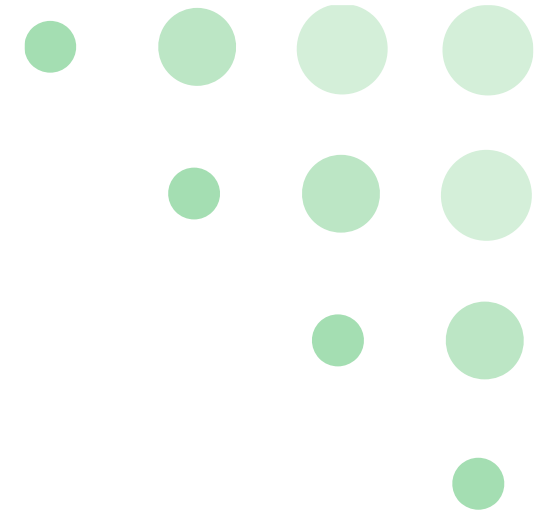


# H.C. Wainwright Global Investor Conference

**Jon Stonehouse**  
**Chief Executive Officer**

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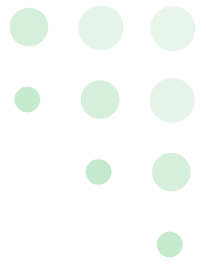
September 14, 2020



# Forward-Looking Statements

BioCryst's presentation may contain forward-looking statements, including statements regarding future results, unaudited and forward-looking financial information and company performance or achievements. These statements are subject to known and unknown risks and uncertainties which may cause our actual results, performance or achievements to be materially different from any future results or performances expressed or implied in this presentation. You should not place undue reliance on the forward-looking statements. For additional information, including important risk factors, please refer to BioCryst's documents filed with the SEC and located at <http://investor.shareholder.com/biocryst/sec.cfm>

# Six Major Program Updates Expected in Next 100 Days



Q3 2020

Q4 2020

PDUFA

Dec. 3, 2020

2021

**Data** update from BCX9930 200/400mg treatment-naïve PNH dose-ranging study (Q3 2020)

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Phase 1 **data** from BCX9250 trial in FOP (Year-end 2020)

100 Days

# Coming Soon: Orladeyo™

**Orladeyo™**  
(berotralstat) 150 mg capsule



# Ready for Successful Commercial Launch



- ◆ Sales force hired + trained
  - Average 20 years of experience, including 8 in rare disease
  - Top performers
- ◆ Medical Affairs team deployed and engaging with the KOL community
- ◆ Patient access/support systems in place
- ◆ Robust dual-source supply chain to support commercial launch

# COVID-19 Antiviral Status Update: Galidesivir (BCX4430)

## ***New \$47M of NIAID Contract Awards to Support:***

- Completion of Parts 1 & 2 of ongoing clinical trial of galidesivir in Brazil
- Conducting a phase 2 trial of galidesivir in non-hospitalized COVID-19 patients at high risk for developing severe disease and complications
- Conducting a clinical pharmacology trial of galidesivir to determine appropriate dosing in patients with renal impairment
- Increasing the supply of galidesivir

- Part 1 of trial in Brazil has advanced to final cohort
- Data from Part 1 + decision on dose for Part 2 expected in Q4 2020

- Galidesivir has shown activity against >20 RNA viruses in 9 different families, including coronaviruses<sup>1</sup>
- Animal and *in vitro* studies against SARS-CoV-2 ongoing

**\$ 129 M of program support to date:**



National Institute  
of Allergy and  
Infectious Diseases



# Goal for BCX9930: Oral Factor D Inhibitor as Monotherapy for Multiple Complement-mediated Diseases

## Factor D is an ideal target:

Required for the alternative pathway (AP) to work

Target is the same in PNH, nephritis, and other AP diseases

Circulating Factor D levels are the lowest of any complement pathway enzyme

Levels do not increase with inflammatory illnesses

Unique enzyme structure enables design of inhibitors with better specificity against other serine proteases

## Application to BCX9930 Development:

Doses of BCX9930 that block Factor D will inhibit the AP independent of the disease setting

Proof of concept in PNH provides POC for other diseases of the alternative pathway

Less drug required for inhibition compared to other complement targets

No dose adjustment when patients get illnesses like influenza

Can lead to a better safety margin

# Significant Unmet Need in PNH Due to Uncontrolled Hemolysis



***Anemia and PNH Symptoms Persist in Many Patients Despite C5 Inhibitor Treatment***

C5 Inhibitor	Hb not Stabilized	Fatigue	Hemoglobinuria	Dyspnea
Ravulizumab	32%	29%	10%	14%
Eculizumab	35%	30%	9%	14%

J. W. Lee *et al.*, *Blood* **133**, 530-539 (2019)

***Extravascular Hemolysis Develops in Most PNH Patients with C5 Inhibitor Treatment***

- *All patients treated with eculizumab had opsonized RBCs* *C3+ RBC: 41/41 (100%)*
- *Most patients had persistent hemolysis*

A. M. Risitano *et al.*, *Blood* **113**, 4094-4100 (2009)

- ***Effective Alternative Pathway complement inhibition with BCX9930 will control both intravascular and extravascular hemolysis regardless of bone marrow function\****

\*56% of >4,000 patients in the PNH registry had aplastic anemia with PNH, with impaired bone marrow function

H. Schrezenmeier *et al.*, *Ann Hematol* **99**, 1505-1514 (2020)



# Factor D Inhibition in PNH Offers the Advantage of Controlling Both Intravascular (IVH) and Extravascular (EVH) Hemolysis

## Goal of Total Hemolytic Control

IVH Control

↓ LDH

+

EVH Control

↓ Opsonized RBCs

## Patient Outcomes from Controlled Hemolysis over Time

Relieve Anemia

↑ Hemoglobin

Reduce PNH Clinical Symptoms

↓ Appearance of symptoms

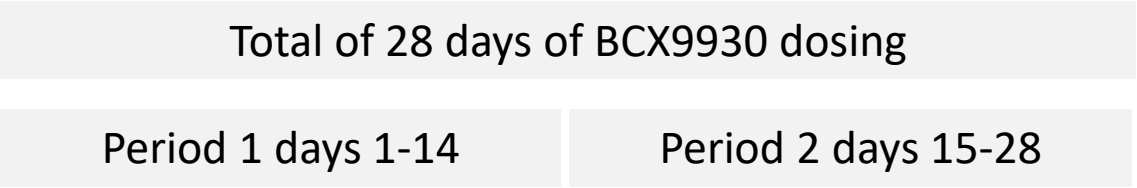
Avoid Transfusions

↓ Transfusions

# Goal of Ongoing Dose-ranging Study: Choose Optimized Dose for Advanced Development as Monotherapy

**Key Outcome Measures**

- LDH, hemoglobin
- Safety
- PK
- PD



*Subjects with PNH who are naïve to C5-INH treatments: BCX9930 monotherapy*

Cohort 1: n = up to 4*	50 mg BID days 1-14	100 mg BID days 15-28
Cohort 2: n = up to 4	200 mg BID days 1-14	400 mg BID days 15-28

*Subjects with PNH with poor response to C5-INH: BCX9930 plus continued C5-INH*

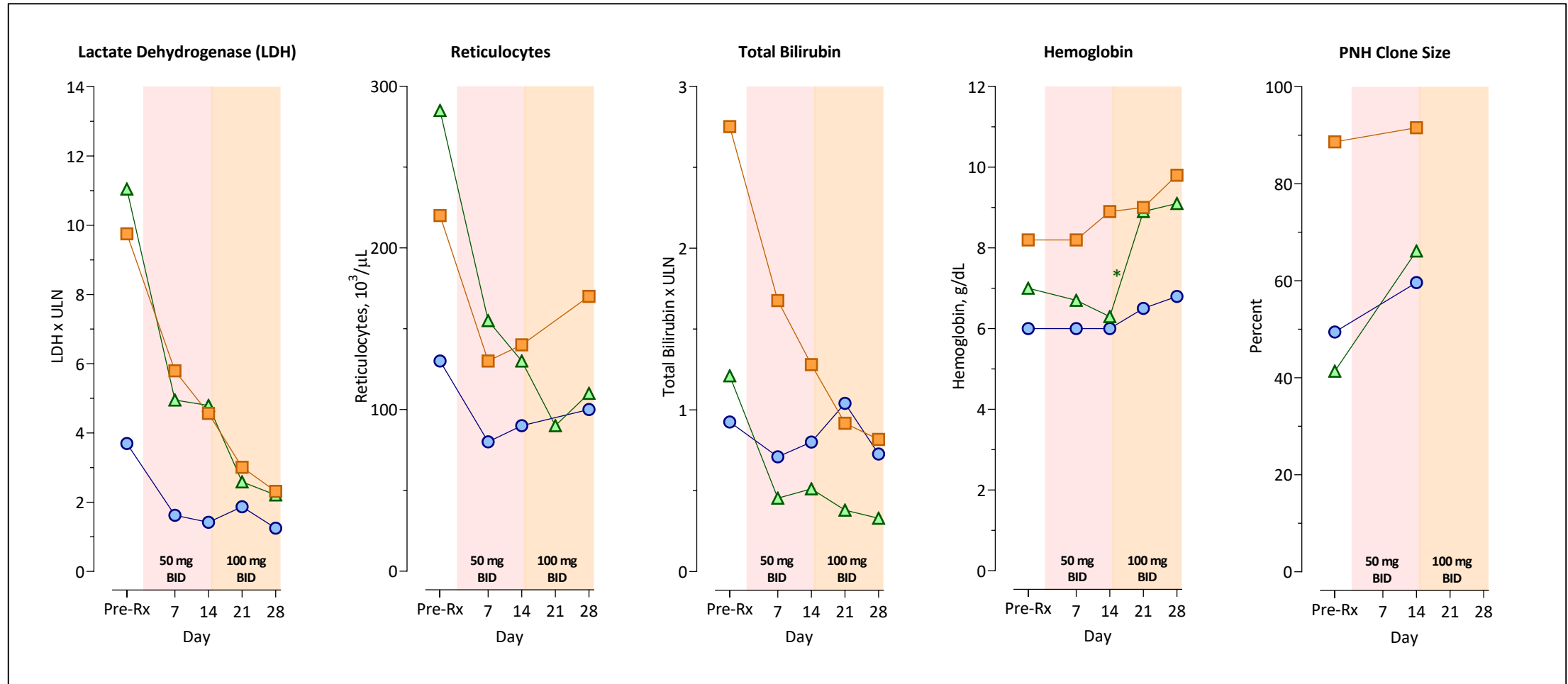
Cohort 2: n = up to 4	200 mg BID days 1-14	400 mg BID days 15-28
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*Subjects benefiting from study drug may continue on treatment*



\* Cohort 1 enrolment for subjects naïve to C5-INH is completed. Per protocol, these Cohort 1 subjects have been up-titrated to higher doses in the extension period.

# Dose-dependent Improvement Across Key Indicators in Treatment-naïve PNH Subjects Receiving BCX9930 Monotherapy



■ Subject 1   
 ▲ Subject 2   
 ● Subject 3

Study is ongoing – preliminary data. Assays pending for RBC clone size on day 28. Asterisk indicates RBC transfusion in Subject 2 on day 15

# BCX9930 Data Provides Strong Support for Oral Monotherapy in PNH

## Safety & Tolerability in PNH, n=3

- BCX9930 has been safe and generally well-tolerated in cohort 1 at low doses of 50 mg bid days 1-14 followed by 100 mg bid days 15-28
- No BCX9930-related serious adverse events
- No safety signals in routine monitoring of:
  - Vital signs, ECGs, or laboratory evaluations of hematology, coagulation, urinalysis, or clinical chemistry
- One death unrelated to study drug following 28 day study period
- 3/3 subjects had moderate headache resolving in <1-3 days soon after starting study drug
- No rash observed

## Activity in PNH at low doses, n=3

- Prompt and sustained reductions in LDH (3/3) and reticulocytes (2/3)
- Increasing PNH clone size and Hb
- Investigator assessed clinical benefit in 3/3 patients, all continued to long-term extension

## Next steps

- 200/400 mg bid cohort for C5-inhibitor naïve patients, data update expected Q3 2020
- C5-inhibitor poor responders in 200/400 mg bid cohort, data update expected by YE 2020

# Cash Position & 2020 Guidance (in millions)

Cash & investments at December 31, 2019	\$138
Cash & investments at March 31, 2020	\$115
Cash & investments at June 30, 2020	\$192
Senior credit facility	\$50
<b>REVISED FY 2020 GUIDANCE</b>	
Net operating cash utilization	\$150-165
Operating expenses <sup>A</sup>	\$180-195

A - Excludes equity-based compensation.

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