

Assessment of vascular calcification in the context of inhibitors in chronic kidney disease

Adoberg, Annika; Holmar, Jana XVII Baltic Nephrology Conference, Tartu, Estonia, October 3rd-5th, 2024 : Abstracts 2024 / 3 p
<https://balticnephrology2024.eu/abstracts>

Calcium and phosphate induce different vascular calcification

Holmar, Jana; Jankowski, Joachim; Bhargava, Shruti; Alampour-Rajabi, Setareh Nephrology dialysis transplantation 56th ERA-EDTA Congress Abstracts 2019 / p. 468 : ill <https://doi.org/10.1093/ndt/gfz103.SP323>

Can removal of middle molecular uremic retention solutes be estimated by UV-absorbance measurements in spent dialysate?

Lauri, Kai; Luman, Merike; Holmar, Jana; Tomson, Ruth; Kalle, Sigrid; Arund, Jürgen; Uhlin, Nils Fredrik Arne; Fridolin, Ivo World Congress on Medical Physics and Biomedical Engineering, June 7–12, 2015, Toronto, Canada 2015 / p. 1297 - 1300
https://doi.org/10.1007/978-3-319-19387-8_315 [Conference proceedings at Scopus](#) [Article at Scopus](#) [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 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, establishment and validation of in vitro and ex vivo assays of vascular calcification

Holmar, Jana; Noels, Heidi; Böhm, Michael; Bhargava, Shruti; Jankowski, Joachim; Orth-Alampour, Setareh Biochemical and biophysical research communications 2020 / p. 462-470 <https://doi.org/10.1016/j.bbrc.2020.05.085>

Dialysis patients survival in HD centres from Belgium, Estonia, Spain, and Sweden—association with BMI and hypocalcemia

Holmar, Jana; Luman, Merike; Adoberg, Annika; Leis, Liisi; Paats, Joosep; Uhlin, Fredrik; Ortiz, Alberto; Gloerieux, Griet; Dhondt, Annemieke; Pilt, Kristjan; Tanner, Risto; Fridolin, Ivo Nephrology Dialysis Transplantation 2024 / p. i1456–i1457
<https://doi.org/10.1093/ndt/gfae069.885>

Eesti Biomeditsiinitehnika ja Meditsiini füüsika Ühing = The Estonian Society for Biomedical Engineering and Medical Physics

Lass, Jaanus; Nazarenko, Sergei; Hinrikus, Hiie; Holmar, Jana Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiaste instituuti ning Eesti Biomeditsiinitehnika ja Meditsiini füüsika Ühingu = Health technologies yesterday, today and tomorrow : 30 years of the Department of Health Technologies and the Estonian Society for Biomedical Engineering and Medical Physics 2024 / lk. 13-15, p. 13-15 : ill

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>

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)

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

Holmar, Jana; Fridolin, Ivo; Uhlin, 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; Uhlin, 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 <https://doi.org/10.1109/EMBC.2013.6611095> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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
https://doi.org/10.1007/978-3-319-12967-9_16 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Hea lugeja! = Dear reader!

Holmar, Jana Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiaste instituuti ning Eesti Biomeditsiinitehnika ja Meditsiini füüsika Ühingu = Health technologies yesterday, today and tomorrow : 30 years of the Department of Health Technologies

Hemodialysis optical monitoring toward greener technology : a potential for water saving dialysis treatment

Leis, Liisi; Adoberg, Annika; Paats, Joosep; Holmar, Jana; Arund, Jürgen; Karai, Deniss; Luman, Merike; Pilt, Kristjan; Taklaja, Paul; Tanner, Risto; Fridolin, Ivo 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 162 - 171 https://doi.org/10.1007/978-3-031-37132-5_21 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

In Vitro and Ex Vivo experiments of vascular calcification

Holmar, Jana; Noels, Heidi; Jankowski, Joachim; Orth-Alampour, Setareh Nephrology Dialysis Transplantation 2021 / p. 1 <https://doi.org/10.1093/ndt/gfab086.0021>

Insenerid aitavad Eesti arstidel päästa elusid ja säästa raha

Holmar, Jana postimees.ee 2024 [Insenerid aitavad Eesti arstidel päästa elusid ja säästa raha](#)

Jana Holmar: neerupuudulikkusele tuleks rohkem tähelepanu pöörata

Holmar, Jana forte.delfi.ee 2025 <https://forte.delfi.ee/artikkel/120383486/tunne-teadlast-jana-holmar-neerupuudulikkusele-tuleks-rohkem-tahelepanu-poorata>

Joint biomedical engineering and medical physics master's curriculum project in Estonia

Meigas, Kalju; Kepler, Kalle; Holmar, Jana World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2013 / p. 1691 - 1693 https://doi.org/10.1007/978-3-642-29305-4_444 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

K2- step-by-step protocol for performing in vitro and ex vivo experiments of vascular calcification

Holmar, Jana; Noels, Heidi; Jankowski, Joachim; Orth-Alampour, Setareh The International Journal of Artificial Organs 2021 <https://doi.org/10.1177%2F03913988211038230>

Kaks direktorit ja üks tennuriprofessor

Jõeveer, Karin; Tapaninen, Ulla Pirita; Holmar, Jana Mente et Manu 2021 / lk. 22-23 : portr https://www.ester.ee/record=b1242496*est

Neerupuudulikkusega inimeste elu võib tänu Eesti teadlastele paraneda

digi.geenius.ee 2023 [Neerupuudulikkusega inimeste elu võib tänu Eesti teadlastele paraneda](#)

New optical method for estimation of protein bound uremic toxins elimination

Holmar, Jana; Arund, Jürgen; Uhlin, Fredrik; Tanner, Risto; Fridolin, Ivo World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2013 / p. 71-74 https://doi.org/10.1007/978-3-642-29305-4_20 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Non-invasive determination of uric acid in blood during hemodialysis with an optical spent dialysate sensor

Paats, Joosep; Arund, Jürgen; Adoberg, Annika; Holmar, Jana; Leis, Liisi; Luman, Merike; Pilt, Kristjan; Tanner, Risto; Fridolin, Ivo 61st ERA Congress, 23-26 May 2024: Congress Abstracts 2024 / p. i1236 <https://doi.org/10.1093/ndt/gfae069.754>

Non-invasive optical estimation of intradialytic concentrations of uremic toxins in blood of hemodialysis patients

Paats, Joosep; Adoberg, Annika; Arund, Jürgen; Fridolin, Ivo; Holmar, Jana; Lauri, Kai; Leis, Liisi; Pilt, Kristjan; Tanner, Risto; Luman, Merike Nephrology Dialysis Transplantation 2023 / art. #3367, p. i149-i150 : ill https://doi.org/10.1093/ndt/gfad063b_3367

Noorempfessor Jana Holmar: võib tulla üllatusena TalTechi seos meie tervisetehnoloogiatega

Holmar, Jana digi.geenius.ee 2024 [Noorempfessor Jana Holmar: võib tulla üllatusena TalTechi seos meie tervisetehnoloogiatega](#)

Nutikad tehnoloogiad aitavad ravijärjekordi lühendada

Holmar, Jana Postimees 2023 / Lk. 11 <https://dea.digar.ee/article/postimees/2023/06/28/10.6>

Online uric acid concentration estimation in blood from spent dialysate measurements using an optical sensor

Paats, Joosep; Arund, Jürgen; Pilt, Kristjan; Adoberg, Annika; Leis, Liisi; Luman, Merike; Holmar, Jana; Tanner, Risto; Fridolin, Ivo 9th European Medical and Biological Engineering Conference : Proceedings of EMBEC 2024 ; Volume 2 2024 / p. 178 - 187 https://doi.org/10.1007/978-3-031-61628-0_20 [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?

Uhlen, Nils Fredrik Arne; Holmar, Jana; Yngman-Uhlen, Pia; Fernström, Anders; Fridolin, Ivo Blood Purification 2015 / p. 113-119
<https://doi.org/10.1159/000381797> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.5414/CN107338> [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
<https://pubmed.ncbi.nlm.nih.gov/22701094/>

An optical method for serum calcium and phosphorus level assessment during Hemodialysis

Holmar, Jana; Uhlin, Fredrik; Fernström, Anders; Luman, Merike; Jankowski, Joachim; Fridolin, Ivo Toxins 2015 / p. 719-727
<https://doi.org/10.3390/toxins7030719> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 real-time cardiorenal toxin uric acid measurement during hemodialysis using a miniaturized optical sensor

Holmar, Jana; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; Luman, Merike; Paats, Joosep; Pilt, Kristjan; Tanner, Risto; Fridolin, Ivo Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS2023 2023 / 4 p. : ill <https://doi.org/10.1109/EMBC40787.2023.10340379> [Conference proceedings 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>

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 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

A systematic review of available removal techniques of protein bound toxins : a limited pursuit

Orth-Alampour, Setareh; Schmitz, Corinna; Jankowski, Joachim; Holmar, Jana; Jankowski, Vera Nephrology dialysis transplantation 2018 / p. i186 <http://dx.doi.org/10.1093/ndt/gfy104.FP447>

A systematic review of vascular calcification inhibitors in chronic kidney disease

Adoberg, Annika; Leis, Liisi; Luman, Merike; Uhlin, Fredrik; Fridolin, Ivo; Holmar, Jana XVII Baltic Nephrology Conference, Tartu, Estonia, October 3rd-5th, 2024 : Abstracts 2024 / 2 p <https://balticnephrology2024.eu/abstracts>

Tervis tehnoloogiata ei tule

Holmar, Jana Mente et Manu 2024 / lk. 37-35 : portr https://www.ester.ee/record=b1242496*est

Terviseteadlased: eetikakomiteede rägastikus ekslemist ennetaks ühe ukse poliitika

Pevkur, Aive; Lubi, Kadi; Holmar, Jana; Sepp, Kristiina; Ots-Vaik, Ingrid novaator.err.ee 2024 [Terviseteadlased: eetikakomiteede rägastikus ekslemist ennetaks ühe ukse poliitika](#)

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>

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

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>

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](#)

Uremic toxins affecting cardiovascular calcification: a systematic review

Holmar, Jana; Puente-Secades, Sofia De la; Floege, Jürgen; Noels, Heidi; Jankowski, Joachim; Orth-Alampour, Setareh Cells 2020 / art. 2428, 22 p <https://doi.org/10.3390/cells9112428>

Uued inimesed ja positsioonid

Holmar, Jana; Järvis, Marina; Kostakis, Vasileios; Kuts, Vladimir; Küttim, Merle; Lember, Veiko; Harima, Aki; Tambur, Silver Mente et Manu 2024 / lk. 48-52 : fot https://www.ester.ee/record=b1242496*est