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INdev Atomizer: Universal Intranasal Drug Delivery Device

Scan QR code to see in action 



Technology / Capability Overview:

The INdev device is a universal intranasal drug delivery device that overcomes current intranasal drug delivery limitations and provides rapid on-scene intranasal treatment capabilities to the warfighter.

- Tactical combat casualty care multi-tool
- Attaches to any standard medication vial
- Delivers in any orientation
- Adjustable to a wide range of dosing
- Setup in 5 seconds
- Repeat dosing in 1 second
- Small footprint - size of an inhaler
- Intuitive functionality, rugged design



Relevance to Combatant Command or other Need:

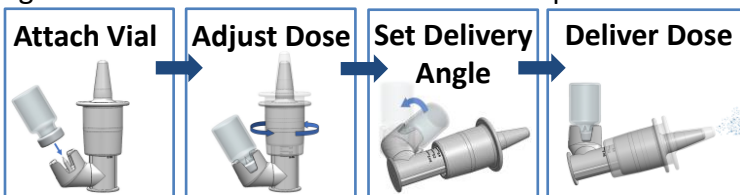
Category* : Force Protection & Medical

Need/Problem: Current treatment options are not suited for on-scene combat casualty care. **Solution:** INdev

- Optimized for combat casualty care – extends the “golden hour”
- Reduces time-to-treatment during combat
- Adds to on-scene and mobile treatment capabilities
- Provides means to treat multi- and mass-casualty scenarios quickly, e.g pain management post IED explosion, biowarfare, WMD
- Facilitates mass vaccination efforts; counter-pandemic/epidemic
- Durable: ideal for remote medical care in austere environments; reduces waste and space in medical kits

Past Performance of Technology and Company:

- Fully functional device with medical-grade materials
- In-house medical device development and regulatory experience
- Confirmed "Class 1 Exempt" regulatory status
- Utility patent pending with favorable IP whitespace analysis
- Comparative benchtop studies prove significant improvement in time-to-treatment against standard of care device
- Verbal agreements with medical distribution companies in civilian sector



Maturity / Scalability / Cost / Schedule

TRL : 5 we have an operational prototype functioning in lab settings

Scaling Considerations:

- Size is roughly 2in x 1.5in x 2.5in
- Designed for high volume production
- Low unit cost on the order of \$2 to produce
- 5yr shelf life

Time to Market WITHOUT financial assistance:

- Approximately 2 to 3 years to commercial ready device
- Applying to multiple SBIR Phase 1
- Seeking external funding with strategic partners

Time to Market WITH financial Assistance:

- \$450,000 reduces timeline to 1 year to commercial ready device

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* Relative to Combatant Command Common Capability Needs Chart at: <https://defenseinnovationmarketplace.dtic.mil/wp-content/uploads/2020/02/CCMD-Common-Capability-Needs-Feb-2020.pdf>