



# BARDA RADIOLOGICAL AND NUCLEAR COUNTERMEASURES PROGRAM

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CBRN Division

**BARDA Industry Day  
November 07, 2017**



# Radiological/Nuclear Events

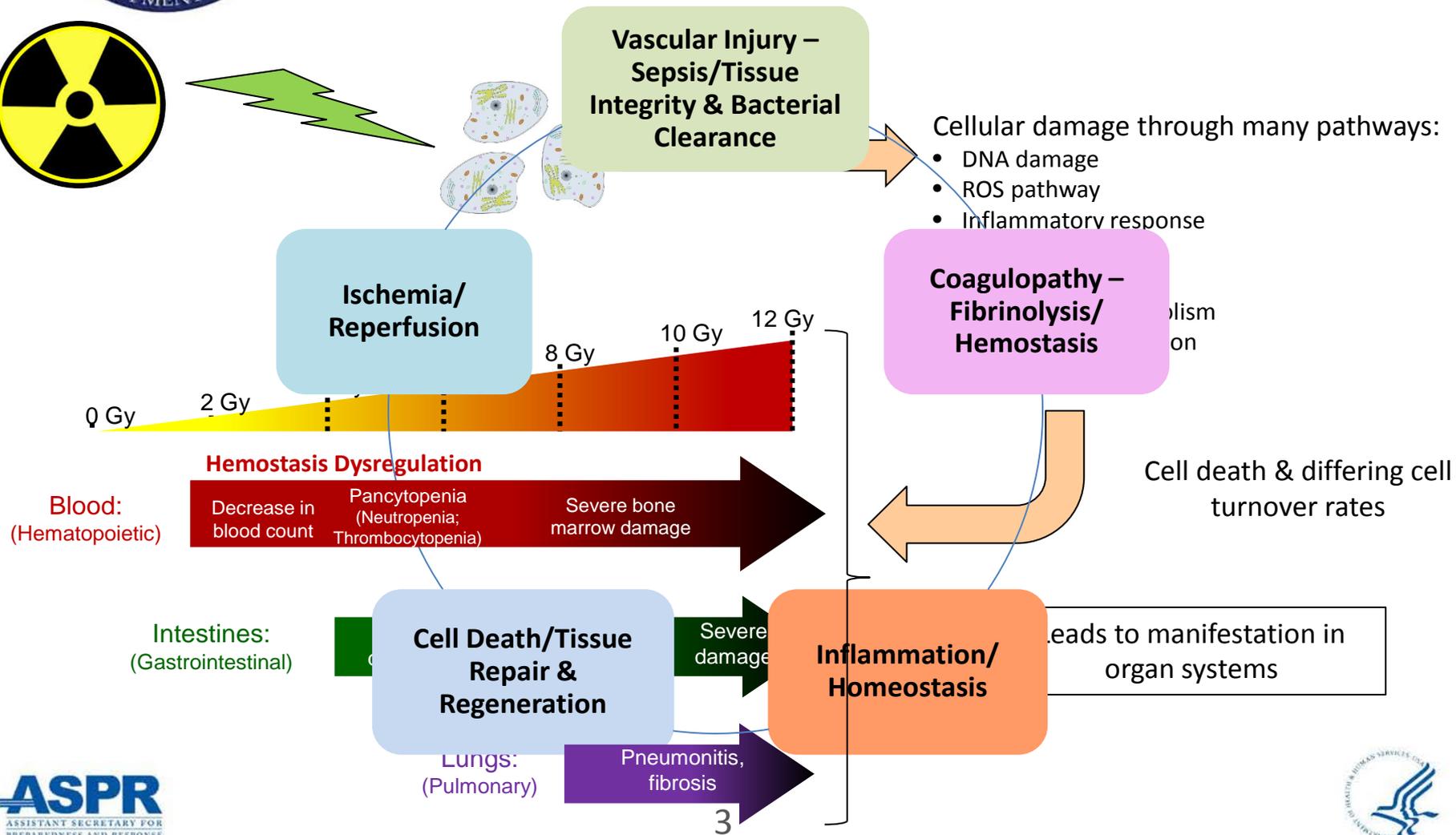
- Overall focus on injuries from:
  - Nuclear Detonation
  - Radiological Dispersal Device (RDD) Events
- Priority on Nuclear Detonation-related injuries
  - Impact predicted to be greater
- Nuclear Detonation event will include:
  - Infrastructure damage
  - Resource limitations
  - Complex spectrum of injuries
    - Includes combined injuries
    - Changes with different scenarios
- Polypharmacy and Repurposing
  - Key tenets for portfolio strategy





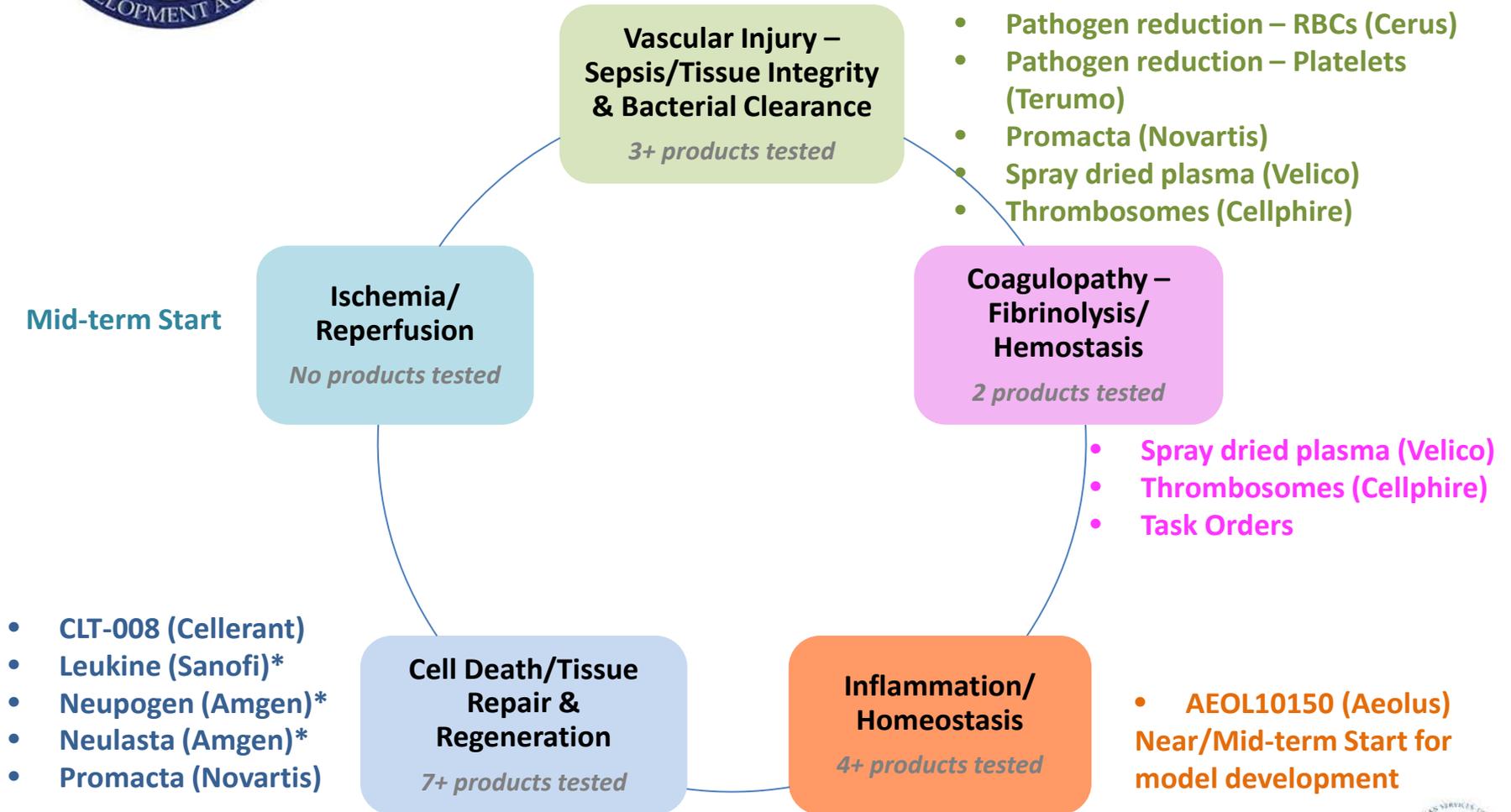
# Targeted Natural History for Acute Radiation Injury

## Radiation-induced development





# Current BARDA Portfolio and Product Testing





# Current BARDA Portfolio - Examples of Repurposing



**Leukine®**  
sargramostim



**AMGEN®**  
**NEUPOGEN®**  
(FILGRASTIM)



**AMGEN®**  
**Neulasta®**  
(pegfilgrastim) injection



**TERUMOBCT**  
Unlocking the Potential of Blood



**NOVARTIS**  
**PROMACTA®**  
(eltrombopag)  
25mg, 50mg, 75mg tablets



**CERUS**  
**INTERCEPT**  
BLOOD SYSTEM



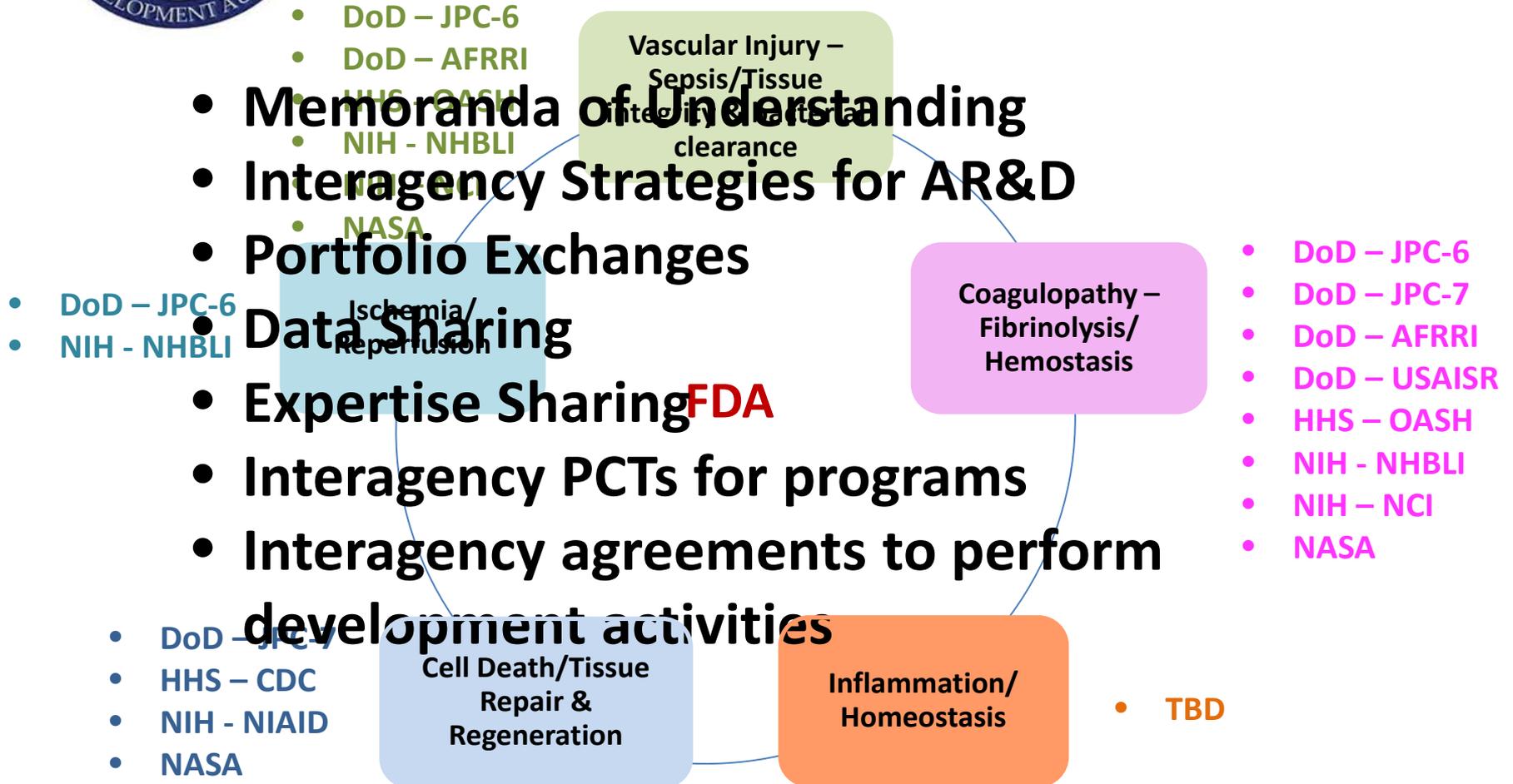
**ASPR**  
ASSISTANT SECRETARY FOR  
PREPAREDNESS AND RESPONSE

\*in Strategic National Stockpile





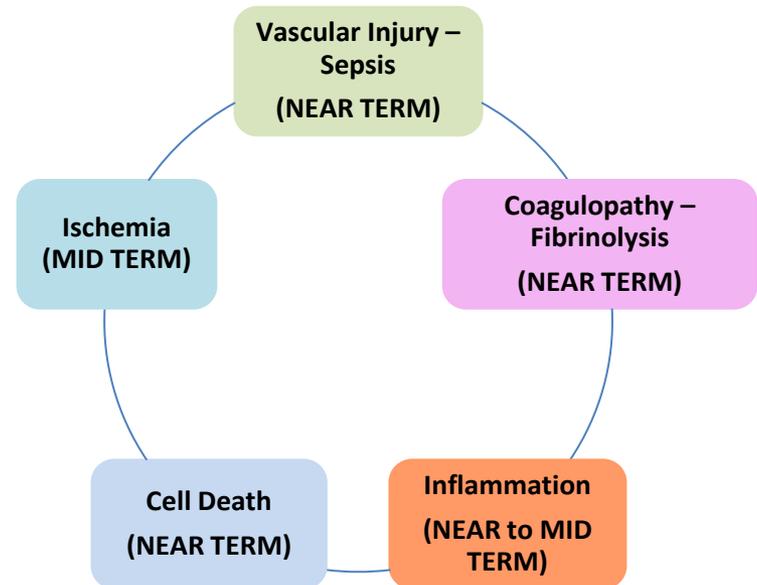
# Interagency Partnerships in MCM Target Areas





# Looking Forward

- Strategy continues with tenets of polypharmacy and repurposing approaches
- Looking to leverage across other threat areas
  - Mechanical trauma
  - Thermal burn
  - Chemical injury
  - Infectious diseases
- Highest treatment priorities
  - Neutropenia (cellular therapies)
  - Thrombocytopenia
  - Vascular injury/Sepsis
  - Coagulopathy/Hemostatic dysregulation
  - UPCOMING: Inflammation





# Online Resources

<https://www.medicalcountermeasures.gov/home.aspx>

- Portal to BARDA: Register to request a **TechWatch** meeting

<https://www.fbo.gov/> ("FedBizOpps")

- Official announcements and info for all government contract solicitations

<https://www.usajobs.gov/>

- Join the team!

<https://www.phe.gov/about/BARDA/Pages/default.aspx>

- Program description, information, news, announcements



Medical  
**Countermeasures.gov**



Public Health Emergency  
*Public Health and Medical Emergency Support for a Nation Prepared*

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"WORKING FOR AMERICA"