

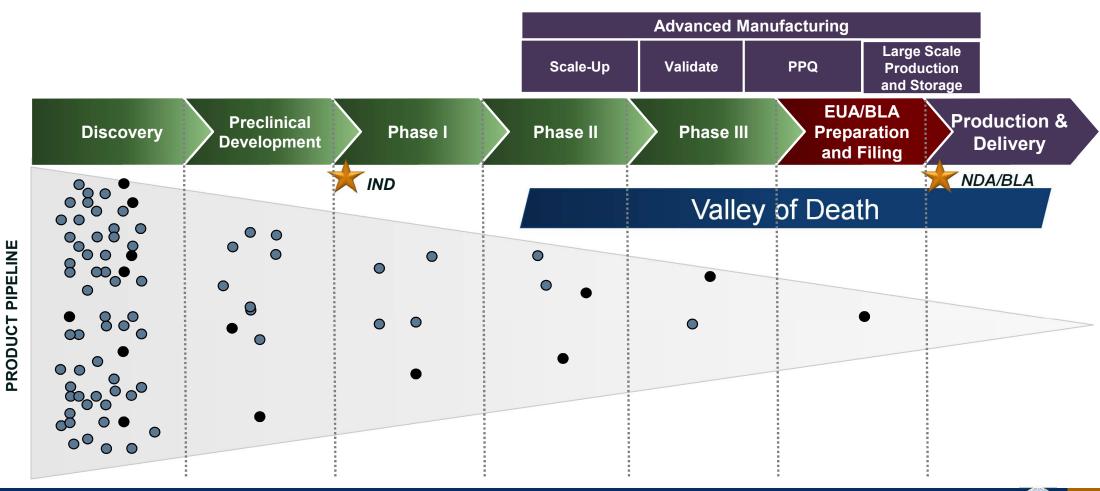


Cracking the Code: Advanced Development and Licensure of the Elusive Broad Spectrum Antiviral Drug

Robert Johnson, PhD

Director, Medical Countermeasures Program Biomedical Advanced Research and Development Authority (BARDA) Deputy Assistant Secretary for Preparedness and Response Administration for Strategic Preparedness and Response (ASPR) Broad Spectrum Antiviral Therapeutics: A Key Tool for Pandemic Preparedness (Brussels, Belgium); 22-23 November 2022

BARDA's Medical Countermeasure Development Pipeline



ASPR



The BARDA Model

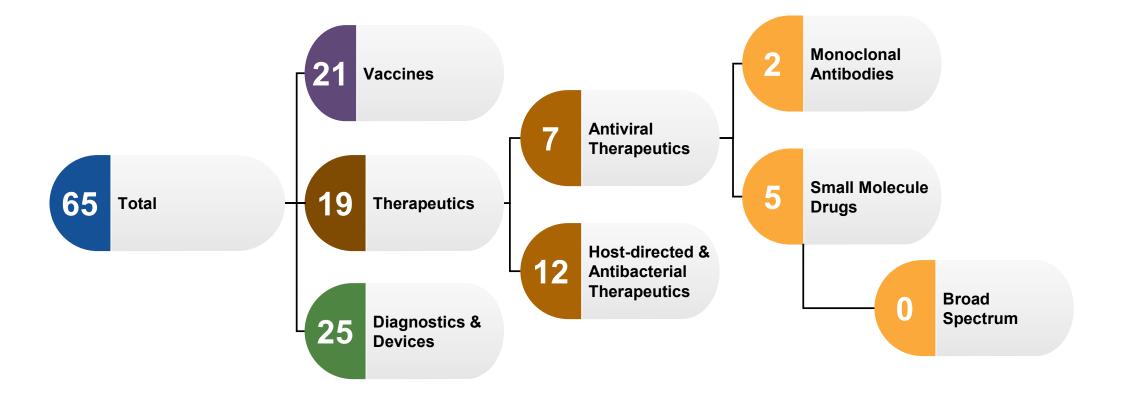
BARDA develops and makes available medical countermeasures (MCMs) by forming unique publicprivate partnerships to drive innovation off the bench to the patient to save lives.

PESEA Flexible, nimble authorities BIOME **Multi-year funding** (011110) **Cutting edge expertise** AN **Facilitate partnerships** ELOPMEN **Promote innovation**





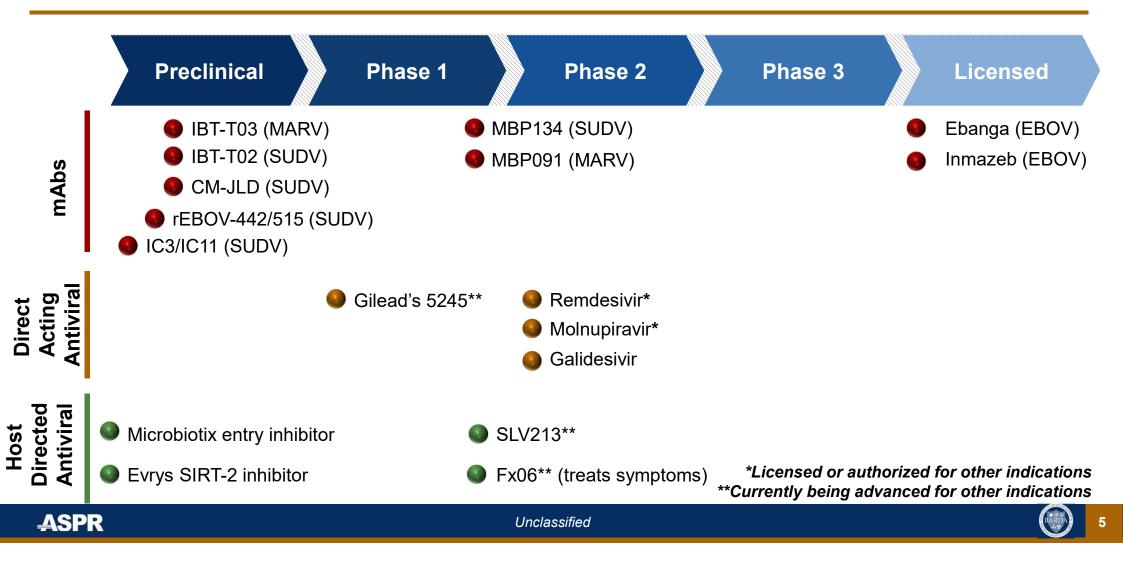
BARDA Supported MCM Approvals/Clearances



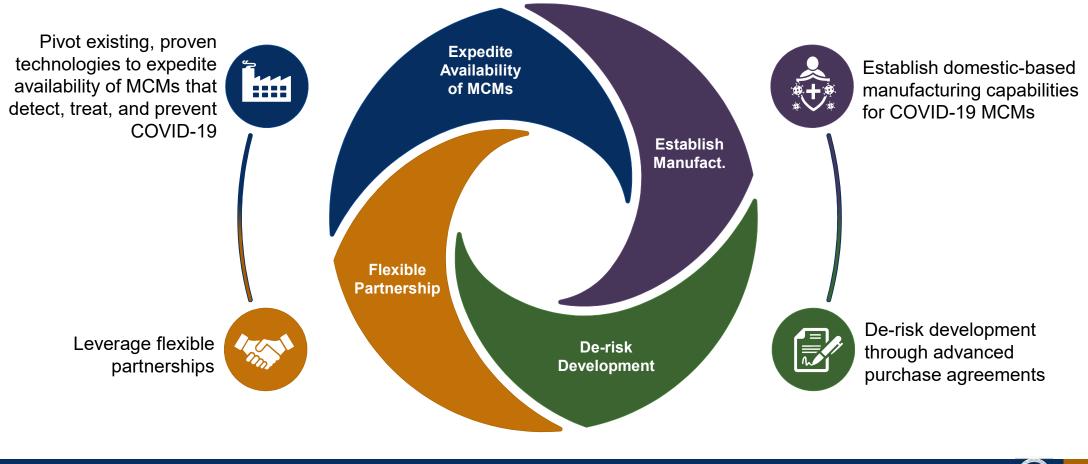




Filovirus Therapeutics Landscape



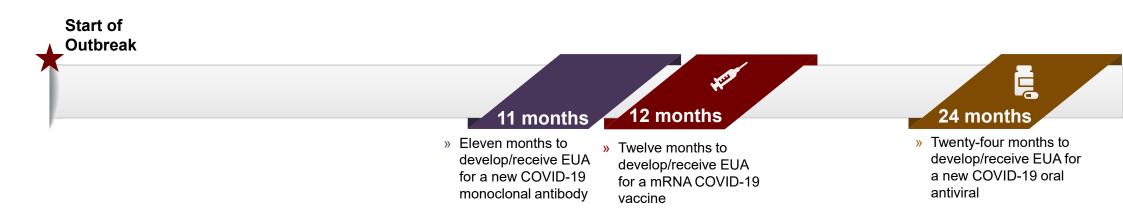
BARDA 2020 COVID-19 Medical Countermeasure Development Strategy



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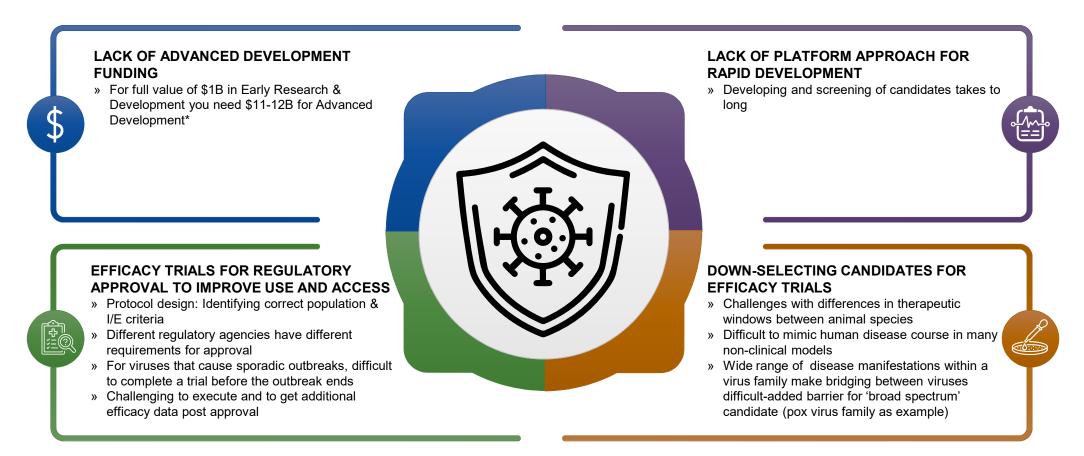
Developing New Products to COVID-19: Timeline to EUA in United States







Challenges to Advanced Development of Broad-spectrum Antiviral

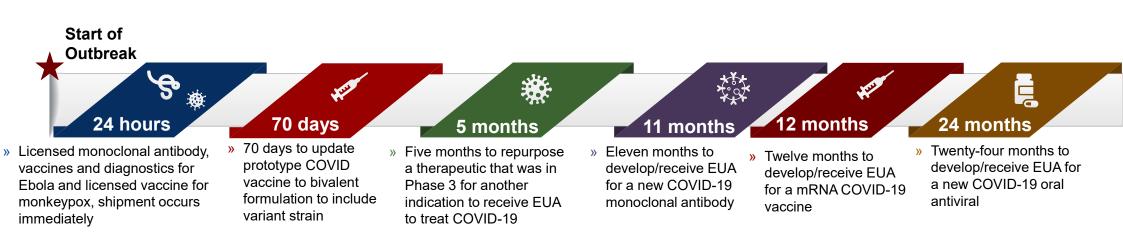


*Farid SS, Baron M, Stamatis C, Nie W, Coffman J. Benchmarking biopharmaceutical process development and manufacturing cost contributions to R&D. MAbs. 2020;12(1):1754999. Doi: 10.1080/19420862.2020.1754999. PMID: 32449439.





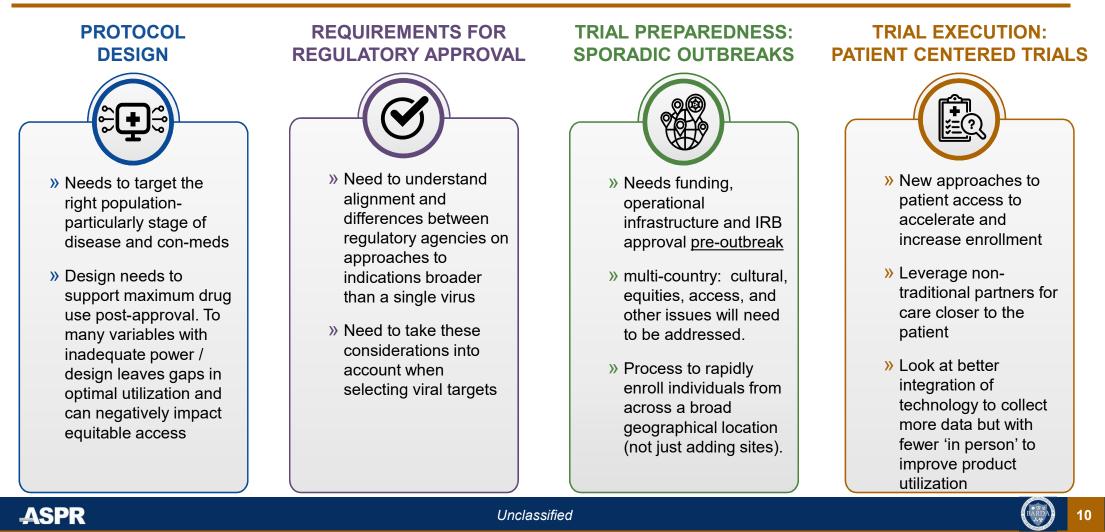
Benefits of Regulatory Approval to Response and Access



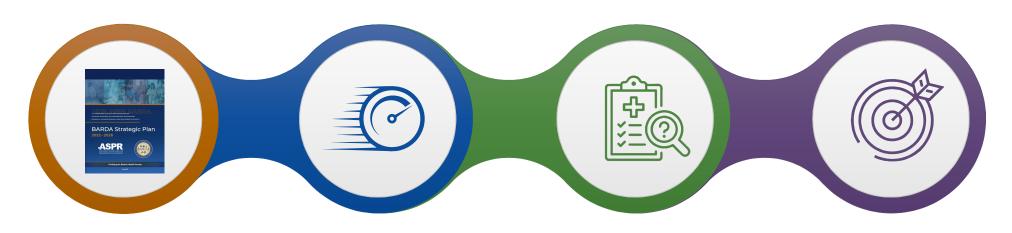




Challenges with Efficacy Trials for Anti-Virals Targeting Viruses that Cause Sporadic Outbreaks



BARDA's Strategic Path Forward



Outlined in the 2022-2027 BARDA Strategic Plan Faster development with better down-select success rate Re-imagining Phase III/IV clinical trial approaches Initially, target indication for a single virus-select families where FDA licensure against at least one virus has clear regulatory route







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