

A healthier chip?

Ubar, Raimund-Johannes; Fridolin, Ivo; Meigas, Kalju; Min, Mart Public service review : European Union 2010 / p. 132-133 : ill

Accurate dialysis dose evaluation and extrapolation algorithms during online optical dialysis monitoring

Fridolin, Ivo; Karai, Deniss; Kostin, Sergei; Ubar, Raimund-Johannes IEEE transactions on biomedical engineering 2013 / p. 1371-1377 : ill

Activity classification for real-time wearable systems : effect of window length, sampling frequency and number of features on classifier performance

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert 2016 IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES) : Kuala Lumpur, 4-8 December 2016 2016 / p. 460-464 : ill
<https://doi.org/10.1109/IECBES.2016.7843493>

Advancing novel physical fatigue assessment and human activity monitoring methods towards personalized feedback with wearable sensors = Kantavatel seadmetel põhinevate füüsilise väsimuse hindamise ning inimese aktiivsuse monitoorimise meetodite arendamine personaalseks tagasisideks

Allik, Ardo 2022 <https://doi.org/10.23658/taltech.62/2022> <https://digikogu.taltech.ee/et/Item/230f302e-0cf1-4b86-a9d3-0927a51b36e2>
https://www.ester.ee/record=b5525012*est

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 EMBEC 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](#)

Behaviour of uremic toxins and UV absorbance in respect to low and high flux dialyzers

Lauri, Kai; Arund, Jürgen; Tanner, Risto; Jerotskaja, Jana; Luman, Merike; Fridolin, Ivo Estonian journal of engineering 2010 / 1, p. 95-106 : ill

Biomeditsiinitehnika - tehnoloogia tervise heaks

Hinrikus, Hiie; Bachmann, Maie; Pilt, Kristjan; Meigas, Kalju; Fridolin, Ivo Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 48-58 : ill https://www.ester.ee/record=b5208765*est

Biomeditsiinitehnika tehnomeedikumis, ehk, "Kas haigus hüüab tülles?"

Fridolin, Ivo Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 248-252

CEBE - Centre for Integrated Electronic Systems and Biomedical Engineering

Fridolin, Ivo; Min, Mart; Ubar, Raimund-Johannes The parliament magazine's research review : European research & innovation 2009 / p. 35

Classification algorithm improvement for physical activity recognition in maritime environments

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 3) 2019 / p. 13-17 https://doi.org/10.1007/978-981-10-9023-3_3 [Conference proceeding](#) [Article at Scopus](#) [Article at WOS](#)

Clearance variations monitored by on-line UV-absorbance during haemodialysis

Uhlin, Nils Fredrik Arne; Fridolin, Ivo; Magnusson, Martin; Lindberg, L. NBC'05 UMEA : 13th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : June 13th-17th, 2005, Umea, Sweden 2005 / p. 174-175 : ill

Cognitive disorders in patients with chronic kidney disease : approaches to prevention and treatment

Pepin, Marion; Klimkowicz-Mrowiec, Aleksandra; Godefroy, Oliver; Delgado, Pilar; Carriazo, Sol; Ferreira, Ana Carina; Golenia, Aleksandra; Malyszko, Jolanta; Grodzicki, Tomasz; Giannakou, Konstantino; Bachmann, Maie; Fridolin, Ivo European Journal of Neurology 2023 / p. 2899-2911 <https://doi.org/10.1111/ene.15928>

Combined displacer-enhanced removal of protein-bound uremic toxins estimated in spent dialysate

Adoberg, Annika; Leis, Liisi; Uhlin, Nils Fredrik Arne; Arund, Jürgen; Segelmark, Marten; Fernström, Anders; Luman, Merike; Fridolin, Ivo Kidney International Reports 2019 / art.: MON-105 ; p. S347 <https://doi.org/10.1016/j.ekir.2019.05.895>

Comparison of predictive equations for basal metabolic rate

Allik, Ardo; Mägi, Siiri; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert Wireless Mobile Communication and Healthcare : 7th International Conference, MobiHealth 2017, Vienna, Austria, November 14–15, 2017 : proceedings 2018 / p. 261-264 : ill <https://doi.org/10.1007/978-3-319-98551-0> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A concept for smart real-time monitoring of intermittent renal replacement therapy

Fridolin, Ivo International journal of artificial organs 2019 / p. 462 <https://journals.sagepub.com/doi/10.1177/0391398819860985>

Could urea in spent dialysate be a marker for monitoring removal of 4-pyridoxic acid?

Kalle, Sigrid; Tanner, Risto; Arund, Jürgen; Tomson, Ruth; Luman, Merike; Fridolin, Ivo XIII Baltic Nephrology Conference : October 13-15, 2016, Jurmala, Latvia : final programme 2016 / p. 6 <http://nefrologs.lv/wp-content/uploads/2016/10/XIII-BNC.pdf>

Data sharing under the general data protection regulation : time to harmonize law and research ethics?

Vlahou, Antonia; Hallinan, Dara; Apweiler, Rolf; Fridolin, Ivo Hypertension 2021 / p. 1029-1035
<https://doi.org/10.1161/HYPERTENSIONAHA.120.16340> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of a method for optical monitoring of creatinine in the spent dialysate

Tomson, Ruth; Uhlin, Nils Fredrik Arne; Holmar, Jana; Lauri, Kai; Luman, Merike; Fridolin, Ivo Estonian journal of engineering 2011 / 2, p. 140-150 : ill

Development of an optical monitoring technology for urea rebound assessment

Tomson, Ruth; Fridolin, Ivo; Luman, Merike The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

Development of an optical monitoring technology for urea rebound assessment

Tomson, Ruth; Fridolin, Ivo; Luman, Merike International journal of bioelectromagnetism 2015 / p. 52-56 : ill

Development of the model for the optical monitoring of urea in spent dialysate

Tomson, Ruth; Fridolin, Ivo; Uhlin, Nils Fredrik Arne; Holmar, Jana; Lauri, Kai; Luman, Merike BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 179-182 : ill

Development of the model for the optical multiwavelength monitoring of creatinine in the spent dialysate

Tomson, Ruth; Fridolin, Ivo; Uhlin, Nils Fredrik Arne; Jerotškaja, Jana; Lauri, Kai; Luman, Merike BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 261-264 : ill

Dialysis dose and nutrition assessment by an optical method = Dialüüsravi doosi ja patsientide toitumuse hindamine optilise meetodiga

Luman, Merike 2010 https://www.ester.ee/record=b2599301*est

Eesti meditatsiooniäpp astub mitme miljardi dollari suuruse ravimisektori kandadele

Väärtmaa, Taigar arileht.delfi.ee 2023 [Eesti meditatsiooniäpp astub mitme miljardi dollari suuruse ravimisektori kandadele](https://www.ester.ee/record=b2599301*est)

Eesti teaduse tippkeskus infotehnoloogia teaduskonda

Ubar, Raimund-Johannes; Fridolin, Ivo; Min, Mart Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 19-26

Eetika ja teadustöö on lahutamatult seotud : [intervjuu TTÜ biomeditsiinitehnika instituudi direktori professor Ivo Fridoliniga]

Fridolin, Ivo; Helme, Kristi Mente et Manu 2013 / lk. 14-16 : fot https://www.ester.ee/record=b1242496*est

The effect of Kt/V on post dialysis urea rebound in hemodialysis and hemodiafiltration

Tomson, Ruth; Fridolin, Ivo; Luman, Merike; Holmar, Jana Nephrology dialysis transplantation 2016 / p. i490
<https://doi.org/10.1093/ndt/gfw194.3>

Electroencephalography as an objective indicator of stress

Gavriljuk, Marietta; Uudeberg, Tuuli; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Bachmann, Maie 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 221–226
https://doi.org/10.1007/978-3-031-37132-5_28

Electromagnetic fields and waves for biomedical engineers : course material

Fridolin, Ivo 2008 https://www.ester.ee/record=b2364625*est

Elektromagnetväljad ja -lained biomeditsiinitehnikas : loengukonspekt

Fridolin, Ivo 2012 https://www.ester.ee/record=b2759438*est

Elimination of uremic toxins during dialysis assessed with the optical and analytical methods = Ureemiliste toksiinide elimineerimise hindamine dialüüsravil optiliste ja analüütiliste meetoditega

Lauri, Kai 2020 <https://digikogu.taltech.ee/et/Item/85965453-b6b4-4a1c-bdb6-8ebb28420fe9> Doktoritöö aitab hinnata jooksvalt neerudialüüsi tõhusust (novaator.err.ee, 15.09.2020)

Estimating total urea removal and protein catabolic rate by monitoring UV absorbance in spent dialysate

Uhlín, Nils Fredrik Arne; **Fridolin, Ivo**; Lindberg, Lars-Göran; Magnusson, Martin Nephrology dialysis transplation 2005 / 11, p. 2458-2464 <https://pubmed.ncbi.nlm.nih.gov/16077147/>

Estimation of dialysis patients' survival through combined approach of small molecule uremic markers

Holmar, Jana; Fridolin, Ivo; Uhlín, Nils Fredrik Arne; Fernström, Anders; Luman, Merike Proceedings of the Estonian Academy of Sciences 2014 / p. 227-233 : ill https://artiklid.elnet.ee/record=b2680559*est

Estimation of removed uremic toxin indoxyl sulphate during hemodialysis by using optical data of the spent dialysate

Holmar, Jana; Uhlín, Nils Fredrik Arne; Ferenets, Rain; Lauri, Kai; Tanner, Risto; Arund, Jürgen; Luman, Merike; Fridolin, Ivo The 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) proceedings 2013 / p. 6707-6710 : ill

Estimation of the influence of K/V on post dialysis urea rebound in HD and HDF with traditional and optical methods

Tomson, Ruth; Fridolin, Ivo; Luman, Merike XIII Baltic Nephrology Conference : October 13-15, 2016, Jurmala, Latvia : final programme 2016 / p. 2 <http://nefrologs.lv/wp-content/uploads/2016/10/XIII-BNC.pdf>

Evaluation of automatic speech recognition prototype for Estonian language in radiology domain : a pilot study

Paats, Andrus; Alumäe, Tanel; Meister, Einar; Fridolin, Ivo 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 96-99

Fall detection and activity recognition system for usage in smart work-wear [Online resource]

Leier, Mairo; Jervan, Gert; Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600959>

Fluorescence of Beta-2-microglobulin in the spent dialysate

Kalle, Sigrid; Kressa, H.; Tanner, Risto; Holmar, Jana; Fridolin, Ivo 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 59-62 : ill

Foreword : [special issue on biomedical engineering]

Fridolin, Ivo Proceedings of the Estonian Academy of Sciences 2014 / p. 199

4-pyridoxic acid in the spent dialysate : contribution to fluorescence and optical monitoring

Kalle, Sigrid; Tanner, Risto; Arund, Jürgen; Tomson, Ruth; Luman, Merike; Fridolin, Ivo PLoS ONE 2016 / art. e0162346, p. 1-11 : ill <http://dx.doi.org/10.1371/journal.pone.0162346>

Free fraction of protein-bound uremic solutes in case of different dialysis modalities

Arund, Jürgen; Tanner, Risto; Luman, Merike; Fridolin, Ivo XIII Baltic Nephrology Conference : October 13-15, 2016, Jurmala, Latvia : final programme 2016 / p. 17 <http://nefrologs.lv/wp-content/uploads/2016/10/XIII-BNC.pdf>

Free pentosidine assessment based on fluorescence measurements in spent dialysate

Kalle, Sigrid; Tanner, Risto; Luman, Merike; Fridolin, Ivo Blood Purification 2019 / p. 85-93 <https://doi.org/10.1159/000493522>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

HPLC study of uremic toxins in the spent dialysate

Lauri, Kai; Tanner, Risto; Arund, Jürgen; Fridolin, Ivo NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 109

Icke-invasiv kontinuerlig öövertakning av bloddialys - UV-absorption

Uhlín, Nils Fredrik Arne; **Fridolin, Ivo** Njurmedicinskt regionmöte 2004 / [1] p

Implementation of a radiology speech recognition system for Estonian using open source software

Alumäe, Tanel; Paats, Andrus; Fridolin, Ivo; Meister, Einar 18th Annual Conference of the International Speech Communication Association (INTERSPEECH 2017) : Situated Interaction : Stockholm, Sweden, 20 - 24 August 2017 2017 / p. 2168-2172 : ill <http://doi.org/10.21437/Interspeech.2017-928> <http://toc.proceedings.com/36411webtoc.pdf>

Implementation of a radiology speech recognition system for Estonian using open source software [online resource]

Alumäe, Tanel; Paats, Andrus; Fridolin, Ivo; Meister, Einar INTERSPEECH 2017 : SITUATED INTERACTION, 20-24 August 2017 Stockholm, Sweden : book of abstracts 2017 / p. 165 https://www.isca-speech.org/archive/Interspeech_2017/booklet.pdf
<http://doi.org/10.21437/Interspeech.2017-928>

Interrelationship between protein bound uremic toxin indoxyl sulfate concentration in blood and spent dialysate during hemodialysis treatment : [abstract]

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Fridolin, Ivo; Lauri, Kai; Leis, Liisi; Pilt, Kristjan; Tanner, Risto; Luman, Merike Nephrology dialysis transplantation 2021 / p. 382 : ill <https://doi.org/10.1093/ndt/gfab099.005>

Intradialytic on-line multicomponent reduction ratio monitoring in spent dialysate by a novel miniaturized optical sensor
Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; **Fridolin, Ivo; Luman, Merike** Nephrology Dialysis Transplantation 2019 / p. 643-644 <https://doi.org/10.1093/ndt/gfz102.SuO012>

Intradialytic on-line multicomponent total removed solute monitoring in spent dialysate by a novel miniaturized optical sensor
Adoberg, Annika; Paats, Joosep; Arund, Jürgen; Leis, Liisi; **Pilt, Kristjan; Fridolin, Ivo;** Luman, Merike Nephrology Dialysis Transplantation 2020 / gfaa141.TO015 <https://doi.org/10.1093/ndt/gfaa141.TO015>

Intradialytic on-line multicomponent total removed solute monitoring in spent dialysate by a novel miniaturized optical sensor
Adoberg, Annika; **Paats, Joosep; Arund, Jürgen;** Leis, Liisi; **Pilt, Kristjan; Fridolin, Ivo; Luman, Merike** Nephrology Dialysis Transplantation 2021 <https://doi.org/10.1093/ndt/gfaa141.TO015>

Intradialytic on-line multicomponent total removed solutes monitoring in spent dialysate by a novel miniaturized optical sensor
Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; Luman, Merike; **Fridolin, Ivo** International journal of artificial organs 2019 / p. 415-416 <https://journals.sagepub.com/doi/10.1177/0391398819860985>

Is fluorescence valid to monitor removal of protein bound uremic solutes in dialysis?
Arund, Jürgen; Luman, Merike; **Uhlin, Nils Fredrik Arne; Tanner, Risto; Fridolin, Ivo** PLoS ONE 2016 / art. e0156541, p. 1-12 : ill <https://doi.org/10.1371/journal.pone.0156541>

2X10 + 7X10
Fridolin, Ivo Mente et Manu 2004 / lk. 7 : fot https://www.ester.ee/record=b1242496*est

Lean body mass assessment based on UV-absorbance in spent dialysate
Tomson, Ruth; Fridolin, Ivo; Luman, Merike BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 185-188 : ill

Linnaplaneerimise heaolu skoor mõõdab, mida linnaelanikud tegelikult tunnevad
Fridolin, Ivo; Pilt, Kristjan; Bachmann, Maie; Grišakov, Kristi; Tärnov, Külle; Sternfeldt, Silver Mente et Manu 2022 / lk. 24-26 : fot https://www.ester.ee/record=b1242496*est

Lootusrikkalt loodusteaduste magistriõppe edendamisest : [13. dets. 2004 Amsterdamis toimunud MedNatNet konverentsist]
Fridolin, Ivo Mente et Manu 2004 / 10. veebr., lk. 5 https://www.ester.ee/record=b1242496*est

Major chromophores and fluorophores in the spent dialysate as cornerstones for optical monitoring of kidney replacement therapy = Peamised kromofoorid ja fluorofoorid heitdialüsaadis neeruasendusravi optilise monitooringu nurgakividena
Arund, Jürgen 2016 http://www.ester.ee/record=b4574893*est

Meditiinifüüsika professor selgitab, miks on intensiivravi kohti raske juurde tekitada [Võrguväljaanne]
Fridolin, Ivo novaator.err.ee 2020 / fot [Meditiinifüüsika professor selgitab, miks on intensiivravi kohti raske juurde tekitada](https://novaator.err.ee/record=b4574893*est)

Meditiinitehnika - terviseinseneering
Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Fridolin, Ivo Teadusmõte Eestis. 4, Tehnikateadused. 2 2007 / lk. 17-25 : ill

[My first grant]
Fridolin, Ivo Innovaatika : special issue newsletter 2005 / p. 16

The need for a multi-disciplinary reflection about frailty and cognitive impairment in chronic kidney disease
Farisco, Michele; Zecchino, Irene; Capasso, Giovambattista; **Bachmann, Maie; Fridolin, Ivo** Nephrology Dialysis Transplantation 2023 / p. 1064-1066 <https://doi.org/10.1093/ndt/gfac334>

Novel method for dialysis monitoring : "Estimation of dialysis quality and adequacy with a new optical technique", ETF research project 2004-2006
Fridolin, Ivo Estonian Science Foundation 2007 2008 / p. 23 : ill

A novel physical fatigue assessment method utilizing heart rate variability and pulse arrival time towards personalized feedback with wearable sensors
Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo; Jervan, Gert Sensors 2022 / art. 1680 <https://doi.org/10.3390/s22041680>

Nutrition estimation of dialysis patients by on-line monitoring and kinetic modelling

Fridolin, Ivo; Lauri, Kai; Jerotskaja, Jana; Luman, Merike Estonian journal of engineering 2008 / p. 177-188 : ill
https://artiklid.elnet.ee/record=b1022244*est

On-line monitoring of dialysis adequacy using diases optical sensor: accurate Kt/V estimation by smoothing algorithms

Talisainen, Aleksei; Kostin, Sergei; Karai, Deniss; Fridolin, Ivo; Ubar, Raimund-Johannes BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 273-276 : ill

On-line monitoring of the spent dialysate during haemodialysis using UV-absorbance

Uhlin, Nils Fredrik Arne; Fridolin, Ivo Proceedings of the 34th International Conference of EDTNA/ERCA : Wien, Austria, 2005. 1 2005 / p. 46

Online urea concentration estimation from spent dialysate using optical sensor

Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; Luman, Merike; **Fridolin, Ivo** XV Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019 : proceedings of MEDICON 2019, September 26–28, 2019, Coimbra, Portugal 2020 / p. 1459-1464 https://doi.org/10.1007/978-3-030-31635-8_180 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Optical assessment of calcification markers phosphorus and calcium during hemodialysis

Holmar, Jana; Uhlin, Nils Fredrik Arne; Fernström, Anders; **Luman, Merike;** Jankowski, Joachim; **Fridolin, Ivo** Nephrology Dialysis Transplantation 2015 / iii556 <https://doi.org/10.1093/ndt/gfv197.03>

Optical dialysis adequacy monitoring: small uremic toxins and contribution to UV-absorbance studied by HPLC

Lauri, Kai; Arund, Jürgen; Holmar, Jana; Tanner, Risto; Luman, Merike; Fridolin, Ivo Progress in hemodialysis - from emergent biotechnology to clinical practice 2011 / p. 143-160 : ill <https://www.intechopen.com/chapters/21275>

Optical Estimation of Beta 2 Microglobulin during Hemodiafiltration - Does It Work?

Uhlin, Nils Fredrik Arne; Holmar, Jana; Yngman-Uhlin, Pia; Fernström, Anders; **Fridolin, Ivo** Blood Purification 2015 / 113-119 <https://doi.org/10.1159/000381797>

Optical measurement of 4-pyridoxic acid in the spent dialysate : algorithm development

Kalle, Sigrid; Tanner, Risto; Arund, Jürgen; Tomson, Ruth; Fridolin, Ivo BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 115-118 : ill http://www.ester.ee/record=b2150914*est

Optical measurement of creatinine in spent dialysate

Tomson, Ruth; Fridolin, Ivo; Uhlin, Nils Fredrik Arne; Holmar, Jana; Lauri, Kai; Luman, Merike Clinical nephrology 2013 / p. 107-117 : ill

Optical method and biochemical source for the assessment of the middle-molecule uremic toxin β 2-microglobulin in spent dialysate

Paats, Joosep; Adoberg, Annika; **Arund, Jürgen; Fridolin, Ivo; Lauri, Kai;** Leis, Liisi; **Luman, Merike; Tanner, Risto** Toxins 2021 / art. 255, 15 p. : ill <https://doi.org/10.3390/toxins13040255> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optical method for cardiovascular risk marker uric acid removal assessment during dialysis

Holmar, Jana; Fridolin, Ivo; Uhlin, Nils Fredrik Arne; Lauri, Kai; Luman, Merike The scientific world journal 2012 / p. 1-8 : ill

Optical method for uric acid removal assessment during dialysis = Optiline meetod kusihaape eemaldamise määramiseks dialüüsiravi käigus

Holmar, Jana 2013 https://www.ester.ee/record=b3004743*est

Optical monitoring of dialysis dose

Uhlin, Nils Fredrik Arne; Fridolin, Ivo Modeling and control of dialysis systems. Vol. 2, Biofeedback systems and soft computing techniques of dialysis 2013 / p. 867-928 : ill

Optical monitoring of uremic metabolites-fluorophores during dialysis : the cases of [beta]-2-microglobulin, pentosidine, and 4-pyridoxic acid = Ureemiliste metaboliitide-fluorofooride optiline jälgimine dialüüsi jooksul: [beta]-2-mikroglobuliini, pentosidiini ja 4-püridokshappe näited

Kalle, Sigrid 2018 <https://digi.lib.ttu.ee/i/211057>

Optical on-line monitoring of a displacer-chromophore administration during a dialysis treatment

Arund, Jürgen; Adoberg, Annika; Leis, Liisi; **Luman, Merike; Uhlin, Nils Fredrik Arne;** Segelmark, Marten; Fernström, Anders;

Fridolin, Ivo Kidney International Reports 2019 / p. S340-S341 <https://doi.org/10.1016/j.ekir.2019.05.879>

Optical urea rebound estimation during dialysis

Tomson, Ruth; Uhlin, Nils Fredrik Arne; Fridolin, Ivo 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 109-112 : ill

Optilise kiirguse rakendamise biomeditsiinitehnilises diagnostikas : avalik loeng 29. märtsil 2004 TTÜs

Fridolin, Ivo Tallinna Tehnikaülikooli aastaraamat 2004 2005 / lk. 276-282

Optimization of physical activity recognition for real-time wearable systems : effect of window length, sampling frequency and number of features

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert Applied sciences 2019 / art. 4833, 14 p. : ill
<https://doi.org/10.3390/app9224833> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paracetamol interferes uric acid levels in uraemic patients revealed by monitoring spent dialysate

Tanner, Risto; Arund, Jürgen; Fridolin, Ivo; Luman, Merike ISRN nephrology 2013 / p. 1-4 : ill

Photon propagation in tissue and in biological fluids applied for vascular imaging and haemodialysis monitoring

Fridolin, Ivo 2009

Photon propagation in tissue and in biological fluids applied for vascular imaging and haemodialysis monitoring

Fridolin, Ivo 2003 https://www.ester.ee/record=b1908470*est

Pilot study for estimating physical fatigue based on heart rate variability and reaction time

Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo XV Mediterranean Conference on Medical and Biological Engineering and Computing -MEDICON 2019 : proceedings of MEDICON 2019, September 26–28, 2019, Coimbra, Portugal 2020 / p. 193-200
https://doi.org/10.1007/978-3-030-31635-8_23 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

POS-648 medicines intake influences accuracy of the uremic retention molecules' optical monitoring in spent dialysate : the case of uremic toxin uric acid and paracetamol

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Fridolin, Ivo; Holmar, Jana; Leis, Liisi; Pilt, Kristjan; Tanner, Risto; Uhlin, Nils Fredrik Arne; Luman, Merike Kidney International Reports 2022 / p. S277-S278 : ill <https://doi.org/10.1016/j.ekir.2022.01.681>

Professor Ivo Fridolin julgustab osalema programmis "Tagasi kooli" : [intervjuu]

Fridolin, Ivo; Vähi, Kersti Mente et Manu 2012 / lk. 9 : fot https://www.ester.ee/record=b1242496*est

Protein catabolic rate estimated by on-line monitoring of the UV-absorbance in the spent dialysate

Uhlin, Nils Fredrik Arne; Fridolin, Ivo American Society of Nephrology 37th Annual Meeting and Scientific exposition : St.Louis, Missouri, USA, 2004 2004 / [1] p

Reduction of urea and indoxyl sulphate concentration during different dialysis treatment modalities

Holmar, Jana; Luman, Merike; Arund, Jürgen; Lauri, Kai; Tomson, Ruth; Tanner, Risto; Kalle, Sigrid; Fridolin, Ivo International journal of artificial organs 2016 / p. 379 <http://dx.doi.org/10.5301/ijao.5000508>

Removal estimation of uremic CVD marker phosphate in dialysis using spectrophoto- and fluorimetric signals

Holmar, Jana; Arund, Jürgen; Kalle, Sigrid; Lauri, Kai; Luman, Merike; Tanner, Risto; Tomson, Ruth; Fridolin, Ivo EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 358-361 : ill
https://doi.org/10.1007/978-981-10-5122-7_90

Removal of phosphate as the trigger of vascular calcification by different dialysis treatment modalities

Holmar, Jana; Jankowski, Joachim; Fridolin, Ivo; Alampour-Rajabi, Setareh; Luman, Merike Nephrology dialysis transplantation 2018 / p. i224 : ill <https://doi.org/10.1093/ndt/gfy104.FP548>

Removal of Urea, beta 2-Microglobulin, and Indoxyl Sulfate Assessed by Absorbance and Fluorescence in the Spent Dialysate During Hemodialysis

Lauri, Kai; Arund, Jürgen; Holmar, Jana; Tanner, Risto; Kalle, Sigrid; Luman, Merike; Fridolin, Ivo Asaio journal 2020 / p. 695–705 <https://doi.org/10.1097/MAT.0000000000001058> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Removal of vascular calcification inducer phosphate in different dialysis treatment modalities

Holmar, Jana; Fridolin, Ivo; Luman, Merike World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 3) 2019 / p. 143-147 https://doi.org/10.1007/978-981-10-9023-3_26 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Retrospective analysis of clinical performance of an Estonian speech recognition system for radiology : effects of different acoustic and language models

Paats, Andrus; Alumäe, Tanel; Meister, Einar; Fridolin, Ivo Journal of digital imaging 2018 / p. 615–621 : ill

<https://doi.org/10.1007/s10278-018-0085-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Serum levels and removal by haemodialysis and haemodiafiltration of tryptophan-derived uremic toxins in ESKD patients

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Fridolin, Ivo; Leis, Liisi; Luman, Merike; Pilt, Kristjan; Uhlin, Nils Fredrik

Arne International journal of molecular sciences 2020 / art. 1522, 19 p. : ill <https://doi.org/10.3390/ijms21041522> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Serum levels of miR-126 and miR-223 and outcomes in chronic kidney disease patients

Fourdinier, Ophélie; Schepers, Eva; Metzinger-Le Meuth, Valérie; Glorieux, Griet; Liabeuf, Sophie; Vanholder, Raymond; Brigant, Benjamin; Pletinck, Anneleen; **Fridolin, Ivo** Scientific reports 2019 / art. 447, 12 p. : ill <https://doi.org/10.1038/s41598-019-41101-8>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solute removal rate assessment during hemodialysis using a spectrophotometrical technique : a theoretical study of component interaction [Electronic resource]

Fridolin, Ivo Medicon and Health Telematics 2004 "Health in the Information Society" : Xth Mediterranean Conference on Medical and Biological Engineering : July 31 - August 5, 2004, Ischia, Naples-Italy 2004 / [4] p. : ill. [CD-ROM]

Time-averaged concentration estimation of uraemic toxins with different removal kinetics: a novel approach based on intradialytic spent dialysate measurements

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Dhondt, Annemieke; Fernström, Anders; Glorieux, Griet; Fridolin, Ivo; Holmar, Jana; Luman, Merike; Pilt, Kristjan Clinical Kidney Journal 2023 / p. 735-744 : ill <https://doi.org/10.1093/ckj/sfac273>

<https://academic.oup.com/ckj/article/16/4/735/6948331>

Total removed beta 2-microglobulin and urea during different dialysis treatment modalities

Holmar, Jana; Luman, Merike; Lauri, Kai; Fridolin, Ivo XIII Baltic Nephrology Conference : October 13-15, 2016, Jurmala, Latvia : final programme 2016 / p. 21-22 : ill <http://nefrologs.lv/wp-content/uploads/2016/10/XIII-BNC.pdf>

<http://nefrologs.lv/wp-content/uploads/2016/10/XIII-BNC.pdf>

Total removed uric acid during dialysis estimated by on-line ultra violet absorbance in the spent dialysate [Electronic resource]

Uhlin, Nils Fredrik Arne; Lindberg, Lars-Göran; **Fridolin, Ivo** IFMBE proceedings 2005 / [6] p. [CD-ROM]

Treatment with paracetamol can interfere with the intradialytic optical estimation in spent dialysate of uric acid but not of indoxyl sulfate

Adoberg, Annika; **Paats, Joosep; Arund, Jürgen; Dhondt, Annemieke; Fridolin, Ivo; Glorieux, Griet; Holmar, Jana; Lauri, Kai; Leis, Liisi; Luman, Merike; Pilt, Kristjan; Uhlin, Nils Fredrik Arne; Tanner, Risto** Toxins 2022 / art. 610

<https://doi.org/10.3390/toxins14090610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Two anniversaries of the Estonian biomedical engineering community in 2004

Fridolin, Ivo IFMBE news 2005 / p. 14-15

Urea- and creatinine-based parameters in the optical monitoring of dialysis : the case of lean body mass and urea

rebound assessment = Ureal ja kreatiniiniil põhinevad parameetrid neeruasendusravi optilises monitooringus : patsiendi lihasmassi ja uurea tagasilöögi efekti hindamine

Tomson, Ruth 2017 <https://digi.lib.ttu.ee/i/?7744>

Uudne meetod neeruasendusravi paremaks jälgimiseks : Eesti Teadusfondi projekt "Uudne optiline tehnika dialüüsi kvaliteedi jälgimiseks ja hindamiseks", 2004-2006

Fridolin, Ivo Eesti Teadusfondi aastaraamat 2007 2008 / lk. 23 : ill