

Management Presentation

September 2017

Forward Looking Statements

The statements made in this presentation may include forward-looking statements regarding the treatment of orthopoxvirus infections, the development and attributes of SIGA Technologies, Inc. ("SIGA") products, and the future operations, opportunities or financial performance of SIGA. Although we believe that the expectations contained in this presentation are reasonable, these forward-looking statements are only estimations based upon the information available to SIGA as of the date of this presentation. Except as required by law, we expressly disclaim any responsibility to publicly update or revise our forward-looking statements, whether as a result of new information, future events or otherwise. Thus, the forward-looking statements herein involve known and unknown risks and uncertainties and other important factors such that actual future operations, opportunities or financial performance forward-looking statements.

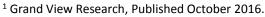
Undue reliance should not be placed on forward looking statements, which speak only as of the date hereof. All forward-looking statements contained herein are qualified in their entirety by the foregoing cautionary statements.

For a more detailed discussion of our risks, see the Risk Factors section in SIGA's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 filed with the SEC and our other filings with the SEC, including our most recent Quarterly Report, all of which are available on our website, <u>www.siga.com</u>.



SIGA Value Proposition

 Biodefense is a \$9.5B global market with an 8.3% CAGR¹ Attractive market expansion opportunities 	
 Bioterrorism is a recognized, urgent threat that could kill millions in a single outbreak 	
 Smallpox is one of the deadliest threats with a historical 30% fatality rate 	
 Vaccines alone cannot address a smallpox outbreak 	
 Unique market dynamics, regulations and policies support multiple potential revenue streams for the TPOXX product line 	
 Experienced management and strategic collaborations enhance prospects for success 	
 Over \$500 million in contract awards from the U.S. Government Highly externalized cost structure minimizes fixed costs and provides scalability 	
 Significant opportunities for value creation around SIGA's antiviral therapy for smallpox 	





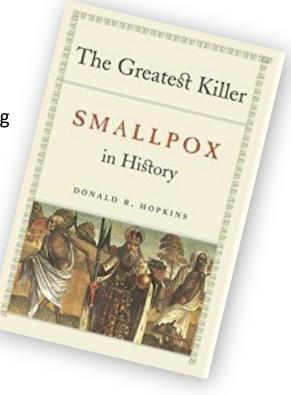
Lead Program TPOXX Current and Potential Revenue

Revenue Streams	Description / Status			
Oral Drug (U.S. Gov)	 Procurement and Development Contract of \$472 million for 2 million courses of drug for 18-64 yr. olds; potential expansion for coverage of all ages Replenishment of product deliveries that started in 2013 			
	 Potential future expanded indication for post-exposure prophylaxis based on additional studies 			
IV drug (U.S. Gov)	 Currently in Phase 1 development; granted fast track status 			
	 Enrollment in Phase 1a study completed 			
	 Development contract from U.S. Government 			
Priority Review Voucher	 21st Century Cures Act established PRV program for Medical Countermeasures 			
(PRV)	• Potential eligibility for PRV upon NDA approval for TPOXX (anticipated in 2018)			
International	 Focused business development program in numerous countries 			
	 FDA approval of TPOXX is a key milestone to support procurement planning 			
Private Sector	 Hospitals, large corporations, and specialty retail stockpiles for emergency use 			
Substantial NOLs p	roviding tax benefits for current BARDA contract and future contracts			



Smallpox: A Deadly Killer

- Smallpox has a **potential 30% fatality rate** and was responsible for approximately **300 million deaths** worldwide in the 20th century
- Smallpox is a highly contagious virus
 - Spreads person to person
 - Can be transmitted through speaking, breathing, or touching
 - Can be transmitted by direct contact with infected fluids and contaminated objects
 - It is estimated that each person infected with smallpox would infect 5-7 other people if not vaccinated/treated
- Successful eradication resulted from coordinated global vaccination campaigns
- Current smallpox vaccine and other vaccinia-based vaccines may cause serious adverse reactions, especially in individuals who are very young or very old, or immunocompromised (e.g., those with eczema or atopic dermatitis)





Compassionate Use in Treatment of Vaccine Complications

2007

• 28-month old child¹⁻³

Diagnosed with eczema vaccinatum after contact with his father, an active U.S. military service member who had recently received smallpox vaccination

2009

- 20-year old active U.S. military service member^{4,5}
 Presented with progressive vaccinia after receiving smallpox vaccination
- 35-year old female⁶

Developed a vaccinia infection after exposure to a recombinant vaccinia-based rabies vaccine

2011

• 25-year old female

Developed a vaccinia infection after changing a bandage covering a smallpox vaccination site for her boyfriend, a U.S. military contractor

2015

Active U.S. military male service member

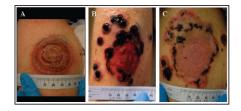
Developed vaccine complications due to a concomitant undiagnosed cancer

¹Science. 2007;316:1418-1419. ² CDC MMWR. 2007;56:478-481. ³Vora S et a. Clin Infect Dis. 2008;46: ⁴CDC MMWR. 2009;58:532-536. ⁵J Infect Dis.2012;206:1372-1385. ⁶ CDC MMWR. 2009;58:1204-1207.



FIGURE. Abdomen and chest of a boy aged 28 months rash of umbilicated lesions caused by eczema vaccinal





4.5



Human BioArmor

The Challenges of Smallpox Today

Today's population is not immune from smallpox¹

Smallpox vaccine cannot treat all individuals²

Treatment with vaccine must be immediate³

1980 20% FOUR

Smallpox eradicated; routine vaccinations and boosters ceased

Percent of the population contraindicated for vaccination

Treatment window when patients receiving vaccine benefit after infection

DAYS

nearly impossible¹

Immediate treatment

Period when infected individuals typically do not show symptoms

DAYS



¹CDC Fact Sheet: Smallpox .Available at https://www.cdc.gov/smallpox/symptoms/index.html. ²Studies Cite Smallpox Vaccine Tradeoff. The Washington Post. May 8, 2002. ³ Henderson DA et al. Clin Infect Dis. 2003;36:622-629.



The Threat of Smallpox Tomorrow

"Somebody would reconstruct, say, a smallpox virus and have that spread, and that would not only kill millions, it could potentially kill billions." Bill Gates on bioterrorism, Jan 28, 2017, PBS

"...the next epidemic could originate on the computer screen of a terrorist intent on using genetic engineering to create a synthetic version of the smallpox virus ..." Bill Gates, Feb 18, 2017, Business Insider Op-Ed



Watch: Bill Gates on Bioterrorism, PBS



Significant Government Investment in Preparedness

- U.S. government initiatives to support preparedness:
 - Project Bioshield (2004)
 - Formation of the Biomedical Advanced Research and Development Authority - BARDA (2006)
 - Supports development and procurement of countermeasures for bioterrorism attacks, including drugs considered priorities for national health security
 - Smallpox identified as a major threat
 - Pandemic and All-Hazards Preparedness Act Reauthorization (2014)
- Between 2001 and 2014, the U.S. government spent nearly \$79 BILLION on civil biodefense funding¹



¹Sell TK and Watson M. Biosec Bioterror. 2013;11:196-216. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778993/.



Attributes of an Ideal Smallpox Therapeutic

Easy to...



Small molecule with long shelf life

TRANSPORT

Stable without the need for refrigeration

ADMINISTER

Oral and IV formulations

TPOXX is one of the first new molecular entity drugs delivered to the Strategic National Stockpile under Project BioShield



The Impact of an Antiviral on a Smallpox Attack

Smallpox is Highly Contagious and Deadly

It is estimated that, in the absence of a vaccine or antiviral therapy, each person infected with smallpox will infect 5-7 other people, and that approximately 30% of infected individuals will die

Even with vaccination, published models have shown the use of an antiviral drug during an outbreak could significantly reduce fatalities, confirming the importance of maintaining significant stockpiles







Fatalities

dual

Sources: Centers for Disease Control, World Health Organization, Center for Infectious Disease Research and Policy, National Center for Biotechnology Information, Journal of Biosecurity and Bioterrorism, and presented to HHS, CDC, BARDA, FBI, Homeland Security, DoD, the White House and overseas. ¹Published in the Journal of Biosecurity and Bioterrorism, and presented to HHS, CDC, BARDA, FBI, Homeland Security, DoD, the White Howee and



SIGA is Uniquely Positioned to Address the Threat of Smallpox

SIGA: Advancing Health Security



MISSION

A commercial-stage specialty pharma company focused on developing solutions to infectious disease and biothreats

VALUABLE THERAPEUTIC PORTFOLIO

TPOXX[®] (tecovirimat)

- Oral capsule smallpox antiviral
- Targeting NDA filing in late 2017
- >\$500 million of contract awards from U.S.
 Government
- IV formulation smallpox antiviral
- Enrollment in Phase 1a study completed
- Development contract from U.S. Government

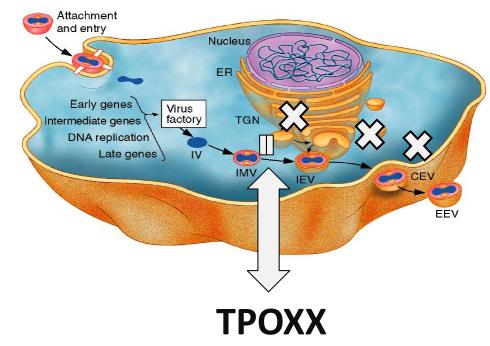
Dengue Virus Antiviral

Preclinical: efficacy shown in animal models



TPOXX Mechanism of Action

- Smallpox spreads by developing a secondary envelope
- This allows the virus to leave the cell and enter the bloodstream
- TPOXX's mechanism of action inhibits maturation, preventing release and spread of viral particles to other cells



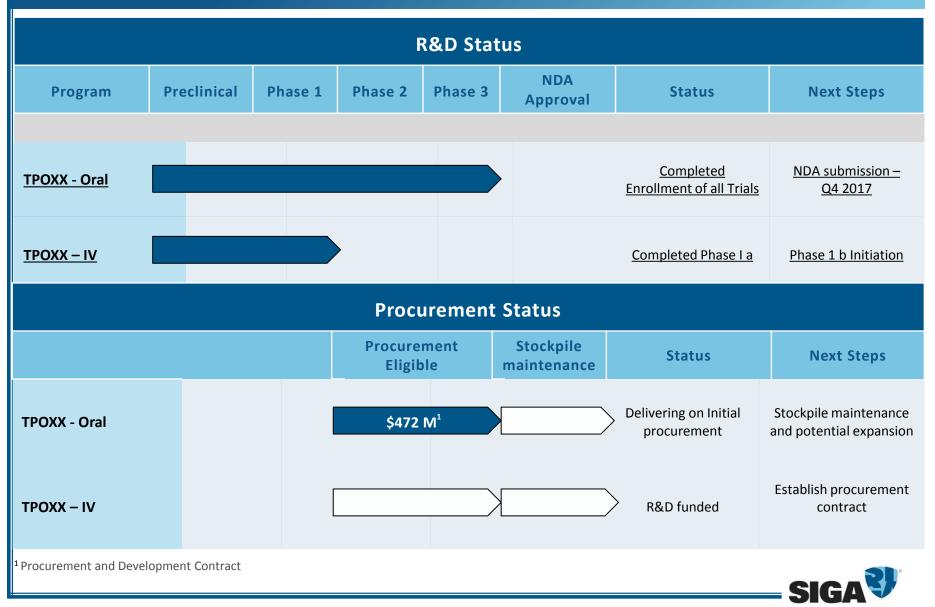
IMV: Intracellular Immature Virus IEV: Intracellular Enveloped Virus EEV: Extracellular Enveloped Virus

Inhibits the viral envelope formation and spread of the virus

¹ Byrd CM and Hruby DE. Viral proteinases – targets of opportunity. Drug Dev Res. 2006;67:501-510.



Therapeutic Portfolio: R&D and Sales



Human BioArmor

Favorable Policy and Regulatory Environment Support Development and Future Demand for TPOXX

Novel Development Path for TPOXX

- **Development** Path
- With smallpox declared eradicated in 1980, it is unethical to conduct efficacy testing in humans
- FDA 'animal rule' established to conduct efficacy studies in animals and safety studies in humans
- Required GLP efficacy studies completed in animals along with animal toxicology
- Sale of product for stockpiling prior to NDA approval
- All Phase 3 clinical studies complete with no drug-related SAEs
- Dose concurrence agreement with FDA

TPOXX Status

- In vivo toxicology data and CMC data complete and being prepared for submission
- SIGA preparing NDA, with submission targeted for 4Q 2017
- Fast Track Designation and Orphan Drug Designation received, with anticipated NDA priority review

Anticipated to be first novel small-molecule drug to be approved for biodefense



Clinical Summary

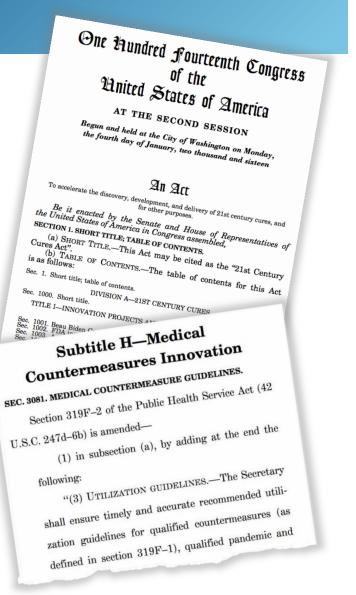
Summary of Subjects Treated	Number of Subjects	
Received at least one dose of TPOXX	359	
Received at least 14 days of treatments	336	
Drug-related Serious Adverse Events	0	

Clinical Trial Summary						
Total Trials	Phase 1 Trials (Completed)	Phase 2 Trials (Completed)	Pivotal Phase 3 Trial (Completed)			
11	9	1	1			



Priority Review Voucher

- 21st Century Cures Act of 2016 created Priority Review Voucher (PRV) eligibility for Medical Countermeasures to material threats as determined by the U.S. Government
- Legislation provides the sponsor of a qualifying product with a PRV to receive priority review for a future drug of their choice, resulting in an accelerated review
- PRV may be sold commercially without restriction
- Smallpox is on the list of Material Threats, and TPOXX is a novel treatment for smallpox
- SIGA expects to apply for a PRV when the TPOXX NDA is filed; targeted for late 2017
- Upon NDA approval, FDA will determine eligibility and can award PRV. Targeted timing is 2H 2018



¹U.S. House of Representatives Amendment to the Senate Amendment to H.R.34.Subtitle H – Medical Countermeasures Innovation. Available at:http://docs.house.gov/billsthisweek/20161128/CPRT-114-HPRT-RU00-SAHR34.pdf.



Elements in Place For Manufacturing and Commercial Success

U.S. Government Investment in Biodefense has Enabled SIGA to Build a Robust Capability for Drug Development and Commercialization

End-to-end network of proven partners established

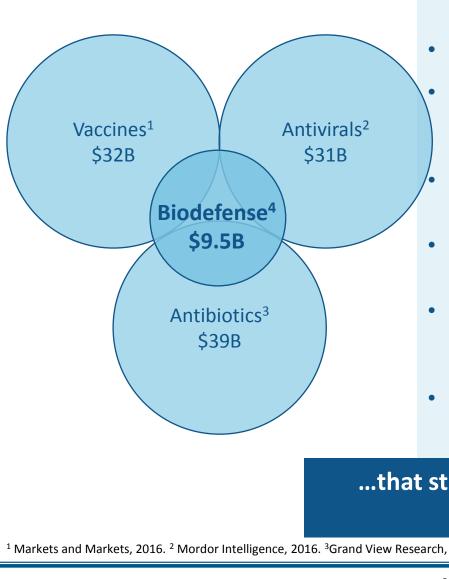
Discovery Pre-clinical Clinical Regulatory Supply Chain

- Over 20 partnered companies
- TPOXX developed from lead identification through commercial supply chain
- U.S. based supply chain for robust product supply to customers
- Experienced oversight of network by SIGA leadership
- Proven capabilities that can be scaled for future products

Network design minimizes fixed costs and provides ability to scale to product development and procurement demands.



Biodefense is an Attractive Specialty Market...



MARKET INCENTIVES

- **R&D:** Government provides majority of R&D funding
- Limited Buyers with Pre-Defined Volume: Procurement contracts typically awarded multiple years prior to anticipated NDA, providing early cash flow
- Priority Review Voucher: Potential eligibility upon NDA approval, lucrative secondary market
- **Technology / Capability Platform Building:** Opportunity to build technology and expertise in product fields
- Capital Investment: In specialized products, shared capital investments have been made to build infrastructure for supply chain and/or R&D
- High Barriers to Entry: Complex government contracting requirements and long procurement cycles

...that strategically overlaps with broader infectious disease markets.

¹ Markets and Markets, 2016. ² Mordor Intelligence, 2016. ³Grand View Research, 2016.⁴ Grand View Research, 2016.



Proven SIGA Leadership Team

Phillip Gomez, Ph.D. CEO 25+ years experience in Infectious Disease, Pharmaceuticals	NAtional Institute of Allergy and Infectious Diseases	DFI PASTEUR 🧳 pwc
Daniel Luckshire, EVP, CFO 20+ years experience in Specialty Business, Finance	Merrill Lynch	pwc
Dennis Hruby, Ph.D., <i>Chief Scientific Officer</i> 25+ years experience in Microbiology, Pharmaceuticals		University of Colorado
Robin Abrams, <i>General Counsel and Chief Administrative C</i> 25+ years experience in Law, Government, Pharmaceuticals	Officer puppure	ates attorney's office
Tove Bolken, SVP, Operations 15+ years experience in Microbiology, Pharmaceuticals		OSU
Annie Frimm, VP, Regulatory, Clinical, & Quality 25+ years experience in Pharmaceuticals		Roche
Akhila Kosaraju, M.D., VP, Global Business Development 10+ years experience in Pharmaceuticals, Government	COLUMBIA UNIVERSITY	
Eric Rose, M.D., Executive Chairman	Columbia UNIVERSITY	
25+ years experience in Healthcare		Ymeso blast

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Human BioArmor

Corporate Focus: 2017-2018



Grand View Research, Published October 2016.

