

STENGEL Bénédicte, MD, PhD

Research Director

Head of the CESP_Renal and Cardiovascular Epidemiology Team

CESP Deputy Director for International Affairs

Curriculum Vitae

Center, Institute and University Affiliations

Center for Research in Epidemiology and Population Health (Director, B. Falissard)
Inserm U1018, Paris-Saclay University, Paris-Sud University, UVSQ
Renal and Cardiovascular Epidemiology Team

Contact Information

Inserm U1018, Renal and Cardiovascular Epidemiology Team
16, avenue Paul Vaillant Couturier
F-94 807 Villejuif
Phone : 33 1 45 59 50 39
Email : benedicte.stengel@inserm.fr

Experience and accomplishments

EDUCATION

MD, Necker-Enfants Malades School of Medicine, University Paris Descartes, 1982
PhD, School of Public Health, University Paris Sud, 1993
Accreditation to Supervise Research (HDR), Paris Sud University, 2006

EXPERIENCE

Research fellow, Inserm, 1989-2009
Sabbatical year at Johns Hopkins School of Public Health (Baltimore, USA) 1999-2000
Research Director, Inserm, 2009-
Head, Renal and Cardiovascular Epidemiology Team, 2015-
Deputy Director, Center for Research in Epidemiology and Population Health, 2015-

TEACHING ACTIVITIES

School of Public Health, University Paris Sud, 1989-92
CESAM Epidemiology (continuing education) Univ Paris Pierre et Marie Curie, 1990-94
CESAM Epidemiology (continuing education) Univ Paris Pierre et Marie Curie, 1990-99
Master of Science and Technology, Epidemiology, University Paris Sud, 1995-00
University Degree, Chronic Kidney Disease, University Paris Descartes, 2005-06
Master of Public Health, Cardiovascular Epidemiology, Univ Paris Sud, 2005-07
PhD Seminar « Epidemiology of Chronic Kidney Disease », Univ Paris Sud 2016-17

HONORS AND AWARDS

Environnement-Health Award, 1995 (under the patronage of the Ministry of Labour and Social Affairs, the Ministry of Environment, and the Academy of Medicine)
Health Reference Award, Academy of Medicine, 2010

Research Interests

Chronic kidney disease (CKD) Epidemiology – To quantify the burden of CKD and its complications in the population. To study the determinants and outcomes of CKD, including mortality, morbidity, patient quality of life and hospitalisations. To identify new biomarkers of CKD progression and complications. To evaluate the impact of preventive measures and health policies on end-stage renal disease incidence and CKD cost.

Research project leadership

NephroTest – Cohort study of over 2,000 adult patients included from 2000 to 2012 with chronic kidney disease stages 1 to 5 from all causes and followed until Dec 31, 2013 for CKD progression, metabolic and cardiovascular complications. All patients have extensive work-up at baseline with kidney function measured with a reference method (51-Cr EDTA renal clearance). Study coordinator.

CKD-REIN – *Investment for the future* project. Cohort study including 3,000 adult patients with CKD stages 3 and 4 selected from 40 nephrology clinics geographically representative as well as for their legal status from 2013 to 2015. Extensive data collection and biobank. 5-year follow-up until Dec 31, 2020. Study coordinator.

National REIN registry – A national registry including all patients on dialysis or transplanted for end-stage renal disease (ESRD) in France to follow trends in the incidence, prevalence and survival of ESRD. Member of the national coordination.

Scientific committee and consortium membership

SCIENTIFIC COMMITTEES

European Dialysis & Transplant Association Registry Scientific Advisory Board, 1998-2006
Ministry of Health (DGOS) Chronic Renal Insufficiency Steering Committee, 2002-2010
Inserm-Society of Nephrology, Interface Committee Coordination (2003-2007)
National Research Program for Renal and Urinary Diseases - Co-coordination, 2007-09
Public Health Research Institute Strategic Orientation Committee, 2007-2012
Medico-economic evaluation of strategies for the management of end-stage renal disease in France - French Health Authority Expert Group, 2011-2014.

CONSORTIUM MEMBERSHIP

Chronic Kidney Disease Prognosis Consortium led by J Coresh (Johns Hopkins, Baltimore, US). Meta-analyses of 45 cohorts including NephroTest. Member of the steering committee, since 2009-.

CKDopps (Chronic Kidney Disease Outcomes and Practice Study), an international study led by B. Robinson, Arbor Research, Ann Arbor, USA. Includes data from CKD-REIN. Co-chair of CKDopps steering committee, since 2011.

International Network of Chronic Kidney Disease Cohorts (iNET-CKD) led by H. Feldmann (USA) and KU Eckhart (Germany). Steering committee member, since 2014.

Publications

FREQUENTLY CITED PAPERS (AS OF JANUARY, 2018)

Coresh J, Turin TC, Matsushita K, Sang Y, Ballew SH, Appel LJ, Arima H, Chadban SJ, Cirillo M, Djurdjev O, Green JA, Heine GH, Inker LA, Irie F, Ishani A, Ix JH, Kovesdy CP, Marks A, Ohkubo T, Shalev V, Shankar A, Wen CP, de Jong PE, Iseki K, **Stengel B**, Gansevoort RT, Levey AS; CKD Prognosis Consortium. Decline in estimated glomerular filtration rate and subsequent risk of end-stage renal disease and mortality. **JAMA** 2014 Jun 25;311(24):2518-31. **Times cited ~ 209**

Stengel B, Tarver-Carr ME, Powe NR, Eberhardt MS, Brancati FL. Lifestyle factors, obesity, and the risk for chronic kidney disease in U.S. adults. **Epidemiology** 14(4):479-87, 2003. **Times cited ~ 201**

Stanescu HC*, Arcos-Burgos M*, Medlar A*, Bockenhauer D, Dragomirescu L, Voinescu C, Patel N, Pearce K, Hubank M, Stephens H, Laundy V, Padmanabhan S, Zawadsk A, Hofstra JM, Coenen MJ, den Heijer M, Kiemeneij LALM, Zelenica D, **Stengel B**, Powis S, Brenchley P, Feehally J, Rees A, Debiec H, Wetzel JSF*, Ronco P*, Mathieson P*, Kleta R*. A rare HLA-DQA1 allele is associated with primary membranous nephropathy and interacts with PLA2R1 alleles. **New England Journal of Medicine** 364(7):616-26, 2011. **Times cited ~ 195**

Moranne O, Froissart M, Rossert J, Gauci C, Boffa JJ, Haymann JP, BenMrad M, Jacquot C, Houiller P, **Stengel B**, Fouqueray B and the NephroTest Study Group. Timing of onset of CKD-related metabolic complications. **Journal of the American Society of Nephrology** 20(1):164-71, 2009. **Times cited ~ 167**

Mahmoodi BK, Matsushita K, Woodward M, Blankestijn PJ, Cirillo M, Ohkubo T, Rossing P, Sarnak MJ, **Stengel B**, Yamagishi K, Yamashita K, Zhang L, Coresh J, de Jong PE, Astor BC; Chronic Kidney Disease Prognosis Consortium. Associations of kidney disease measures with mortality and end-stage renal disease in individuals with and without hypertension: a meta-analysis. **Lancet.** 2012 Nov 10;380(9854):1649-61. doi: 10.1016/S0140-6736(12)61272-0. Epub 2012 Sep 24. Review. Erratum in: **Lancet.** 2012 Nov 10;380(9854):1648. **Times cited ~ 164**

Stengel B, Billon S, van Dijk PCW, Jager K, Dekker FW, Simpson K, Briggs D, on behalf of the ERA-EDTA Registry Committee. Trends in the incidence of renal replacement therapy for end-stage renal disease in Europe 1990-1999. **Nephrology Dialysis Transplantation** 18 :1824-33,2003. **Times cited ~ 163**

Couchoud C, Labeeuw M, Moranne O, Allot V, Esnault V, Frimat L, **Stengel B**; for the French Renal Epidemiology and Information Network (REIN) registry. A clinical score to predict 6-month prognosis in elderly patients starting dialysis for end-stage renal disease. **Nephrology Dialysis Transplantation** 24(5):1553-61, 2009. **Times cited ~ 138**

Kiryluk K, Li Y, Scolari F, Sanna-Cherchi S, Choi M, Verbitsky M, Fasel D, Lata S, Prakash S, Shapiro S, Fischman C, Snyder HJ, Appel G, Izzi C, Viola BF, Dallera N, Del Vecchio L, Barlassina C, Salvi E, Bertinetto FE, Amoroso A, Savoldi S, Rocchietti M, Amore A, Peruzzi L, Coppo R, Salvadori M, Ravani P, Magistroni R, Ghiggeri GM, Caridi G, Bodria M, Lugani F, Allegri L, Delsante M, Maiorana M, Magnano A, Frasca G, Boer E, Boscutti G, Ponticelli C, Mignani R, Marcantonio C, Di Landro D, Santoro D, Pani A, Polci R, Feriozzi S, Chicca S, Galliani M, Gigante M, Gesualdo L, Zamboli P, Battaglia GG, Garozzo M, Maixnerová D, Tesar V, Eitner F, Rauen T, Floege J, Kovacs T, Nagy J, Mucha K, Pączek L, Zaniew M, Mizerska-Wasiak M, Roszkowska-Blaim M, Pawlaczyk K, Gale D, Barratt J, Thibaudin L, Berthoux F, Canaud G, Boland A, Metzger M, Panzer U, Suzuki H, Goto S, Narita I, Caliskan Y, Xie J, Hou P, Chen N, Zhang H, Wyatt RJ, Novak J, Julian BA, Feehally J, **Stengel B**, Cusi D, Lifton RP, Gharavi AG. *Novel GWAS Loci for IgAN Implicate Immunity Against Intestinal Pathogens.* **Nature Genetics**, 2014 Nov;46(11):1187-96. **Times cited ~ 111**

SELECTED RECENT PAPERS

- Mercadal L, Franck JE, Metzger M, Urena Torres P, de Cornelissen F, Edet S, Bechade C, Vigneau C, Drueke T, Jacquelinet C, **Stengel B**, on behalf the REIN registry. *Hemodiafiltration versus hemodialysis and survival in patients with ESRD: The French REIN registry. Am J Kidney Dis.* 2016 Aug;68(2):247-55.
- Rossignol P, Massy ZA, Azizi M, Bakris G, Ritz E, Covic A, Goldsmith D, Heine GH, Jager KJ, Kanbay M, Mallamaci F, Ortiz A, Vanholder R, Wiecek A, Zoccali C, London GM, **Stengel B**, Fouque D. The double challenge of resistant hypertension and chronic kidney disease. *The Lancet* 2015 Oct 17;386(10003):1588-98
- Tangri N, Grams ME, Levey AS, Coresh J, Appel L, Astor BC, Chodick G, Collins AJ, Djurdjev O., Elley R, Evans M, Garg AX, Hallan SI, Inker L, Ito S, Jee SH, Kovesdy CP, Kronenberg F, Lambers Heerspink HJ, Marks A, Nadkarni GN, Navaneethan SD, Nelson RG, Titze S, Sarnak MJ, **Stengel B**, Woodward M, Iseki K, for the CKD Prognosis Consortium. A *multinational assessment of accuracy of kidney failure risk equations: a meta-analysis. JAMA* 2016 Jan 12;315(2):164-74.
- Taine M, **Stengel B**, Forhan A, Carles S, Botton J, Charles MA, Heude B; EDEN Mother-Child Cohort Study Group. Rapid Early Growth May Modulate the Association Between Birth Weight and Blood Pressure at 5 years in the EDEN Cohort Study. *Hypertension*. 2016, 68(4):859-65.
- Boucquemont J, Loubère L, Metzger M, Combe C, **Stengel B**, Leffondre K; NephroTest Study Group. Identifying subgroups of renal function trajectories. *Nephrol Dial Transplant*. 2017 Apr 1;32(suppl_2):ii185-ii193
- Pinho-Alencar N*, Coscas R*, Metzger M, Labeeuw M, Loos-Ayav C, Jacquelinet J, Massy ZA, **Stengel B** on behalf of the French REIN registry. Vascular access conversion and patient outcome after hemodialysis initiation with a non-functional arteriovenous fistula : a prospective registry-based study. *BMC nephrology* 2017, 18(1):74.
- Kaboré J, Metzger M, Helmer C, Berr C, Tzourio C, Massy ZA, **Stengel B**. Apparent treatment-resistant hypertension, chronic kidney disease and outcomes in the elderly. *Kidney International reports* 2017, 2:180-191.
- Metzger M, Yuan WL, Haymann JP, Flamant M, Houillier P, Thervet E, Boffa JJ, Vrtovsnik F, Froissart M, Bankir L, Fouque D, **Stengel B** on behalf of the Nephrotest Study Group. Association of a low-protein diet with slower progression of chronic kidney disease. *Kidney International reports* 2017, Vol. 3, Issue 1, p105–114
- Affret A, Wagner S, El Fatouhi D, Dow C, Correia E, Niravong M, Clavel-Chapelon F, De Chefdebien J, Fouque D, **Stengel B**, Boutron-Ruault MC, Fagherazzi G. Validity and reproducibility of a short food frequency questionnaire among patients with chronic kidney disease. *BMC Nephrology* 2017 Sep 15;18(1):297
- Wagner S, Metzger M, Flamant M, Houillier P, Haymann JP, Vrtovsnik F, Thervet E, Boffa JJ, Massy ZA, **Stengel B**, Rossignol P for the Nephrotest Study group. Association of serum potassium with mortality and end-stage kidney disease in patients with chronic kidney disease under optimized nephrologist care - The Nephrotest study. *BMC Nephrology* 2017 Sep 12;18(1):295.
- Coresh J, Hu J-R, Bello AK, Feldman HI, Fogo AB, Ganji MR, Harris DC, Levey AS, Okpechi IG, **Stengel B**, Thomas B, Wiecek A, Gansevoort RT. Action plan for determining and monitoring the prevalence of chronic kidney disease. *Kidney Int Suppl*. 2017 Oct 1;7(2):63–70.
- Perkovic V, Craig JC, Chaillimpongmontree W, Fox CS, Garcia-Garcia G, Benghanem Gharbi M, Jardine MG, Okpechi IG, Pannu N, **Stengel B**, Tuttle KR, Uhlig K, Levey AS. Action plan for optimizing the design of clinical trials in chronic kidney disease. *Kidney Int Suppl*. 2017 Oct 1;7(2):138–144
- Stengel B**, Metzger M, Combe C, Jacquelinet C, Briançon S, Ayav C, Fouque D, Laville M, Frimat L, Pascal C, Herpe YE, Morel P, Deleuze JF, Schanstra J, Lange C, Legrand K, Liabeuf S, Speyer E, Robinson BM, Massy ZA. Risk profile and experience of patients with moderate or advanced CKD - The French Chronic Kidney Disease – Renal Epidemiology and Information Network (CKD-REIN) Cohort Study. *Nephrol Dial Transplant*. 2017 (in press)