BAA – Area of Interest
Improved Respiratory Devices

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Respiratory Protection

• Area of Interest #1: Personal Protective Equipment (Mask & Respirators) for Influenza Infection and All-Hazards
  
  — Offerors for Area of Interest #1 should describe the maturity level of their proposed technology. Proposed activities should offer clinical and public health benefits.
  
  — 1.1 Development and characterization of improved respiratory protective devices (RPD).
  
  — Support for advanced development of improved RPD such as masks or respirators to prevent influenza infections or harmful effects of biological hazards.

  • RPD demonstrate improved features over currently available devices for functionality, usability, comfort, decontamination and re-use, cost efficiency, and durability to support a broad population (e.g., pediatric through adult), with a clear path to NIOSH certification and FDA clearance as applicable.
Need to Further Improve RPD
What We Want for RPD

• Effective

• Comfortable fit

• Special populations

• Re-useable/ low-cost
• **Area of Interest #2: Full-Featured Continuous Ventilators for Influenza Infection and All-Hazards**
  
  — Offerors for Area of Interest #2 should propose activities for products which can currently be described as having a maturity level equal to or greater than Technology Readiness Level (TRL) 6. Proposed activities should offer beneficial clinical and public health impact.

• **2.1 Development of improved full-featured continuous ventilators.**
  
  — Advanced development of new or improved ventilators to provide life support in clinical and nonclinical environments for severe respiratory conditions resulting from influenza infections or all-hazards events.
  
  — Ideal ventilators should support neonate to adult populations, be capable of operation by unskilled or minimally trained care providers, include considerations for ease of stockpiling/maintenance, accommodate/provide accessories typically used in ventilatory standard of care, have a low cost per unit (<$3,000 per fully kitted unit), and accommodate domestic surge production capacity.
Need is for Portable Easy to Use, Low Cost Full Featured Ventilators
What We Want for All Respiratory Devices

• Easy to Use

• Incorporate the Right Technology (universal circuits)

• Low Cost

• Easy to Stockpile (long lasting batteries)

• Effective Across a Broad Population
Thank You