



United States Department of

Health & Human Services

Office of the Assistant Secretary for Preparedness and Response



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



Respiratory Support

- **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



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Thank You