covid-19

STATUS:

SWIFT approval pathway - Phase 3 Ready



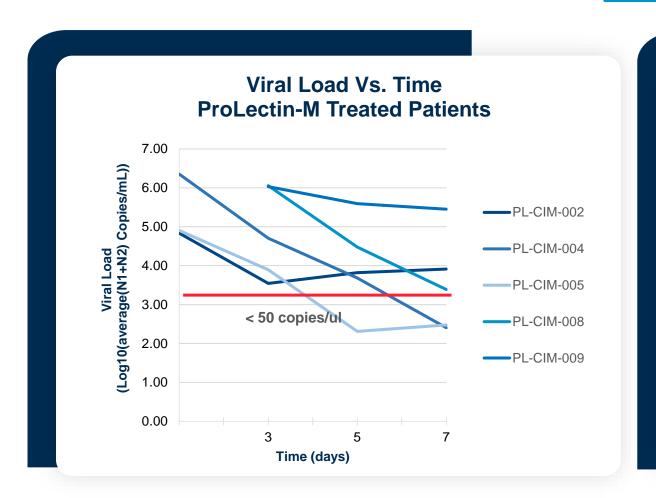
End-to-End Solution

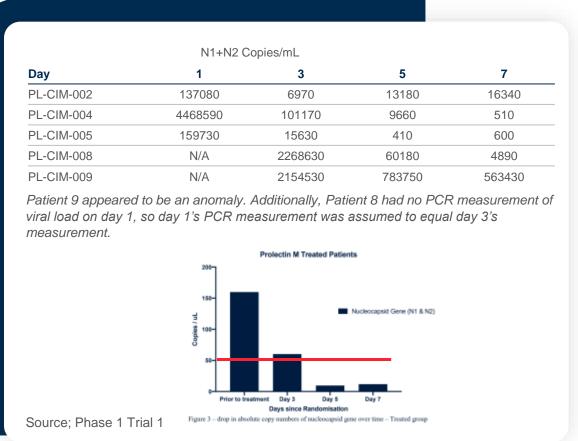


TIME COURSE (days after symptoms appear)



Patients Treated With ProLectin-M Experienced Reductions In Viral Load

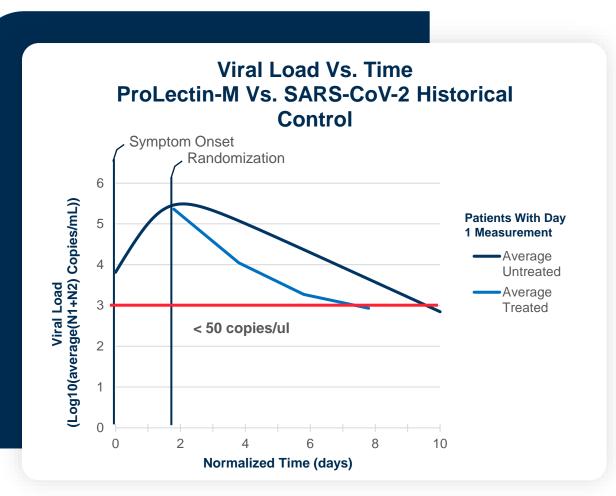




¹ Galectin Antagonist use in Mild Cases of SARS-CoV-2; Pilot Feasibility Randomised, Open Label, Controlled Trial (longdom.org)



Viral Curve Comparison



Historical control is taken from a mathematical model using longitudinal data across four different studies of symptomatic, untreated cases¹

Assumed symptom onset at a viral load of 6500 copies/mL (i.e. log10(3.81))¹

Patients treated within 2 days of symptom onset (average 1.80 days)²

Upper and lower bounds of the model are 95% confidence interval¹

¹ A quantitative model used to compare within-host SARS-CoV-2, MERS-CoV, and SARS-CoV dynamics provides insights into the pathogenesis and treatment of SARS-CoV-2 (plos.org)

² Galectin Antagonist use in Mild Cases of SARS-CoV-2; Pilot Feasibility Randomised, Open Label, Controlled Trial (longdom.org)



ProLectin-M Treatment Results in SARS-CoV-2 Spike Protein Specific Antibody Immunity



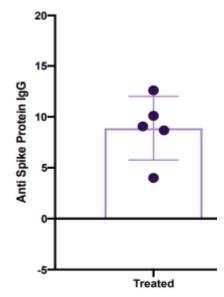


Figure 4 - difference in IgG on day 28



Introducing Post Infection Immunization

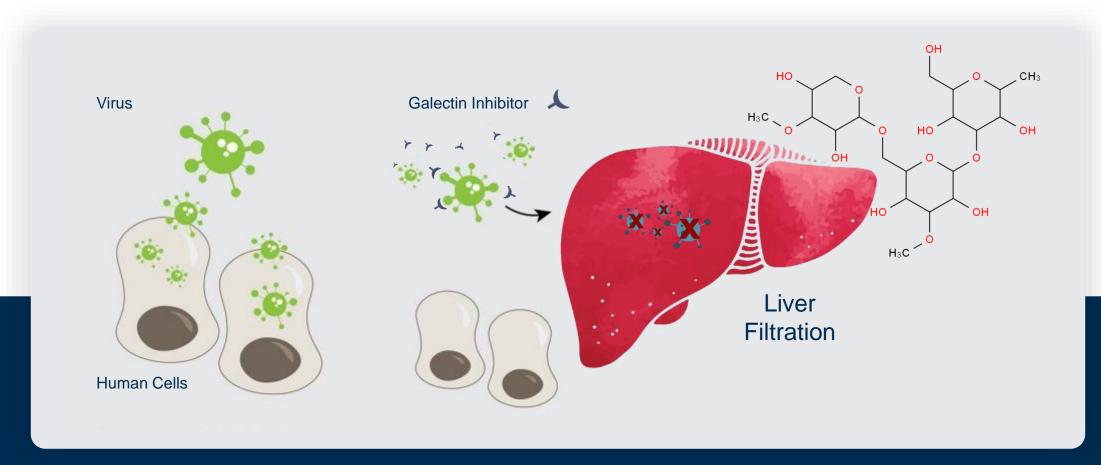
ProLectin—M clears the blood of viral load thereby reducing the strain on the Innate immune system so the Adaptive immune system can build a robust response toward future infection.

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Galectin Inhibitor Tags Virus For Elimination

Theoretical Mechanism of Action



Clinical Research

Galectin Antagonist use in Mild Cases of SARS-CoV-2: Pilot Feasibility Randomised, Open Label, Controlled Trial

Alben Sigamani*, Mathu Ruthra, Sudhishma, Samarth Shetty, Madhavi, Anup Chugani, Hana Chen-Walden, David Platt and Thomas Kutty

Importance: Novel SARS-CoV-2 virus has infected nearly 100 million people across the world and is highly contagious. There is a need for a novel mechanism to block viral entry and stop its replication.

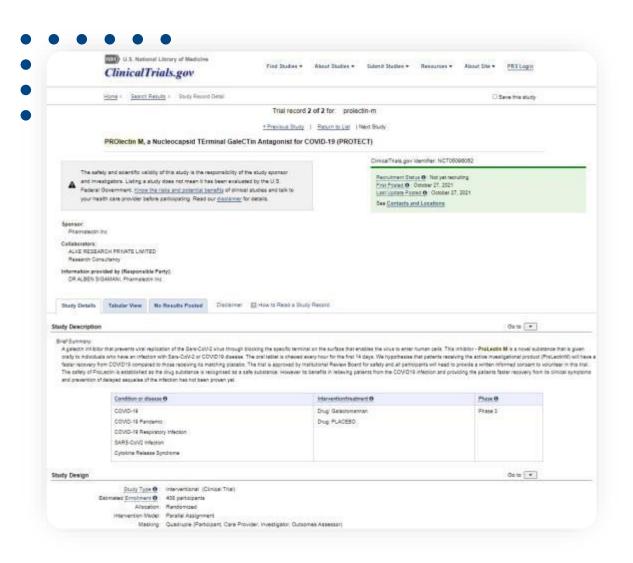
Background: Spike protein N Terminal Domain (NTD) of the novel SARS-CoV-2 is essential for viral entry and replication in human cell. Thus the S1 NTD of human coronavirus family, which is similar to a galectin binding site-human galactose binding lectins, is a potential novel target for early treatment in COVID-19.

Objectives: To study the feasibility of performing a definitive trial of using galectin antagonist–Prolectin-M as treatment for mild, symptomatic, rRT-PCR positive, COVID-19.

Main outcomes and measures: Cycle threshold (Ct) value is number of cycles needed to express fluorescence, on real time reverse transcriptase polymerase chain reaction. Ct values expressed for RNA polymerase (Rd/RP) gene+Nucleocapsid gene and the small envelope (E) genes determine infectivity of the individual. A digital droplet PCR based estimation of the Nucleocapid genes (N1+N2) in absolute copies/µL determines active viral replication.



Proposed Phase 3 Clinical Trial Design





Phase 3 Clinical Trial

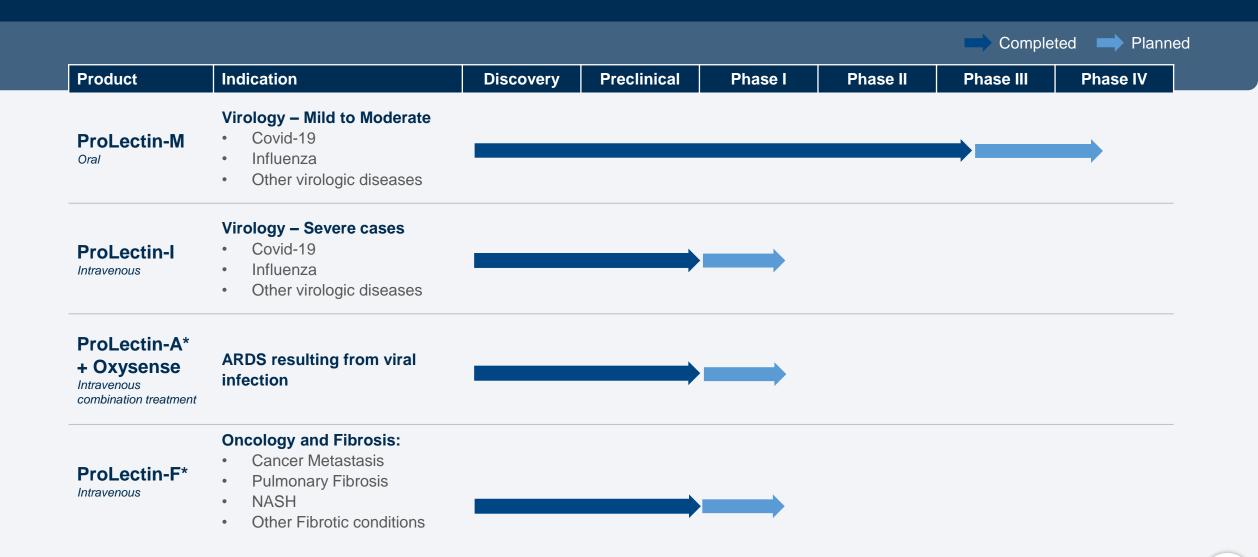
- 408 participants
- Double Blind Randomized Controlled Trial (DBRCT)
- Change in seropositivity at day 14
- Broad inclusion criteria (Vaccination status irrelevant)

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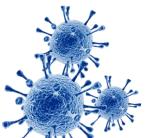


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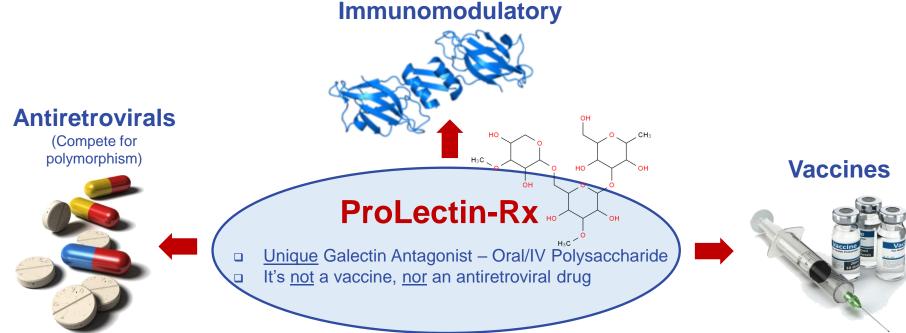
Glycovirology Development Pipeline

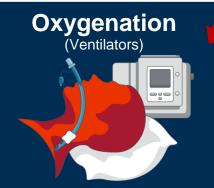






Therapeutic Approaches for COVID-19





Regenerative Medicine
(Stemcells)

Competitive Landscape Oral COVID-19 Therapeutics

| Drug | Company | Description | Gov. Award | Clinical stage |
|--------------|---------------|--|---------------|----------------|
| Molnupiravir | Merck | Mutagenesis via RdRp – forced mutations induced apoptosis | \$2.2 billion | EUA |
| Paxlovid | Pfizer | 3CL protease inhibitor – Antiviral & Immune sensitization; Ritonovir – inhibitor enhancer | \$5.3 billion | EUA |
| Tollovir | Todos Medical | 3CL protease inhibitor – Antiviral & Anti-Cytokine activity | n/a | Phase 2/3 |
| Tempol | Adamis | RNA-dependent RNA Polymerase (RdRp) via antioxidant & Anti-Cytokine activity | n/a | Phase 2/3 |
| ProLectin-M | Bioxytran | Galectin antagonist – Entry Inhibitor | n/a | Phase 3 |



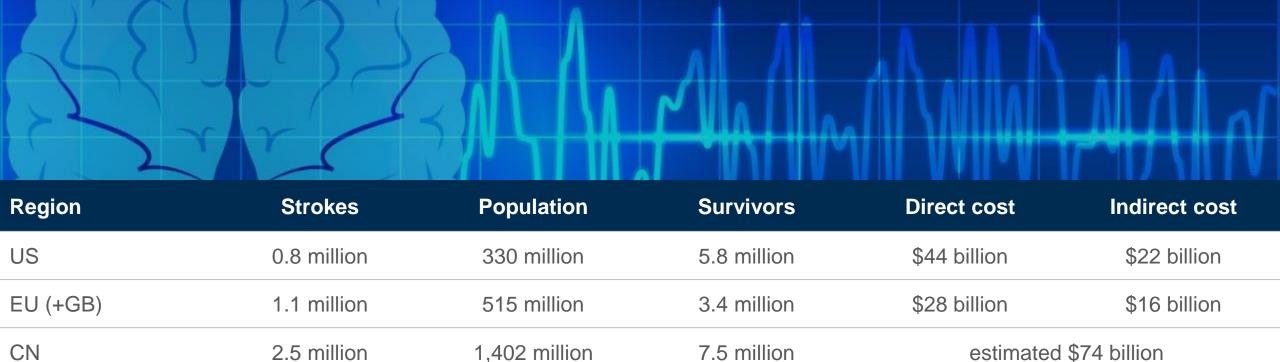
BXT-25 — Hypoxia & Degenerative Diseases



The Brain Stroke Epidemic

A Challenge to Worldwide Healthcare, a \$500 Billion Medical Indication Costs





33.0 million

Global, regional, and national burden of stroke and its risk factors, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019 The Lancet Neurology, Vol 20, Issue 10, October 01, 2021 Copyright © **Bioxytran** 2022. All rights.

7,700 million

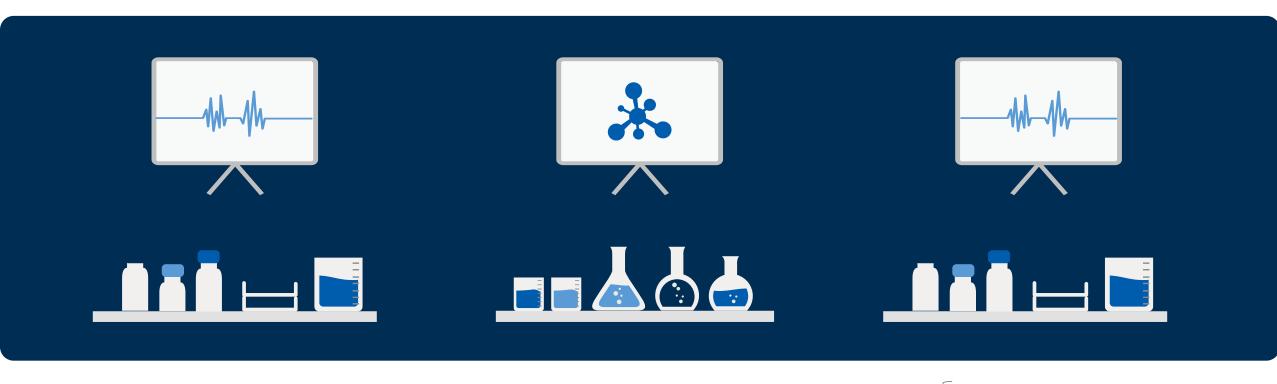
12.2 million

World (total)

estimated \$500 billion



The Golden Hour Dilemma









Ambulance arrives at home



Arrival and initial assessment and treatment in ER



Thombolysis or PTCA/CABG



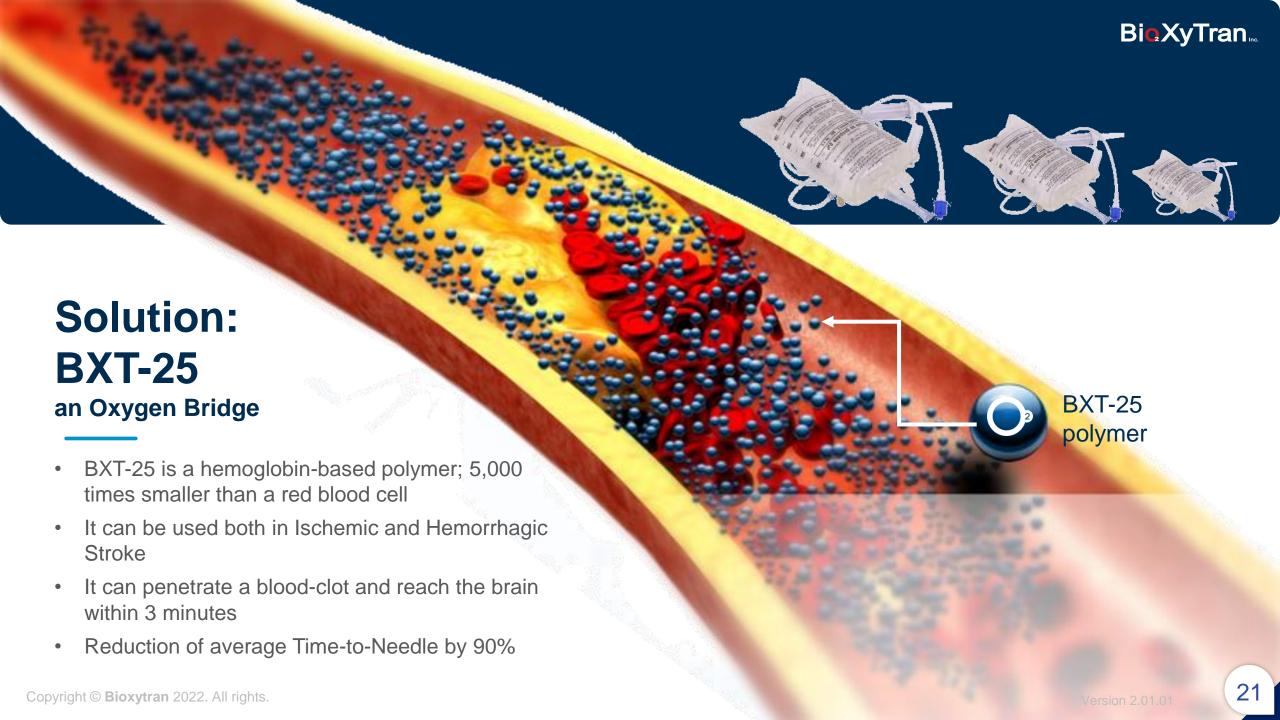
Blockage Removed

Time to Needle

2.5 hours

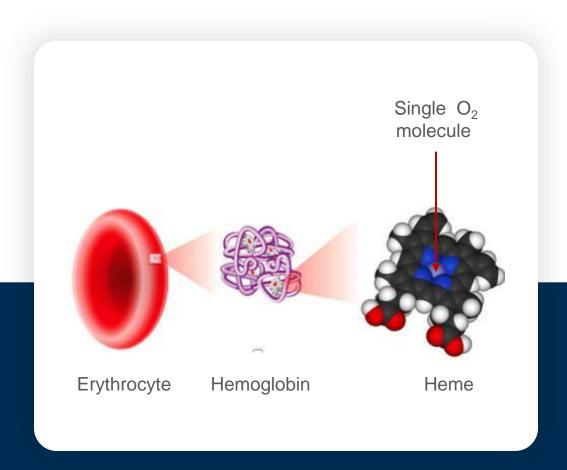
Equivalent to 9 Years of Aging*

^{*} Time Is Brain—Quantified, Jeffrey L. Saver, Stroke. 2006;37:263–266 Copyright © **Bioxytran** 2022. All rights.





How It Works? BXT-25 – Stabilized Oxygen-carrying Protein



- Delivered as an IV solution
- Universally compatible with all blood types
- Non-immunogenic
- Low viscosity
- Stable at room temperature
- 3-year shelf-life in liquid formulation
- Extended shelf-life in dry formulation



BXT-25 is mixed with a

saline solution, to be IV-

infused by an ER team

Extract Heme and

reattach to a polymer

Proprietary Manufacturing Process of BXT-25



Purify and

crosslink

Key Assays for BXT-25 chemical and structural specifications are: Electron spray Ionization, Amino Acid Analysis, Gel Electrophoresis, Circular Dichroism, Reverse phase HPLC and Immunoblotting

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Collect controlled

source Red blood cells

Extract Hemoglobin

Protein

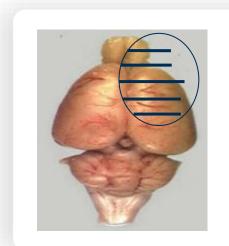


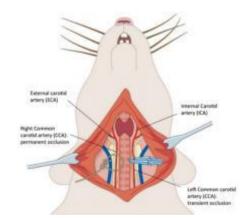
Proof of Concept of BXT-25 in Animals

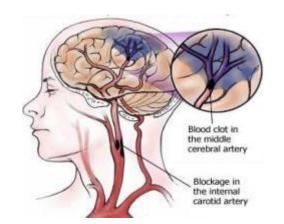
Absence of nitric oxide scavenging, no increased blood pressure in diabetic mice (Harvard Medical School, 2013)

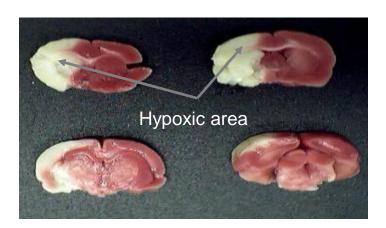
No toxicity from replacing 90% of the blood in dogs with similar chemistry to BXT-25: (QTest Labs, Columbus OH, 2014) Oxygen delivery and brain recovery in stroke induced rats with similar chemistry to BXT-25 (Harvard Medical School, 2013)

Middle Cerebral Artery Blockage Model in Rats









https://www.hindawi.com/journals/ccrp/2014/864237/



Limited Effective Treatment Options



Our competition is tPA and similar drugs, aiming to dissolve, or remove, a clot. These are timeconsuming and require an MRI since blood-thinners are fatal in hemorrhagic strokes.

THERE ARE NO DRUGS AVAILABLE TO **DELIVER OXYGEN TO** THE BRAIN

| Drug | Company | Description |
|-------------|---------------------------------|---|
| rtPA | Genentech, Johnson & Johnson | Thrombolytic agent used to break apart blood clot that causes ischemic stroke |
| Abciximab | Eli Lilly /Centrocor | Platelet aggregation inhibitor |
| Cerovive | AstraZeneca | Nitrone based neuro protectant |
| Candesartan | AstraZeneca | Angiotensin receptor blocker (ARB) |
| Ancrod | Knoll Pharmaceuticals | Anticoagulant that acts by breaking down fibrinogen |

BXT-25 is designed to support the oxygenation of the brain until the clot is dissolved by medication or removed by surgery

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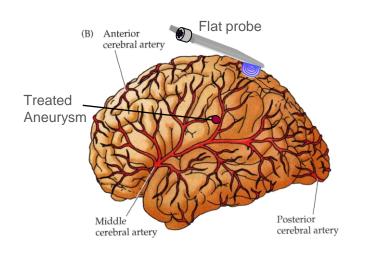
How Do We Measure Tissue Oxygen Level?

Version 2.01.01 26

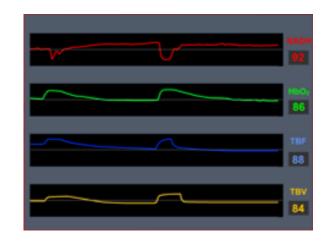


FDA Approved Companion Diagnostics

OXYSENSE - A clinical end-point for measuring oxygen delivery to the brain in real-time



Tissue/brain monitored parameters



Mitochondrial NADH (ATP)

Hb Saturation (O₂)

Cerebral Blood Flow

Tissue Reflectance

Brain metabolic score

Tissue metabolic score



Measures real time tissue oxygenation levels



Assists in determining organ viability



Degenerative Disease/Hypoxia Development Pipeline





Business Development & Strategy



Clinical Trial Strategy

| | | 2021 | | | 2022 | | | |
|-------------------|------------|------------|-------|-----------------|------------|----------------|----------|------------|
| Product | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| ProLectin-M | Pre-clinic | cal Develo | pment | hase I/II | Phase II | | | |
| ProLectin-I | | | Pro | e-clinical Deve | elopment | Phase I/II | Phase II | |
| ProLectin-F | | | Pro | e-clinical Deve | elopment | Phase I/I | | Phase III |
| ProLectin-A / BXT | 25 | | | | Dro olinia | cal Developmen | 4 | Phase I/II |



Business Strategy





- One issued US patent (US6245316B1)
- Two international patents pending approval
- Additional applications to strengthen our IP position are ongoing



Business Development Strategy

- Collaboration agreement with qualified partner's
- Out-license agreements with Big Pharma



Big Pharma Licensing Targets

THERAPEUTIC AREAS

Virology Neuroscience Oncology Cardiovascular

Immunology Hematology Respiratory Stroke **Inflammation**

IDEAL PLATFORM DRUG FOR MANY BIG PHARMAS

- Johnson & Johnson Oncology, Neuroscience, Immunology, Cardiovascular, Vaccines, HIV
- Roche Holdings Oncology, Neuroscience, Immunology, Hematology, Ophthalmology
- Pfizer Oncology, Neuroscience, Cardiovascular, Diabetes
- Novartis Oncology, Neuroscience, Immunology, Cardiovascular, Respiratory, Ophthalmology
- Merck Oncology, Neuroscience, Immunology, Cardiovascular, Respiratory, Diabetes, Vaccines
- Sanofi Aventis Oncology, Neuroscience, Immunology, Inflammation, Diabetes, Vaccines
- AbbVie Oncology, Neuroscience, Immunology, Virology
- GlaxoSmithKline Oncology, Immunology, Respiratory, HIV, Vaccines
- Eli Lilly Oncology, Neuroscience, Immunology, Diabetes, Pain
- Gilead Oncology, Respiratory, Hematology, Inflammation, HIV
- Bristol Meyers Squibb Oncology, Immunology, Cardiovascular, Hematology, Inflammation
- Allergan Neuroscience, Ophthalmology, Gastroenterology
- AstraZeneca Oncology, Cardiovascular, Respiratory
- Biogen Oncology, Neuroscience, Inflammation, Stroke, Pain
- Amgen Oncology, Cardiovascular, Hematology, Inflammation

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Use of Proceeds

| Current Round – S-1 | ProLectin-M | ProLectin-I | ProLectin-F | ProLectin-Rx* |
|--|-------------|-------------|-------------|---------------|
| Estimated Project Cost in thousands USD* | \$ 2,700 | \$ 1,650 | \$ 1,000 | \$ 5,350 |
| Development & GLP | - | - | - | - |
| Pre-Clinical | 100 | 150 | 150 | 400 |
| IND Submission | 150 | 200 | 200 | 550 |
| Clinical Trials | 2,000 | 1,000 | 500 | 3,500 |
| G&A | 450 | 300 | 150 | 900 |
| End Point | Phase III | Phase II/a | Phase II/a | Total |

^{* \$2.6} million have previously been spent on proof-of-concept and GMP manufacturing of ProLectin-M, -I, and -F

| Future Round | ProLectin-A | BXT-25 | Total Upcoming* |
|--|-------------|------------|-----------------|
| Estimated Project Cost in thousands USD* | \$ 10,000 | \$ 10,000 | \$ 20,000 |
| Development & GLP | 3,150 | 3,150 | 6,300 |
| Pre-Clinical | 1,200 | 1,200 | 2,400 |
| IND Submission | 300 | 300 | 600 |
| Clinical Trials | 4,000 | 4,000 | 8,000 |
| G&A | 1,350 | 1,350 | 2,700 |
| End Point | Phase II/a | Phase II/a | Total |

The Team

Management

David Platt PhD, CEO, CSO, Chairman

Carbohydrate chemistry expert, founded four publicly traded companies, raised \$150m in public markets, created \$1B in shareholder value, and led development of two drugs.

Ola Soderquist CPA, MSA, MBA, CFO

>30 years multi-industry financial experience.

Mike Sheikh, EVP BD

>10 years of business development in life sciences. Broker and Research Analyst.

Veronika Tyukova MBA, PM Dir

>15 years of PM in Hi-Tech, Manufacturing and Commercialization.

Board of Directors

Anders Utter MBA, Director

Audit Committee Chair, >25 years of managerial finance and accounting in medical devices and manufacturing.

Dale Conaway DVM, Director

Veterinary Medical Officer, Federal Research.

Alan Hoberman PhD, Director

Executive Director of Site Operations and Toxicology at Charles River Laboratories.

Hana Chen-Walden MD, Director

>30 years experience in pharmaceutical regulatory affairs in US and Europe.

Advisory Board

Avraham Mayevsky PhD, Professor Emeritus

Worldwide authority in the field of minimal invasive monitoring of tissue and organ physiology; and professor at the Faculty of Life Sciences, Bar-Ilan University, Israel.

Alben Sigamani, MD

Professor and Head of Clinical Research Narayan Health, Bangalore. >17 years of experience in clinical research

Thomaskutty Alumparambil, C.C.P

> 30 years of clinical experience that includes heart, lung, and liver transplants.

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