

## **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](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](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  
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## **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](https://doi.org/10.1007/978-3-031-37132-5_21) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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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**

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

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**Kaks direktorit ja üks tennuriprofessor**

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**Neerupuudulikkusega inimeste elu võib tänu Eesti teadlastele paraneda**

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**New optical method for estimation of protein bound uremic toxins elimination**

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**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>

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**Noorempfessor Jana Holmar: võib tulla üllatusena TalTechi seos meie tervisetehnoloogiatega**

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

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**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

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

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

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

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**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**

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

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

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

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**Removal of vascular calcification inducer phosphate in different dialysis treatment modalities**

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

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### **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**

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### **Terviseteadlased: eetikakomiteede rägastikus ekslemist ennetaks ühe ukse poliitika**

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### **The role of calcium and phosphate in medial vascular calcification**

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### **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  
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### **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>

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**Holmar, Jana; Jarvis, 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](https://www.ester.ee/record=b1242496*est)