

Special Pathogens Diagnostics for Clinical Readiness

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About NETEC



MISSION

The National Emerging Special Pathogens Training and Education Center's mission is to set the gold standard for special pathogen preparedness and response across health systems in the U.S. with the goals of driving best practices, closing knowledge gaps, and developing innovative resources.

VISION

Our vision is a sustainable infrastructure and culture of readiness for managing suspected and confirmed special pathogen incidents across the United States public health and health care delivery systems.

SCOPE

The National Emerging Special Pathogens Training and Education Center provides technical expertise, training, education, best practices, and coordination to the nation through coordination with the ten (+3 coming soon!) ASPR funded Regional Emerging Special Pathogens Treatment Centers

Regional Emerging Special Pathogens Treatment Centers

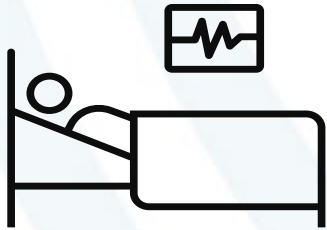


- 1** CT, ME, MA, NH, RI, VT
Massachusetts General Hospital
- 2** NJ, NY, PR, VI
NYC Health + Hospitals / Bellevue
- 3** DC, DE, MD, PA, VA, WV
Johns Hopkins Hospital
Washington Hospital Center
- 4** AL, FL, GA, KY, MS, NC, SC, TN
Emory University Hospital
University of North Carolina at Chapel Hill
- 5** IL, IN, MI, MN, OH, WI
University of Minnesota Medical Center
Spectrum Health System
- 6** AR, LA, NM, OK, TX
University of Texas Medical Branch
- 7** IA, KS, MO, NE
University of Nebraska Medical Center/Nebraska Medicine
- 8** CO, MT, ND, SD, UT, WY
Denver Health & Hospital Authority
- 9** AZ, CA, HI, NV, AS, MP, FM, GU, MH, PW
Cedars Sinai Medical Center
- 10** AK, ID, OR, WA
Providence Sacred Heart Medical Center & Children's Hospital

National Special Pathogens System of Care (NSPS)



VISION FOR THE SYSTEM OF CARE



0

**preventable
deaths**

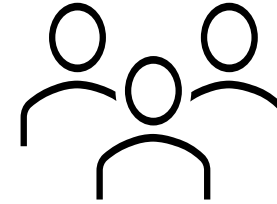
after special pathogen
infection



2 hours

**to network
mobilization**

after a suspected
special pathogen
event



100%

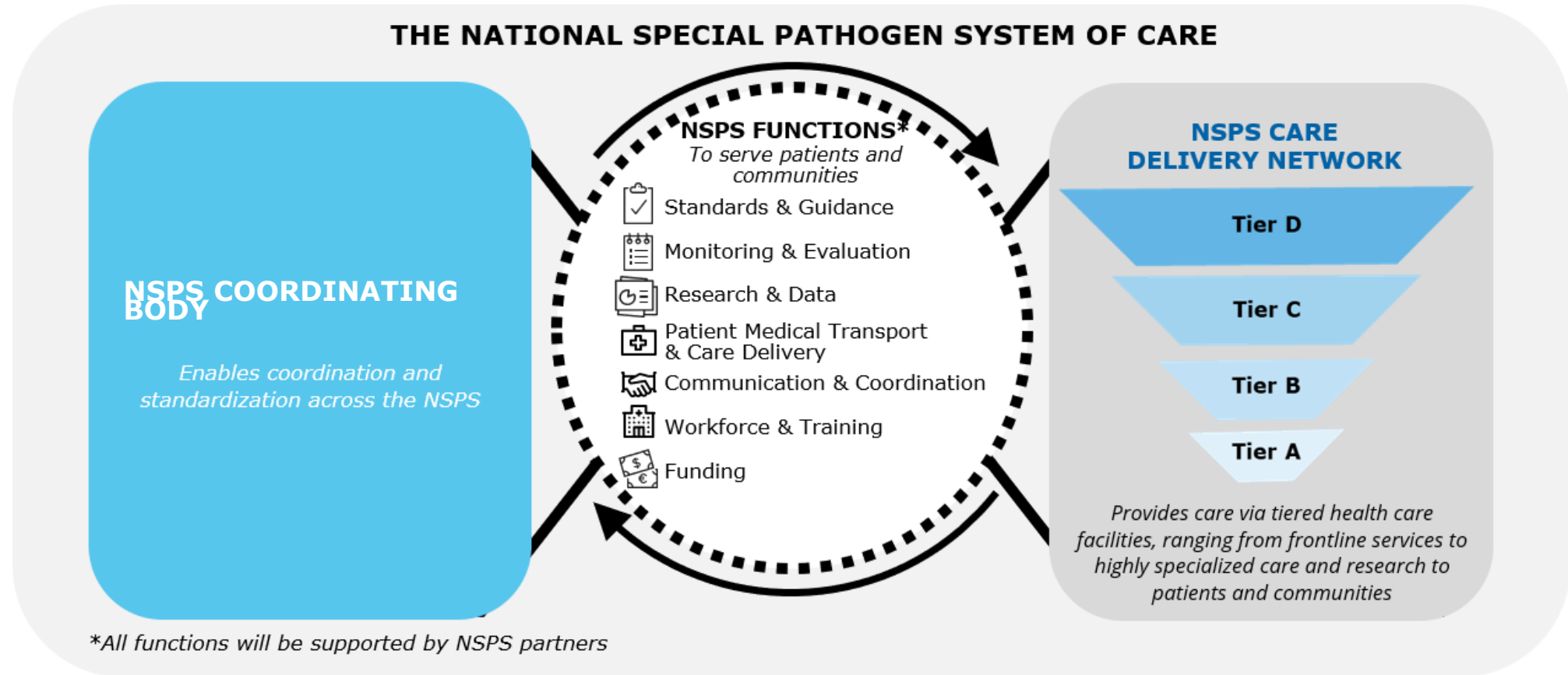
**of U.S. population
have access**

to high-quality special
pathogen care

NSPS System of Care



THE NATIONAL SPECIAL PATHOGEN SYSTEM OF CARE



Sudan Virus Disease Response



BIOFIRE WARRIOR PANEL IMPLEMENTATION

SPRN is proactively supporting all 10 RESPTCs and the NIH CC to onboard Sudan Ebolavirus (SDV) testing capabilities via the use of the Biofire and their Warrior Panel. SPRN will leverage its relationship with the NEIDL at Boston University for sharing of clinical specimens for clinical validation and ongoing performance evaluation of the diagnostic.

MCM RESPONSE

The SPRN sIRB will serve as the IRB of record for an expanded access protocol for an investigational Monoclonal Antibody Cocktail (MBP-134) from Mapp Biopharma for all ten RESPTCs and the NIH CC.

CLINICAL RESEARCH RESPONSE

SPRN will work with subject matter experts from participating NETEC sites to provide input on clinical case definitions and guidance on medical countermeasures, technologies, and standard of care treatment for diagnosis and clinical management of SDV.

Special Pathogens Testing in the Clinical Environment



- Clinical practice guidelines for diagnostic test utilization for high-consequence pathogen case identification and management in U.S. treatment centers is lacking
 - The role of RESPTCs in the on-site and regional clinical diagnostic testing pathway is nascent and event specific.
 - FDA-cleared diagnostic assays are generally not available in the hospital setting for many special pathogens
 - Proper access to appropriate specimens and control materials for maintenance is not consistently available
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Next Steps

- Validate additional targets on Warrior Panel as a use case
 - Eg MARV target for current outbreak
 - Develop network-wide laboratory based diagnostic program
 - Define and refine appropriate role for expanded diagnostic and ongoing clinical testing in the special pathogens environment
 - Grow collaboration with CDC/LRN and expand clinical and public health laboratory coordination
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Thank you! Questions?

www.netec.org
