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Exo-Performance™ Ankle Protection

Technology/Capability Overview:

- A unique ankle support system is worn pre-injury and incorporates functional stability technology designed to aid in performance by supporting the ankle at the end range of motion where injury occurs, in turn reducing the risk of ankle injuries
- Provides pre- and post injury protection
- Limits and reduces unnecessary and preventable injuries
- Allows the operator to continue to perform unrestricted
- Designed to mimic the construction of the body
- In the event of an injury, the technology provides customizable support
- Used in a variety of military theaters
- Worn inside of a boot or athletic shoe



IFAST®
(Internal ankle system)

Relevance to DoD Combatant Command or COI:

- 800,000 Service members are affected by musculoskeletal injuries with 78.4% involving the lower extremity. Ankle injuries are the most common type of lower extremity musculoskeletal injury sustained in military operational theaters.
- Ankle injuries are the most common type of lower extremity musculoskeletal injury sustained in military operational theaters, resulting in 25 million limited duty days, costing the Military Health System \$548 million dollars annually.
- After an initial ankle injury has occurred, 70% of people will incur a second injury and 40-50% will experience chronic ankle injuries.

The technology aims to

- Reduce the occurrence of initial and recurring ankle injury, supporting the DoD's goal of military readiness.
- Provide a cost savings by reducing injury and the costs associated with injury, including lost duty days.
- Allow the warfighter to continue to perform unrestricted, enabling optimal performance.

History/Performance of Technology & Company:

- DARI Motion took subjects through a multi-movement protocol and found that the IFAST does not restrict performance but provides equal support as the ASO, the current industry standard.
- In 2019, ARYSE sold over 250,000 orthopedic and performance products and generated over \$12 million in revenue. In 2020, we project to sell around 270,000 products and generate over \$14 million in revenue.
- ARYSE received two (2) Air Force SBIR 20.1 Phase 1 contracts as well as the the Nebraska Department of Economic Development Prototype Grant.
- ARYSE successfully moved 5 products from concept to completion in 2019: IFAST® (ankle support), XFAST® (ankle support), SFAST® (shoulder support), OSKIE® (shoulder support), and HAMMY® (hamstring support).
- Patents: IFAST: Utility & Design, Trademarks: IFAST®
- The ARYSE Product Development Team includes athletic trainers and orthopedic surgeons, and input from military medical personnel.

Maturity/Scalability/Cost/Schedule:

TRL: IFAST: 9

The IFAST (Version one) has been commercialized and operated under the full range of operating conditions and environments.

Scalability:

- Mass Production: 6 months - 20,000 units per month, 12 months - 100,000+ units per month.
- Time to Market under Current Conditions: The IFAST entered the market in June 2019. Our medical-grade product line produces enough revenue to support moderate research and development efforts.
- Additional funding could assist in creating a military grade product to current DoD footwear.