

Relatório de Gestão e Actividades 2012

Serviço de Nefrologia

Unidade Autónoma de Gestão de Medicina • Centro Hospitalar de São João

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1. **Actividade Assistencial** *Clinical activity*

2. **Actividade de Investigação**

Research and development

Unidade de I&D de Nefrologia (FCT 725)

2.1. **Produção científica**

Publicações *Publications*

Artigos completos indexados na PubMed ou ISIs *Full text in PubMed or ISIs indexed journals*

1. Coentrao L, Faria B, Pestana M. Physical examination of dysfunctional arteriovenous fistulae being referred by nephrologists. *Nephrol Dial Transplant*, 2012; 27:1993-96 (FI=3.564).
2. JM Frazão, T Adragão. Non-calcium containing phosphate binders: comparing efficacy, safety and other clinical effects. *Nephrol Clin Pract*, 2012; 120:c108-c119 (IF=1.843).
3. Sérgio Gaião, Fredric O. Finkelstein, Massimo de Cal, Claudio Ronco, and Dinna N. Cruz. Acute Kidney Injury: Are We Biased Against Peritoneal Dialysis? *Perit Dial Int* May-June 2012; 32:351-5 (2.097).
4. Warnock DG, Ortiz A, Mauer M, Linthorst GE, Oliveira JP, Serra AL, Maródi L, Mignani R, Vujkovic B, Beitner-Johnson D, Lemay R, Cole JA, Svarstad E, Waldek S, Germain DP, Wanner C; on behalf of the Fabry Registry. Renal outcomes of agalsidase beta treatment for Fabry disease: role of proteinuria and timing of treatment initiation. *Nephrol Dial Transplant*. 2012 Mar;27(3):1042-9 (IF=3.564).
5. Carvalho A, Valadas E, França L, Carvalho C, Aleixo M, Mendez J, Marques R, Sarmento A, Doroana M, Antunes F, Branco T, Aguas M, Sarmento E Castro R, Lazarus J, Barros H. Population mobility and the changing epidemics of HIV-2 in Portugal. *HIV Med*. 2012 Apr;13(4):219-25 (IF=3.575).
6. Valbuena C, Leitão D, Carneiro F, Oliveira JP. Immunohistochemical diagnosis of Fabry nephropathy and localisation of globotriaosylceramide deposits in paraffin-embedded kidney tissue sections. *Virchows Arch* 2012 Feb;460(2):211-21. Epub 2011 Dec 29. Erratum in: *Virchows Arch*. 2012 Feb;460(2):223-4. (IF=2.336).
7. Azevedo E, Mendes A, Seixas D, Santos R, Castro P, Ayres-Basto M, Rosengarten B, Oliveira JP. Functional transcranial Doppler: presymptomatic changes in Fabry disease. *Eur Neurol*. 2012;67(6):331-7 (IF=1.81).
8. Moreira-Rodrigues M, Quelhas-Santos J, Serrão P, Roncon-Albuquerque Jr R, Leite-Moreira AF, Sampaio-Maia B, Pestana M. Blunted Renal Dopaminergic System in a Mouse Model of Diet-Induced Obesity. *Exp Biol Med* 2012; 237:949-955 (IF=2.954).
9. Desir G, Tang L, Wang P, Li G, Sampaio-Maia B, Quelhas-Santos J, Pestana M, Velazquez H. Renalase lowers ambulatory blood pressure by metabolizing circulating adreaniline. *J Am Heart Assoc* 2012, 1: doi: 10.1161/JAHA.112.002634.
10. Dinna N. Cruz, Sergio Gaiao, Alan Maisel, Claudio Ronco, Prasad Devarajan. Neutrophil gelatinase-associated lipocalin as a biomarker of cardiovascular disease: a systematic review. *Clin Chem Lab Med* 2012 Sep;50(9):1533-45 (IF=2.15).
11. Santos LC, Abreu CF, Xerinda SM, Tavares M, Lucas R, Sarmento AC. Severe imported malaria in an intensive care unit: a review of 59 cases. *Malar J*. 2012 Mar 29;11:96 doi: 10.1186/1475-2875-11-96. (IF=3.19).
12. Roncon-Albuquerque R Jr, Basílio C, Figueiredo P, Silva S, Mergulhão P, Alves C, Veiga R, Castelo-Branco S, Paiva L, Santos L, Honrado T, Dias C, Oliveira T, Sarmento A, Mota AM, Paiva JA. Portable miniaturized extracorporeal membrane oxygenation systems for H1N1-related severe acute respiratory distress syndrome: A case series. *J Crit Care*. 2012 Oct;27(5):454-63 (IF=2.077).
13. Joao M Frazao, Johann Braun, Piergiorgio Messa, Bastian Dehmel, Caroline Martin, Martin Wilkie Is serum phosphorus control related to parathyroid hormone control in dialysis patients with secondary

- hyperparathyroidism? *BMC Nephrology* 2012, Aug 3;13:76. doi: 10.1186/1471-2369-13-76 (IF=2.18).
14. Coentrão L, Santos-Araújo C, Dias C, Neto R, Pestana M. Effects of starting hemodialysis with an arteriovenous fistula or central venous catheter compared with peritoneal dialysis: a retrospective cohort study. *BMC Nephrology* 2012, Aug 23;13:88. doi: 10.1186/1471-2369-13-88 (IF=2.18).
 15. Carvalho B, Pereira M, Marques CJ, Carvalho D, Leão M, Oliveira JP, Barros A, Carvalho F. Comprehensive Genetic Analysis and Structural Characterization of CYP21A2 Mutations in CAH Patients. *Exp Clin Endocrinol Diabetes*. 2012 Oct;120(9):535-9. doi: 10.1055/s-0032-1323805. Epub 2012 Oct 16 (IF=1.693).
 16. Areias C, Sampaio-Maia B, Pereira Mde L, Azevedo A, Melo P, Andrade C, Scully C. Reduced salivary flow and colonization by mutans streptococci in children with Down syndrome. *Clinics (Sao Paulo)*. 2012 Sep;67(9):1007-11 (IF=1.591).
 17. Freitas P, Carvalho D, Santos AC, Madureira AJ, Xerinda S, Martinez E, Pereira J, Sarmento A, Medina JL. Central/Peripheral Fat Mass Ratio Is Associated With Increased Risk of Hypertension in HIV-Infected Patients. *J Clin Hypertens (Greenwich)*. 2012 Sep;14(9):593-600. doi: 10.1111/j.1751-7176.2012.00671.x. Epub 2012 Jun 13 (IF=1.83).
 18. Sundel R, Solomons N, Lisk L; Aspreva Lupus Management Study (ALMS) Group (nominal listing including M. Pestana, Porto, Portugal). Efficacy of mycophenolate mofetil in adolescent patients with lupus nephritis: evidence from a two-phase, prospective randomized trial. *Lupus*. 2012 Nov;21(13):1433-43. doi: 10.1177/0961203312458466. Epub 2012 Aug 24 (IF=2.337).
 19. Freitas P, Carvalho D, Santos AC, Mesquita J, Matos MJ, Madureira AJ, Martinez E, Sarmento A, Medina JL. Lipodystrophy defined by Fat Mass Ratio in HIV-infected patients is associated with a high prevalence of glucose disturbances and insulin resistance. *BMC Infect Dis*. 2012 Aug 6;12(1):180. doi: 10.1186/1471-2334-12-180 (IF=2.83).
 20. EVOLVE Trial Investigators, Chertow GM, Block GA, Correa-Rotter R, Drüeke TB, Floege J, Goodman WG, Herzog CA, Kubo Y, London GM, Mahaffey KW, Mix TC, Moe SM, Trotman ML, Wheeler DC, Parfrey PS (nominal listing including J Frazão, Porto, Portugal). Effect of cinacalcet on cardiovascular disease in patients undergoing dialysis. *N Engl J Med*. 2012 Dec 27;367(26):2482-94.
 21. Freitas P, Carvalho D, Santos AC, Matos MJ, Madureira AJ, Marques R, Martinez E, Sarmento A, Medina JL. Prevalence of obesity and its relationship to clinical lipodystrophy in HIV-infected adults on anti-retroviral therapy. *J Endocrinol Invest*. Dec;35(11):964-70 (IF=1.476).
 22. Cardoso T, Ribeiro O, Aragão IC, Costa-Pereira A, Sarmento AE. Additional risk factors for infection by multidrug-resistant pathogens in healthcare-associated infection: a large cohort study. *BMC Infect Dis*. 2012 Dec 26;12(1):375. doi: 10.1186/1471-2334-12-375. [Epub ahead of print]. (IF=3.12).
 23. Pereira-Lopes O, Sampaio-Maia B, Sampaio S, Vieira-Marques P, Monteiro-da-Silva F, Braga AC, Felino A, Pestana M. Periodontal inflammation in renal transplant recipients receiving Everolimus or Tacrolimus – preliminary results. *Oral Dis*, 2012 Dec 21. doi: 10.1111/odi.12051. [Epub ahead of print] (IF=2.495).
 24. Abreu C, Magro F, Vilas-Boas F, Lopes S, Macedo G, Sarmento A. Listeria infection in patients on anti-TNF treatment: Report of two cases and review of the literature. *J Crohns Colitis*. 2013 Mar;7(2):175-82 (IF=2.566).
 25. Liliana Simões-Silva, Mónica Moreira-Rodrigues, Janete Quelhas-Santos, Cátia Fernandes-Cerqueira, Manuel Pestana, Isabel Soares-Silva, Benedita Sampaio-Maia. Intestinal and renal guanylin peptides system in hypertensive obese mice Guanylin peptides system in obese mice. *Exp Biol Med*. 2013; 238:90-97 (IF=2.954).
 26. Janete Quelhas-Santos, Cátia Fernandes-Cerqueira, Isabel Soares-Silva, Benedita Sampaio-Maia, Manuel Pestana. Sodium-Dependent modulation of systemic and urinary reninase expression and activity in the rat remnant kidney. *J Hypertens*. 2013; 31(3):543-553. (IF=4.021).
 27. Coentrão L, Santos-Araújo C, Dias C, Ribeiro C, Pestana M. Cost analysis of hemodialysis and peritoneal dialysis accesses in incident dialysis patients. *Perit Dial Int*. 2013 Mar 1. [Epub ahead of print] (in press) (IF=2.097).
 28. Coentrão L, Turmel L. Monitoring dialysis arteriovenous fistula: its in our hands. *J Vasc Access*. 2013 (in press) (IF=1.09).
 29. Coentrão L. Costs and outcomes of endovascular treatment of thrombosed dialysis autogenous fistulae. *Nefrologia*. 2013 (in press) (IF=1.00).

Livros/capítulos com ISBN [Book Chapters](#)

Resumos indexados na PubMed ou ISIs [Abstract in PubMed or ISIs indexed journals](#)

1. L Simões-Silva, M Moreira-Rodrigues, J Quelhas-Santos. Assessment of guanylin peptides system in hypertensive obese mice. *J Hypertens*, 2012; 30 (e-suppl A); e100
2. J Quelhas-Santos, P Serrão, I Soares-Silva, L Tang, B Sampaio-Maia, G Desir, M Pestana. Effects of recombinant renalase on renal dopamine activity in the renalase knockout mouse model. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
3. L Simões-Silva, M Moreira-Rodrigues, J Quelhas-Santos, C Fernandes-Cerqueira, M Pestana, I Soares-Silva, B Sampaio-Maia. Renal and intestinal guanylin peptides system in a mouse model of diet-induced obesity. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
4. L Coentrão, C Ribeiro, C Santos-Araújo, R Neto, M Pestana. Bundled payment for renal dialysis in a portuguese setting: economic implications. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
5. F Barros, R Vaz, B Carvalho, R Neto, P Martins, M Pestana. Alternative vascular Access for hemodialysis – a department’s experience. *Nephrol Dial Transpl*, 2012 May;27 Suppl 2:ii1-536.
6. L Coentrão, C Ribeiro, C Santos-Araújo, R Neto, M Pestana. Establishment and maintenance of vascular and peritoneal accesses in incident dialysis patients: a cost-effectiveness analysis. *Nephrol Dial Transpl*, 2012 May;27 Suppl 2:ii1-536.
7. MP Xavier, S Sampaio-Norton, S Gaião, H Alves, G Oliveira. GTR/TNFRSF18 is significantly up-regulated in fine-needle aspiration biopsy samples from stable as compared with acute rejection kidney transplants. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
8. MP Xavier, S Sampaio-Norton, S Gaião, H Alves, G Oliveira. PD-L2 is significantly up-regulated in fine-needle aspiration biopsy samples from stable as compared with acute rejection kidney transplants. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
9. MP Xavier, S Sampaio-Norton, S Gaião, H Alves, G Oliveira. Icos is significantly up-regulated in fine-needle aspiration biopsy samples from acute rejection kidney transplants. *Nephrol Dial Transpl*, , 2012 May;27 Suppl 2:ii1-536.
10. Castro-Chaves P, Nunes A, Santos-Araujo C, Oliveira A, Beco A, Quelhas D, Vasconcelos C, Pestana M, Cardoso MT, Teles EL. Atypical manifestations of a patient with mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like (Melas) episodes. *J Inherited Metabolic Disease*, 2012; 35(1):s120-s120.
11. Cardoso S, Figueiredo C, Santos A, Poínhos R, Piñeiro C, Xerinda S, Soares J, Marques R, Serrão R, Sarmento A. Factors associated with immune status in the diagnosis of HIV infection. *J Int AIDS Soc*. 2012 Nov 11;15(6):18210. doi: 10.7448/IAS.15.6.18210.
12. Piñeiro C, Xerinda S, Figueiredo C, Santos A, Soares J, Serrão R, Sarmento A. Genotypic susceptibility to etravirine-assessment in a population of NNRTI-experienced patients. *J Int AIDS Soc*. 2012 Nov 11;15(6):18208. doi: 10.7448/IAS.15.6.18208.
13. Pereira N, Caldas C, Azevedo C, Andrade P, Serrão R, Sarmento A. Infections and cancer after ARV: a Portuguese cohort. *J Int AIDS Soc*. 2012 Nov 11;15(6):18123. doi: 10.7448/IAS.15.6.18123.

Apresentações por convite *Oral presentations by invitation*

Nacionais *National*

Tema, autor, congresso, local, data

Internacionais *International*

49º ERA-EDTA Congress Paris, 24-27 2012

Symposium 28

Progression of CKD and associated cardiovascular complications

GRAND AMPHITHEATRE

2.2. Projectos financiados *Funded research*

Entidade Financiadora, Designação do Projecto/referência, Montante/ano

I. Fundação para a Ciência e a Tecnologia (FCT)

1. "Increased cardiovascular risk in chronic renal insufficiency. Role of the novel monoamine-oxidase reninase in the sympathetic and dopaminergic activities" – projecto PIC/IC/83029/2007 financiado integralmente pela FCT em Outubro de 2008 (em curso). PI: Manuel Pestana

II. Outros

1. "Risco Cardiovascular aumentado na infecção VIH. Contribuição da dimetilarginina assimétrica (ADMA) para a avaliação da disfunção endotelial. Estudo transversal e prospectivo". Projecto financiado com a Bolsa Pfizer de Investigação Clínica 2008 Professor Nicolau Bettencourt, atribuída pela Sociedade de Ciências Médicas de Lisboa em Outubro de 2008. PI's: Manuel Pestana e António Sarmento (em curso)
2. "Mechanisms of natriuretic peptide system dysfunction in nephrotic syndrome relationship with reduced renal dopaminergic system" – Project supported in 2011 by Portuguese Society of Nephrology. PI: Manuel Pestana (em curso)
3. "Fibroblast Growth Factor 23 (FGF-23) in patients on peritoneal dialysis: relationship with peritoneal transport and cardiovascular outcome" - Project supported in 2011 by Baxter Healthcare Corporation. PI: Manuel Pestana (em curso)

2.3. Prémios *Prizes and awards*

Em apresentações científicas *Scientific presentations*

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Atribuídos por instituições / sociedades a trabalhos/projectos *Research fellowships*

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2.4. Outras actividades *Other activities*

Em unidades de investigação *In research units*

A actividade apresentada foi integralmente desenvolvida no âmbito da Unidade de I&D de Nefrologia (FCT - 725) que tem sede no Serviço de Nefrologia do Hospital de S. João

Outras instituições *Other institutions*

3. Actividades de Formação *Education and medical training*

3.1. Idoneidades formativas *Post graduate medical training*

Idoneidade total Internato Formação Específica de Nefrologia

3.2. Actividade pedagógica *Education and teaching*

Curso de Mestrado Integrado em Medicina – Disciplina de Medicina do 5º ano – área de Nefrologia

3.3. Organização de reuniões *Organization of seminars/conferences*

4. Divulgação de conhecimento *Knowledge transfer*

4.1 Divulgação em meios de comunicação

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4.2. Outros

Doutoramentos

1. Carmen Ruiz de Valbuena Bueno – Doutoramento em Medicina pela FMUP com a tese intitulada “Doença de Fabry: Patogénese e Histopatologia”. Porto, 04 de Maio de 2012. Orientador: Prof. João Paulo Oliveira; co-orientador: Prof. David Warnock
2. Otília Adelina Pereira Lopes - Doutoramento em Medicina Dentária pela FMDUP com a tese intitulada “Oral Health in Renal Transplant Recipients Administered with Different Immunossuppressive Agents”. Porto, 23 de Setembro de 2012. Orientador: Prof. António Felino; co-orientador: Prof. Manuel Pestana