<http://ajcc.aacnjournals.org/content/26/5/408.short>

mpedance cardiography had low accuracy and precision in measuring absolute stroke volume and was a poor detector of stroke-volume trends.

<https://infoscience.epfl.ch/record/233710>

We concluded that EIT amplitude-based SV estimation can easily be impaired by various factors such as electrode contact or small changes in posture. Therefore, this approach might be limited to controlled environments with the least possible changes in ventilation and posture. Future research should scrutinize the lung amplitude-based approach in dedicated simulations and clinical trials.

<https://link.springer.com/article/10.1007/s11517-017-1752-5>

neural network, SV

<https://link.springer.com/article/10.1007/BF00637491>

Comparison of Impedance Cardiography and Echocardiography for Measurement of Stroke Volume

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4621712/>

bernstain 2015

impednace of hand and MRI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3391359/>

SV, CO, BP review

Estimation of CO from pressure curve

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3391359/figure/Fig2/>

Nexfin

<https://www.ncbi.nlm.nih.gov/pubmed/23365852>

bernstain SV from PWV

<https://pdfs.semanticscholar.org/bd63/c384dc6555a968601fc139ea2d2d9134d5b1.pdf>

bioimpedance vs echo

<https://rd.springer.com/article/10.1007/s004210000226>

porovnanie

Fick invazivna, spotreba kyslika

Physio flow

Zaver 9-20% rozdiely

<https://rd.springer.com/article/10.1007/s00246-017-1725-3>

physioflow

<https://www.sciencedirect.com/science/article/pii/S1872931212000245>

opakovanie merania

vysledok:

opakovane merania-podobne vysledky

Icg problems

5 Although considered the de-facto gold standard for cardiac output measurement in anaesthesia, thermodilution is less accurate than measurement using the Fick principle, the technique regarded by most as the most accurate measure of cardiac output.6

Correlation, not good tool for evaluation

Metodologia:

Ako san a cardiac output podiela lvet, hr a ako dzdtmax, plocha tela? Podozrenie na zanedbavanie dzdtmax, interpolovanie

http://apps.webofknowledge.com/full\_record.do?product=WOS&search\_mode=GeneralSearch&qid=23&SID=D2bei8FoDIRbmaVzvxl&page=1&doc=5&cacheurlFromRightClick=no

Conclusions Impedance cardiography had low accuracy and precision in measuring absolute stroke volume and was a poor detector of stroke-volume trends.

https://journals.lww.com/anesthesia-analgesia/Fulltext/2012/04000/Poor\_Accuracy\_of\_Noninvasive\_Cardiac\_Output.15.aspx

PhysioFlow®, NeuMeDx, Bristol, PA

 Bland-Altman analysis

intrathoracic blood volume (ITBV, VITBV).

Bernstain2010

Physiologically, ITBV has been

shown to be highly correlated with left ventricular preload,

as expressed by left ventricular end-diastolic volume

(LVEDV), and thus with absolute values for SV and

directional changes thereof [58–61].

25% of TBV, or about 17.5 mL⋅ kg–1, which results in

VITBV = 17.5 x Wkg, or equivalently 16Wkg

1.02 [37,67]

Podiel jednotlivych parametrov na vypocte SV