



## INFORMATIONS PERSONNELLES

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## EXPERIENCE PROFESSIONNELLE

- Dates (de – à) 2011 à présent
- Nom et adresse de l'employeur EHESP Rennes, département METIS
- Fonction ou poste occupé Enseignante-chercheure
- Principales activités et responsabilités  
Depuis 1/1/2022 : directrice du département METIS  
2014-2021 : directrice adjointe du département METIS  
Enseignement : Epidémiologie, Biostatistiques, Données de santé, système d'information en santé  
Affiliation recherche : Unité INSERM 1309 « Recherche sur les Services et le Management en Santé, CNRS, ARENES – UMR 6051  
Domaine de recherche : Epidémiologie rénale, Exploitation des données de santé dans le cadre de l'étude de parcours de soins des insuffisants rénaux chronique et l'accès à la greffe rénale
- Dates (de – à) 2007 à 2011
- Nom et adresse de l'employeur CHU Rennes
- Fonction ou poste occupé AHU – PH Attachée associée CHU Rennes
- Principales activités et responsabilités  
Enseignement Biostatistiques  
Recherche en biostatistique, Méthodes d'extraction et d'analyse de données  
(ex : Entrepôt de données biomédicales, PMSI,..)
- Dates (de – à) 2006 à 2007
- Nom et adresse de l'employeur Société Cardibase Nancy
- Fonction ou poste occupé Expert méthodologique et biostatistique
- Dates (de – à) 2004 à 2005
- Nom et adresse de l'employeur Faculté de Médecine de Nancy
- Fonction ou poste occupé Assistante associée
- Dates (de – à) 1999 à 2003
- Nom et adresse de l'employeur CHU Rennes
- Fonction ou poste occupé Internat de santé publique

## EDUCATION ET FORMATION

- Dates (de – à) 2017
- Nom et type de l'établissement dispensant l'enseignement Université de Rennes 1
- Intitulé du certificat ou diplôme délivré Habilitation à Diriger des recherches (HDR) en sciences de la vie
- Dates (de – à) 2005-2008
- Nom et type de l'établissement dispensant l'enseignement Université Nancy 1
- Intitulé du certificat ou diplôme délivré Doctorat d'Université en Santé Publique et Epidémiologie
- Dates (de – à) 2004-2005
- Nom et type de l'établissement dispensant l'enseignement Université Nancy 1
- Principales matières/compétences professionnelles couvertes DEA Epidémiologie Clinique et Evaluation des Actions de Santé
- Dates (de – à) 2002-2003
- Nom et type de l'établissement dispensant l'enseignement Université Rennes 1
- Principales matières/compétences professionnelles couvertes DESS Traitement de l'Information Médicale et Hospitalière
- Dates (de – à) 1999-2003
- Nom et type de l'établissement dispensant l'enseignement Université Rennes 1
- Principales matières/compétences professionnelles couvertes Internat de santé publique
- Dates (de – à) 1999
- Nom et type de l'établissement dispensant l'enseignement Université Ispahan - Iran
- Intitulé du certificat ou diplôme délivré Diplôme de Médecine Générale

## CONTRATS DE RECHERCHE OBTENUS (INVESTIGATEUR PRINCIPAL) :

**2023-2025** : « CKD-Care : Prevalence, care processes and outcomes of chronic kidney disease among a population hospitalized in the west region of France », INSERM, Inserm-MESSIDORE n°69

**2020-2024** : « WATT: Women Acces To kidney Transplantation », ANR, ANR-20-CE36-0002-01

**2019-2020** : « The pre-dialysis care trajectory of end stage renal disease patients starting dialysis in emergency », Fondation Paul Bennetot

**2018-2021** : « The Pre-Dialysis Care Trajectory of Chronic Kidney Disease Patients and the Start of Dialysis in Emergency: A Mixed Method Study Protocol », Agence de la Biomédecine

**2014-2017** : « Patients on daily hemodialysis: characteristics, trajectories, survival and access to renal transplantation », Agence de la Biomédecine

**2013-2016** : « AGIR (Accès à la Greffe des Insuffisants Rénaux) – Access to renal transplantation of end stage renal disease patients in two French regions », ANR-11-IDEX-0005-02

**2012-2014** : « Social inequalities and end stage renal disease in Bretagne region », Agence de la Biomédecine

## CONTRATS DE RECHERCHE OBTENUS (INVESTIGATEUR ASSOCIE) :

**2015-2019** : « INSHARE: Integrating and Sharing Health data for REsearch », ANR-15-CE19-0024-04

## ACTIVITES DE DIRECTION :

Depuis le 1er janvier 2022 : Directrice du département Méthodes quantitative en santé publique (METIS), EHESP

2014-2021 : Directrice adjointe du département METIS, EHESP

## PUBLICATIONS DANS LES REVUES AVEC COMITE DE LECTURE (INDEXEES) :

1. Calvar E, Launay L, Bayat-Makoei S, Bauwens M, Lassalle M, Couchoud C, Lobbedez T, Châtelet V. Social deprivation reduced registration for kidney transplantation through markers of nephrological care: a mediation analysis. *J Clin Epidemiol*. 2023 Mar 10;157:92-101. doi: 10.1016/j.jclinepi.2023.03.005
2. Adoli L, Raffray M, Châtelet V, Vigneau C, Lobbedez T, Gao F, Bayer F, Campéon A, Vabret E, Laude L, Jais JP, Daugas E, Couchoud C, Bayat S. Women's Access to Kidney Transplantation in France: A Mixed Methods Research Protocol. *Int J Environ Res Public Health*. 2022 Oct 19;19(20):13524.
3. Laruelle E, Huré F, Dolley-Hitze T, Vanorio-Vega I, Bayat S, Couchoud C; REIN registry. Home Dialysis Does Not Have the Monopoly on Low Cost. *Kidney Int Rep*. 2022 Oct 27;8(1):188-196. doi: 10.1016/j.ekir.2022.10.021.
4. Raffray M, Vigneau C, Couchoud C, Laude L, Campéon A, Schweyer FX, Bayat S. The dynamics of the general practitioner-nephrologist collaboration for the management of patients with chronic kidney disease before and after dialysis initiation: a mixed-methods study. *Therapeutic Advances in Chronic Disease*. 2022 Sep 29;13:20406223221108397.
5. Mansouri I, Raffray M, Lassalle M, de Vathaire F, Fresneau B, Fayeche C, Lazareth H, Haddy N, Bayat S, Couchoud C; group REDSIAM. An algorithm for identifying chronic kidney disease in the French national health insurance claims database. *Nephrol Ther*. 2022 Jul;18(4):255-262. doi: 10.1016/j.nephro.2022.03.003.
6. Pétureau A, Raffray M, Polard E, Couchoud C, Vigneau C, Bayat S. Analysis of the association between emergency dialysis start in patients with end-stage kidney disease and non-steroidal anti-inflammatory drugs, proton-pump inhibitors, and iodinated contrast agents. *J Nephrol*. 2021 Apr 20. doi: 10.1007/s40620-020-00952-5.
7. Grimaud O, Bayat S, Renault A, Maury E, Pottecher J, Dolz M, Braun F, Fermanian C, Ricard-Hibon A, Prieto N, Philippe JM, Leray E. TRANSCOV cohort protocol: an epidemiological study assessing the impact of critically ill COVID-19 patients long distance transfers between intensive care units. *BMJ Open*. 2021 Oct 21;11(10):e054774. doi: 10.1136/bmjopen-2021-054774.
8. Couchoud C, Bayer F, Rabilloud M, Ayav C, Bayat S, Bechade C, Brunet P, Gomis S, Savoye E, Moranne O, Lobbedez T, Ecochard R; REIN registry. Effect of age and care organization on sources of variation in kidney transplant waiting list registration. *Am J Transplant*. 2021 Nov;21(11):3608-3617. doi: 10.1111/ajt.16694. Epub 2021 Jun 14. PMID: 34008288
9. Raffray M, Vigneau C, Couchoud C, Bayat S. Predialysis Care Trajectories of Patients With ESKD Starting Dialysis in Emergency in France. *Kidney Int Rep*. 2020 Oct 31;6(1):156-167. doi: 10.1016/j.ekir.2020.10.026.
10. Pladys A, Defossez G, Lemordant P, Lassalle M, Ingrand P, Jacquelinet C, Riou C, Bouzillé G, Van Hille P, Vigneau C, Cuggia M, Bayat S. Cancer risk in dialyzed patients with and without diabetes. *Cancer Epidemiol*. 2020 Apr;65:101689. doi: 10.1016/j.canep.2020.101689. Epub 2020 Feb 29.
11. Vabret E, Vigneau C, Bayat S, Frimat L, Monnet É, Hannedouche T, Jacquelinet C. Who are these patients on dialysis and not on the kidney transplant waiting list? *Nephrol Ther*. 2020 May;16(3):139-146. doi: 10.1016/j.nephro.2020.02.014. Epub 2020 May 11.
12. Pladys A, Vigneau C, Raffray M, Sautenet B, Gentile S, Couchoud C, Bayat S. Contribution of medico-administrative data to the development of a comorbidity score to predict mortality in End-Stage Renal Disease patients. *Sci Rep*. 2020 May 22;10(1):8582. doi: 10.1038/s41598-020-65612-x.
13. Neufcourt L, Deguen S, Bayat S, Zins M, Grimaud O. Gender differences in the association between socioeconomic status and hypertension in France: A cross-sectional analysis of the CONSTANCES cohort. *PLoS One*. 2020 Apr 20;15(4):e0231878. doi: 10.1371/journal.pone.0231878. eCollection 2020.
14. Raffray M, Bayat S, Lassalle M, Couchoud C. Linking disease registries and nationwide healthcare administrative databases: the French renal epidemiology and information network (REIN) insight. *BMC Nephrol*. 2020 Jan 28;21(1):25. doi: 10.1186/s12882-020-1692-4
15. Raffray M, Bayat S, Campéon A, Laude L, Vigneau C. The Pre-Dialysis Care Trajectory of Chronic Kidney Disease Patients and the Start of Dialysis in Emergency: A Mixed Method Study Protocol. *Int J Environ Res Public Health*. 2019 Dec 9;16(24):5010. doi: 10.3390/ijerph16245010.
16. Pladys A, Bayat S, Couchoud C, Vigneau C, McDonald S. Daily hemodialysis practices in Australia/New Zealand and in France: a comparative cohort study. *BMC Nephrol*. 2019 May 7;20(1):156. doi: 10.1186/s12882-019-1330-1. PMID: 31064344.
17. Peyronnet B, Gao F, Brochard C, Oger E, Scailteux LM, Balusson F, Hascoet J, Alimi Q, Khene ZE, Bayat S, Jezequel M, Olivari C, Voiry C, Kerdraon J, Bouguen G, Game X, Siproudhis L, Manunta A. Urologic Disorders are Still the Leading Cause of In-hospital Death in Patients With Spina Bifida. *Urology*. 2020 Mar;137:200-204. doi: 10.1016/j.urology.2019.11.006. Epub 2019 Nov 14.
18. Neufcourt L, Deguen S, Bayat S, Paillard F, Zins M, Grimaud O. Geographical variations in the prevalence of hypertension in France: Cross-sectional analysis of the CONSTANCES cohort. *Eur J Prev Cardiol*. 2019 Aug;26(12):1242-1251. doi: 10.1177/2047487319842229.

19. Pladys A, Morival C, Couchoud C, Jacquelinet C, Laurain E, Merle S, Vigneau C, Bayat S. Outcome-dependent geographic and individual variations in the access to renal transplantation in incident dialyzed patients: a French nationwide cohort study. *Transpl Int*. 2019 Apr;32(4):369-386. doi: 10.1111/tri.13376. Epub 2018 Dec 6.
20. Le Meur N, Vigneau C, Lefort M, Lebbah S, Jais JP, Daugas E, Bayat S. Categorical state sequence analysis and regression tree to identify determinants of care trajectory in chronic disease: Example of end-stage renal disease. *Stat Methods Med Res*. 2019 Jun;28(6):1731-1740. doi: 10.1177/0962280218774811
21. Kammerer-Jacquet SF, Brunot A, Lefort M, Bayat S, Peyronnet B, Verhoest G, Mathieu R, Lespagnol A, Mosser J, Laguerre B, Ravaud A, Bernhard JC, Dupuis F, Yacoub M, Belaud-Rotureau MA, Bensalah K, Rioux-Leclercq N. Metastatic Clear-cell Renal Cell Carcinoma With a Long-term Response to Sunitinib: A Distinct Phenotype Independently Associated With Low PD-L1 Expression. *Clin Genitourin Cancer*. 2019 Jun;17(3):169-176.e1. doi: 10.1016/j.clgc.2019.01.014. Epub 2019 Feb 4.
22. Padilla CM, Raffray M, Pladys A, Vigneau C, Bayat S. Geographic Variations in the Risk of Emergency First Dialysis for Patients with End Stage Renal Disease in the Bretagne Region, France. *Int J Environ Res Public Health*. 2018 Dec 21;16(1). pii: E18. doi: 10.3390/ijerph16010018.
23. Istvan M, Lecoffre C, Bayat S, Béjot Y, Le Strat Y, De Peretti C, Gao F, Olié V, Grimaud O. What is the evolution of stroke unit's accessibility in metropolitan France from 2009 to 2014? A trend analysis of over 600 000 patients using national hospital databases. *BMJ Open*. 2018 Sep 28;8(9):e023599. doi: 10.1136/bmjopen-2018-023599.
24. Lefort M, Neufcourt L, Pannier B, Vaïsse B, Bayat S, Grimaud O, Girerd X. Sex differences in adherence to antihypertensive treatment in patients aged above 55: The French League Against Hypertension Survey (FLAHS). *J Clin Hypertens (Greenwich)*. 2018 Oct;20(10):1496-1503. doi: 10.1111/jch.13387. Epub 2018 Sep 21.
25. Michel A, Pladys A, Bayat S, Couchoud C, Hannedouche T, Vigneau C. Deleterious effects of dialysis emergency start, insights from the French REIN registry. *BMC Nephrol*. 2018 Sep 17;19(1):233. doi: 10.1186/s12882-018-1036-9.
26. Le Guillou A, Pladys A, Kihal W, Siebert M, Haddj-Elmrabet A, Cernon C, Bernard A, Charasse C, Mandart L, Hamel D, Tanquerel T, Strullu B, Richer C, Siohan P, Sawadogo T, Baleynaud J, Baluta S, Bayat S, Vigneau C. [Is cancer incidence different between type 2 diabetes patients compared to non-diabetics in hemodialysis? A study from the REIN registry]. *Nephrol Ther*. 2018 May;14(3):142-147. doi: 10.1016/j.nephro.2017.02.018.
27. Pladys A, Vigneau C, Hourmant M, Duneau G, Couchoud C, Bayat S; REIN registry. Association between daily haemodialysis, access to renal transplantation and patients' survival in France. *Nephrology (Carlton)*. 2018 Mar;23(3):269-278. doi: 10.1111/nep.12974.
28. Châtelet V, Bayat-Makoei S, Vigneau C, Launoy G, Lobbedez T. Renal transplantation outcome and social deprivation in the French healthcare system: a cohort study using the European Deprivation Index. *Transpl Int*. 2018 Oct;31(10):1089-1098. doi: 10.1111/tri.13161. Epub 2018 Apr 16.
29. Trébern-Launay K, Kessler M, Bayat S, Quéraud A, Briançon S, Giral M, Foucher Y. Horizontal mixture model for competing risks: a method to obtain easily interpretable results by both physicians and patients - illustration for waitlisted renal transplant candidates in a perspective of patient-centered decision making. *Eur J Epidemiol*. 2018 Mar;33(3):275-286. doi: 10.1007/s10654-017-0322-3. Epub 2017 Oct 30.
30. Belaid L, Bayat-Makoei S, Laguerre B, Vigneau C. [Monitoring of hypertension in patients orally treated by angiogenesis inhibitor in daily practice]. *Nephrol Ther*. 2018 Apr;14(2):99-104. doi: 10.1016/j.nephro.2017.04.006. Epub 2017 Dec 26.
31. Châtelet V, Lobbedez T, Harambat J, Bayat-Makoei S, Glowacki F, Vigneau C. [Socioeconomic inequalities and kidney transplantation]. *Nephrol Ther*. 2018 Apr;14(2):81-84. doi: 10.1016/j.nephro.2017.04.003. Epub 2017 Dec 1.
32. Prévot J, Bayat S, Vigneau C. [Reasons for first-consultation in nephrology in the health area 5 of Brittany during the year 2014]. *Nephrol Ther*. 2017 Apr;13(2):67-75. doi: 10.1016/j.
33. Kammerer-Jacquet SF, Brunot A, Bensalah K, Campillo-Gimenez B, Lefort M, Bayat S, Ravaud A, Dupuis F, Yacoub M, Verhoest G, Peyronnet B, Mathieu R, Lespagnol L, Mosser J, Edeline J, Laguerre B, Bernhard JC, Rioux-Leclercq N. Hilar fat infiltration: a new prognostic factor in metastatic clear cell renal cell carcinoma with first-line sunitinib treatment. *Urologic Oncology*. 2017 Oct;35(10):603. e7-603.e14. doi: 10.1016/j.urolonc.2017.05.015.
34. Vigneau C, Kolko A, Stengel B, Jacquelinet C, Landais P, Rieu Ph, Bayat S, Couchoud C. Ten-year trend in Renal Replacement Therapy for end-stage renal disease in Mainland France: lessons from the French Renal Epidemiology and Information Network (REIN) registry. *Nephrol Ther*. 2017 Jun;13(4):228-235.
35. Bouzillé G, Westerlynyck R, Defossez G, Boulimi D, Bayat S, Riou C, Busnel Y, Le Guillou C, Cauvin JM, Jacquelinet C, Pladys P, Oger E, Stindel E, Ingrand P, Coatrieux G, Cuggia M. Sharing Health Big Data for Research - A Design by Use Cases: The INSHARE Platform Approach. *Stud Health Technol Inform*. 2017;245:303-307.
36. Lefort M, Vigneau C, Laurent A, Lebbah S, Le Meur N, Jais JP, Daugas E, Bayat S. Facilitating the access to the renal transplant waiting list does not increase the number of transplantations: comparative study of two French regions. *Clin Kidney J*. 2016 Dec;9(6):849-857.
37. Pladys A, Bayat S, Kolko, Béchade C, Couchoud C, Vigneau C. French patients on Daily Hemodialysis: clinical characteristics and treatment trajectories. *BMC Nephrol*. 2016 Jul 29;17(1):107.
38. Kihal-Talantikite W, Vigneau C, Deguen S, Siebert M, Couchoud C, Bayat S. Influence of socio-economic inequalities on access to renal transplantation and survival of patients with end-stage renal disease. *PLoS One*. 2016 Apr 15;11(4):e0153431.
39. Le Meur N, Gao F, Bayat S. Mining care trajectories using health administrative information systems: the use of state sequence analysis to assess disparities in prenatal care consumption. *BMC Health Serv Res*. 2015 May 15;15(1):200.

40. Pladys A, Couchoud C, LeGuillou A, Siebert M, Vigneau C, Bayat S. Type 1 and type 2 diabetes and cancer mortality in the 2002-2009 cohort of 39 811 French dialyzed patients. *PLoS One*. 2015 May 12;10(5):e0125089.
41. Bayat S, Macher MA, Couchoud C, Bayer F, Villar E, Caillé Y, Mercier S, Joyeux V, Noel C, Kessler M, Jacquelinet C. Individual and regional factors of access to the renal transplant waiting list in France in a cohort of dialyzed patients. *Am J Transplant* 2015, 15(4); 1050-1060.
42. Kihal-Talantikite W, Deguen S, Padilla C, Siebert M, Couchoud C, Vigneau C, Bayat S. Spatial distribution of end-stage renal disease (ESRD) and social inequalities in mixed urban and rural areas: a study in the Bretagne administrative region of France. *Clin Kidney J*. 2015 Feb;8(1):7-13.
43. Campillo-Gimenez B, Jouini W, Bayat S, Cuggia M. K-nearest neighbor algorithm coupled with logistic regression in medical case-based reasoning systems. Application to prediction of access to the renal transplant waiting list in Brittany. *PLOS One*. 2013 Sep 9;8(9):e71991.
44. Couchoud C, Bayat S, Villar E, Jacquelinet C, Ecochard R, on behalf of the REIN registry. A new approach to measure gender disparity in access to renal transplantation waiting list. *Transplantation* 2012 Sep 15;94(5):513-9.
45. Campillo-Gimenez B, Bayat S, Cuggia M. K-nearest neighbors algorithm coupled with logistic regression in case-based reasoning. *Stud Health Technol Inform* 2012;180:275-9.
46. Becker S, Lepareur N, Cadeillan V, Ardisson V, Bayat S, Noiret N, Garin E. Optimization of Hepatocarcinoma Uptake with Radiolabeled Lipiodol: Development of New Lipiodol Formulations with Increased Viscosity. *Cancer Biother Radiopharm*. 2012 Mar;27(2):149-55.
47. Jouveau S, Boché A, Brinchault G, Fekete K, Guillot S, Bayat S, Desrues B. On-site screening of farming-induced chronic obstructive pulmonary disease with the use of an electronic mini-spirometer: results of a pilot study in Brittany, France. *Int Arch Occup Environ Health*. 2012 Aug;85(6):623-30.
48. Bayat S, Kessler M, Briançon S, Frimat L. Survival of transplanted and dialysed patients in a French region with focus on outcomes in the elderly. *Nephrol Dial Transplant*. 2010 Jan;25(1):292-300.
49. Cuggia M, Bayat S, Garcelon N, Sanders L, Rouget F, Coursin A, Pladys P. A full-text information retrieval system for an epidemiological registry. *Stud Health Technol Inform* 2010;160(Pt 1):491-5.
50. Becker S, Ardisson V, Lepareur N, Sergent O, Bayat S, Noiret N, Gaboriau F, Clément B, Boucher E, Raoul JL, Garin E. Increased Lipiodol uptake in hepatocellular carcinoma possibly due to increased membrane fluidity by dexamethasone and tamoxifen. *Nucl Med Biol*. 2010 Oct;37(7):777-84.
51. Le Dortz L, De Guibert S, Bayat S, Devillers A, Houot R, Rolland Y, Cuggia M, Le Jeune F, Bahri H, Barge ML, Lamy T, Garin E. Diagnostic and prognostic impact of 18F-FDG PET/CT in follicular lymphoma. *Eur J Nucl Med Mol Imaging*. 2010 Dec;37(12):2307-14.
52. Bayat S, Cuggia M, Rossille D, Kessler M, Frimat L. Comparison of Bayesian network and decision tree methods for predicting access to the renal transplant waiting list. *Stud Health Technol Inform*. 2009;150:600-4.
53. Cuggia M, Bayat S, Rossille D, Poulain P, Pladys P, Robert H, Duvauferrier R. Comparing the Apgar Score representation in HL7 and OpenEHR formalisms. *Stud Health Technol Inform*. 2009;150:250-4.
54. Bayat S, Cuggia M, Kessler M, Briançon S, Le Beux P, Frimat L. Modelling access to renal transplantation waiting list in a French healthcare network using Bayesian method. *Stud Health Technol Inform*. 2008;136:605-10.
55. Thilly N, Bayat S, Alla F, Kessler M, Briançon S, Frimat L. Determinants and patterns of Renin-Angiotensin system inhibitors' prescription during the first year of kidney transplantation. *Clin Transplant*. 2008 Jul-Aug;22(4):439-46.
56. De Crevoisier R, Rossille D, Messai T, Bayat S, Bossi A, Burgun A, Rouzier R, Fizazi K. Early Psa decrease-based nomogram to predict biochemical failure in patients with localized prostate cancer treated by radiotherapy only. *Int J Radiat Oncol Biol Phys*. 2008; 72(1):S300.
57. Bayat S, Frimat L, Thilly N, Loos C, Briançon S, Kessler M. Medical and non-medical determinants of access to renal transplant waiting list in a French community-based network of care. *Nephrol Dial Transplant*. 2006 Oct; 21(10):2900-7.
58. Grimaud O, Bayat S, Chaperon J. Variation du risque de mortalité en fonction de l'espace urbain ou rural. Utilisation du Zonage en Aire Urbaine en Bretagne, *Sante Publique*. 2004 Sep; 16(3): 499-507.