

A Point-of-Care Method with Integrated Decision Support Tool to Estimate Anemia at Population Level

Little Flower Augustine¹, Teena Dasi¹, Ravindranadh Palika², Bharati Kulkarni¹, Raghu Pullakhandam², Divya Teja Pasupuleti¹, Santosh Kumar Banjara¹

¹Clinical Division, ICMR-National Institute of Nutrition ²Food and Drug Toxicology Division, ICMR-National Institute of Nutrition

Corresponding Author

Santosh Kumar Banjara
santosh.kumar@icmr.gov.in

Citation

Augustine, L.F., Dasi, T., Palika, R., Kulkarni, B., Pullakhandam, R., Pasupuleti, D.T., Banjara, S.K. A Point-of-Care Method with Integrated Decision Support Tool to Estimate Anemia at Population Level. *J. Vis. Exp.* (2023), e65810, doi:10.3791/65810 (2024).

Date Published

January 19, 2024

DOI

10.3791/65810

URL

jove.com/video/65810

Materials

Name	Company	Catalog Number	Comments
ABX Miniclean	Horiba Ltd, Japan	23-450-004	Enzymatic solution
ABX Minidil LMG	Horiba Ltd, Japan	23-450-008	Buffered isotonic solution for RBC/PLT dilution, sleeving and cleaning
ABX Minilyse	Horiba Ltd, Japan	23-450-006	Hb measurement; lysing solution
ABX Minocal	Horiba Ltd, Japan	2032002	Calibrator
ABX Minoclair	Horiba Ltd, Japan	23-450-003	Cleaning reagent
ABX Minotrol 16 - 2H	Horiba Ltd, Japan	2042209	Blood control
ABX Minotrol 16 - 2L	Horiba Ltd, Japan	2042208	Blood control
ABX Minotrol 16 - 2N	Horiba Ltd, Japan	2042202	Blood control
Autoanalyzer	Horiba Ltd, Japan	ABX Micros ES 60	The FTP port should be functional
Barcode printer	Technology service corporation, USA	TSC Model TE 244	400 Mhz 32 bit RISC processor with 16 MB SDRAM, 8 MB Flash memory
Barcode Scanner	Retsol	LS-450	Any company which can provide a scanner with the following specifications: 32 bit CPU fast decode ability, IP 54 rated, Light source – visible laser diode 650 nm, Single scan pattern with scan rate of 100scans/second, Scan width of 200 mm & precision of 4 mil, Scan angle – YAW 65 Deg, Rotation 30 Deg & Pitch 55 Deg, Scan indication – buzzer, light indicator, Scan mode both manual & continue scanning
BD needles holder	Becton, Dickinson and company Ltd, Dublin, Ireland	364879	
Contact activated lancet	Becton, Dickinson and company Ltd, Dublin, Ireland	366594, 366593	For children below 1 year, venous blood sample has been collected.
Custom software	Kavin Corporation, Bangalore	N/A	
K2-EDTA Microtainer-5 mL	Becton, Dickinson and company Ltd, Dublin, Ireland	363706	EDTA tube for blood profile analysis with 1.0 mg K2 EDTA, dimensions 13 x 75 mm

Labels	G-Technologies, Secunderabad, telangana	N/A	
Laptop	Any	N/A	Intel Core I3-1005G1, 8GB DDR4, 1TB HDD, 15.6 FHD LED, WIN 11 HOME and MS OFFICE H&S