

Labenko Bilişim A.Ş.

PHLEROBO Robotic Outpatient Phlebotomy Patient Flow Management System

Economic Impact and Technical Features



The Fastest Patient Flow System In Blood Testing

Economic Impact and Technical Features

PHLEROBO Robotic Outpatient Phlebotomy Patient Flow Management System

PHLEROBO coordinates patient flow, offers robotic blood tube labelling and presentation to the phlebotomist directly, exposes patient load and receives bookings for desired time interval through a mobile patient-facing app, supports kiosk or mobile based self-check in, routes audio-visual service calls to LCD or mobile and notifies patients when test results are ready. PHLEROBO makes possible blood collection at a single point of contact and social distancing.

PHLEROBO Robotic Outpatient Phlebotomy Patient Flow Management System

Patent Date / No	29.06.2017 / 001836 PHLEROBO (System) 31.10.2019 / 2019/16807 NESLI (Robot)
Patent Title	System: System for single point contact blood collection Robot: Programmable AI-based robot for blood tube labelling
Trademark No	2017 98132 (PHLEROBO) 2019 41289 (NESLI)
R&D Support (TUBITAK)	PHLEROBO MANAGEMENT OF BLOOD COLLECTION UNTT USING AI 2019 - 2020 Project No: 7190244
Application Area	Outpatient phlebotomy
Economic and Operational Impact	<ul style="list-style-type: none"> • Eliminates the need for manual blood tube labelling, provides standardization in labelling • Predicts and prevents patient load build up, provides social distancing opportunity • Provides blood collection at single point of contact • Prevents human errors • Facilitates significantly faster patient service times
Basic Components	<ul style="list-style-type: none"> • Master algorithm for coordination of patient flow, devices • A patient-facing mobile app • Coordinated robots for tube labelling • Notifications to patients when test results are ready • Audio-visual service call infrastructure, LCD, kiosks • Phlebotomists' screens
Tube Labelling Capacity	<ul style="list-style-type: none"> • One robot serves two phlebotomists • Upto 360 tubes labelled per hour
Tube Types Supported	<ul style="list-style-type: none"> • Standard blood tubes, unlimited number of tube types • Unlimited number of extra label printing
Patient Flow Performance	<ul style="list-style-type: none"> • Upto 3,5 times faster than conventional queue systems
Validation Study	SB University Tepecik EAH Research Hospital (2020)
Production Center	DE University DEPARC Health Technopark, Balcova, İzmir
Technology	Proprietary AI Algorithms, tube labelling robots, mobile app, LCDs, Kiosks, phlebotomist and administrative user interfaces
NESLI Robot Warrant Period	Expected life time 10 years Warranty against production errors 2 years Free technical support 1 year
HIS/LIS Integration	Integration is provided for free. Customer is responsible for work needed on the HIS/LIS side
Savings from personnel costs	Upto \$20.000,00 per annum for 10 years
ROI	12 months
Product web page	https://labenko.com/PhleroboShortEN.html (System) https://labenko.com/NesliEN.html (Robot)
Contact	info@labenko.com 0232 277 5559 / 0533 221 6066