

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>

Association between renal function and troponin T over time in stable chronic kidney disease patients

Chesnaye, Nicholas C.; Szummer, Karolina; Bárány, Peter; Heimbürger, Olof; Magin, Hasan; Almquist, Tora; **Uhlen, Nils Fredrik Arne** Journal of the American heart association 2019 / art. e013091, 18 p. : ill <https://doi.org/10.1161/JAHA.119.013091> [Journal metrics](#)
[at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Association of Longitudinal High-Sensitivity Troponin T with mortality in patients with chronic kidney disease

Chesnaye, Nicholas C.; Al-Sodany, Ehab; Szummer, Karolina; Barany, Peter; Heimbürger, Olof; Almquist, Tora; **Melander, Stefan; Uhlin, Nils Fredrik Arne**; Dekker, Friedo; Wanner, Christoph; Jager, Kitty J.; Evans, Marie Journal of the American College of Cardiology 2022 / p. 327-336 : ill <https://doi.org/10.1016/j.jacc.2021.11.023> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Association of the cystatin C/creatinine ratio with the renally cleared hormones parathyroid hormone (PTH) and brain natriuretic peptide (BNP) in primary care patients : a cross-sectional study

Risch, Martin; Risch, Lorenz; **Purde, Mette**; Renz, Harald; Ambühl, Patrice; Szucs, Thomas; Tomonaga, Yuki Scandinavian Journal of Clinical and Laboratory Investigation 2016 / p. 379 - 385 <https://doi.org/10.1080/00365513.2016.1183262> [Journal metrics](#) [at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Chemical composition of essential oil of common juniper (Juniperus communis L.) branches from Estonia

Raal, Ain; Komarov, Rostislav; **Orav, Anne**; Kapp, Karmen; Grytsyk, Andriy; Koshovyi, Oleh ScienceRise: Pharmaceutical Science 2022 / p. 66 - 73 <https://doi.org/10.15587/2519-4852.2022.271048> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#)

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; Andrade, Alexandre; **Bachmann, Maie; Fridolin, Ivo** European Journal of Neurology 2023 / p. 2899-2911 : ill <https://doi.org/10.1111/ene.15928>

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

Adoberg, Annika; Leis, Liisi; **Uhlen, 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 protein-bound uremic toxins indoxyl sulfate and indole acetic acid reduction ratios in blood and spent dialysate during haemodialysis with different modalities

Leis, Liisi; Adoberg, Annika; Paats, Joosep; Tanner, Risto; Fridolin, Ivo XVII Baltic Nephrology Conference, Tartu, Estonia, October 3rd-5th, 2024 : Abstracts 2024 / 1 p <https://balticnephrology2024.eu/abstracts>

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>

Development of a measurement system for estimation of local peripheral arterial stiffness parameters

Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / p. 1-5
<https://doi.org/10.1109/BEC61458.2024.10737944> [Article at Scopus](#) [Conference proceeding at Scopus](#) [Article at WOS](#)

Diagnostic and therapeutic potential of interleukin-37 in kidney diseases: A mini-review

Demikhova, Nadiia; Kuts, L.; Bokova, Svitlana; Vlasenko, O.; **Merisalu, Eda** Ukrainian journal of nephrology and dialysis 2025 / p. 90-97 [https://doi.org/10.31450/ukrjnd.2\(86\).2025.09](https://doi.org/10.31450/ukrjnd.2(86).2025.09) <https://ukrjnd.com.ua/index.php/journal/article/view/955>

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

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

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>

Economically affordable anatomical kidney phantom with calyces for puncture and drainage training in interventional urology and radiology

Ristolainen, Asko; Ross, Peeter; Gavšin, Juri; Semjonov, Eero; Kruusmaa, Maarja Acta radiologica short reports 2014 / p. 1-7 : ill

Elimination of uremic toxins during dialysis assessed with the optical and analytical methods = Ureemiliste toksiinide elimineerimise hindamine dialüüsravi 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)

Endopeptidase cleavage of anti-glomerular basement membrane antibodies in vivo in severe kidney disease : an open-label phase 2a study

Uhlen, Nils Fredrik Arne; Szpirt, Wladimir; Kronbichler, Andreas; Bruchfeld, Annette; Soveri, Inga; Rostaing, Lionel; Daugas, Eric; Lionet, Arnaud; Kamar, Nassim; Rafat, Cedric Journal of the American Society of Nephrology 2022 / p. 829-838
<https://doi.org/10.1681/ASN.2021111460> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Estonian professor introduces an artificial kidney therapy monitoring platform [Online resource]

Petrone, Justin estonianworld.com 2021 ["Estonian professor introduces an artificial kidney therapy monitoring platform"](https://www.estonianworld.com/2021/09/15/estonian-professor-introduces-an-artificial-kidney-therapy-monitoring-platform/)

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 <https://doi.org/10.1371/journal.pone.0162346> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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>

Intima-media thickness of the common carotid artery of patients with chronic kidney disease

Silluta, Sandra; Pilt, Kristjan; Kõots, Kristina; Viigimaa, Margus; Meigas, Kalju Cardiology 2015 / p. 37
<https://www.karger.com/Article/Abstract/431110>

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.T0015>

Intradialytic optical assessment of C-mannosyl tryptophan removal using spent dialysate

Paats, Joosep; Adoberg, Annika; Leis, Liisi; Arund, Jürgen; Lauri, Kai; Luman, Merike; Tanner, Risto; Holmar, Jana; Pilt, Kristjan; Fridolin, Ivo Scientific reports 2025 / art. 20052, 12 p. : ill <https://doi.org/10.1038/s41598-025-01844-z>

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>

Kroonilise neeruhaiguse ennetus ja käsitus

Luman, Merike Eesti Arst 2017 / lk. 195-198 http://www.ester.ee/record=b1072028*est

Long-term follow-up of biomarkers of vascular calcification after switch from traditional hemodialysis to online hemodiafiltration

Uhlen, Nils Fredrik Arne; Fernström, Anders; Knapen, Marjo H.J.; Vermeer, Cees; Magnusson, Per Scandinavian journal of clinical & laboratory investigation 2019 / p. 174-181 <https://doi.org/10.1080/00365513.2019.1576218> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Low cost anatomically realistic renal biopsy phantoms for interventional radiology trainees

Hunt, Andres; Ristolainen, Asko; Ross, Peeter; Öpik, Rivo; Krumme, Andres; Kruusmaa, Maarja European journal of radiology 2013 / p. 594-600 : ill <https://doi.org/10.1016/j.ejrad.2012.12.020> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

nurgakividenä

Arund, Jürgen 2016 http://www.ester.ee/record=b4574893*est

Management of patients with hypertension and chronic kidney disease referred to Hypertension Excellence Centres among 27 countries. On behalf of the European Society of Hypertension Working Group on Hypertension and the Kidney

Halimi, Jean-Michel; Sarafidis, Pantelis; Azizi, Michel; Bilo, Grzegorz; Burkard, Thilo; Bursztyn, Michael; Camafort, Miguel; Chapman, Neil; Cottone, Santina; de Backer, Tine; Deinum, Jaap; Delmotte, Philippe; **Viigimaa, Margus** Blood Pressure 2024 / art. 2368800 <https://doi.org/10.1080/08037051.2024.2368800> [Journal metrics at Scopus](#) [Article at Scopus](#)

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>

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

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

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 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 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](#)

Patient participation in dialysis care - A qualitative study of patients' and health professionals' perspectives

Årestedt, Liselott; Martinsson, Caroline; Hjelm, Carina; **Uhlin, Nils Fredrik Arne**; Eldh, Ann Catrine Health expectations 2019 / p. 1285–1293 <https://doi.org/10.1111/hex.12966> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Patient participation in end-stage kidney disease care: variation over time and effects of staff-directed interventions - a quasi-experimental study

Hurtig, Caroline; Bendtsen, Marcus; Årestedt, Liselott; **Uhlin, Nils Fredrik Arne**; Eldh, Ann Catrine BMC Nephrology 2023 / art. 265, 13 p. : ill <https://doi.org/10.1186/s12882-023-03313-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Screening and management of hypertensive patients with chronic kidney disease referred to Hypertension Excellence Centres among 27 countries. A pilot survey based on questionnaire

Halimi, Jean-Michel; Sarafidis, Pantelis; Azizi, Michel; Bilo, Grzegorz; Burkard, Thilo; Bursztyn, Michael; Camafort, Miguel; Chapman, Neil; Cottone, Santina; **Viigimaa, Margus** Journal of hypertension 2024 / p. 1544-1554 <https://doi.org/10.1097/HJH.0000000000003756> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sensortehnoloogiad meditsiinitehnikas uurimisrühm = Sensor Technologies in Biomedical engineering Research Group

Fridolin, Ivo Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiate instituuti ning Eesti Biomeditsiinitehnika ja Meditsiinifüüsika 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. 31-36, p. 29-34 : ill

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](#)

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; Brabant, 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](#)

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>

The IgG-degrading enzyme of Streptococcus pyogenes causes rapid clearance of anti-glomerular basement membrane antibodies in patients with refractory anti-glomerular basement membrane disease

Soveri, Inga; Molne, Johan; **Uhlin, Nils Fredrik Arne**; Nilsson, Thomas; Kjellman, Christian; Sonesson, Elisabeth; Segelmark, Marten Kidney International 2019 / p. 1234-1238 <https://doi.org/10.1016/j.kint.2019.06.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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>

2023 ESC Guidelines for the management of cardiovascular disease in patients with diabetes : developed by the task force on the management of cardiovascular disease in patients with diabetes of the European Society of Cardiology (ESC)

Marx, Nikolaus; Federici, Massimo; Schütt, Katharina; **Viigimaa, Margus** European Heart Journal 2023 / p. 4043-4140 <https://doi.org/10.1093/eurheartj/ehad192>

Using imlifidase to elucidate the characteristics and importance of anti-GBM antibodies produced after start of treatment

Tyrberg, Linnea; Andersson, Fanny; **Uhlin, Nils Fredrik Arne**; Hellmark, Thomas; Segelmark, Marten Nephrology Dialysis Transplantation 2024 / p. 45-54 <https://doi.org/10.1093/ndt/gfad132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Vasoactive peptide levels after change of dialysis mode

Uhlin, Nils Fredrik Arne; Odar-Cederlöf, Ingegerd; Theodorsson, Elvar; Fernström, Anders Nephron Extra 2015 / p. 67 - 78 <https://doi.org/10.1159/000440816> [Journal metrics at Scopus](#) [Article at Scopus](#)