

### **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](#)

### **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>

### **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 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/>

### **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](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](#)

### **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

### **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>

### **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] [https://www.academia.edu/86162834/Total\\_removed\\_uric\\_acid\\_during\\_dialysis\\_estimated\\_by\\_on\\_line\\_ultra\\_violet\\_absorbance\\_in\\_the\\_spent\\_dialysate](https://www.academia.edu/86162834/Total_removed_uric_acid_during_dialysis_estimated_by_on_line_ultra_violet_absorbance_in_the_spent_dialysate)

### **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](#)