Collaborative Project between JIIT NOIDA and ICMR for Delivery of blood bags via i-Drones.

A study on validation of Blood bags being transported by DRONES is being conducted at Jaypee Institute of Information Technology, Noida (JIIT). JIIT is part of this prestigious ICMR-funded project with site Principal Investigator Prof. Pammi Gauba (HOD, Department of Biotechnology & Dean Academics and Research, JIIT NOIDA) and site Co Investigator Prof Shweta Dang from Department of Biotechnology, JIIT Noida. JIIT campus served as the implementing site for drone sorties.

The inauguration ceremony for the study titled 'Validation of blood bag Delivered by Drones compared to conventional method of transportation' was conducted at JIIT campus on 10th May 2023. The Chief Guest, Dr. Rajiv Bahl, Director General, Indian Council of Medical Research graced the occasion with his presence at JIIT NOIDA campus.

The event was also attended by other dignitaries from the Ministry of Health and Family Welfare, Directorate of Health Research, National Health Systems Resource Centre, Directorate General Health Services, and NITI Aayog. The inaugural flight in this validation study carried 10 units of whole blood samples from GIMS and LHMC.

The research teams from the Indian Council of Medical Research (ICMR), Lady Hardinge Medical College (LHMC), New Delhi, Government Institute of Medical Sciences (GIMS), Gr. Noida and Jaypee Institute of Information Technology, Noida (JIIT) checks for the feasibility and validation of drones for transferring blood bags and blood components as compared to conventional transportation methods (via road) and will further conduct drone flights to validate the quality of blood samples.

The protocol development, study designing, implementation, and coordination of the project is being undertaken by Prof. Shweta Dang from JIIT, Noida along with Dr. Sumit Aggarwal, Dr. Kuldeep Nigam, and Dr. Nupur Mahajan from ICMR-Headquarters. The whole programme for the study was headed under the supervision of Prof. Pammi Gauba.



















कार्डोसल ऑफ मेडिकल राष्ट्रीय स्वास्थ्य प्रणाली रिसर्च (ICMR) गवर्नमेंट संसाधन केंद्र, महानिदेशालय इंस्टीट्यूट ऑफ मेडिकल स्वास्थ्य सेवा और नीति आयोग सहंसेज, डेटर नोएडा, लेडी के गणमान्य व्यक्तियों द्वारा हार्डिंग मेर्डिकल कलिज किया गया था। कार्यक्रम के (LHMC), नई दिल्ली और मुख्य अतिथि डॉ. राजीव जेपी इंस्टोट्यूट ऑफ बहल, महानिदेशक, भारतीय इसमित टक्सान क १०००, बोह्स के सहयो में गुणवा और मंदिव स्वस्थ्य अनुकार के सत्यापन स. एक अध्ययन विचाग, चारत सरका थे। प्रणाबत के भारत की इस सत्यापन इंफॉर्मेशन टेक्नोलॉजी (JIIT), चिकित्सा अनुसंधान परिषद होन द्वारा वितरित बनाड बैग को GIMS और LHMC से पूरे संख्या। इस सत्यापन अध्ययन रक्त के 10 युनिट नमूने लिए।



का उद्धारन 10 माँ 2023 को यह होने सीटी आह में राकेश मुखा ने बताय कि यह चिकित्सा परिवान और रक्त समन्वर किया जा ता है। यह चीनवें और पटकों की हिल्लेकी वेची सूचना प्रौद्योगिकी आयोजिन विजुलन लाइन एक अपनी सत्त्वापन अध्ययन और रक उत्तादों के समय पर आईसोएमआर-विसागीपन के लिए व्यापक प्रयोग्यक और संस्थान, नोहरत में स्थास्थ्य और साहर में थी। होण। इस अज्यादन के निकर्ष बितरण की इस पढ़ीन को परिखेतन परिखेतन के इन्हम होन के उपयोग के लिए एसओपी और परिवार करन्याण मंत्रासच, जीआरंप्यपस के निदेशक प्रो. हमें दूसच और दुर्मन क्षेत्रों में अपनाने में व्यावकारिक अनेककों, प्रो. शांतिनी बाहरूर का विकास होगा

पुनीतियों के बारे में जानकारी और प्रे. रंग पाठक, गयनीट प्रदान करेंगे। इस अध्ययन में इंस्टीट्यूट ऑफ मेडिकल एलएचएमसी और सहसेत, हेटर रोग्ड, प्रो. पर्या जीआईएमएस को रक्त बैन की गीबा (जेआईआईटी), प्रो. आपूर्ति के केंद्र के रूप में अनीत नांगिया और प्रो. के शामिल किया रख है जमूनों मार्गदर्शन में संचलित की जा रही का परीक्षण, जबकि, आ। द्वेन है। लेखे हर्डिन मेडिकल कॉलेज सीटिंवों के लिए कार्यान्वयन से संगीत शहनाशलएचएमसी, बेंद्र के रूप में कार्य कर रहा जीआईएमास और जेअईआईटी है। आईसीएमआर-मख्यालय के जांचकर्ता इस अध्ययन में पैक से डॉ. सुमित अग्रयाल, डॉ. को खं लाल रक कोशिकाओं. कुलदीप निरम और डॉ. नुरूर जाजा जने हुए स्लाम्स, प्लेटसेट्स महाजन द्वारा प्रोटोकॉल की गुणकत को मान्य करने के विकास, अध्ययन डिजाइनिंग, लिए आने होन उड़ानें संचालित कार्यन्वस और परियोजन का करेंगे। इस अध्यस से रक्त की

ICMR carries out safe trial of blood delivery via drone

DurgeshNandan_Jha

@timesgroup.com

New Delhi: The Indian Council of Medical Research
(ICMR) on Wednesday few 10
units of whole blood samples
using drone technology for 40
minutes—time taken by an ambulance to transport a similarset of blood samples from Delhi's Lady Hardinge Medical
College (LHMC) to the Government Institute of Medical Sciences (GIMS) in Noida, UR.
Tests conducted post this
exercise to check the viability
exercise to the control and other
key parameters showed samples flown using drone technology were as safe for use as the
onescarried in the ambulance.

ICMR has been a pioneer in
using drones for healthcare
purposes and successfully
ounducted the delivery of medical supplies, vaccines, and
medicines in remote areas of
Manipur and Nagaland. The
drone-based delivery of blood
will reduce the time for lastfrome-based delivery of blood
will reduce the time for lastmedical transport of the delivery of medical supplies, vaccines, and
medicines in remote areas of
Manipur and Nagaland. The
drone-based delivery of blood
will reduce the time for lastmedical transport of the delivery of medical supplies, vaccines, and
for the delivery of medical supplies, vaccines, and
medicines in remote areas of
Manipur and Nagaland. The
dword of the delivery of medical supplies, vaccines, and
medical supplies, vaccines, and
for the delivery of medical supplies, vaccines, and
medical supplie



The 'I-DRONE' used in the trial was first used during the pandemic for distributing vaccines to unreachable areas

ting vaccines to unreachable areas. "Today, we are transporting blood & blood-related products, which are supposed to be kept at a low temperature. After the experiment, we found that not only can we maintain the temperature, but there was also no damage to the products transported," Dr Bahl said.

The investigators from

Dr. Britania analysis etc.
Dr. Britania analysis etc.
This interestigators from
LHMC, GIMS and the Jaypee
Institute of information Technology (JITT), which is acting
as the implementation centre
for drone sorties, will further
conduct drone flights for validating the quality of packed real
blood cells, fresh frozen plasma,
platelets under the trial project,
officials said.

will provide scientific evidence from India for examining the impact of drone transportation on blood products. This study will lead to development of Standard Operating Procedures (SOPs) for wider applicability and use of drones for delivery of blood bags and the components. Additionally, it will provide answers to whether drones shall be used as a method of transportation for temperature sensitive blood products in remote locations of the country," the health ministry said.

"Making Indian Health-care Future-ready with "Drone. Trial run of blood bag delivery by drone successfully conducted. Inaugural light carried 10 units of whole blood samples from Govt Institute of Medical Sciences & Lady Hardinge Medical College, for the first time in India," Union health minister Mansukh Mandaviya tweeted, while sharing a video of the 1-drone carrying a blood bag.

The blood samples were transported between LHMC and GMS using the drone because the aerial route between the two selected destinations fell under yellow zone.

https://theprint.in/india/blood-bag-delivery-by-drones-is-now-possible-in-india-for-firsttime/1565890/

https://twitter.com/mansukhmandviya/status/1656295748076707845?t=kSU6QB3N92kkGRjQ9dAd1 w&s=08