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Title: Portable Phlebotomy Box with Non – Electric Blood Mixer

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Phlebotomy box is a cold storage carrier for blood samples. In the current scenario, the thermo coal box is used for the storage of blood sample, in which cooling is maintained with the help of ice cubes. But ice cubes cannot sustained the temperature for the longer time duration and unfortunately will result into hemolysis of the RBC, due to that accuracy of the laboratory result will be affected. In a global-health context, commercial phlebotomy box, blood mixer and centrifuges are expensive, bulky and electricity-powered, and thus constitute a critical bottleneck in the development of decentralized, battery-free point-of-care diagnostic devices. Portable Phlebotomy box is one of the recent developments in the field of in vitro diagnostic medical devices. Cooling temperature of the phlebotomy box will be around 5 degree celsius temperature, which will be enough to avoid rupturing of RBC. 3D Printed Blood mixing dish, which will be electric free and at an economically low cost. Cold storage through peltier effect, Non electric Blood mixer and hand powered centrifuge will open up opportunities for point-of-care diagnostics. It will be a step towards the mobile pathology laboratory in the rural areas and the regions where healthcare is not developed, the result will be accurate and will not be time consuming.

Figures:






Biography

Meet Jaydeepbhai Jethva is pursuing Master`s program in Biomedical Engineering at the age of 22 years from University of Ottawa and he completed his graduate studies from Gujarat Technological University at the L. D. College of Engineering from India. He is the junior Scientist at his department at L. D. College of Engineering and a research scholar at various international and national organization. He has published 3 research papers in reputed journals, additionally

registered a patent (on going) for his IVD medical equipment and has been serving as an editorial board member, organizer, coordinator, scientific reviewer and core team member in various international and national conferences, workshops and seminars. He has also been invited as a chairperson and keynote speaker at various international and national conferences. He has completed 7 major innovative medical equipment project and 11 minor medical device project. He has also received various testimonials and several financial aids from medical manufacturers for turning his novel idea into business.

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