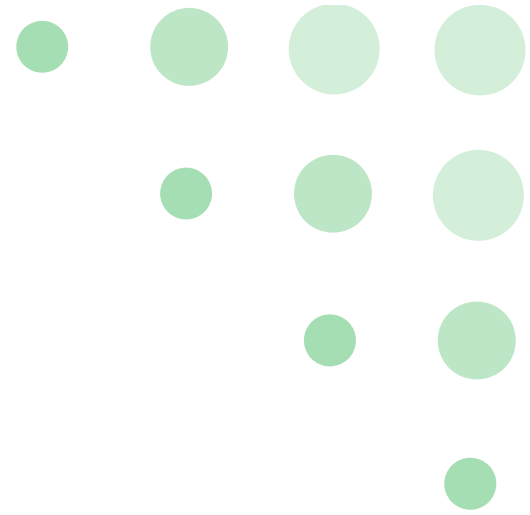


Cantor Global Healthcare Conference

Megan Sniecinski
Chief Business Officer

October 4, 2019



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>

A man with grey hair and a mustache, wearing a blue and white striped shirt and black AR glasses, is looking at a computer monitor. The monitor displays a 3D molecular model with blue and red components. The background is dark, and there are several white dots in the top right corner.

Delivering extraordinary Empowering ordinary

BioCryst develops novel oral medicines designed to treat rare disease to help patients experience a normal quality of life.

Robust Pipeline Through In-house Innovation



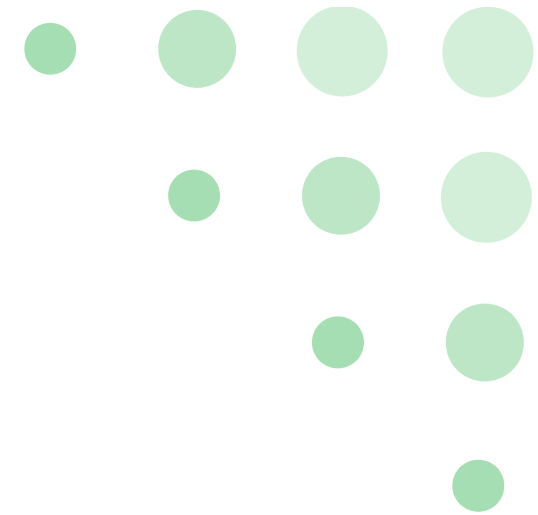
	Lead Optimization	Pre-clinical	Phase 1	Phase 2	Phase 3	Filed	Approved	
STRATEGY: Develop oral therapies for life-threatening, rare diseases								
BCX7353 – Oral Capsule (Prophylactic HAE)	→							
BCX7353 – Oral Formulation (Acute HAE)	→							
BCX9930 – Oral Factor D Inhibitor (Complement-Mediated Diseases)	→							
BCX9250 (FOP)	→							
SUPPORTING ASSETS: Externally funded, potential for capital infusions								
RAPIVAB® (peramivir injection)*	→							
Galidesivir (Broad spectrum antiviral) I.V.	→							

*Licensed to Seqirus, Shionogi and Green Cross

\$35 Million RAPIVAB® Contract for Strategic National Stockpile

- \$34.7 million contract for procurement of up to 50,000 doses over a five-year period
- Will supply the Strategic National Stockpile
- Provides non-dilutive capital to advance pipeline
- New order = \$14 million addition to balance sheet in Q4 2019





BioCryst HAE Prophylactic Program (BCX7353)



Successful Readout of APeX-2 Enables Regulatory Submissions Starting in 4Q 2019



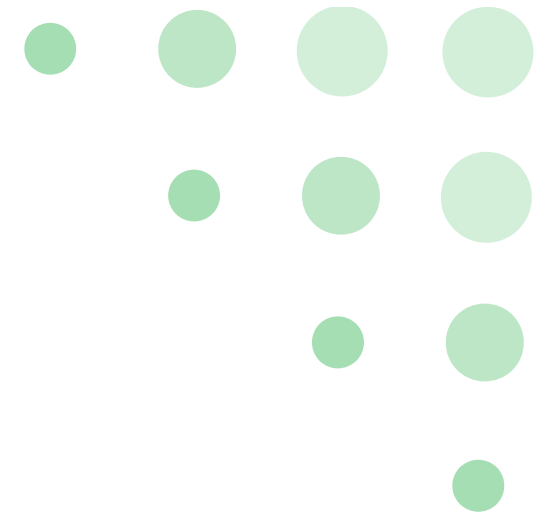
- ◆ Clinically meaningful attack rate reduction ($p < 0.001$) on primary endpoint
- ◆ Consistent dose response across endpoints
- ◆ Responder analysis shows significant reduction in attack rate in a large proportion of patients:
 - 50% of patients had $\geq 70\%$ reduction in attack rate ($p = 0.002$)
 - 23% of patients had $\geq 90\%$ reduction in attack rate ($p = 0.073$)
- ◆ Excellent safety and tolerability profile
- ◆ New treatment option (oral) meeting significant unmet medical need

Development of Global Commercial Launch Plan Actively Underway



- ◆ Tremendous excitement about data from physicians and patients
- ◆ Completing market and payor research to refine go-to-market strategy
- ◆ Building commercial organization and filling critical roles to support launch
- ◆ FDA submission on track for 4Q 2019; EMA and PMDA in 1Q 2020

Global HAE sales exceeded \$2 billion in 2018
Market growth continues with shift toward prophylaxis



BioCryst Oral Factor D Inhibitor (BCX9930)



Over \$10 Billion Global Market Opportunity

Significant pipeline potential for a differentiated oral complement inhibitor

The only marketed complement inhibitor in 2018 is **IV-infused***

1

2018 sales from **3 indications**, 55% ex-US*

\$3.6 billion

Orphan indications, each with >\$1B potential sales**

7+

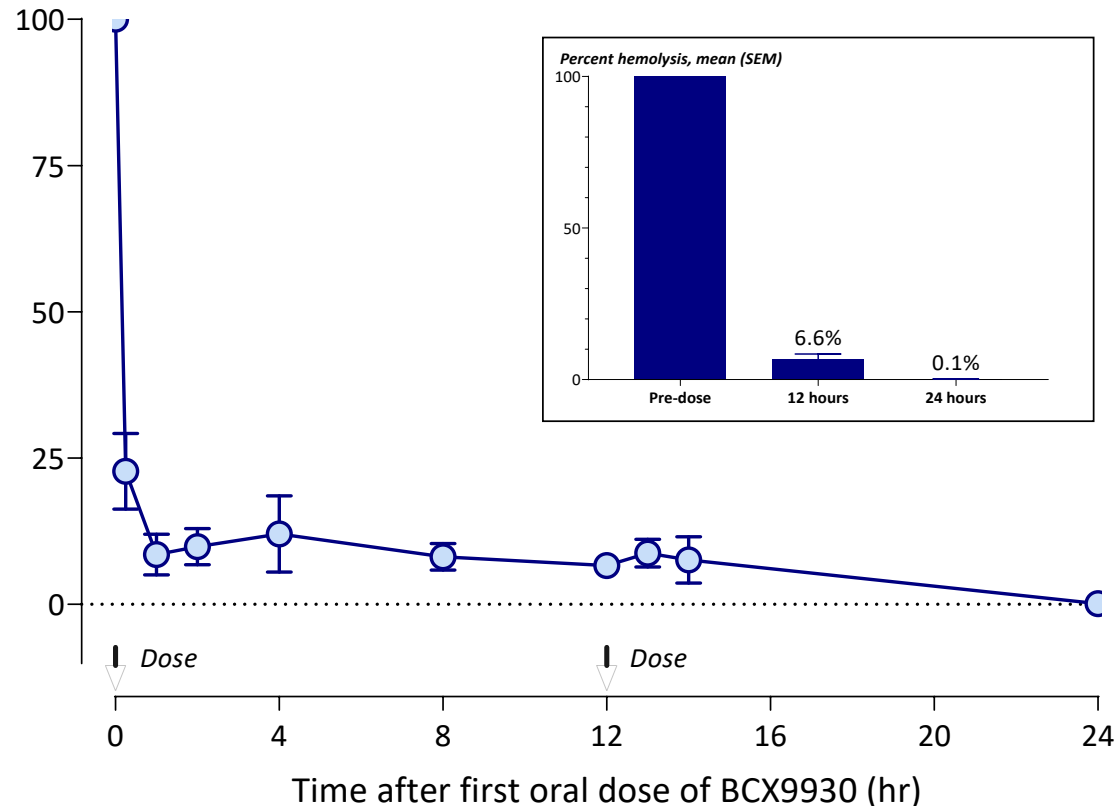
* SOLIRIS® (eculizumab) 2018 sales in paroxysmal nocturnal hemoglobinuria (PNH), atypical hemolytic uremic syndrome (aHUS), and generalized myasthenia gravis (gMG) reported 2/4/19
** Additional potential orphan indications for complement inhibitors include, but are not limited to, neuromyelitis optica (NMO), ANCA-associated vasculitis (AAV), C3 glomerulonephritis (C3G), IgA nephropathy (IgAN), warm autoimmune hemolytic anemia (wAIHA), focal segmental glomerulosclerosis (FSGS), and cold agglutinin disease (CAD)

BCX9930 Inhibits Complement-Mediated Hemolysis in Standard Ex-Vivo Assay After Oral Dosing in NHP

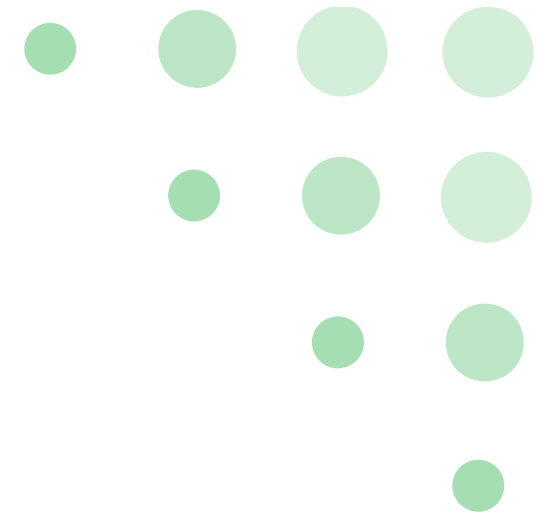
Complement activity in NHP after oral dosing with BCX9930

Assay: hemolysis of rabbit RBC

Percent hemolysis, mean (SEM); baseline normalized to 100%



- ◆ Hemolysis of rabbit RBC by serum is a very well-established assay, originally developed to detect complement deficiency
- ◆ After oral dosing of NHPs with BCX9930, >99.9% suppression of complement-mediated hemolysis was observed
- ◆ Drug exposure (AUC₀₋₂₄) in this experiment was a fraction of the NOAEL
- ◆ BCX9930 is approximately 50% less potent on NHP compared with human Factor D



BioCryst Corporate Update



Cash Position & 2019 Guidance (in Millions)



Cash & investments at December 31, 2018	\$128
Cash & investments at June 30, 2019	\$98
Senior Credit Facility ^A	\$50
FY 2019 GUIDANCE	
Operating cash utilization	\$105 – 130
Operating expenses ^B	\$120 – 145

A - Credit Facility was modified in February 2019 to provide an additional \$20 upon closing and the ability to draw an additional \$50 of milestone-based tranches.

B - Excludes equity-based compensation.

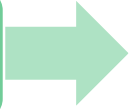
BioCryst Continues Executing to Support Multiple Upcoming Milestones



Accomplished to date

2H 2019

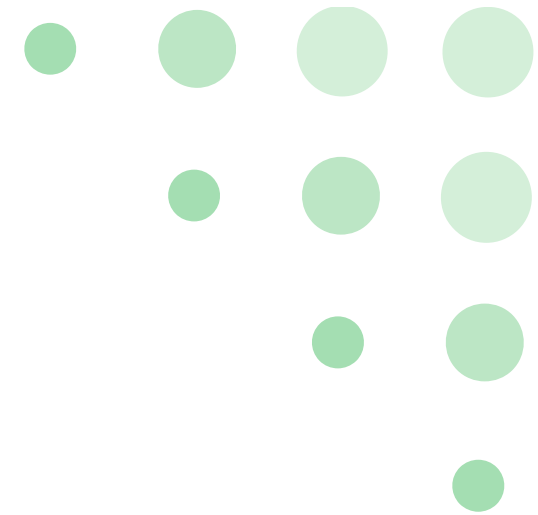
2020



- ✓ Successfully completed APeX-2 for Prophylactic HAE; extension phase on-going
- ✓ Initiated HAE prophylaxis open-label study (APeX-S) and Japan registration (APeX-J) studies
- ✓ Initiated BCX9930 Phase 1 Study
- ✓ Readout Phase 2 trial results from ZENITH-1 study in Acute HAE

- FDA submission of BCX7353 for Prophylactic HAE
- BCX9930 Phase 1 data
- Initiate Phase 1 study for BCX9250 in FOP

- EMA and PMDA submissions of BCX7353 for HAE Prophylaxis
- BCX9930 POC in PNH
- Initiation of Phase 3 for HAE Acute
- Launch of BCX7353 for HAE Prophylaxis



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