

I. Editorial Features

IN THIS ISSUE....

EDITORIAL COMMENTS

Defining and classifying AKI: one set of criteria

J. A. Kellum
(See related article by S. M. Bagshaw *et al.* A comparison of the RIFLE and AKIN criteria for acute kidney injury in critically ill patients. *Nephrol Dial Transplant* 2008; 23: 1569–1574.) 1471

Does prophylactic haemodialysis protect kidney function after angiography?

M. Tepel 1473

Success of the peritoneal dialysis programme in Hong Kong

P. K.-T. Li and C.-C. Szeto
(See related article by W. van Biesen *et al.* Why less success of the peritoneal dialysis programmes in Europe? *Nephrol Dial Transplant* 2008; 23: 1478–1481.) 1475

Why less success of the peritoneal dialysis programmes in Europe?

W. van Biesen, N. Veys, N. Lameire and R. Vanholder
(See related article by P. K.-T. Li and C.-C. Szeto. Success of the peritoneal dialysis programme in Hong Kong. *Nephrol Dial Transplant* 2008; 23: 1475–1478.) 1478

All high-flux membranes are equal but some high-flux membranes are less equal than others

R. Vanholder and L. A. Pedrini
(See related article by R. Ouseph *et al.* Differences in solute removal by two high-flux membranes of nominally similar synthetic polymers. *Nephrol Dial Transplant* 2008; 23: 1704–1712.) 1481

EDITORIAL REVIEWS

Clinical research of kidney diseases V: extended analytic models

P. Ravani, P. Parfrey, V. Gadag, F. Malberti and B. Barrett 1484

Epigenetics—a helpful tool to better understand processes in clinical nephrology?

P. Stenvinkel and T. J. Ekström 1493

TRANSLATIONAL NEPHROLOGY

Renal magnification by EGF

D. H. Ellison 1497

Mutations in *RPGRIP1L*: extending the clinical spectrum of ciliopathies

O. Devuyt and V. J. Arnould 1500

II. Scientific Papers

ORIGINAL ARTICLES

EXPERIMENTAL NEPHROLOGY

Postconditioning is an effective strategy to reduce renal ischaemia/reperfusion injury

G. Serviddio, A. D. Romano, L. Gesualdo, R. Tamborra, A. M. Di Palma, T. Rollo, E. Altomare and G. Vendemiale 1504

Human recombinant erythropoietin augments serum asymmetric dimethylarginine concentrations but does not compromise nitric oxide generation in mice

A. Desai, Y. Zhao and J. S. Warren 1513

Nonerythropoietic derivative of erythropoietin protects against tubulointerstitial injury in a unilateral ureteral obstruction model

H. Kitamura, Y. Isaka, Y. Takabatake, R. Imamura, C. Suzuki, S. Takahara and E. Imai 1521

Highly concentrated calcitriol and its analogues induce apoptosis of parathyroid cells and regression of the hyperplastic gland—a study in rats

K. Shiizaki, I. Hatamura, S. Negi, T. Sakaguchi, F. Saji, I. Imazeki, E. Kusano, T. Shigematsu and T. Akizawa 1529

Transforming growth factor- β -induced alpha-smooth muscle cell actin expression in renal proximal tubular cells is regulated by p38 β mitogen-activated protein kinase, extracellular signal-regulated protein kinase1,2 and the Smad signalling during epithelial–myofibroblast transdifferentiation

A. Sebe, S.-K. Leivonen, A. Fintha, A. Masszi, L. Rosivall, V.-M. Kähäri and I. Mucsi 1537

Aldosterone-mediated apical targeting of ENaC subunits is blunted in rats with streptozotocin-induced diabetes mellitus

H. O'Neill, J. Lebeck, P. B. Collins, T.-H. Kwon, J. Frøkiær and S. Nielsen 1546

Effects of statins on renal sodium and water handling

L. Paulsen, C. Holm, J. N. Bech, J. Starklint and E. B. Pedersen 1556

CLINICAL NEPHROLOGY

Hypernatraemia in critically ill patients: too little water and too much salt

E. J. Hoorn, M. G. H. Betjes, J. Weigel and R. Zietse 1562

A comparison of the RIFLE and AKIN criteria for acute kidney injury in critically ill patients

S. M. Bagshaw, C. George and R. Bellomo for the ANZICS Database Management Committee Rinaldo
(See related article by J. A. Kellum. Defining and classifying AKI: one set of criteria. *Nephrol Dial Transplant* 2008; 23: 1471–1472.) 1569

Aetiology and outcome of acute and chronic renal failure in infants

M. Wedekin, J. HH Ehrich, G. Offner and L. Pape 1575

N-Acetylcysteine does not artifactually lower plasma creatinine concentration

M. Haase, A. Haase-Fielitz, S. Ratnaika, M. C. Reade, S. M. Bagshaw, S. Morgera, D. Dragun and R. Bellomo 1581

Acute renal haemodynamic effects of radiocontrast media in patients undergoing left ventricular and coronary angiography

M. Möckel, M. Radovic, Y. Kühnle, V. Combé, J. Waigand, S. Schröder, R. Dietz, U. Frei and K.-U. Eckardt 1588

Distribution of pathologic findings in individuals with nephrotic proteinuria according to serum albumin

K. Gupta, S. S. Iskandar, P. Daeiagh, H. L. Ratliff and A. J. Bleyer 1595

Nephropathy in males and females with Fabry disease: cross-sectional description of patients before treatment with enzyme replacement therapy

A. Ortiz, J. P. Oliveira, S. Waldek, D. G. Warnock, B. Cianciaruso and C. Wanner on behalf of the Fabry Registry 1600

External suppression causes the low expression of the *Cosmc* gene in IgA nephropathy

W. Qin, X. Zhong, J. M. Fan, Y. J. Zhang, X. R. Liu and X. Y. Ma 1608

Influence of low birth weight on minimal change nephrotic syndrome in children, including a meta-analysis

N. Teeninga, M. F. Schreuder, A. Bökenkamp, H. A. Delemarre-van de Waal and J. A. E. van Wijk 1615

Endothelial dysfunction in type-2 diabetics with early diabetic nephropathy is associated with low circulating adiponectin M. I. Yilmaz, M. Saglam, A. R. Qureshi, J. J. Carrero, K. Caglar, T. Eyileten, A. Sonmez, E. Cakir, Y. Oguz, A. Vural, M. Yenicesu, P. Stenvinkel, B. Lindholm and J. Axelsson	1621	Quality of life of caregivers and patients on peritoneal dialysis S. L.-s. Fan, I. Sathick, K. McKitty and S. Punzalan	1713
Agalsidase therapy in patients with Fabry disease on renal replacement therapy: a nationwide study in Italy R. Mignani, S. Feriozzi, A. Pisani, A. Cioni, C. Comotti, M. Cossu, A. Foschi, A. Giudicissi, E. Gotti, V. A. Lozupone, F. Marchini, F. Martinelli, F. Bianco, V. Panichi, D. A. Procaccini, E. Ragazzoni, A. Serra, F. Soliani, L. Spinelli, G. Torti, M. Veroux, B. Cianciaruso and L. Cagnoli	1628	The quest for favourable subgroups to encourage living kidney donation in Spain. An attitudinal study among British and Irish citizens resident in southeastern Spain A. Ríos, L. Martínez-Alarcón, J. Sánchez, N. Jarvis, J. A. Garcia, J. M. Rodríguez, P. Parrilla and P. Ramírez	1720
Pseudohypoaldosteronisms—report on a 10-patient series A. Belot, B. Ranchin, C. Fichtner, L. Pujo, B. C. Rossier, A. Liutkus, C. Morlat, M. Nicolino, M. C. Zennaro and P. Cochat	1636	Anaemia and congestive heart failure in the early post-renal transplantation period R. Borrows, M. Loucaidou, G. Chusney, S. Borrows, J. V. Tromp, T. Cairns, M. Griffith, N. Hakim, A. McLean, A. Palmer, V. Papalois and D. Taube	1728
DIALYSIS AND TRANSPLANTATION		The role of C4d immunostaining in the evaluation of the causes of renal allograft dysfunction P. Ranjan, R. Nada, V. Jha, V. Sakhuja and K. Joshi	1735
Intracellular acidification enhances neutrophil phagocytosis in chronic haemodialysis patients: possible role of CD11b/CD18 C.-S. Lin, J. G. Wann, C.-W. Hsiao, D. W. Tai, J.-S. Chen, Y.-H. Hsu, H.-C. Huang and C.-F. Chao	1642	ACE-inhibitor or AT2-antagonist therapy of renal transplant recipients is associated with an increase in serum potassium concentrations C. Mitterbauer, G. Heinze, A. Kainz, R. Kramar, W. H. Hörl and R. Oberbauer	1742
Third-generation parathyroid hormone assays and all-cause mortality in incident dialysis patients: the CHOICE study M. L. Melamed, J. A. Eustace, L. C. Plantinga, B. G. Jaar, N. E. Fink, R. S. Parekh, J. Coresh, Z. Yang, T. Cantor and N. R. Powe	1650	SHORT COMMUNICATION	
Methicillin-resistant Staphylococcus aureus carriage, infection and transmission in dialysis patients, healthcare workers and their family members P.-L. Lu, J.-C. Tsai, Y.-W. Chiu, F.-Y. Chang, Y.-W. Chen, C.-F. Hsiao and L. K. Siu	1659	Peritoneal dialysis in children under two years of age H. Laakkonen, T. Hölttä, T. Lönnqvist, C. Holmberg and K. Rönnholm	1747
Preventing haemodialysis catheter-related bacteraemia with an antimicrobial lock solution: a meta-analysis of prospective randomized trials L. Labriola, R. Crott and M. Jadoul	1666	EXCEPTIONAL CASE	
Dialysis-related systemic microinflammation is associated with specific genomic patterns G. Zaza, P. Pontrelli, G. Pertosa, S. Granata, M. Rossini, S. Porreca, F. J. T. Staal, L. Gesualdo, G. Grandaliano and F. P. Schena	1673	Wasp sting associated with type 1 renal tubular acidosis S. D'Cruz, S. Chauhan, R. Singh, A. Sachdev and S. Lehl	1754
Association between number of months below K/DOQI haemoglobin target and risk of hospitalization and death A. Ishani, C. A. Solid, E. D. Weinhandl, D. T. Gilbertson, R. N. Foley and A. J. Collins	1682	Progressive kidney disease in three sisters with elevated lipoprotein(a) J. Staples, P. Taylor, A. Magil, J. Frohlich, S. M. Johnston, M. Koschinsky, C. Chan-Yan and A. Levin	1756
Design and validation of a model to predict early mortality in haemodialysis patients J. M. Mauri, M. Clèries, E. Vela and C. R. Registry	1690	Spontaneous remission of severe hyperparathyroidism with normalization of the reversed whole PTH/intact PTH ratio in a haemodialysis patient H. Komaba, Y. Takeda, T. Abe, K. Komaba, N. Otsuki, K.-i. Nibu, M. Umezumi and M. Fukagawa	1760
Carotid artery intima-media thickness correlates with oxidative stress in chronic haemodialysis patients with accelerated atherosclerosis B. Dursun, E. Dursun, G. Suleymanlar, B. Ozben, I. Capraz, A. Apaydin and T. Ozben	1697	III. Varia	
Differences in solute removal by two high-flux membranes of nominally similar synthetic polymers R. Ouseph, C. A. Hutchison and R. A. Ward (See related article by R. Vanholder and L. A. Pedrini. All high-flux membranes are equal but some high-flux membranes are less equal than others. <i>Nephrol Dial Transplant</i> 2008; 23: 1481–1483.)	1704	LETTERS AND REPLIES	
		Need of standardization for creatinine and cystatin C-based GFR equations in renal transplantation U. Pöge, T. M. Gerhardt, B. Stoffel-Wagner and R. P. Woitas	1763
		Reply A. Zahran and A. Shoker	1763
		Comment on 'Comparison between creatinine and cystatin C-based GFR equations in renal transplantation' S. Zitta, H. Holzer, G. Reibnegger and W. Estelberger	1764
		Reply A. Zahran and A. Shoker	1765
		About the CKD stage-3 subdivision proposal P. L. SantaCruz	1765
		Reply N. Abutaleb	1766
		Vasculitis and anti-thyroid medication A. Woywodt and H. B. Shetty	1766

Reply S. Lionaki, S. L. Hogan, R. J. Falk, M. S. Joy, C. E. Jennette, P. H. Nachman and J. C. Jennette	1768	The neglected role of students in international university rankings K. Ghabili, M. M. Shoja and S. Ghabili	1774
Dialysis or not? A comparative survival study of patients over 75 years of age with chronic kidney disease stage 5 M. Misra, D. Oreopoulos and E. Vonesh	1768	Cardiovascular abnormalities in patients with epilepsy receiving renal replacement therapy with dialysis: a true convergence of clinical cardiology, nephrology and neurology F. A. Scorza, R. M. Arida and E. A. Cavalheiro	1775
Reply F. E. M. Murtagh, J. E. Marsh, P. Donohoe, N. J. Ekbal, F. E. Harris and N. S. Sheerin	1769	Reply C. A. Herzog	1776
Occurrence of peritonitis in APD versus CAPD: methodologic problems S. J. Nessim and J. M. Bargman	1769	Radio-opaque appearance of lanthanum carbonate in a patient with chronic renal failure Pafčugová J, Horáčková M, Hrašková M, Forejt J, Szabo M, and Pádr R	1776
Reply K. S. Rabindranath	1770	Reply S. David, T. Kirchoff, H. Haller and M. Meier	1777
Relative mortality risk in chronic kidney disease and end-stage renal disease: the effect of age, sex and diabetes E. Villar and M. Labeeuw	1770	Is there a link between calcium oxalate crystalluria, orlistat and acute tubular necrosis? L. Karamadoukis, L. Ludeman and A. J. Williams	1778
Conflict of interest in clinical guidelines should be avoided S. Shaldon	1771	Negative outcome studies in end-stage renal disease: how dark are the storm clouds? S. Shaldon	1779
Reply I. C. Macdougall, K.-U. Eckardt and F. Locatelli	1772	Reply A. Covic, P. Gusbeth-Tatomir and D. Goldsmith	1779
The effect of sodium citrate 4% locking solution for central venous dialysis catheter on the international normalized ratio (INR) value J.-P. Rioux, B. De Bortoli, S. Troyanov and F. Madore	1772	A wild zebra chase P. Pintavorn	1780
Reply A. Pierratos, L. Grudzinski and P. Quinan	1773	Reply A. Woywodt and M. Mengel	1781
ABO-incompatible kidney transplantation: on-demand strategy K. Keven and S. Sengul	1773	ERRATUM	1782
Reply J. Wilpert and M. Geyer	1774	ANNOUNCEMENTS	1783