

## Curriculum Vitae: Josephine Borghi

Name : Josephine Borghi      Date of Birth: 12/03/1976      Place of Birth: Wolverhampton (UK). Citizenship: British / French      Email: [borghi@iiasa.act.at](mailto:borghi@iiasa.act.at)

### Educational History

Degrees Obtained	Subject	University	Year of Graduation
PhD	Health Economics	London School of Hygiene & Tropical Medicine, UK	2006
MSc	Health Economics	University of York, UK	1998
BA	Economics, Politics and Philosophy	University of York, UK	1997

### Recent Professional Experience

Time Period	Position	Employer
2024-present	Principal Research Scholar	International Institute for Applied Systems Analysis
2018-present	Professor	London School of Hygiene & Tropical Medicine
2013-2018	Associate Professor	London School of Hygiene & Tropical Medicine
2007 - 2012	Technical Advisor / Lecturer	IHI - Ifakara Health Institute, Dar es Salaam, Tanzania / London School of Hygiene & Tropical Medicine (LSHTM)
2002 - 2006	Research Fellow and then Lecturer	LSHTM/ Institute of Child Health, London
2001	Technical Officer	World Health Organization, Geneva, Switzerland
2000-2001	Independent Consultant	Instituto Centro Americano de la Salud, Managua, Nicaragua World Bank/ FUNSALUD Mexico City, Mexico BEMFAM, Recife, Brazil
10/1999- 11/2000	Research Assistant	London School of Hygiene & Tropical Medicine
1998-1999	Consultant	Maxwell Stamp Plc. London Catalyst Health Economics Consultants Ltd. London

### Membership of Professional Associations

International Health Economics Association since 1999; Elected Director on the Board since 2022. UK Health Economics Study Group since 1999. Health Systems Global, since 2015.

## Research Grants held in past 10 years

Year	Funder	Title	Role	Value GBP
2023-2025	Economic and Social Research Council (ESRC)	Understanding the effect of shocks on health financing for Universal Health Coverage	PI	300,000
2023-2027	ESRC	Building resilience to floods and heat in maternal and child health systems in Brazil and Zambia	PI	2,500,000
2023	World Health Organization	Financing intersectoral action for women's, children's and adolescents' health (WCAH) and well-being, with a focus on climate change	PI	23,000
2023	Global Fund	Evaluation of Direct Facility Financing in Democratic Republic of Congo	PI	67,000
2023-2025	US Fund for Unicef	Data Analysis Centre on Health Financing and Reproductive, Maternal, Newborn and Child Health	PI	250,000
2023-2027	European Union	Heat Indicators for Global Health Monitoring, Early Warning Systems and health facility interventions for pregnant and postpartum women, infants and young children and health workers.	Co-I	6,000,000
2021-2022	Leverhulme Trust	A Global System Science Approach to Global Governance of Health	PI	28,000
2021-2023	Royal Society	Advancing methods for building global system resilience to health and climate-related shocks	PI	6,000
2014-2021	Norwegian Research Council	Evaluation of the long term effects of performance based financing and of the national roll out of performance-based financing in Tanzania	Co-PI	1,621,000
2017-2022	MRC, Wellcome Trust, ESRC, DfID. Health Systems Research Initiative	Strengthening health system delivery and quality: Mechanisms and Effects of Performance Based Financing in the Sub-Saharan context	PI	622,942
2018-2022	MRC/Newton Fund	Unpacking the effect of the national pay for performance scheme (PMAQ) on inequalities	Co-I	333,429

		in the financing and delivery of primary care in Brazil.		
2018-2022	MRC, Wellcome Trust, ERSC, DfID. Health Systems Research Initiative	Novel methods for optimising health systems payment for performance interventions to improve maternal and child health in low-resource settings	PI	700,545
2017-2021	GCRF	Research capacity building and knowledge generation to support preparedness and response to humanitarian crises and epidemics	Co-I	4,621,783
2020-2023	GCRF	GOAL: Supporting government and partners in strengthening health systems for better mental health of Syrian refugees and host communities.	Co-I	1,837,819
2020-2023	US Fund for Unicef	Data Analysis Centre on Health Financing and Reproductive, Maternal, Newborn and Child Health	PI	180,000

### **Development and Delivery of Education Material and Courses**

- 2023 Development of lecture for Masters in Planetary Health on Climate and Health Financing for the London School of Hygiene & Tropical Medicine.
- 2014 Development of a face to face and distance learning MSc module: Evaluation of Public Health Interventions for the London School of Hygiene & Tropical Medicine. 2015-2024 led the distance learning module.

**PhD Student Supervision:** Supervised 10 PhD students to successful completion, with three current (ongoing) PhD students.

### **Expert technical advisory groups**

2022-ongoing elected Director on the Board of the International Health Economics Association.

2025-ongoing: expert advisor on health sector climate adaptation – World Bank and University of Heidelberg.

2023 – One Sustainable Health Forum Working Group member: Finance and Global Levers for Sustainable Health for All.

2018-2023 co-chair of Financing technical working group for Countdown 2030 and the Partnership for Maternal, Newborn and Child Health.

2017-2023: convener Special Interest Group Financing for Universal Health Coverage in Low- and Middle-Income Countries. International Health Economics Association.

### **Editorial roles**

Lead Book Editor: Health Financing in Low and Middle Income Countries: the Path to Universal Health Coverage, De Gruyters (2025, forthcoming).

Editor in Health Economics for: Health Policy & Planning from 2012-2017.

## Publications

1. Alibrahim, A, Mziray, N, Binyaruka, P, Maiba, J, Cassidy, R, Chalabi, Z, **Borghgi, J**, Foss, AM. Agent-Based Modeling as an Evaluation Tool to Understand the Mechanisms of a Financial Incentives Scheme for Maternal and Child Health in Tanzania. *Journal of Artificial Societies and Social Simulation*. 2025. 28 (4) 7. doi: 10.18564/jasss.5793.
2. Chen H, Cecilio E Silva IA, Hajat S, Russo LX, Wan K, Part C, Mi Z, **Borghgi J**, Nitsch D, da Silva EN, Foss AM. Regional variations in the impacts of high temperature on hospital admissions in Brazil. *Environ Int*. 2025 Aug;202:109620. doi: 10.1016/j.envint.2025.109620.
3. Cassidy R, Semwanga AR, Binyaruka P, Blanchet K, Singh NS, Maiba J, **Borghgi J**. Identifying the active ingredients in payment for performance programmes using system dynamics modelling. *SSM Health Syst*. 2025 Jun;4:100040. doi: 10.1016/j.ssmhs.2024.100040.
4. **Borghgi J** Cuevas Garcia-Dorado S, Anton B, Gerardo D, Gasparri G, Hanson M, Soucat A, Bustreo F, Langlois EV. Climate and Health: a path to strategic co-financing? *Health Policy Plan*. 2024 Nov 18;39(Supplement\_2):i4-i18. doi: 10.1093/heapol/czae044.
5. **Borghgi J** and Kuhn M. 2024. A health economics perspective on behavioural response to climate change across geographic, socio-economic and demographic strata. *Environ. Res. Lett*. 19 081001. doi: 10.1088/1748-9326/ad5d0c
6. Fardousi N, Dantas Gurgel G, Shimizu H, Silva KSBE, Da Silva E, Santos MOSD, Bezerra AFB, Gomes L, Powell-Jackson T, Sampaio J, **Borghgi J**. Understanding the municipal-level design and adaptation of pay-for-performance schemes across two states of Brazil. *Health Policy Plan*. 2024 May 4:czae033. doi: 10.1093/heapol/czae033.
8. **Borghgi J**, Cuevas Garcia-Dorado S, Anton B, Gerardo D, Gasparri G, Hanson M, Soucat A, Bustreo F, Langlois EV. Climate finance opportunities for health and health systems. *Bull World Health Organ*. 2024 May 1;102(5):330-335. doi: 10.2471/BLT.23.29078
9. Mayhew SH, Doyle K, Babawo LS, Mokuwa E, Rohan H, Martinez-Alvarez M, **Borghgi J** Ebola Global Research Team; Pitt C; Did aid to the Ebola crisis divert aid for reproductive, maternal, and newborn health? An analysis of donor-reported data in Sierra Leone. *Confl Health*. 2024 Apr 27;18(1):38.
10. Anton B, Cuevas S, Hanson M, Bhutta ZA, Langlois EV, Iaia DG, Gasparri G, **Borghgi J**. Opportunities and challenges for financing women's, children's and adolescents' health in the context of climate change. *BMJ Glob Health*. 2024 Apr 27;9(4):e014596.
11. Russo LX, Powell-Jackson T, **Borghgi J**, Sampaio J, Gurgel Junior GD, Shimizu HE, Bezerra AFB, E Silva KSB, Barreto JOM, de Carvalho ALB, Kovacs RJ, Gomes LB, Fardousi N, da Silva EN. Does pay-for-performance design matter? Evidence from Brazil. *Health Policy Plan*. 2024 Apr 25:czae025.
12. Maiba J, Singh NS, Cassidy R, Mtei G, **Borghgi J**, Kapologwe NA, Binyaruka P. Assessment of strategic healthcare purchasing and financial autonomy in Tanzania: the case of results-based financing and health basket fund. *Front Public Health*. 2024 Jan 12;11:1260236.
13. Binyaruka P, Martinez-Alvarez M, Pitt C, **Borghgi J**. Assessing equity and efficiency of health financing towards universal health coverage between regions in Tanzania. *Soc Sci Med*. 2024 Jan;340:116457.
14. Ismail SA, Tomoiaia-Cotisel A, Noubani A, Fouad FM, Bell S, **Borghgi J**, Blanchet K. Resilience in childhood vaccination: analysing delivery system responses to shocks in Lebanon. *BMJ Glob Health*. 2023 Nov;8(11):e012399.

15. Binyaruka P, Foss A, Alibrahim A, Mziray N, Cassidy R, **Borghgi J**. Supply-side factors influencing demand for facility-based delivery in Tanzania: a multilevel analysis. *Health Econ Rev*. 2023 Nov 6;13(1):52.
16. Pongutta S, Ferguson E, Davey C, Tangcharoensathien V, Limwattananon S, **Borghgi J**, Wong CKH, Lin L. The impact of a complex school nutrition intervention on double burden of malnutrition among Thai primary school children: a 2-year quasi-experiment. *Public Health*. 2023 Sep 19;224:51-57.
17. Prabhakar P, Singh NS, Sulaiman M, King J, Saddique Z, Mounier-Jack S, Asinde B, Namakula S, Namatovu J, Kapiti R, Kasiri J, **Borghgi J**. Sexual and reproductive healthcare utilisation and affordability for South Sudanese refugees and host populations in Northern Uganda: A mixed methods study. *PLOS Glob Public Health*. 2023 Sep 6;3(9):e0002351
18. Dantas Gurgel G Junior, Kristensen SR, da Silva EN, Gomes LB, Barreto JOM, Kovacs RJ, Sampaio J, Bezerra AFB, de Brito E Silva KS, Shimizu HE, de Sousa ANA, Fardousi N, **Borghgi J**, Powell-Jackson T. Pay-for-performance for primary health care in Brazil: A comparison with England's Quality Outcomes Framework and lessons for the future. *Health Policy*. 2023 Feb;128:62-68. doi: 10.1016/j.healthpol.2022.11.004. Epub 2022 Nov 19. PMID: 36481068.
19. **Borghgi J**, Ismail S, Hollway J *et al*. Viewing the global health system as a complex adaptive system – implications for research and practice [version 1; peer review: 1 approved]. *F1000Research* 2022, **11**:1147 (<https://doi.org/10.12688/f1000research.126201.1>)
20. Ismail SA, Lam ST, Bell S, Fouad FM, Blanchet K, **Borghgi J**. Strengthening vaccination delivery system resilience in the context of protracted humanitarian crisis: a realist-informed systematic review. *BMC Health Serv Res*. 2022 Oct 23;22(1):1277. doi: 10.1186/s12913-022-08653-4. PMID: 36274130; PMCID: PMC9589562.
21. King J, Prabhakar P, Singh N, Sulaiman M, Greco G, Mounier-Jack S, **Borghgi J**. Assessing equity of access and affordability of care among South Sudanese refugees and host communities in two districts in Uganda: a cross-sectional survey. *BMC Health Serv Res*. 2022 Sep 16;22(1):1165. doi: 10.1186/s12913-022-08547-5. PMID: 36114536; PMCID: PMC9482210.
22. Cassidy R, **Borghgi J**, Semwanga AR, Binyaruka P, Singh NS, Blanchet K. How to do (or not to do)...using causal loop diagrams for health system research in low and middle-income settings. *Health Policy Plan*. 2022 Nov 14;37(10):1328-1336. doi: 10.1093/heapol/czac064. PMID: 35921232; PMCID: PMC9661310.
23. Binyaruka P, **Borghgi J**. An equity analysis on the household costs of accessing and utilising maternal and child health care services in Tanzania. *Health Econ Rev*. 2022 Jul 8;12(1):36. doi: 10.1186/s13561-022-00387-7. PMID: 35802268; PMCID: PMC9264712.
24. Fardousi N, Nunes da Silva E, Kovacs R, **Borghgi J**, Barreto JOM, Kristensen SR, Sampaio J, Shimizu HE, Gomes LB, Russo LX, Gurgel GD, Powell-Jackson T. Performance bonuses and the quality of primary health care delivered by family health teams in Brazil: A difference-in-differences analysis. *PLoS Med*. 2022 Jul 7;19(7):e1004033. doi: 10.1371/journal.pmed.1004033. PMID: 35797409; PMCID: PMC9262241.
25. Federspiel F, **Borghgi J**, Martinez-Alvarez M. Growing debt burden in low- and middle-income countries during COVID-19 may constrain health financing. *Glob Health Action*. 2022 Dec 31;15(1):2072461. doi: 10.1080/16549716.2022.2072461. PMID: 35730593; PMCID: PMC9225792.
26. **Borghgi J**, Brown GW. Taking Systems Thinking to the Global Level: Using the WHO Building Blocks to Describe and Appraise the Global Health System in Relation to

- COVID-19. *Glob Policy*. 2022 May;13(2):193-207. doi: 10.1111/1758-5899.13081. Epub 2022 Mar 19. PMID: 35601655; PMCID: PMC9111126.
27. Diaconu K, Witter S, Binyaruka P, **Borghgi J**, Brown GW, Singh N, Herrera CA. Appraising pay-for-performance in healthcare in low- and middle-income countries through systematic reviews: reflections from two teams. *Cochrane Database Syst Rev*. 2022 May 20;5(5):ED000157. doi: 10.1002/14651858.ED000157. PMID: 35593101; PMCID: PMC9121198.
  28. King J, Sadique Z, Amara M, **Borghgi J**. Has Ebola delayed progress on access to routine care and financial protection in Sierra Leone? Evidence from a difference-in-differences analysis with propensity score weighting. *Soc Sci Med*. 2022 Jun;303:114995. doi: 10.1016/j.socscimed.2022.114995. Epub 2022 Apr 30. PMID: 35576766; PMCID: PMC9055447.
  29. Kovacs R, Brown GW, Kadungure A, Kristensen SR, Gwati G, Anselmi L, Midzi N, **Borghgi J**. Who is paid in pay-for-performance? Inequalities in the distribution of financial bonuses amongst health centres in Zimbabwe. *Health Policy Plan*. 2022 Apr 13;37(4):429-439. doi: 10.1093/heapol/czab154. PMID: 35090018; PMCID: PMC9006063.
  30. **Borghgi J**, Binyaruka P, Mayumana I, Lange S, Somville V, Maestad O. Long-term effects of payment for performance on maternal and child health outcomes: evidence from Tanzania. *BMJ Glob Health*. 2021 Dec;6(12):e006409. doi: 10.1136/bmjgh-2021-006409. PMID: 34916272; PMCID: PMC8679076.
  31. Quaife M, Estafinos AS, Keraga DW, Lohmann J, Hill Z, Kiflie A, Marchant T, **Borghgi J**, Schellenberg J. Changes in health worker knowledge and motivation in the context of a quality improvement programme in Ethiopia. *Health Policy Plan*. 2021 Aug 10:czab094.
  32. Cassidy R, Tomoaia-Cotisel A, Semwanga AR, Binyaruka P, Chalabi Z, Blanchet K, Singh NS, Maiba J, **Borghgi J**. Understanding the maternal and child health system response to payment for performance in Tanzania using a causal loop diagram approach. *Soc Sci Med*. 2021 Sep;285:114277. doi: 10.1016/j.socscimed.2021.
  33. Russo LX, Powell-Jackson T, Maia Barreto JO, **Borghgi J**, Kovacs R, Gurgel Junior GD, Gomes LB, Sampaio J, Shimizu HE, de Sousa ANA, Bezerra AFB, Stein AT, Silva EN. Pay for performance in primary care: the contribution of the Programme for Improving Access and Quality of Primary Care (PMAQ) on avoidable hospitalisations in Brazil, 2009-2018. *BMJ Glob Health*. 2021 Jul;6(7):e005429. doi: 10.1136/bmjgh-2021-005429.
  34. Pitt C, Bath D, Binyaruka P, **Borghgi J**, Martinez-Alvarez M. Falling aid for reproductive, maternal, newborn and child health in the lead-up to the COVID-19 pandemic. *BMJ Glob Health*. 2021 Jun;6(6):e006089. doi: 10.1136/bmjgh-2021-006089.
  35. Fichera E, Anselmi L, Gwati G, Brown G, Kovacs R, **Borghgi J**. Can Results-Based Financing improve health outcomes in resource poor settings? Evidence from Zimbabwe. *Soc Sci Med*. 2021 May 7;279:113959.
  36. Pedrazzoli D, Carter DJ, **Borghgi J**, Laokri S, Boccia D, Houben RM. Does Ghana's National Health Insurance Scheme provide financial protection to tuberculosis patients and their households? *Soc Sci Med*. 2021 Mar 27;277:113875.
  37. Salehi AS, Blanchet K, Vassall A, **Borghgi J**. Political economy analysis of the performance-based financing programme in Afghanistan. *Glob Health Res Policy*. 2021 Mar 10;6(1):9
  38. Pulkki-Brännström AM, Haghparast-Bidgoli H, Batura N, Colbourn T, Azad K, Banda F, Banda L, **Borghgi J**, Fottrell E, Kim S, Makwenda C, Ojha AK, Prost A, Rosato M, Shaha SK, Sinha R, Costello A, Skordis J. Participatory learning and action cycles with women s

- groups to prevent neonatal death in low-resource settings: A multi-country comparison of cost-effectiveness and affordability. *Health Policy Plan*. 2020 Oct 21;:czzaa081.
39. Kovacs R, Maia Barreto JO, da Silva EN, **Borghgi J**, Kristensen SR, Costa DRT, Bezerra Gomes L, Gurgel GD Junior, Sampaio J, Powell-Jackson T. Socioeconomic inequalities in the quality of primary care under Brazil's national pay-for-performance programme: a longitudinal study of family health teams. *Lancet Glob Health*. 2021 Mar;9(3):e331-e339.
  40. Singh NS, Kovacs RJ, Cassidy R, Kristensen SR, **Borghgi J**, Brown GW. A realist review to assess for whom, under what conditions and how pay for performance programmes work in low- and middle-income countries. *Soc Sci Med*. 2021 Feb;270:113624.
  41. Salehi AS, **Borghgi J**, Blanchet K, Vassall A. The cost-effectiveness of using performance-based financing to deliver the basic package of health services in Afghanistan. *BMJ Glob Health*. 2020 Sep;5(9):e002381.
  42. Anselmi L, **Borghgi J**, Brown GW, Fichera E, Hanson K, Kadungure A, Kovacs R, Kristensen SR, Singh NS, Sutton M. Pay for Performance: A Reflection on How a Global Perspective Could Enhance Policy and Research. *Int J Health Policy Manag*. 2020 Sep 1;9(9):365-369.
  43. Kovacs RJ, Powell-Jackson T, Kristensen SR, Singh N, **Borghgi J**. How are pay-for-performance schemes in healthcare designed in low- and middle-income countries? Typology and systematic literature review. *BMC Health Serv Res*. 2020 Apr 7;20(1):291.
  44. Kapologwe NA, Kibusi SM, **Borghgi J**, Gwajima DO, Kalolo A. Assessing health system responsiveness in primary health care facilities in Tanzania. *BMC Health Serv Res*. 2020 Feb 10;20(1):104.
  45. Dingle A, Schäferhoff M, **Borghgi J**, Lewis Sabin M, Arregoces L, Martinez-Alvarez M, Pitt C. Estimates of aid for reproductive, maternal, newborn, and child health: findings from application of the Muskoka2 method, 2002-17. *Lancet Glob Health*. 2020 Mar;8(3):e374-e386.
  46. Martinez-Alvarez M, Federspiel F, Singh NS, Schäferhoff M, Lewis Sabin M, Onoka C, Mounier-Jack S, **Borghgi J**, Pitt C. Equity of resource flows for reproductive, maternal, newborn, and child health: are those most in need being left behind? *BMJ*. 2020 Feb 3;368:m305.
  47. Maini R, Lohmann J, Hotchkiss DR, Mounier-Jack S, **Borghgi J**. What Happens When Donors Pull Out? Examining Differences in Motivation Between Health Workers Who Recently Had Performance-Based Financing (PBF) Withdrawn With Workers Who Never Received PBF in the Democratic Republic of Congo. *Int J Health Policy Manag*. 2019 Nov 1;8(11):646-661.
  48. Cassidy R, Singh NS, Schiratti PR, Semwanga A, Binyaruka P, Sachingongu N, Chama-Chiliba CM, Chalabi Z, **Borghgi J**, Blanchet K. Mathematical modelling for health systems research: a systematic review of system dynamics and agent-based models. *BMC Health Serv Res*. 2019 Nov 19;19(1):845.
  49. Radovich E, Dennis ML, Barasa E, Cavallaro FL, Wong KL, **Borghgi J**, Lynch CA, Lyons-Amos M, Abuya T, Benova L. Who pays and how much? A cross-sectional study of out-of-pocket payment for modern contraception in Kenya. *BMJ Open*. 2019 Feb 20;9(2):e022414.
  50. Kuwawenaruwa A, Ramsey K, Binyaruka P, Baraka J, Manzi F, **Borghgi J**. Implementation and effectiveness of free health insurance for the poor pregnant women in Tanzania: A mixed methods evaluation. *Soc Sci Med*. 2019 Mar;225:17-25.
  51. Khan M, Roychowdhury I, Meghani A, Hashmani F, **Borghgi J**, Liverani M. 2019. Should performance-based incentives be used to motivate health care providers? Views of

- health sector managers in Cambodia, China and Pakistan. *Health Econ Policy Law*. 2019 Jan 31;1-14.
52. Kapologwe NA, Kalolo A, Kibusi SM, Chaula Z, Nswilla A, Teuscher T, Aung K, **Borghgi J**. 2019. Understanding the implementation of Direct Health Facility Financing and its effect on health system performance in Tanzania: a non-controlled before and after mixed method study protocol. *Health Res Policy Syst*. ;17(1):11
  53. Pedrazzoli D, **Borghgi J**, Viney K, Houben RMGJ, Lönnroth K. 2019. Measuring the economic burden for TB patients in the End TB Strategy and Universal Health Coverage frameworks. *Int J Tuberc Lung Dis*;23(1):5-11.
  54. Kuwawenaruwa A, Remme M, Mtei G, Makawia S, Maluka S, Kapologwe N, **Borghgi J**. Bank accounts for public primary health care facilities: Reflections on implementation from three districts in Tanzania. *Int J Health Plann Manage*. 2018 Nov 20.
  55. Binyaruka P, Robberstad B, Torsvik G, **Borghgi J**. Does payment for performance increase performance inequalities across health providers? A case study of Tanzania. *Health Policy Plan*. 2018 Nov 1;33(9):1026-1036.
  56. Maini R, Mounier-Jack S, **Borghgi J**. Performance-based financing versus improving salary payments to workers: insights from the Democratic Republic of Congo. *BMJ Glob Health*. 2018 Sep 25;3(5):e000958.
  57. Kasteng F, Murray J, Cousens S, Sarrassat S, Steel J, Meda N, Ouedraogo M, Head R, **Borghgi J**.
  58. Cost-effectiveness and economies of scale of a mass radio campaign to promote household life-saving practices in Burkina Faso. *BMJ Glob Health*. 2018 Jul 16;3(4):e000809. doi: 10.1136/bmjgh-2018-000809. eCollection 2018.
  59. Murray J, Head R, Sarrassat S, Hollowell J, Remes P, Lavoie M, **Borghgi J**, Kasteng F, Meda N, Badolo H, Ouedraogo M, Bambara R, Cousens S. Modelling the effect of a mass radio campaign on child mortality using facility utilisation data and the Lives Saved Tool (LiST): findings from a cluster randomised trial in Burkina Faso. *BMJ Glob Health*. 2018 Jul 16;3(4):e000808. doi: 10.1136/bmjgh-2018-000808.
  60. Pitt C, Grollman C, Martinez-Alvarez M, Arregoces L, **Borghgi J**. Tracking aid for global health goals: a systematic comparison of four approaches applied to reproductive, maternal, newborn, and child health. *Lancet Glob Health*. 2018 Aug;6(8):e859-e874.
  61. **Borghgi J**, Singh NS, Brown G, Anselmi L, Kristensen S. Understanding for whom, why and in what circumstances payment for performance works in low and middle income countries: protocol for a realist review. *BMJ Glob Health*. 2018 Jun 27;3(3):e000695.
  62. Binyaruka P, **Borghgi J**. Validity of parental recalls to estimate vaccination coverage: evidence from Tanzania. *BMC Health Serv Res*. 2018 Jun 13;18(1):440.
  63. Pedrazzoli D, Siroka A, Boccia D, Bonsu F, Nartey K, Houben R, **Borghgi J**. How affordable is TB care? Findings from a nationwide TB patient cost survey in Ghana. *Trop Med Int Health*. 2018 Aug;23(8):870-878.
  64. Grollman C, Cavallaro FL, Duclos D, Bakare V, Martínez Álvarez M, **Borghgi J**. Donor funding for family planning: levels and trends between 2003 and 2013. *Health Policy Plan*. 2018 May 1;33(4):574-582.
  65. Countdown to 2030 Collaboration. Countdown to 2030: tracking progress towards universal coverage for reproductive, maternal, newborn, and child health. *Lancet*. 2018 Apr 14;391(10129):1538-1548.
  66. Binyaruka P, Robberstad B, Torsvik G, **Borghgi J**. Who benefits from increased service utilisation? Examining the distributional effects of payment for performance in Tanzania. *Int J Equity Health*. 2018 Jan 29;17(1):14.

67. Maini R, Mounier-Jack S, **Borghi J**. 2018. How to and how not to develop a theory of change to evaluate a complex intervention: reflections on an experience in the Democratic Republic of Congo. *BMJ Global Health*,
68. **Borghi J**, Lohmann J, Dale E, Meheus F, Goudge J, Oboirien K, Kuwawenaruwa A. 2017. How to do (or not to do)... Measuring health worker motivation in surveys in low- and middle-income countries. *Health Policy Plan*..
69. Martinez-Alvarez M, Acharya A, Arregoces L, Brearley L, Pitt C, Grollman C, **Borghi J**. 2017. Trends In The Alignment And Harmonization Of Reproductive, Maternal, Newborn, And Child Health Funding, 2008-13. *Health Aff (Millwood)*;36(11):1876-1886.
70. **Borghi J**, Munthali S, Million LB, Martinez-Alvarez M. 2018. Health financing at district level in Malawi: an analysis of the distribution of funds at two points in time. *Health Policy Plan*;33(1):59-69.
71. **Borghi J** and Chalabi Z. 2017. Square peg in a round hole: re-thinking our approach to evaluating health system strengthening in low-income and middle-income countries. *BMJ Global Health*.
72. Kuwawenaruwa A, **Borghi J**, Remme M, Mtei G. 2017. An assessment of equity in the distribution of non-financial health care inputs across public primary health care facilities in Tanzania. *Int J Equity Health*;16(1):124.
73. Pitt C, Grollman C, Martinez-Alvarez M, Arregoces L, Lawn JE, **Borghi J**. 2017. Countdown to 2015: An analysis of donor funding for prenatal and neonatal health, 2003-2013. *BMJ Global Health*; 2(2): e000205
74. Grollman C, Arregoces L, Martinez-Alvarez M, Pitt C, Powell-Jackson T, Hsu J, Greco G, **Borghi J**. 2017. Developing a dataset to track aid for reproductive, maternal, newborn and child health, 2003-2013. *Sci Data* 28;4:170038.
75. Mayumana I, **Borghi J**, Anselmi L, Mamdani M, Lange S. 2017. Effects of Payment for Performance on accountability mechanisms: Evidence from Pwani, Tanzania. *Social Science & Medicine* 179:61-73.
76. Maini R, Hotchkiss DR, **Borghi J**. 2017. A cross-sectional study of the income sources of primary care health workers in the Democratic Republic of Congo. *Hum Resour Health*;15(1):17.
77. Anselmi L, Binyaruka P, **Borghi J**. 2017. Understanding causal pathways within health systems policy evaluation through mediation analysis: an application to payment for performance (P4P) in Tanzania. *Implement Sci*; 12(1):10.
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### Conferences

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**Borghi J** Unpacking the effects of floods and heatwaves on routine maternal and child health care coverage and vulnerability drivers. Session Organiser. IHEA, 2025.

**Borghi J**, Maceira D, Shankar P, Wiseman V Bridging Theory and Practice: Launch of Health Financing in Low and Middle Income Countries: the Path to Universal Health Coverage – a new resource for the health economics community. IHEA pre-conference session.

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Chen H, NITSCH D, Silva I, HAJAT S, Xander Russo L, Mi Z, **BORGHI J**, Nunes Silva E, FOSS AM; Impact of heat stress on morbidity in Brazil: An economic evaluation based on cost-of-illness. EuHEA Conference, Vienna, Austria (2024)

Silva I and **Borghi J**: Impact of floods and heat on maternal and child health care access and affordability, a systematic review. EuHEA Conference, Vienna, Austria (2024).

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**Borghi J**. Is climate change relevant to health financing? Closing Plenary: [Reframing Health Economics in the Context of Climate Change](#). 15th World Congress of the International Health Economics Association (IHEA), Cape Town, July 8-12.

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Alibrahim A, FOSS A, Mziray N, Binyaruka P, Maiba J, CASSIDY R, Chalabi Z, **BORGHI J**; Using agent-based modelling to inform incentive design across three levels of care in the payment for performance (P4P) scheme for childbirth care in Tanzania. 15th World Congress of the International Health Economics Association (IHEA), Cape Town, July 8-12. *Abstract accepted for oral presentation* (2023)

CASSIDY R, Alibrahim A, FOSS A, Semwanga AR, Mziray N, Binyaruka P, **BORGHI J**; The 'Holy Grail' for Health Systems Modelling: Hybrid Simulation for Strengthened Evaluation of Complex Interventions. 15th World Congress of the International Health Economics Association (IHEA), Cape Town, July 8-12. *Abstract accepted for oral presentation* (2023)

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FARDOUSI N, **BORGHI JO**, Rud Kristensen S, Gurgel G, Kovacs R, Sampaio J, Shimizu H, Gomes L, Xander L, Da Silva E, POWELL-JACKSON T; Incentive Design and Quality of Care Under Brazil's National Pay-For-Performance Programme for Primary Care. International Health Economics Association 14th Congress (2021)

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QUAIFE M, Seifu A, MARCHANT T, **BORGHI J**; UNDER REPORTING OF ABSENTEEISM AMONG HEALTH WORKERS IN ETHIOPIA: A LIST RANDOMISATION EXPERIMENT. *Transactions of the Royal Society of Tropical Medicine and Hygiene* (2019) 113, S294-S294 <https://www.webofscience.com/a...>

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Anselmi L, Fichera E, Kristensen S, **BORGHI J**; Payment systems in health care: outcome measurement and heterogeneities. European Health Economics Association,, Maastricht, July 2018

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