

Materials List for

Clinical Application of Phase Angle and BIVA Z-Score Analyses in Patients Admitted to an Emergency Department with Acute Heart Failure

Fernanda Bernal-Ceballos^{1,2}, Lilia Castillo-Martínez³, Yunuen Reyes-Paz³, José Luis Villanueva-Juárez³, Thierry Hernández-Gilsoul⁴

¹Master's and Doctoral Program in Medical, Dental, and Health Sciences, National Autonomous University of Mexico ²Faculty of Higher Studies Ignacio Zaragoza, National Autonomous University of Mexico ³Clinical Nutrition Service, National Institute of Medical Sciences and Nutrition Salvador Zubirán

⁴Emergency Department, National Institute of Medical Sciences and Nutrition Salvador Zubirán

Corresponding Author

Lilia Castillo-Martínez
cam7125@gmail.com

Citation

Bernal-Ceballos, F., Castillo-Martínez, L., Reyes-Paz, Y., Villanueva-Juárez, J.L., Hernández-Gilsoul, T. Clinical Application of Phase Angle and BIVA Z-Score Analyses in Patients Admitted to an Emergency Department with Acute Heart Failure. *J. Vis. Exp.* (196), e65660, doi:10.3791/65660 (2023).

Date Published

June 30, 2023

DOI

10.3791/65660

URL

jove.com/video/65660

Materials

Name	Company	Catalog Number	Comments
Alcohol 70% swabs	NA	NA	Any brand can be used
BIVA software 2002	NA	NA	Is a software created for academic use, can be download in http://www.renalgate.it/formule_calcolatori/bioimpedenza.htm in "LE FORMULE DEL Prof. Piccoli" section
Chlorhexidine Wipes	NA	NA	Any brand can be used
Examination table	NA	NA	Any brand can be used
Leadwires square socket	BodyStat	SQ-WIRES	
Long Bodystat 0525 electrodes	BodyStat	BS-EL4000	
Quadscan 4000 equipment	BodyStat	BS-4000	Impedance measuring range: 20 - 1300 Ω ohms Test Current: 620 μA Frequency: 5, 50, 100, 200 kHz Accuracy: Impedance 5 kHz: +/- 2 Ω Impedance 50 kHz: +/- 2 Ω Impedance 100 kHz: +/- 3 Ω Impedance 200 kHz: +/- 3 Ω Resistance 50 kHz: +/- 2 Ω Reactance 50 kHz: +/- 1 Ω Phase Angle 50 kHz: +/- 0.2° Calibration: A resistor is supplied for independent verification from time to time. The impedance value should read between 496 and 503 Ω.