

## **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>

## **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 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>

## **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>

## **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](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 oncentration 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 2021 <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 2020 / gfaa141.TO015 <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>

## **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>

## **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](https://doi.org/10.1093/ndt/gfad063b_3367)

## **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](https://doi.org/10.1007/978-3-030-31635-8_180) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**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](https://doi.org/10.1007/978-3-031-61628-0_20) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Optical method and biochemical source for the assessment of the middle-molecule uremic toxin  $\beta$ 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](#)

**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>

**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](#)

**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>

**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](#)

**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](#)