

**RESEARCH GROUP BACKGROUND AND ACCOMPLISHMENTS  
HEALTH SERVICES**

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**2012-2017**

**HEALTH SERVICES RESEARCH**

## **MEMBERS OF THE RESEARCH AREA**

### **Research coordinator**

Dr. Gabriel Sanfélix [sanfelix\\_gab@gva.es](mailto:sanfelix_gab@gva.es) (2015- )

Dr. Salvador Peiró [peiro\\_bor@gva.es](mailto:peiro_bor@gva.es) (2008-2015)

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### **Past members of the research group**

Raquel Pérez\_ López

Mariana Galante

Dr. Ferran Catalá López

Inmaculada Ferreros

Cristobal Baixauli Pérez

Pablo León

## **RECORD OF THE RESEARCH AREA (Period 2010-2015)**

### **GROUP ACTIVITIES**

Health services research (HSR) examines how people get access to health care, how much care costs, and what happens to patients as a result of this care. The main goals of health services research are to identify the most effective ways to organize, manage, finance, and deliver high quality care; reduce adverse events; and improve patient safety. The CSISP HSR Area develops research in the field of healthcare utilization, medical practice variations, healthcare quality, health related quality of life and economic evaluation of drugs, technologies and organizations. Good part of this research is related with musculoskeletal disorders and drug prescription.

### **LINES OF RESEARCH**

1. Medical practice variation (small area analysis) in Spain.

2. Healthcare quality and risk adjustment methods.
3. Musculoskeletal disorders.
4. Drug utilization, pharmaco-epidemiology.
5. Outcomes research (health related quality of life, economic evaluation).

## CURRENT COOPERATIONS WITH OTHER RESEARCH GROUPS

### Valencian Community:

1. Hospital Clínico-Universitario (S. Medicina Digestiva)
2. Hospital General Universitario La Fe (S. Digestivo; Unidad de Medicina Intensiva; Unidad de Hospitalización a Domicilio).
3. Hospital de Xàtiva (S. de Cirugía General y Digestiva).
4. Hospital de Sagunt (S. de Cirugía General y Digestiva).
5. Hospital Universitario Dr. Peset (S. Rehabilitación; S. Diagnóstico por la Imagen).

### National:

1. Instituto Aragonés de Ciencias de la Salud, Zaragoza. Programa Marco de Investigación en Políticas y Servicios en Salud.
2. Grupo Atlas de Variaciones en la Práctica Médica en el SNS: IACS (Aragón); AETSA, SAS (Andalucía); SCS (Canarias); Servicio Cántabro de Salud, AATRM, CATSALUT, Universitat Autònoma de Barcelona, IMIM (Cataluña), SESCAM (Castilla la Mancha), SERGAS (Galicia), EESEx (Extremadura), Conselleria de Salut i Consum de les Illes Balears; Consejería de Salud de la Rioja; Consejería de Sanidad de la Región de Murcia, Osasunbidea (Navarra), Osakidetza-SVS, BIOEF (País Vasco); IILSS, AVS (Valencia).
3. Grupo de Investigación en Utilización de Medicamentos en el SNS (Grupo IUM-SNS): Coordinadores del Grupo que incluye actualmente más de 25 investigadores de 11 Comunidades Autónomas.
4. Centre de Recerca en Economia i Salut, Universitat Pompeu Fabra, Barcelona.

### International:

1. Department of Clinical Sciences, Malmö University Hospital, Malmö, Sweden
2. Proyecto ECHO: Escola Nacional de Saúde Pública Universidade Nova de Lisboa (ENSP), Portugal; Institute of Public Health of the Republic of Slovenia (IVZ), Slovenia; University of York – Department of Health Sciences, United Kingdom

Kingdom; Private University for Health Sciences, Medical Informatics and Technology (UMIT), Austria; University of Southern Denmark – Institute of Public Health, Health Economics, Denmark; European Health Management Association (EHMA), Ireland. Department of Clinical Sciences, Malmö University Hospital, Malmö, Sweden

## **SCIENTIFIC/TECHNICAL RECORD**

### **1. Research projects funded**

1. 2014-2012. *Adecuación y adherencia a los tratamientos antiosteoporóticos en mayores de 50 años en la Comunidad Valenciana. Estudio ESOVAL\_AD. Entidad financiadora: FIS (ISCI3). Número de referencia: PI11/00238. Coordinadores (IP): Hurtado I. Importe: 115.192,00 €.*
2. 2014-2009. *European Collaboration for Healthcare Optimization (ECHO). Entidad financiadora: 7th Framework Programme UE. Número de referencia: 242189. Coordinadores (IP): Enrique Bernal-Delgado. Investigadores colaboradores: Peiró-Moreno S (CSISP), Ridao-López M (IACS, CSISP), Martínez-Lizaga N (IACS), Seral-Rodríguez M (IACS) Librero J (IACS, CSISP), García-Armesto S (IACS), Meneu de Guillerna R (Conselleria de Sanitat GVA), Ortún Rubio V (CRES-UPF), González López-Valcárcel B (ULPGC). Importe: Total Proyecto: € 2.739.498 (Grupo Español: € 669.340).*
3. 2014-2010. *Evolución espacio-temporal de las variaciones injustificadas de la práctica médica en el SNS. Entidad financiadora: Instituto de Salud Carlos III, IBERCAJA. Número de referencia: PI10/00494. Coordinadores (IP): Enrique Bernal-Delgado, Investigadores colaboradores: Beltran Peribañez J, Peiró S, Meneu de Guillerna R, Rodríguez del Águila MM, Ridao M, Martínez Lizaga N, Romero Ruiz G, Goicoechea Salazar JA, Montes García Y, Pérez de Arriba J, Cestafé Martínez A, Palomar Rodríguez J, Librero López J, Abadía Taira MB, Atienza Merino G, Tebe Cordero C, Hernando Arizaleta L, Alonso Bilbao JL, Castaño Riera EJ, Solas Gaspar O, Artienda Arandía J, Fornieles García Y, Rivas Ruiz F, Montes Salas G, Queiro Verdes T, García Armesto S, Comendeiro Maaløe M, Díaz Martínez A, Merlo J, Salas Ibañez T, Melgosa Arcos AI, Sangrador Arenas LA, Alvarez Arruti N. Importe: € 112.650.*
4. 2012-2009. *Desarrollo y validación de una escala de predicción de fractura osteoporótica en población de la Comunidad Valenciana. Estudio ESOSVAL-R; Entidad financiadora: Convenio FISABIO-MSD para investigación y formación en materia de osteoporosis; Convenio FISABIO-MSD para investigación y formación en materia de osteoporosis Instituto de Salud Carlos III. Número de referencia: PS09/02500. Coordinadores (IP): José Sanfélix-Genovés. Investigadores colaboradores: Peiró S, Gil Guillen V, Giner Ruiz V, Sanfélix Gimeno G, Hurtado I, Ferreiro I. Importe: € 38.720; Convenio FISABIO-MSD (compartida otros proyectos ESOSVAL): €152.540.*
5. 2012-2010. *Adecuación y adherencia a los tratamientos antiosteoporóticos en mayores de 50 años en la Comunidad Valenciana. Estudio ESOSVAL AD. Entidad financiadora: Convenio CSISP-AMGEM para investigación y formación en materia de osteoporosis. Número de referencia: s/ref. Coordinadores (IP): José Sanfélix-Genoves. Investigadores colaboradores: Salvador Peiró, Gabriel Sanfélix Gimeno, Isabel Hurtado, José Luis Trillo, Ruth Usó, Vicente Giner Ruiz, Manuel Pascual, Inmaculada Ferreros y Grupo ESOSVAL. Importe: € 60.000.*

## 2. Participation in research contracts with companies or administrators.

### 3. Publications

#### YEAR 2017

1. Angulo-Pueyo E, Ridao-Lopez M, Martinez-Lizaga N, Garcia-Armesto S, Peiro S, Bernal-Delgado E. Factors associated with hospitalisations in chronic conditions deemed avoidable: ecological study in the Spanish healthcare system. *BMJ Open*. 2017;7(2):e011844. DOI: [10.1136/bmjopen-2016-011844](<http://dx.doi.org/10.1136/bmjopen-2016-011844>)
2. Catala-Lopez F, Hutton B, Driver JA, Page MJ, Ridao M, Valderas JM, Alonso-Arroyo A, Fores-Martos J, Martinez S, Genova-Maleras R, Macias-Saint-Gerons D, Crespo-Facorro B, Vieta E, Valencia A, Tabares-Seisdedos R. Cancer and central nervous system disorders: protocol for an umbrella review of systematic reviews and updated meta-analyses of observational studies. *Syst Rev*. 2017;6(1):69. DOI: [10.1186/s13643-017-0466-y](<http://dx.doi.org/10.1186/s13643-017-0466-y>)
3. Catala-Lopez F, Hutton B, Driver JA, Ridao M, Valderas JM, Genova-Maleras R, Fores-Martos J, Alonso-Arroyo A, Saint-Gerons DM, Vieta E, Valencia A, Tabares-Seisdedos R. Anorexia nervosa and cancer: a protocol for a systematic review and meta-analysis of observational studies. *Syst Rev*. 2017;6(1):137. DOI: [10.1186/s13643-017-0540-5](<http://dx.doi.org/10.1186/s13643-017-0540-5>)
4. Catala-Lopez F, Ridao M. Cost-effectiveness analyses in neuropsychiatry and mental health. *Actas Esp Psiquiatr*. 2017;45(3):127-36. Available from: [<https://www.ncbi.nlm.nih.gov/pubmed/28594059>](<https://www.ncbi.nlm.nih.gov/pubmed/28594059>)
5. Catala-Lopez F, Ridao M. Improving transparency of methods and results in cost-effectiveness analyses for cancer prevention, treatment and control. *Med Clin (Barc)*. 2017;148(1):43-5. DOI: [10.1016/j.medcli.2016.06.023](<http://dx.doi.org/10.1016/j.medcli.2016.06.023>)
6. Catala-Lopez F, Ridao M. [Potential sponsorship bias in cost-effectiveness analyses of healthcare interventions: A cross-sectional analysis]. *Aten Primaria*. 2017. DOI: [10.1016/j.aprim.2016.08.001](<http://dx.doi.org/10.1016/j.aprim.2016.08.001>)
7. Catala-Lopez F, Ridao M. [Rapid assessments of the efficacy and safety of new medicinal products]. *Gac Sanit*. 2017. DOI: [10.1016/j.gaceta.2017.01.008](<http://dx.doi.org/10.1016/j.gaceta.2017.01.008>)
8. Catala-Lopez F, Ridao M. [Reporting of conflict of interest in cost-effectiveness analyses of healthcare interventions]. *Aten Primaria*. 2017;49(2):118-20. DOI: [10.1016/j.aprim.2016.03.010](<http://dx.doi.org/10.1016/j.aprim.2016.03.010>)
9. Ferrando C, Soro M, Unzueta C, Canet J, Tusman G, Suarez-Sipmann F, Libroero J, Peiro S, Pozo N, Delgado C, Ibanez M, Aldecoa C, Garutti I, Pestana D, Rodriguez A, Garcia Del Valle S, Diaz-Cambronero O, Balust J, Redondo FJ, De La Matta M, Gallego L, Granell M, Martinez P, Perez A, Leal S, Alday K, Garcia P, Monedero P, Gonzalez R, Mazzinari G, Aguilar G, Villar J, Belda FJ, i P-ONG. Rationale and study design for an individualised perioperative open-lung ventilatory strategy with

a high versus conventional inspiratory oxygen fraction (iPROVE-O2) and its effects on surgical site infection: study protocol for a randomised controlled trial. *BMJ Open*. 2017;7(7):e016765. DOI: [10.1136/bmjopen-2017-016765](<http://dx.doi.org/10.1136/bmjopen-2017-016765>)

10. Gonzalez Lopez-Valcarcel B, Librero J, Garcia-Sempere A, Pena LM, Bauer S, Puig-Junoy J, Oliva J, Peiro S, Sanfelix-Gimeno G. Effect of cost sharing on adherence to evidence-based medications in patients with acute coronary syndrome. *Heart*. 2017;103(14):1082-8. DOI: [10.1136/heartjnl-2016-310610](<http://dx.doi.org/10.1136/heartjnl-2016-310610>)
11. Librero J, Ibanez B, Martinez-Lizaga N, Peiro S, Bernal-Delgado E, Spanish Atlas of Medical Practice Variation Research G. Applying spatio-temporal models to assess variations across health care areas and regions: Lessons from the decentralized Spanish National Health System. *PLoS One*. 2017;12(2):e0170480. DOI: [10.1371/journal.pone.0170480](<http://dx.doi.org/10.1371/journal.pone.0170480>)
12. Youngster I, Avorn J, Belleudi V, Cantarutti A, Diez-Domingo J, Kirchmayer U, Park BJ, Peiro S, Sanfelix-Gimeno G, Schroder H, Schussel K, Shin JY, Shin SM, Simonsen GS, Blix HS, Tong A, Trifiro G, Ziv-Baran T, Kim SC. Antibiotic Use in Children - A Cross-National Analysis of 6 Countries. *J Pediatr*. 2017;182:239-44 e1. DOI: [10.1016/j.jpeds.2016.11.027](<http://dx.doi.org/10.1016/j.jpeds.2016.11.027>)

## YEAR 2016

1. Angulo-Pueyo E, Martinez-Lizaga N, Ridao-Lopez M, Garcia-Armesto S, Bernal-Delgado E. [Trend in potentially avoidable hospitalisations for chronic conditions in Spain]. *Gac Sanit*. 2016;30(1):52-4. DOI: [10.1016/j.gaceta.2015.10.008](<http://dx.doi.org/10.1016/j.gaceta.2015.10.008>)
2. Avella-Garcia CB, Julvez J, Fortuny J, Rebordosa C, Garcia-Esteban R, Galan IR, Tardon A, Rodriguez-Bernal CL, Iniguez C, Andiarena A, Santa-Marina L, Sunyer J. Acetaminophen use in pregnancy and neurodevelopment: attention function and autism spectrum symptoms. *Int J Epidemiol*. 2016;45(6):1987-96. DOI: [10.1093/ije/dyw115](<http://dx.doi.org/10.1093/ije/dyw115>)
3. Catala-Lopez F, Macias Saint-Gerons D, Gonzalez-Bermejo D, Rosano GM, Davis BR, Ridao M, Zaragoza A, Montero-Corominas D, Tobias A, de la Fuente-Honrubia C, Tabares-Seisdedos R, Hutton B. Cardiovascular and Renal Outcomes of Renin-Angiotensin System Blockade in Adult Patients with Diabetes Mellitus: A Systematic Review with Network Meta-Analyses. *PLoS Med*. 2016;13(3):e1001971. DOI: [10.1371/journal.pmed.1001971](<http://dx.doi.org/10.1371/journal.pmed.1001971>)
4. Catala-Lopez F, Ridao M, Alonso-Arroyo A, Garcia-Altes A, Cameron C, Gonzalez-Bermejo D, Alexandre-Benavent R, Bernal-Delgado E, Peiro S, Tabares-Seisdedos R, Hutton B. The quality of reporting methods and results of cost-effectiveness analyses in Spain: a methodological systematic review. *Syst Rev*. 2016;5:6. DOI: [10.1186/s13643-015-0181-5](<http://dx.doi.org/10.1186/s13643-015-0181-5>)



5. Krumme AA, Sanfelix-Gimeno G, Franklin JM, Isaman DL, Mahesri M, Matlin OS, Shrank WH, Brennan TA, Brill G, Choudhry NK. Can purchasing information be used to predict adherence to cardiovascular medications? An analysis of linked retail pharmacy and insurance claims data. *BMJ Open*. 2016;6(11):e011015. DOI: [10.1136/bmjopen-2015-011015](<http://dx.doi.org/10.1136/bmjopen-2015-011015>)
6. Libroero J, Ibanez-Beroiz B, Peiro S, Ridao-Lopez M, Rodriguez-Bernal CL, Gomez-Romero FJ, Bernal-Delgado E, Spanish Atlas of Medical Practice Variation Research G. Trends and area variations in Potentially Preventable Admissions for COPD in Spain (2002-2013): a significant decline and convergence between areas. *BMC Health Serv Res*. 2016;16(1):367. DOI: [10.1186/s12913-016-1624-y](<http://dx.doi.org/10.1186/s12913-016-1624-y>)
7. Libroero J, Sanfelix-Gimeno G, Peiro S. Medication Adherence Patterns after Hospitalization for Coronary Heart Disease. A Population-Based Study Using Electronic Records and Group-Based Trajectory Models. *PLoS One*. 2016;11(8):e0161381. DOI: [10.1371/journal.pone.0161381](<http://dx.doi.org/10.1371/journal.pone.0161381>)
8. Lopez-Villegas A, Catalan-Matamoros D, Robles-Musso E, Peiro S. Effectiveness of pacemaker tele-monitoring on quality of life, functional capacity, event detection and workload: The PONIENTE trial. *Geriatr Gerontol Int*. 2016;16(11):1188-95. DOI: [10.1111/ggi.12612](<http://dx.doi.org/10.1111/ggi.12612>)
9. Lopez-Villegas A, Catalan-Matamoros D, Robles-Musso E, Peiro S. Workload, time and costs of the informal cares in patients with tele-monitoring of pacemakers: the PONIENTE study. *Clin Res Cardiol*. 2016;105(4):307-13. DOI: [10.1007/s00392-015-0921-5](<http://dx.doi.org/10.1007/s00392-015-0921-5>)
10. Ridao M, Catala-Lopez F. Quality of Methods and Results Reporting in Cost-effectiveness Analyses of Cardiovascular Interventions. *Rev Esp Cardiol (Engl Ed)*. 2016;69(9):876-7. DOI: [10.1016/j.rec.2016.04.038](<http://dx.doi.org/10.1016/j.rec.2016.04.038>)

## YEAR 2015

1. Bernal-Delgado E, Christiansen T, Bloor K, Mateus C, Yazbeck AM, Munck J, Bremner J, Consortium E. ECHO: health care performance assessment in several European health systems. *Eur J Public Health*. 2015;25 Suppl 1:3-7. DOI: [10.1093/eurpub/cku219](<http://dx.doi.org/10.1093/eurpub/cku219>)
2. Catala-Lopez F, Hutton B, Nunez-Beltran A, Mayhew AD, Page MJ, Ridao M, Tobias A, Catala MA, Tabares-Seisdedos R, Moher D. The pharmacological and non-pharmacological treatment of attention deficit hyperactivity disorder in children and adolescents: protocol for a systematic review and network meta-analysis of randomized controlled trials. *Syst Rev*. 2015;4(1):19. DOI: [10.1186/s13643-015-0005-7](<http://dx.doi.org/10.1186/s13643-015-0005-7>)
3. Ferrando C, Soro M, Canet J, Unzueta MC, Suarez F, Libroero J, Peiro S, Llombart A, Delgado C, Leon I, Rovira L, Ramasco F, Granell M, Aldecoa C, Diaz O, Balust J, Garutti I, de la Matta M, Pensado A, Gonzalez R, Duran ME, Gallego L, Del Valle SG, Redondo FJ, Diaz P, Pestana D, Rodriguez A, Aguirre J, Garcia JM, Garcia J, Espinosa E, Charco P, Navarro J, Rodriguez C, Tusman G, Belda FJ, i Pi. Rationale and study design for an individualized perioperative open lung ventilatory strategy (iPROVE): study protocol for a randomized controlled trial. *Trials*.

- 2015;16:193.· DOI: [10.1186/s13063-015-0694-1](<http://dx.doi.org/10.1186/s13063-015-0694-1>)
4. García A, Hidalgo Á, Rivera B, López E, Espín J, Oliva J, Merino M, Trapero-Bertran M, Villoro R, Urbanos R, Peiró S. Libro Blanco sobre la Carga Socio-Económica de la EPOC. Majadahonda (Madrid): Instituto Max Weber; 2015.
  5. Garcia-Armesto S, Angulo-Pueyo E, Martinez-Lizaga N, Mateus C, Joaquim I, Bernal-Delgado E, Consortium E. Potential of geographical variation analysis for realigning providers to value-based care. ECHO case study on lower-value indications of C-section in five European countries. *Eur J Public Health*. 2015;25 Suppl 1:44-51.· DOI: [10.1093/eurpub/cku224](<http://dx.doi.org/10.1093/eurpub/cku224>)
  6. Guinot JL, Baixauli-Perez C, Soler P, Tortajada MI, Moreno A, Santos MA, Mut A, Gozalbo F, Arribas L. High-dose-rate brachytherapy boost effect on local tumor control in young women with breast cancer. *Int J Radiat Oncol Biol Phys*. 2015;91(1):165-71.· DOI: [10.1016/j.ijrobp.2014.09.024](<http://dx.doi.org/10.1016/j.ijrobp.2014.09.024>)
  7. Kim SC, Kim MS, Sanfelix-Gimeno G, Song HJ, Liu J, Hurtado I, Peiro S, Lee J, Choi NK, Park BJ, Avorn J. Use of osteoporosis medications after hospitalization for hip fracture: a cross-national study. *Am J Med*. 2015;128(5):519-26 e1.· DOI: [10.1016/j.amjmed.2015.01.014](<http://dx.doi.org/10.1016/j.amjmed.2015.01.014>)
  8. Librero J, Izquierdo-Maria R, Garcia-Gil M, Peiro S. [Children's relative age in class and medication for attention-deficit/hyperactivity disorder. A population-based study in a health department in Spain]. *Med Clin (Barc)*. 2015;145(11):471-6.· DOI: [10.1016/j.medcli.2015.02.022](<http://dx.doi.org/10.1016/j.medcli.2015.02.022>)
  9. Lopez-Villegas A, Catalan-Matamoros D, Robles-Musso E, Peiro S. [Comparative Effectiveness of Remote Monitoring of People with Cardiac Pacemaker versus Conventional: quality of Life at the 6 Months]. *Rev Esp Salud Publica*. 2015;89(2):149-58.· DOI: [10.4321/S1135-57272015000200004](<http://dx.doi.org/10.4321/S1135-57272015000200004>)
  10. Morales E, Julvez J, Torrent M, Ballester F, Rodriguez-Bernal CL, Andiarana A, Vegas O, Castilla AM, Rodriguez-Dehli C, Tardon A, Sunyer J. Vitamin D in Pregnancy and Attention Deficit Hyperactivity Disorder-like Symptoms in Childhood. *Epidemiology*. 2015;26(4):458-65.· DOI: [10.1097/EDE.000000000000292](<http://dx.doi.org/10.1097/EDE.000000000000292>)
  11. Peiró S. Sistemas de información para la gestión clínica en cirugía. In: Alcalde Escribano J, Landa García J, editors. *Guía Clínica de la AEC: Gestión Clínica en Cirugía*. Madrid: Arán Ediciones; 2015. p. 44-90.
  12. Peiro S, García Sempere A. Efectividad de los programas integrados de gestión de enfermedades para mejorar la calidad de vida de los pacientes con EPOC. Una revisión de revisiones sistemáticas. In: Oliva Moreno J, Hidalgo Vega A, editors. *Análisis económicos de la EPOC*. Madrid: Instituto Max Weber, Chiesi.; 2015. p. 13-47.
  13. Peiró S, Librero J. Variabilidad Clínica y Cirugía Mayor Ambulatoria. In: Porrero J, editor. *Manual de Cirugía Mayor Ambulatoria*. Madrid: Win2Win Worldwide; 2015. p. 817-33.
  14. Peiro S, Maynard A. Variations in health care delivery within the European Union. *Eur J Public Health*. 2015;25 Suppl 1:1-2.· DOI: [10.1093/eurpub/cku223](<http://dx.doi.org/10.1093/eurpub/cku223>)



15. Sanfelix-Gimeno G, Hurtado I, Sanfelix-Genoves J, Baixauli-Perez C, Rodriguez-Bernal CL, Peiro S. Overuse and Underuse of Antiosteoporotic Treatments According to Highly Influential Osteoporosis Guidelines: A Population-Based Cross-Sectional Study in Spain. PLoS One. 2015;10(8):e0135475. DOI: [10.1371/journal.pone.0135475](<http://dx.doi.org/10.1371/journal.pone.0135475>)
16. Sanfelix-Gimeno G, Rodriguez-Bernal CL, Hurtado I, Baixauli-Perez C, Libroero J, Peiro S. Adherence to oral anticoagulants in patients with atrial fibrillation-a population-based retrospective cohort study linking health information systems in the Valencia region, Spain: a study protocol. BMJ Open. 2015;5(10):e007613. DOI: [10.1136/bmjopen-2015-007613](<http://dx.doi.org/10.1136/bmjopen-2015-007613>)
17. Thygesen LC, Baixauli-Perez C, Libroero-Lopez J, Martinez-Lizaga N, Ridao-Lopez M, Bernal-Delgado E, Consortium E. Comparing variation across European countries: building geographical areas to provide sounder estimates. Eur J Public Health. 2015;25 Suppl 1:8-14. DOI: [10.1093/eurpub/cku229](<http://dx.doi.org/10.1093/eurpub/cku229>)
18. Thygesen LC, Christiansen T, Garcia-Armesto S, Angulo-Pueyo E, Martinez-Lizaga N, Bernal-Delgado E, Consortium E. Potentially avoidable hospitalizations in five European countries in 2009 and time trends from 2002 to 2009 based on administrative data. Eur J Public Health. 2015;25 Suppl 1:35-43. DOI: [10.1093/eurpub/cku227](<http://dx.doi.org/10.1093/eurpub/cku227>)
19. Trapero-Bertran M, Brosa Riestra M, Espin Balbino J, Oliva J, Key4Value G, II. [Controversial Issues in Economic Evaluation (II): health Outcomes of Health Care Interventions]. Rev Esp Salud Publica. 2015;89(2):125-35. DOI: [10.4321/S1135-57272015000200002](<http://dx.doi.org/10.4321/S1135-57272015000200002>)

#### YEAR 2014

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#### **4. Participation in programs of doctorate studies with mention of quality**

#### **5. Doctoral theses**