March 28th, 2018

Dear Editors,

we would greatly appreciate your taking into consideration our research article entitled *“Fast blood impedance measurements as quality indicators in the pre-analytical phase to prevent laboratory errors”* for publication in the Special Issue of ACTA IMEKO.

Responding to your invitation, we have extended and improved the version of the paper presented and selected at the 22-nd Imeko TC-4 Symposium, hold in Iasi, Romania, September 2017.

The major points of extension involve:

1. **title**: the original title have been changed;
2. **references**: two references were added and one reference was changed with an article similar, but more recent;
3. **measurements**: more blood donors were involved and, consequently, more measurements were acquired, in order to perform an adequate signals analysis and obtain more complete results, expressing and plotting all of them in terms of mean and standard deviation;
4. **equivalent circuit**: inferring on the numerical results obtained, we changed the equivalent circuit proposed with a new circuit (without the original resistance R2 in series) because the new one revealed to be more correct to represent our specific measurement experimental system;
5. **additional results**: two subsections were added, to illustrate the quantitative analysis for an optimal frequency identification and investigate the correlation between the magnitude of impedance and the hematocrit.

Best Regards

Denise De Zanet