

Helen Banks

Senior Researcher



Knowledge Group: Government, Health and Not for Profit

Research Domains: Health Economics and HTA

Teaching Domains: Real-World Data and Real-World Evidence, HTA
Governance Systems, Outcome Research, Determinants of Health and
Health Expenditure, Health Inequalities

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Biography

Helen Banks is a Senior Researcher in the Health Economics and Health Technology Assessment Area at the SDA Bocconi School of Management.

A researcher with the Centre for Research on Health and Social Care Management (CERGAS), SDA Bocconi School of Management since 2012, Helen has worked on various Italian and international projects, including the IMI2 Big Data for Better Outcomes (BD4BO), Policy Innovation, and Healthcare Systems Transformation (DO-IT) consortium, Bridge Health (EU Health Programme 2014-2020), Medtehta EU-FP7, and Eurohope EU-FP7. Italian projects have covered data-based studies using National, Regional and Local Health Authority data in various therapeutic areas and policy areas such as Health Technology Assessment (HTA) for medical devices and artificial nutrition. Prior to joining CERGAS, her private sector experience included a long-term project with the Lombardy Region, hospital and local health authority accreditations using the Joint Commission International methodology, health education, management consulting and business intelligence for the pharmaceutical and biotech industries.

Her major research interests include data and statistical analysis, exploiting techniques in data conversion, linkage, preparation, management and programming, for pan-European and Italian research projects to evaluate health care system performance, costs, resource use, care pathways and outcomes using administrative data from public and private health care organizations. She has lately also been focusing on Health Technology Assessment, medical device regulation, health care system planning, evaluation, financing and policymaking, as well as mapping and evaluating Clinical Pathways and chronic care programs using real world data.

She is the author of numerous articles in the health economics, health policy and HTA areas. Her work has been published in Health Economics, Health Policy, PlosOne, BMC Medical Research Methodology, Journal of Cancer Policy, and Europace, among others. Previously, she worked on newsletters, articles, books and

manuals in the areas of pharmaceutical research, quality, US health system reform, and health education for the emerging AIDS epidemic. She is a member of the Italian Health Economics Association (AIES) and the Società Italiana Attività Regolatorie, Accesso, Farmacovigilanza (SIARV).

Helen earned an MA in Economics from the University of Maryland, College Park, USA, and a BA in Communications and Master in Education from the University of California at Los Angeles (UCLA), USA. She is married with two children.

Articles in Scholarly Journals

Which Factors are Holding up the Integration of the Environmental Impact of Health Technologies in Health Technology Assessment? Insights from a Multi-Stakeholder Interview Study

ARDITO, V., H. BANKS, R. TARRICONE, "Which Factors are Holding up the Integration of the Environmental Impact of Health Technologies in Health Technology Assessment? Insights from a Multi-Stakeholder Interview Study", Applied Health Economics and Health Policy, 2025

An accelerated access pathway for innovative high-risk medical devices under the new European Union Medical Devices and health technology assessment regulations? Analysis and recommendations

TARRICONE, R., H. BANKS, O. CIANI, W. BROUWER, M. DRUMMOND, R. LEIDL, N. MARTELLI, L. SAMPIETRO-COLOM, R. S. TAYLOR, "An accelerated access pathway for innovative high-risk medical devices under the new European Union Medical Devices and health technology assessment regulations? Analysis and recommendations", Expert Review of Medical Devices, 2023, vol. 20, no. 4, pp. 259-271

Using big data and Population Health Management to assess care and costs for patients with severe mental disorders and move toward a value-based payment system

TOZZI, V., H. BANKS, L. FERRARA, A. BARBATO, G. CORRAO, B. D'AVANZO, T. DI FIANDRA, A. GADDINI, M. M. COMPAGNONI, M. SANZA, A. SAPONARO, S. SCONDOTTO, A. LORA, "Using big data and Population Health Management to assess care and costs for patients with severe mental disorders and move toward a value-based payment system", BMC Health Services Research, 2023, vol. 23, pp. 960

Avoidable hospitalizations and access to primary care: comparisons among Italians, resident immigrants and undocumented immigrants in administrative hospital discharge records

ALLEGRI, C., H. BANKS, C. DEVILLANOVA, "Avoidable hospitalizations and access to primary care: comparisons among Italians, resident immigrants and undocumented immigrants in administrative hospital discharge records", eClinicalMedicine, 2022, vol. 46, pp. 101345

DM management in HIV patients: the adoption of population health management to transform the chronic management of HIV

PACILEO, G., V. MORANDO, H. BANKS, L. FERRARA, A. CATTELAN, R. LUZZATI, V. MANFRIN, V. TOZZI, "DM management in HIV patients: the adoption of population health management to transform the chronic management of HIV", European Journal of Public Health, 2022, vol. 32, no. 6, pp. 942-947

Establishing a national HTA program for medical devices in Italy: Overhauling a fragmented system to ensure value and equal access to new medical technologies

TARRICONE, R., F. AMATUCCI, P. ARMENI, H. BANKS, L. BORSOI, G. CALLEA, O. CIANI, F. COSTA, C. B. FEDERICI, A. TORBICA, M. MARLETTA, "Establishing a national HTA program for medical devices in Italy: Overhauling a fragmented system to ensure value and equal access to new medical technologies", *Health Policy*, 2021, vol. 125, no. 5, pp. 602-608

Transformation of Cancer Care during and after the COVID Pandemic, a point of no return. The Experience of Italy

TARRICONE, R., E. LISTORTI, V. TOZZI, A. TORBICA, H. BANKS, S. GHISLANDI, M. ALTINI, M. ANNICCHIARICO, A. ARDIZZONI, P. BORDON, P. BOSSI, S. CASCINU, G. NUMICO, F. PUGLISI, G. FASOLA, "Transformation of Cancer Care during and after the COVID Pandemic, a point of no return. The Experience of Italy", *Journal of Cancer Policy*, September 2021, vol. 29, pp. 100297

Patient access to oral nutritional supplements: Which policies count?

CAVAZZA, M., H. BANKS, M. MUSCARITOLI, M. RONDANELLI, E. ZANDONÀ, C. JOMMI, "Patient access to oral nutritional supplements: Which policies count?", *Nutrition*, January 2020, vol. 69, pp. 110560

A scoping review of core outcome sets and their 'mapping' onto real-world data using prostate cancer as a case study

MEREGAGLIA, M., O. CIANI, H. BANKS, M. SALCHER-KONRAD, C. CARNEY, S. JAYAWARDANA, P. WILLIAMSON, G. FATTORE, "A scoping review of core outcome sets and their 'mapping' onto real-world data using prostate cancer as a case study", *BMC Medical Research Methodology*, 2020, vol. 20, pp. 41

Factors influencing adherence to adjuvant endocrine therapy in breast cancer-treated women: using real-world data to inform a switch from acute to chronic disease management

CAVAZZA, M., H. BANKS, M. ERCOLANONI, G. CUKAJ, G. BIANCHI, G. CAPRI, F. LONGO, "Factors influencing adherence to adjuvant endocrine therapy in breast cancer-treated women: using real-world data to inform a switch from acute to chronic disease management", *Breast Cancer Research and Treatment*, 2020, vol. 183, no. 1, pp. 189-199

Leishmania infantum infection reduces the amyloid β 42-stimulated NLRP3 inflammasome activation

SARESELLA, M., N. BASILICO, I. MARVENTANO, F. PEREGO, F. LA ROSA, F. PIANCONE, D. TARAMELLI, H. BANKS, M. CLERICI, "Leishmania infantum infection reduces the amyloid β 42-stimulated NLRP3 inflammasome activation", *Brain, Behavior, and Immunity*, 2020, vol. 88, pp. 597-605

The short-term economic burden of gestational diabetes mellitus in Italy

MEREGAGLIA, M., L. DAINELLI, H. BANKS, C. BENEDETTO, P. DETZEL, G. FATTORE, "The short-term economic burden of gestational diabetes mellitus in Italy", *BMC Pregnancy and Childbirth*, 2018, vol. 18, no. 1, pp. 58

Five year trends (2008–2012) in cardiac implantable electrical device utilization in five European nations: a case study in cross-country comparisons using administrative databases

BANKS, H., C. VALZANIA, Y. VARABYOVA, V. PREVOLNIK RUPEL, R. S. TAYLOR, T. HUNGER, S. WALKER, G. BORIANI, G. FATTORE, FOR THE MEDTECHTA GROUP, "Five year trends (2008–2012) in cardiac implantable electrical device utilization in five European nations: a case study in cross-country comparisons using administrative databases", EP Europace, 2018, vol. 20, no. 4, pp. 643-653

Investigating regional variation of cardiac implantable electrical device implant rates in European healthcare systems: what drives differences?

TORBICA, A., H. BANKS, C. VALZANIA, G. BORIANI, G. FATTORE, "Investigating regional variation of cardiac implantable electrical device implant rates in European healthcare systems: what drives differences?", Health Economics, 2017, vol. 26, no. S1, pp. 30-45

Mortality and Length of Stay of Very Low Birth Weight and Very Preterm Infants: A EuroHOPE Study

SIMEONI, U., G. FATTORE, D. NUMERATO, F. TEDIOSI, R. ZANINI, M. PELTOLA, H. BANKS, P. MIHALICZA, L. LEHTONEN, S. SVERÉUS, R. HEIJINK, S. T. KLITKOU, E. FLETCHER, A. VAN DER HEIJDEN, F. LUNDBERG, E. OVER, U. HÄKKINEN, T. T. SEPPÄLÄ, "Mortality and Length of Stay of Very Low Birth Weight and Very Preterm Infants: A EuroHOPE Study", Plos One, 2015, vol. 10, no. 6, pp. e0131685

Hospital Burden and Gastrointestinal Surgery in Inflammatory Bowel Disease Patients in Italy: A Retrospective Observational Study

MEREGAGLIA, M., G. FATTORE, H. BANKS, "Hospital Burden and Gastrointestinal Surgery in Inflammatory Bowel Disease Patients in Italy: A Retrospective Observational Study", Journal of Crohn's and Colitis, 2015, vol. 9, no. 10, pp. 853-862

Variations and Determinants of Mortality and Length of Stay of Very Low Birth Weight and Very Low for Gestational Age Infants in Seven European Countries

FATTORE, G., D. NUMERATO, M. PELTOLA, H. BANKS, R. GRAZIANI, R. HEIJINK, E. OVER, S. T. KLITKOU, E. FLETCHER, P. MIHALICZA, S. SVERÉUS, ON BEHALF OF THE EUROHOPE STUDY GROUP, "Variations and Determinants of Mortality and Length of Stay of Very Low Birth Weight and Very Low for Gestational Age Infants in Seven European Countries", Health Economics, 2015, vol. 24, pp. 65-87

Parameter Heterogeneity In Breast Cancer Cost Regressions - Evidence From Five European Countries

SMITH, J., H. BANKS, H. CAMPBELL, A. DOUGLAS, E. FLETCHER, A. MCCALLUM, T. A. MOGER, M. PELTOLA, S. SVERÉUS, S. WILD, L. J. WILLIAMS, J. FORBES, ON BEHALF OF THE EUROHOPE STUDY GROUP, "Parameter Heterogeneity In Breast Cancer Cost Regressions - Evidence From Five European Countries", Health Economics, 2015, vol. 24, pp. 23-37

Proceedings/Presentations

The use of big data and Population Health Management approaches to model and monitor the care pathway of patients with severe mental health disorders: the case of Italy

FERRARA, L., V. TOZZI, H. BANKS, A. ZAZZERA, "The use of big data and Population Health Management approaches to model and monitor the care pathway of patients with severe mental health disorders: the

case of Italy" in EGPA Annual Conference, September 1-4, 2020, (Online)

The bundled payment model for mental health

FERRARA, L., V. TOZZI, H. BANKS, "The bundled payment model for mental health" in 13th Conference of the European Network for Mental Health Service Evaluation, "Managing mental health system complexity" - 6-8 June, 2019, Lisbon, Portugal