



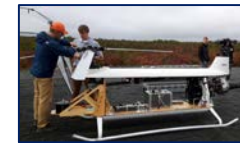
# USAMRDC Good News Story



## U.S. Army Medical Research and Development Command

### *No Pilot, No Problem: Unmanned “Flying” Laboratory Lifts Off in USAMRDC First*

- On October 29, the first flight and demonstration of the DP-14 Unmanned Aerial System (UAS) was held at the Warren Grove Gunnery Range, in New Jersey.
- The DP-14 project seeks to provide a "flying" laboratory designed to enable research of emerging UAS and autonomous en-route care systems as a means to augment traditional medical resupply and casualty evacuation (CASEVAC) efforts in austere environments.
- The project originated from the USAMRDC's Telemedicine and Advanced Technology Research Center (TATRC) and was developed under a JPC-6 funded research project entitled, "Emergency Medical Resupply and En-route Care UAS Research Platform".
- The flight successfully demonstrated the project's Phase I accomplishments, including guiding the DP-14 craft to an airworthy condition, and displaying the integration of the Environmental Factors Data Acquisition System (EFDAS) system –developed by the USAMRDC's U.S. Army Aeromedical Research Lab (USAARL)– to measure conditions affecting patient safety during flight.
- Upcoming testing phases will involve full-scale autonomous flight in 2Q of FY2020, followed by demonstration of onboard en-route care remote patient monitoring capabilities and, lastly, the Autonomous Critical Care System (ACCS) designed to enable remotely-directed intervention.



Images from DP-14 UAS initial test flight on October 29, 2019, at the Warren Grove Gunnery Range, in New Jersey (Photos courtesy TATRC).

**OUTCOME:** By leveraging emerging technology to develop faster, more efficient methods of medical resupply and CASEVAC, the USAMRDC is ensuring Warfighter resiliency and maintaining the Army's competitive advantage over potential adversaries.