

Aortic augmentation index is dependent on bodyside in healthy young subjects

Einstein, Sandra; Pilt, Kristjan; Palmar, Merlin; Meigas, Kalju; Viigimaa, Margus High Blood Pressure & Cardiovascular Prevention 2019 / p. 375–382 : ill <https://doi.org/10.1007/s40292-019-00335-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Arterite jäikus ja kardiovaskulaarne risk

Pilt, Kristjan; Viigimaa, Margus Lege Artis : ajakiri Eesti arstidele 2020 / lk. 47-50 : ill https://www.ester.ee/record=b1575283*est <https://www.med24.ee/ajakirjad/legeartis/aprill-2020/arterite-j%C3%A4ikus-ja-kardiovaskulaarne-risk>

Assessment of associations between arterial mechanical properties and biochemical blood markers for early detection of atherosclerosis

Kööts, Kristina; Pilt, Kristjan; Sepa, Madis; Pikta, Marika; Fridolin, Ivo; Meigas, Kalju; Viigimaa, Margus 8th European Medical and Biological Engineering Conference : proceedings of the EMBE 2020, November 29 – December 3, 2020 Portorož, Slovenia 2021 / p. 121-129 https://doi.org/10.1007/978-3-030-64610-3_15 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Association between optical signal derived aortic augmentation index and cardiovascular risk factors in healthy volunteers

Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kööts, Kristina; Meigas, Kalju Reports on global health research 2020 / art. 119, 8 p. : ill <https://doi.org/10.29011/rghr-119.100019> <https://www.gavinpublishers.com/article/view/association-between-optical-signal-derived-aortic-augmentation-index-and-cardiovascular-risk-factors-in-healthy-volunteers>

Aterogeensete lipoproteiinide määramine Euroopa uusimate soovitude alusel

Serg, Martin; Zemtovskaja, Galina; Viigimaa, Margus Eesti Arst 2021 / lk. 295-299 : ill http://www.ester.ee/record=b1072028*est <https://ojs.utlib.ee/index.php/EA/article/view/17432>

Comparison of platelet aggregation in venous and arterial blood

Kobzar, Gennadi; Mardla, Vilja; Rätsep, Indrek; Samel, Nigulas Journal of thrombosis and haemostasis 2003 / Supplement 1, abstracts from XIX International ISTH Congress : July 12-18, 2003, p. CD077

Correlation between aortic stiffness and conventional risk factors with coronary atherosclerosis

Zemtovskaja, Galina; Zemtovski, Mihhail; Abina, Jelena; Samarin, Andrei; Meigas, Kalju; Viigimaa, Margus Cardiology 2015 / p. 39 <https://www.karger.com/Article/Abstract/431110>

Correlation between electrical bioimpedance and pressure waveform in radial artery and in mechanical pulsating pipe system

Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Märten, Olev 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020 <https://doi.org/10.1109/I2MTC43012.2020.9128972>

Determinants and a predictive equation for the aortic length estimation

Zemtovskaja, Galina; Samarin, Andrei; Abina, Jelena; Meigas, Kalju; Viigimaa, Margus International journal of innovative research in science, engineering and technology 2016 / p. 3336-3350 : ill https://www.ijirset.com/upload/2016/march/115_Determinants_hard_foriegn.pdf

Influence of mental stress on the arterial stiffness parameters detected from photoplethysmographic signal waveform

Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Allik, Ardo; Uudeberg, Tuuli 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 4 p <https://doi.org/10.1109/BEC56180.2022.9935609>

In-vitro investigation of flow profiles in arteries using the photoplethysmograph

Pilt, Kristjan; May, James M.; Kyriacou, Panayiotis A. Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2021 / p. 7211-7214 <https://doi.org/10.1109/EMBC46164.2021.9629713> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Mathematical and physical modelling of atherosclerosis in terms of the alterations of the dynamic electrical impedance of the arteries

Giannoukos, Georgios Numerical analysis and applied mathematics ICNAAM 2012 : international conference of numerical analysis and applied mathematics 2012 / p. 2174-2177 <https://ui.adsabs.harvard.edu/abs/2012AIPC.1479.2174G/abstract>

Mathematical and physical modelling of the dynamic fluidic impedance of arteries using electrical impedance equivalents

Giannoukos, Georgios; Min, Mart Mathematical methods in the applied sciences 2014 / p. 711 - 717 : ill <https://doi.org/10.1002/mma.2829> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Measurements of arteries by laser

Meigas, Kalju Estonian Science Foundation 2008 2009 / p. 17-18 : ill

Noninvasive acquisition of the aortic blood pressure waveform

Min, Mart; Kõiv, Hip; Priidel, Eiko; Pesti, Ksenija; Annus, Paul Wearable devices 2019 / 16 p. : ill
<https://doi.org/10.5772/intechopen.86065>

On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood

Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märten, Olev Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optical pulse wave signal analysis for determination of early arterial ageing in diabetic patients = Optilise pulsilaine signaali analüüs arterite varase vananemise määramiseks diabeedihaigetel

Pilt, Kristjan 2014 https://www.ester.ee/record=b3049979*est

Photoplethysmographic signal rising front analysis for the discrimination of subjects with increased arterial ageing

Pilt, Kristjan; Meigas, Kalju; Kõõts, Kristina; Viigimaa, Margus Proceedings of the Estonian Academy of Sciences 2014 / p. 221-226 : ill

Photoplethysmographic signal waveform index for detection of increased arterial stiffness

Pilt, Kristjan; Ferenets, Rain; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus Physiological measurement 2014 / p. 2027-2036 : ill <https://doi.org/10.1088/0967-3334/35/10/2027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Professor Margus Viigimaa: "Süda hakkab vananema juba sündides"

Grün-Ots, Ille; Viigimaa, Margus Eesti Päevaleht 2006 / 26. sept., B, lk. 6 <https://epl.delfi.ee/artikkel/51057775/professor-margus-viigimaa-suda-hakkab-vananema-juba-sundides>

Pulse parameters registration using self-mixing in a diode laser as optical coherent method

Meigas, Kalju; Kattai, Rain; Lass, Jaanus Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 93-96: ill

Pulse wave parameters as indicators of the state of the arteries

Hinrikus, Hiie; Lass, Jaanus; Karai, Deniss; Tepner, Ingrid Proceedings of 2nd European Medical & Biological Engineering Conference EMBEC'02. 1 2002 / p. 642-643

Pulsilaine meetod laseb kiiresti ja valutult hinnata arterite olukorda : [TTÜ teadlaste poolt väljatöötatud seadme]

Viiron, Kristiina Eesti Päevaleht 2014 / lk. 7 <https://epl.delfi.ee/artikkel/68771751/pulsilaine-meetod-laseb-kiiresti-ja-valutult-hinnata-arterite-olukorda?url=%2Fnews%2Ftervis%2Farticle.php>

Ravimata süda hävitab meeste voodirõõmud

Viigimaa, Margus Postimees 2021 / Lk. 16-17 : ill <https://dea.digar.ee/article/postimees/2021/04/21/15.2>

Second derivative photoplethysmographic signal analysis of differences between fingers in healthy subjects [Online resource]

Pilt, Kristjan; Silluta, Sandra; Palmar, Merlin; Karai, Deniss; Meigas, Kalju; Viigimaa, Margus BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2019 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600985>

Simulation of the sensitivity distribution of four-electrode impedance sensing on radial artery

Pesti, Ksenija; Kõiv, Hip; Min, Mart 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/SAS.2019.8705976>

System for bioimpedance signal simulation from pulsating blood flow in tissues

Gordon, Rauno; Pesti, Ksenija Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 51-58 : ill

The aortic pulse wave velocity estimation for arterial stiffness assessment

Pilt, Kristjan; Kõõts, Kristina; Meigas, Kalju; Šamarin, Andrei; Zemtsovskaja, Galina; Viigimaa, Margus 6th European Conference of the International Federation for Medical and Biological Engineering, MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia 2015 / p. 294-297 https://doi.org/10.1007/978-3-319-11128-5_73 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The role of calcium and phosphate in medial vascular calcification

Holmar, Jana; Jankowski, Joachim; Alampour-Rajabi, Setareh International journal of artificial organs 2019 / p. 386-474 <https://doi.org/10.1177/0391398819860985>

Update of the position paper on arterial hypertension and erectile dysfunction

Viigimaa, Margus; Vlachopoulos, Charalambos; Doulas, Michael; Wolf, Jacek; Imprialos, Konstantinos; Terentes-Printzios,

Dimitios; Ioakeimidis, Nikolaos; Kotsar, Andres; **Kiitam, Urmo** Journal of hypertension 2020 / p. 1220-1234

<https://doi.org/10.1097/HJH.0000000000002382> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Waveform analysis of peripheral pulse wave detected in the fingertip with photoplethysmograph

Hlimonenko, Irina; **Meigas, Kalju**; Vahisalu, Rein Proceedings of the 4th International Conference Measurement : Smolenice, Slovak Republic, 2003 2003 / p. 234-237 <https://www.measurement.sk/2003/S2/Hlimonenko.pdf>