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## Research output

### The authors reply

Pieters, T. T., Besseling, P. J., Bovée, D. M., Rookmaaker, M. B., Verhaar, M. C., Yard, B., Hoorn, E. J. & Joles, J. A., Sept 2024, In: *Kidney International*. 106, 3, p. 539-540 2 p.

### Discrepancies between transcutaneous and estimated glomerular filtration rates in rats with chronic kidney disease

Pieters, T. T., Besseling, P. J., Bovée, D. M., Rookmaaker, M. B., Verhaar, M. C., Yard, B., Hoorn, E. J. & Joles, J. A., Jun 2024, In: *Kidney International*. 105, 6, p. 1212-1220 9 p.

### Renal injury in relation to obesity and the additive effect of hypertension in female and male obese and lean ZSF1 rats

Nguyen, I. T. N., Cramer, M. J., Joles, J. A. & Verhaar, M. C., 1 Jul 2023, In: *American journal of physiology. Renal physiology*. 325, 1, p. F73-F86

### Acute Effects of Insulin Infusion on Kidney Hemodynamic Function in People With Type 2 Diabetes and Normal Kidney Function

van Baar, M. J. B., van Bommel, E. J. M., Touw, D. J., Nieuwdorp, M., Joles, J. A., Krebber, M. M., Bjornstad, P. & van Raalte, D. H., Apr 2023, In: *Kidney International Reports*. 8, 4, p. 916-920 5 p.

### Kidney Hemodynamic Effects of Angiotensin Receptor Blockade, Sodium-Glucose Cotransporter-2 Inhibition Alone, and Their Combination: A Crossover Randomized Trial in People With Type 2 Diabetes

Scholtes, R. A., Hesp, A. C., Mosterd, C. M., Geurts, F., Hoorn, E. J., Touw, D. J., Krebber, M. M., Joles, J. A., Heerspink, H. J. L. & Van Raalte, D. H., 13 Dec 2022, In: *Circulation*. 146, 24, p. 1895-1897 3 p.

### A Uremic Pig Model for Peritoneal Dialysis

de Vries, J. C., van Gelder, M. K., Monninkhof, A. S., Ahmed, S., Hazenbrink, D. H. M., Nguyen, T. Q., de Kort, G. A. P., Vonken, E. J. P. A., Vaessen, K. R. D., Joles, J. A., Verhaar, M. C. & Gerritsen, K. G. F., 14 Sept 2022, In: *Toxins*. 14, 9, 635.

### SGLT2 Inhibition and Uric Acid Excretion in Patients with Type 2 Diabetes and Normal Kidney Function

Suijk, D., van Baar, M., van Bommel, E., Iqbal, Z., Krebber, M., Vallon, V., Touw, D., Hoorn, E., Nieuwdorp, M., Kramer, M., Joles, J., Bjornstad, P. & van Raalte, D., May 2022, In: *Clinical Journal of the American Society of Nephrology*. 17, 5, p. 663-671 9 p.

### Albumin is an interface between blood plasma and cell membrane, and not just a sponge

van de Wouw, J. & Joles, J. A., Apr 2022, In: *Clinical Kidney Journal*. 15, 4, p. 624-634 11 p.

### Whole-body insulin clearance in people with type 2 diabetes and normal kidney function: Relationship with glomerular filtration rate, renal plasma flow, and insulin sensitivity

van Baar, M. J. B., van Bommel, E. J. M., Smits, M. M., Touw, D. J., Nieuwdorp, M., Ten Kate, R. W., Joles, J. A. & van Raalte, D. H., Apr 2022, In: *Journal of Diabetes and its Complications*. 36, 4, p. 1-5 108166.

### Anemia and red blood cell deformability in proteinuric chronic kidney disease

Joles, J. A., Mar 2022, In: *Kidney International*. 101, 3, p. 649-649 1 p.

### Kidney hemodynamic profile and systemic vascular function in adults with type 2 diabetes: Analysis of three clinical trials

Hesp, A. C., Smits, M. M., van Bommel, E. J. M., Muskiet, M. H. A., Tonneijck, L., Nieuwdorp, M., Kramer, M. H. H., Joles, J. A., Bjornstad, P. & van Raalte, D. H., Mar 2022, In: *Journal of Diabetes and its Complications*. 36, 3, p. 1-6 108127.

### **Obesity in relation to cardiorenal function**

Nguyen, I. T. N., Joles, J. A., Verhaar, M. C., Lamb, H. J. & Dekkers, I. A., 1 Jan 2022, *Visceral and Ectopic Fat: Risk Factors for Type 2 Diabetes, Atherosclerosis, and Cardiovascular Disease*. Lamb, H. J. (ed.). Elsevier, p. 243-264 22 p.

### **Postprandial renal haemodynamic effects of the dipeptidyl peptidase-4 inhibitor linagliptin versus the sulphonylurea glibenclamide in adults with type 2 diabetes (RENALIS): a pre-defined sub-study of a randomized, double-blind trial**

Muskiet, M. H. A., Tonneijck, L., Smits, M. M., Kramer, M. H. H., Ouwens, D. M., Hartmann, B., Holst, J. J., Danser, A. H. J., Joles, J. A. & van Raalte, D. H., Jan 2022, In: *Diabetes, Obesity & Metabolism*. 24, 1, p. 115-124 10 p.

### **A systematic review and meta-analysis of COVID-19 in kidney transplant recipients: Lessons to be learned**

Kremer, D., Pieters, T. T., Verhaar, M. C., Berger, S. P., Bakker, S. J. L., van Zuilen, A. D., Joles, J. A., Vernooij, R. W. M. & van Balkom, B. W. M., Dec 2021, In: *American Journal of Transplantation*. 21, 12, p. 3936-3945 10 p.

### **GFR estimation is complicated by a high incidence of non-steady-state serum creatinine concentrations at the emergency department**

Niemantsverdriet, M. S. A., Pieters, T. T., Hofer, I. E., Verhaar, M. C., Joles, J. A., van Solinge, W. W., Tiel Groenestege, W. M., Haitjema, S. & Rookmaaker, M. B., Dec 2021, In: *PLoS ONE*. 16, 12 December, e0261977.

### **Safety Of Electro-Oxidation For Urea Removal In A Wearable Artificial Kidney Is Compromised By Formation Of Glucose Degradation Products**

van Gelder, M. K., Vollenbroek, J. C., Lentferink, B. H., Hazenbrink, D. H. M., Besseling, P. J., Simonis, F., Giovannella, S., Ligabue, G., Bajo Rubio, M. A., Cappelli, G., Joles, J. A., Verhaar, M. C. & Gerritsen, K. G. F., Nov 2021, In: *Artificial Organs*. 45, 11, p. 1422-1428 7 p.

### **Reduced nitric oxide bioavailability impairs myocardial oxygen balance during exercise in swine with multiple risk factors**

van de Wouw, J., Sorop, O., van Drie, R. W. A., Joles, J. A., Danser, A. H. J., Verhaar, M. C., Merkus, D. & Duncker, D. J., 26 Aug 2021, In: *Basic Research in Cardiology*. 116, 1, p. 1-21 50.

### **Defining the variety of cell types in developing and adult human kidneys by single-cell RNA sequencing**

Schumacher, A., Rookmaaker, M. B., Joles, J. A., Kramann, R., Nguyen, T. Q., van Griensven, M. & LaPointe, V. L. S., 11 Aug 2021, In: *npj Regenerative Medicine*. 6, 1, p. 1-11 45.

### **Skin microvascular function and renal hemodynamics in overweight patients with type 2 diabetes: A cross-sectional study**

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### **Mildly Increased Renin Expression in the Absence of Kidney Injury in the Murine Transverse Aortic Constriction Model**

Wesseling, M., Mulder, E., Brans, M. A. D., Kapteijn, D. M. C., Bulthuis, M., Pasterkamp, G., Verhaar, M. C., Danser, A. H. J., van Goor, H., Joles, J. A. & de Jager, S. C. A., 15 Jun 2021, In: *Frontiers in Pharmacology*. 12, p. 1-11 614656.

### **Kidney hemodynamic function in men and postmenopausal women with type 2 diabetes and preserved kidney function**

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### **Validation of multiparametric MRI by histopathology after nephrectomy: a case study**

de Boer, A., Pieters, T. T., Hartevelde, A. A., Blankestijn, P. J., Bos, C., Froeling, M., Goldschmeding, R., Hoogduin, H. J. M., Joles, J. A., Petri, B.-J., Verhaar, M. C., Leiner, T., Nguyen, T. Q. & van Zuilen, A. D., Jun 2021, In: *Magma - Magnetic Resonance Materials In Physics Biology And Medicine*. 34, 3, p. 377-387 11 p.

### **Simplified Iohexol-Based Method for Measurement of Glomerular Filtration Rate in Goats and Pigs**

van Gelder, M. K., Stevens, J., Pieters, T. T., Vaessen, K. R. D., Joles, J. A., Verhaar, M. C. & Gerritsen, K. G. F., 23 May 2021, In: *Biology*. 10, 6, 461.

### **The effect of liraglutide and sitagliptin on oxidative stress in persons with type 2 diabetes**

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Scholtes, R. A., van Baar, M. J. B., Kok, M. D., Bjornstad, P., Cherney, D. Z. I., Joles, J. A. & van Raalte, D. H., May 2021, In: *Nephrology (Carlton, Vic.)*. 26, 5, p. 377-390 14 p.

### **Cardiac Protection by Oral Sodium Thiosulfate in a Rat Model of L-NNA-Induced Heart Disease**

Nguyen, I. T. N., Wiggerhauser, L. M., Bulthuis, M., Hillebrands, J.-L., Feelisch, M., Verhaar, M. C., van Goor, H. & Joles, J. A., 15 Apr 2021, In: *Frontiers in Pharmacology*. 12, 650968.

### **A Uremic Goat Model Created by Subtotal Renal Artery Embolization and Gentamicin**

van Gelder, M. K., de Vries, J. C., Ahmed, S., Monninkhof, A. S., de Kort, G. A. P., Vonken, E.-J. P. A., Hazenbrink, D. H. M., Vaessen, K. R. D., Nguyen, T. Q., Verhaar, M. C., Joles, J. A. & Gerritsen, K. G. F., 3 Apr 2021, In: *Biology*. 10, 4, p. 1-16 292.

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### **Tailoring cardiopulmonary bypass pump flow and mean arterial pressure to maintain renal oxygenation**

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### **Fighting Oxidative Stress with Sulfur: Hydrogen Sulfide in the Renal and Cardiovascular Systems**

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### **A Plasma Creatinine- and Urea-Based Equation to Estimate Glomerular Filtration Rate in Rats**

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### **Developmental programming in human umbilical cord vein endothelial cells following fetal growth restriction**

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### **Evaluation of a system for sorbent-assisted peritoneal dialysis in a uremic pig model**

van Gelder, M. K., de Vries, J. C., Simonis, F., Monninkhof, A. S., Hazenbrink, D. H. M., Ligabue, G., Giovanella, S., Joles, J. A., Verhaar, M. C., Bajo Rubio, M. A., Selgas, R., Cappelli, G. & Gerritsen, K. G. F., Dec 2020, In: *Physiological Reports [E]*. 8, 23, 14 p., e14593.

**Effects of DPP-4 Inhibitor Linagliptin Versus Sulfonylurea Glimperide as Add-on to Metformin on Renal Physiology in Overweight Patients With Type 2 Diabetes (RENALIS): A Randomized, Double-Blind Trial**

Muskiet, M. H. A., Tonneijck, L., Smits, M. M., Kramer, M. H. H., Ouwens, D. M., Hartmann, B., Holst, J. J., Touw, D. J., Danser, A. H. J., Joles, J. A. & van Raalte, D. H., Nov 2020, In: *Diabetes Care*. 43, 11, p. 2889-2893 5 p.

**Glucosuria Interferes With Measurement of Effective Renal Plasma Flow Using para-Aminohippuric Acid, With a Focus on SGLT2 Inhibitors**

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**Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Extracellular Matrix Remodeling during Left Ventricular Diastolic Dysfunction and Heart Failure with Preserved Ejection Fraction: A Systematic Review and Meta-Analysis**

Krebbber, M. M., van Dijk, C. G. M., Vernooij, R. W. M., Brandt, M. M., Emter, C. A., Rau, C. D., Fledderus, J. O., Duncker, D. J., Verhaar, M. C., Cheng, C. & Joles, J. A., 14 Sept 2020, In: *International journal of molecular sciences*. 21, 18, p. 1-22 22 p., 6742.

**Effects of dapagliflozin and gliclazide on the cardiorenal axis in people with type 2 diabetes**

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**Prenatal Amino Acid Supplementation to Improve Fetal Growth: A Systematic Review and Meta-Analysis**

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**Decreased native renal T<sub>1</sub> up to one week after gadobutrol administration in healthy volunteers**

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**In vitro efficacy and safety of a system for sorbent-assisted peritoneal dialysis**

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**Sodium thiosulfate improves renal function and oxygenation in L-NNA-induced hypertension in rats**

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**Unraveling the role of thiosulfate sulfurtransferase in metabolic diseases**

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**Both male and female obese ZSF1 rats develop cardiac dysfunction in obesity-induced heart failure with preserved ejection fraction**

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**Angiotensin-nepriylisin inhibition confers renoprotection in rats with diabetes and hypertension by limiting podocyte injury**

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**Plasma uric acid and renal haemodynamics in type 2 diabetes patients**

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**Renal hemodynamic effects of sodium-glucose cotransporter 2 inhibitors in hyperfiltering people with type 1 diabetes and people with type 2 diabetes and normal kidney function**

van Bommel, E. J. M., Lytvyn, Y., Perkins, B. A., Soleymanlou, N., Fagan, N. M., Koitka-Weber, A., Joles, J. A., Cherney, D. Z. I. & van Raalte, D. H., Apr 2020, In: *Kidney International*. 97, 4, p. 631-635 5 p.

**Conflicting Effects of Fetal Growth Restriction on Blood Pressure Between Human and Rat Offspring: A Meta-Analysis**

Kooiman, J., Terstappen, F., van Wagenveld, L., Franx, A., Wever, K. E., Roseboom, T. J., Joles, J. A., Gremmels, H. & Lely, A. T., 1 Mar 2020, In: *Hypertension (Dallas, Tex. : 1979)*. 75, 3, p. 806-818 13 p.

**Conflicting Effects of Fetal Growth Restriction on Blood Pressure Between Human and Animal Offspring: A Systematic Review and Meta-analysis**

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**Dissociation between hypertrophy and fibrosis in the left ventricle early after experimental kidney transplantation**

Krebber, M. M., Papazova, D. A., Oosterhuis, N. R., Mokry, M., Cramer, M. J., Cheng, C., Joles, J. A. & Verhaar, M. C., Mar 2020, In: *Journal of Hypertension*. 38, 3, p. 489-503 15 p.

**Perturbations in myocardial perfusion and oxygen balance in swine with multiple risk factors: a novel model of ischemia and no obstructive coronary artery disease**

van de Wouw, J., Sorop, O., van Drie, R. W. A., van Duin, R. W. B., Nguyen, I. T. N., Joles, J. A., Verhaar, M. C., Merkus, D. & Duncker, D. J., 25 Feb 2020, In: *Basic Research in Cardiology*. 115, 2, 18 p., 21.

**Sodium Thiosulfate in the Pregnant Dahl Salt-Sensitive Rat, a Model of Preeclampsia**

Terstappen, F., Clarke, S. M., Joles, J. A., Ross, C. A., Garrett, M. R., Minnion, M., Feelisch, M., Goor, H. V., Sasser, J. M. & Lely, A. T., 1 Feb 2020, In: *Biomolecules*. 10, 2, 14 p., 302.

**Renal sinus fat and renal hemodynamics: a cross-sectional analysis**

Spit, K. A., Muskiet, M. H. A., Tonneijck, L., Smits, M. M., Kramer, M. H. H., Joles, J. A., de Boer, A. & van Raalte, D. H., Feb 2020, In: *Magma - Magnetic Resonance Materials In Physics Biology And Medicine*. 33, 1, p. 73-80 8 p.

**Special issue on magnetic resonance imaging biomarkers of renal disease**

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**Insulin Sensitivity and Renal Hemodynamic Function in Metformin-Treated Adults With Type 2 Diabetes and Preserved Renal Function**

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**Longitudinal follow-up of kidney function in patients with a history of preeclampsia: From 11 to 18 years postpartum**

Roessingh, T., Zoet, G. A., Franx, A., Maas, A. H. E. M., Navis, G., Joles, J. A., Lely, T. A. & Paauw, N. D., Jan 2020, In: *Pregnancy Hypertension*. 19, p. 187-189 3 p.

**The renal hemodynamic effects of the SGLT2 inhibitor dapagliflozin are caused by post-glomerular vasodilatation rather than pre-glomerular vasoconstriction in metformin-treated patients with type 2 diabetes in the randomized, double-blind RED trial**

van Bommel, E. J. M., Muskiet, M. H. A., van Baar, M. J. B., Tonneijck, L., Smits, M. M., Emanuel, A. L., Bozovic, A., Danser, A. H. J., Geurts, F., Hoorn, E. J., Touw, D. J., Larsen, E. L., Poulsen, H. E., Kramer, M. H. H., Nieuwdorp, M., Joles, J. A. & van Raalte, D. H., Jan 2020, In: *Kidney International*. 97, 1, p. 202-212 11 p.

### **Measuring systolic and diastolic blood pressure in rodents**

Joles, J. A., Dec 2019, In: *Kidney International*. 96, 6, p. 1424-1425 2 p.

### **Assessment of real-time and quantitative changes in renal hemodynamics in healthy overweight males: Contrast-enhanced ultrasonography vs para-aminohippuric acid clearance**

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### **Limited synergy of obesity and hypertension, prevalent risk factors in onset and progression of heart failure with preserved ejection fraction**

Brandt, M. M., Nguyen, I. T. N., Kribber, M. M., van de Wouw, J., Mokry, M., Cramer, M. J., Duncker, D. J., Verhaar, M. C., Joles, J. A. & Cheng, C., Oct 2019, In: *Journal of Cellular and Molecular Medicine*. 23, 10, p. 6666-6678 13 p.

### **Chronic Kidney Disease as a Risk Factor for Heart Failure With Preserved Ejection Fraction: A Focus on Microcirculatory Factors and Therapeutic Targets**

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### **Epoetin Beta and C-Terminal Fibroblast Growth Factor 23 in Patients With Chronic Heart Failure and Chronic Kidney Disease**

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Joles, J. (Speaker)

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Joles, J. (Speaker)

13 Jun 2000

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