# Aleksandra Torbica, MSc, PhD

# **CONTACT & PERSONAL INFORMATION**

Department of Social and Political Sciences, Bocconi University

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Email: aleksandra.torbica@unibocconi.it

Nationality: Serbian & Italian

Place of birth: Banjaluka, Bosnia & Herzegovina

#### **KEY COMPETENCIES**

Health Services and Systems Research, Global Health Policy, Health Economics, Economic Evaluation, Health Technology Assessment, Experimental design, Mixed-methods research

# **CURRENT ACADEMIC POSITIONS**

Since 2016 Associate Professor

Department of Social and Political Sciences, Bocconi University

Since 2022 President- Elect

European Health Economic Association (EuHEA)

# PAST ACADEMIC AND INSTITUTIONAL POSTS

2016-2022	<b>Director</b> Centre for Research on Health and Social Care Management CERGAS SDA Bocconi School of Management, Bocconi University
2020-2022	Special Advisor to the Chair Pan European Commission on Health and Sustainable Development, World Health Organization Regional Office for Europe
2019-2022	President Italian Health Economics Association (AIES)
2012-2014	<b>Director</b> Master of International Health Care Management, Economics and Policy, SDA Bocconi School of Management
2012-2014	<b>Coordinator</b> Research Area Health Economics & HTA at Centre for Research on Health and Social Care Management-CERGAS, Università Commerciale Luigi Bocconi
2006-2011	Coordinator Master of International Health Care Management, Economics and Policy, SDA Bocconi

School of Management

May - October 2007 Visiting Research Fellow

Centre for Health Economics, University of York, England (Alan Williams Health Economics Foundation Fellowship)

**EDUCATION** 

**2004-2007 PhD in Economics and Management of Public Administrations** University of

Parma, Italy. Thesis: "Tariff setting in the Italian NHS"

2001-2002 Master of Science (with Honors) in International Health Care Management,

**Economics and Policy,** 

Università Commerciale Luigi Bocconi

1995-2000 University Degree in Pharmacy

University of Belgrade, Republic of Serbia. *Diploma awarded with Summa cum Laude and Departmental Honors; Awarded Government Scholarship for Excellence* 

#### RESEARCH INTERESTS

My research interests pose on the intersection between different disciplines applied to health and healthcare: policy, economics and management. I am interested in exploring different methodologies stemming from these disciplines to investigate global health policy issues as well as understanding the role of scientific evidence in decision-making processes at macro (policy) and micro (management) levels in different context (developed and low-middle income countries). My research interests revolve around: (i) the use and impact of Health Technology Assessment (HTA) on decision making in healthcare and (ii) methodological issues in estimating outcomes and costs of healthcare technologies/programs/services; (iii) governance of healthcare systems and (iv) evaluation of health policy and programs.

#### **COMPETITIVE RESARCH GRANTS (selection)**

**2023 - Co-leader** of Spoke 10 Age-IT project (PNRR Grant)

2023 - Lead Researcher for Bocconi University - SAGITTARIUS EU Horizon Grant

2023 - Lead Researcher for Bocconi University - SUSTAIN-HTA EU Horizon Grant

**2020 – Principal Investigator** of the project "Evaluating the impact of electronic Logistic Management Information Systems (eLMIS) and Electronic Immunization Registries (EIR) in low- and middle-income countries" funded by Bill & Melinda Gates Foundation

**2020 – Lead Researcher** for Bocconi University "The Quality Improvement of Integrated HIV, Tuberculosis and Malaria in Antenatal and Postnatal Care in Tanzania, Kenya and Nigeria: Economic Evaluation" funded by Global Fund and in collaboration with Liverpool School of Tropical Medicine, UK

**2018–2020 Project Director** of COMED (Pushing the boundaries of Cost and Outcome Analysis of Medical Technologies) – a 3 year, EU Horizon 2020 grant

**2019-2022 Lead Researcher** for Bocconi University - Modelling effectiveness, cost-effectiveness and promoting health care value in the real world. The Motive project – a 3 year PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2017 - MIUR

**2017-2020 Lead Researcher** for Bocconi University - IQCE (Improving quality of care in Europe) – a 4 year EU ETN grant

**2015-2016 Co-principal investigator** of A Mixed-Methods Evaluation of A Usaid Performance Based Incentives Program to Improve The Uptake And Quality Of Essential Health Care Services In Malawi. USAID - Translating Research into Action. Responsible for the WP dedicated to cost analysis.

**2013-2015 Deputy Project Director** of MedtecHTA (Methods for HTA of medical devices: a European Perspective). A 3-year, two-stages, EU Seventh Framework Programme (FP7) grant.

**2011-2012 Co-principal investigator** of Agenda - setting criteria for the abolition of user fees health policies in West Africa, funded by Africa Initiative Grant at the Centre for International Governance Innovation.

**2009-2012 Lead Researcher** for University Bocconi in ECHOUTCOME - European Consortium in Healthcare Outcomes and Cost-Benefit research. A 3-year, two-stages, EU Seventh Framework Programme (FP7) grant.

**2005-2008 Lead Researcher** for University Bocconi in Health Benefits and Service Costs in Europe (HealthBASKET project) – Sixth Framework Programme, EC. A 3-year, two-stages, EU Sixth Framework Programme (FP6) grant.

#### TEACHING

Graduate and Master level courses

- Co-instructor of Public Accounting and Performance Management core course at the MSc Government and International Organizations (GIO), Graduate School, Bocconi University
- Main instructor of Health Technologies & Market Access elective course at the Graduate School, Bocconi University
- Co-instructor of Economic Evaluation Analysis of Healthcare Programmes compulsory course at MIHMEP (Master in International Healthcare Management, Economics and Policy), SDA-Bocconi (since 2002)
- Main instructor of Decision Analysis in Healthcare- elective course at MIHMEP (Master of International Healthcare Management, Economics and Policy), Bocconi University, Milan (since 2004)
- Main instructor of Advanced Economic Evaluation in Health Care –elective course at MIMS (Master of Health Care Management), ), Bocconi University, Milan (since 2007)
- Co- Instructor of Economic Evaluation in Healthcare compulsory course at MIMS (Master of Health Care Management taught in Italian)), Bocconi University, Milan. (2007-2010)
- Visiting instructor in "Mixed Methods Research for International Health"- University of Heidelberg, Germany (2012)

#### *Undergraduate level courses*

 Co-Instructor of Public Management – optional course at Degree in International Economics, Management and Finance (BIEMF) and World Bachelor in Business (WBB), Bocconi University, Milan (since 2009)

- Main Instructor of Economics and Management in Public Organizations compulsory course for the Degree in Economics and Management (CLEAM), Bocconi University, Milan (years 2007-2011)
   Executive level courses
  - Extensive teaching at Executive level in the areas of economic evaluation analyses and health technology assessment

#### **PUBLICATIONS**

# International peer-reviewed journals

- 1. Antonini, M., Genie, M.G., Attema, A.E., Attwell, K., Balogh, Z.J., Behmane, D., Berardi, C., Brammli-Greenberg, S., Greenland, A., Hagen, T.P., Hinwood, M., James, C., Kellner, A., Kelly, B., Murauskienė, L., McGregor, N., Melegaro, A., Moy, N., Sequeira, A.R., Singh, R., **Torbica, A.,** Ward, J.K., Yang, D. and Paolucci, F., 2024. Public preferences for vaccination campaigns in the COVID-19 endemic phase: insights from the VaxPref database. Health Policy and Technology, 13(1), p.100849.
- 2. Armeni, P., Meregaglia, M., Borsoi, L., Callea, G., **Torbica, A.**, Benazzo, F. and Tarricone, R., 2023. Collecting Physicians' Preferences on Medical Devices: Are We Doing It Right? Evidence from Italian Orthopedists Using 2 Different Stated Preference Methods. Medical Decision Making, 43(7-8), pp.886-900.
- 3. Luengo-Fernandez, R., Little, M., Gray, A., **Torbica, A.**, Maggioni, A.P., Huculeci, R., Timmis, A.D., Vardas, P. and Leal, J., 2024. Cardiovascular disease burden due to productivity losses in European Society of Cardiology countries. \*European Heart Journal Quality of Care and Clinical Outcomes\*, 10(1), pp.36-44.
- 4. Armeni P, Meregaglia M, Borsoi L, . Collecting Physicians' Preferences on Medical Devices: Are We Doing It Right? Evidence from Italian Orthopedists Using 2 Different Stated Preference Methods. Medical Decision Making. 2023;43(7-8):886-900. doi:10.1177/0272989X231201805 1.
- 5. Armeni P, Meregaglia M, Borsoi L, et al. Collecting Physicians' Preferences on Medical Devices: Are We Doing It Right? Evidence from Italian Orthopedists Using 2 Different Stated Preference Methods. Medical Decision Making. 2023;43(7-8):886-900. doi:10.1177/0272989X231201805
- 6. Sabat, I., Neumann-Böhme, S., Barros, P.P., **Torbica, A.**, van Exel, J., Brouwer, W., Stargardt, T. and Schreyögg, J., 2023. Vaccine hesitancy comes in waves: Longitudinal evidence on willingness to vaccinate against COVID-19 from seven European countries. Vaccine, 41(36), pp.5304-5312.
- 7. Luengo-Fernandez, R., Walli-Attaei, M., Gray, A., **Torbica, A.**, Maggioni, A.P., Huculeci, R., Bairami, F., Aboyans, V., Timmis, A.D., Vardas, P. and Leal, J., 2023. Economic burden of cardiovascular diseases in the European Union: a population-based cost study. \*European Heart Journal\*, ehad583.
- 8. Shayegh S, Andreu-Perez J, Akoth C, Bosch-Capblanch X, Dasgupta S, Falchetta G, ...**Torbica A** et al. (2023) Prioritizing COVID-19 vaccine allocation in resource poor settings: Towards an Artificial Intelligence-enabled and Geospatial-assisted decision support framework. PLoS ONE 18(8): e0275037.
- 9. Himmler, S., van Exel, J., Brouwer, W..**Torbica A,** et al. Braving the waves: exploring capability well-being patterns in seven European countries during the COVID-19 pandemic. Eur J Health Econ (2023). https://doi.org/10.1007/s10198-023-01604-8
- 10. R. van Kessel, R. Forman, R. Milstein, ...**Torbica A** et al. Divergent COVID-19 vaccine policies: Policy mapping of ten European countries, Vaccine, Volume 41, Issue 17,2023, Pages 2804-2810,

- 11. König, HH., Neumann-Böhme, S., Sabat, I...Torbica A, et al. Health-related quality of life in seven European countries throughout the course of the COVID-19 pandemic: evidence from the European COvid Survey (ECOS). Qual Life Res 32, 1631–1644 (2023).
- 12. Enzing, J.J., van Krugten, F.C.W., Sabat, I., Neumann-Böhme, S., Boer, B., Knies, S., Brouwer, W.B.F., Barros, P.P., van Exel, J., Schreyögg, J., Stargardt, T., **Torbica,A**. Psychometric evaluation of the Mental Health Quality of Life (MHQoL) instrument in seven European countries (2022) Health and Quality of Life Outcomes, 20 (1), art. no. 129
- 13. Hajek, A., Neumann-Böhme, S., Sabat, I., **Torbica, A.,** Schreyögg, J., Barros, P.P., Stargardt, T., König, H.-H. Depression and anxiety in later COVID-19 waves across Europe: New evidence from the European COvid Survey (ECOS) (2022) Psychiatry Research, 317, art. no. 114902
- 14. **Torbica, A.,** Tarricone, R., Schreyögg, J., Drummond, M. Pushing the boundaries of evaluation, diffusion, and use of medical devices in Europe: Insights from the COMED project (2022) Health Economics (United Kingdom), 31 (S1), pp. 1-9.
- 15. Möllenkamp, M., Pongiglione, B., Rabbe, S., **Torbica, A.,** Schreyögg, J. Spillover effects and other determinants of medical device uptake in the presence of a medical guideline: An analysis of drug-eluting stents in Germany and Italy(2022) Health Economics (United Kingdom), 31 (S1), pp. 157-178.
- 16. Klein, P., Blommestein, H., Al, M., Pongiglione, B., **Torbica, A.,** Groot, S.D. Real-world evidence in health technology assessment of high-risk medical devices: Fit for purpose? (2022) Health Economics (United Kingdom), 31 (S1), pp. 10-24.
- 17. Pongiglione, B., **Torbica, A.** How real can we get in generating real world evidence? Exploring the opportunities of routinely collected administrative data for evaluation of medical devices(2022) Health Economics (United Kingdom), 31 (S1), pp. 25-43.
- 18. Drummond, M., Federici, C., Reckers-Droog, V., **Torbica, A.,** Blankart, C.R., Ciani, O., Kaló, Z., Kovács, S., Brouwer, W. Coverage with evidence development for medical devices in Europe: Can practice meet theory? (2022) Health Economics (United Kingdom), 31 (S1), pp. 179-194.
- 19. Drummond, M.F., Augustovski, F., Bhattacharyya, D., Campbell, J., Chaiyakanapruk, N., Chen, Y., Galindo-Suarez, R.M., Guerino, J., Mejía, A., Mujoomdar, M., Ollendorf, D., Ronquest, N., **Torbica, A.,** Tsiao, E., Watkins, J., Yeung, K. Challenges of Health Technology Assessment in Pluralistic Healthcare Systems: An ISPOR Council Report (2022) Value in Health, 25 (8), pp. 1257-1267.
- **20.** Drummond, M., Tarricone, R., **Torbica, A.** European union regulation of health technology assessment: what is required for it to succeed?(2022) European Journal of Health Economics, 23 (6), pp. 913-915.
- 21. Belardinelli, P., **Torbica, A.,** Fattore, G. Longitudinal associations between different measures of socioeconomic status and health behavior among adolescents. Data from a wealthy Italian region (2022) Preventive Medicine, 160, art. no. 107092
- 22. **A Torbica**, C Grainger, E Okada, M De Allegri How much does it cost to combine supply-side and demand-side RBF approaches in a single intervention? Full cost analysis of the Results Based Financing for Maternal and Newborn Health Initiative in Malawi *BMJ open* 12 (4), e050885. 2022
- 23. Forman R, Azzopardi-Muscat R, Kirkby V, Lessof S, Limaro Nathan N, Pastorino G, Permanand G, van Schalkwyk M., **Torbica A,** Busse R, Figueras J, McKee M, Mossialos E, Drawing light from the pandemic: Rethinking strategies for health policy and beyond, *Health Policy*, Volume 126, Issue 1 2022, Pages 1-6,

- 24. Monti M, **Torbica A**, Mossialos E, McKee M. A new strategy for health and sustainable development in the light of the COVID-19 pandemic. *Lancet*. 2021; 398(10305):1029-1031.
- 25. Chandler T, Neumann-Bohme S, Sabat I, **Torbica A** et al. Blood donation in times of crisis: Early insight into the impact of COVID-19 on blood donors and their motivation to donate across European countries. *Vox Sang.* 2021;116(10):1031-1041.
- 26. Townsend N, Kazakiewicz D, Lucy Wright, **Torbica A** et al. Epidemiology of cardiovascular disease in europe. *Nature Rev Cardiol*. 2021.
- 27. Tarricone R, Listorti E, Tozzi V, **Torbica A** et al. Transformation of cancer care during and after the COVID pandemic, a point of no return. the experience of Italy. *J Cancer Policy*. 2021;29
- 28. Pongiglione B, **Torbica A,** Gale CP, Tavazzi L, Vardas P, Maggioni AP. Patient, hospital and country-level risk factors of all-cause mortality among patients with chronic heart failure: Prospective international cohort study. *PLoS One*. 2021;16(5): e0250931
- 29. **Torbica A,** Rognoni C, Tarricone R. Investigating patients' preferences to inform drug development decisions: Novel insights from a discrete choice experiment in migraine. *Int J Environ Res Public Health*. 2021;18(9)
- 30. Tarricone R, Amatucci F, Armeni P, **Torbica A** et al. 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;125(5):602-608
- 31. Varghese NE, Sabat I, Neumann-Bohme S, **Torbica A** et al. Risk communication during COVID-19: A descriptive study on familiarity with, adherence to and trust in the WHO preventive measures. *PLoS One*. 2021;16(4)
- 32. Pongiglione B, **Torbica A**, Blommestein H, et al. Do existing real-world data sources generate suitable evidence for the HTA of medical devices in Europe? Mapping and Critical appraisal. *Int J Technol Assess Health Care*. 2021;37(1): e62.
- 33. Federici C, **Torbica A**. Expanding the role of early health economic modelling in evaluation of health technologies comment on "problems and promises of health technologies: The role of early health economic modeling". *Int J Health Policy Manag.* 2021;10(2):102-105.
- 34. Varghese NE, Santoro E, Lugo A, **Torbica A** et al. The role of technology and social media use in sleep-onset difficulties among italian adolescents: Cross-sectional study. *J Med Internet Res.* 2021;23(1): e20319.
- 35. Pongiglione B, **Torbica A,** Gusmano MK. Inequalities in avoidable hospitalisation in large urban areas: Retrospective observational study in the metropolitan area of Milan. *BMJ Open.* 2020;10(12)
- 36. Wang Y, Ghislandi S, **Torbica A.** Investigating the geographic disparity in quality of care: The case of hospital readmission after acute myocardial infarction in italy. *Eur J Health Econ.* 2020;21(8):1149-1168.
- 37. Tarricone R, Ciani O, **Torbica A**, et al. Lifecycle evidence requirements for high-risk implantable medical devices: A European perspective. *Expert Rev Med Devices*. 2020;17(10):993-1006.
- 38. Nguyen HT, Torbica A, Brenner S, **Torbica A** et al. Economic evaluation of user-fee exemption policies for maternal healthcare in Burkina Faso: Evidence from a cost-effectiveness analysis. *Value Health*. 2020;23(3):300-308
- 39. Timmis A, Townsend N, Gale CP., **Torbica A** et al. European society of cardiology: Cardiovascular disease statistics 2019. *Eur Heart J*. 2020;41(1):12-85.

- 40. Drummond M, **Torbica A**, Tarricone R. Should Health Technology Assessment be more patient-centric? If so, how? *European Journal of Health Economics*, 2020.
- 41. **Torbica A**, Fornaro G, Tarricone R, Drummond M, Do Social Values and Institutional Context Shape the Use of Economic Evaluation in Reimbursement Decisions? An Empirical Analysis, *Value in Health* 2020, vol. 23, no. 1, pp. 17-24.
- 42. Wang Y; Mckee M; **Torbica A**; Stuckler D, "Systematic literature review on the spread of health-related misinformation on social media", *Social Science and Medicine*, 2019, 240, 112552
- 43. De Allegri M, Makwero C, **Torbica A**, "At what cost is performance-based financing implemented? Novel evidence from Malawi", *Health Policy and Planning*, 2019, 24(4), pp. 282-288
- 44. **Torbica A**, "HTA around the world: broadening our understanding of cross-country differences", *Value in Health*, 2019.
- 45. Banks H, **Torbica A**, Valzania C, Varabyova Y, Prevolnik Rupel V, Taylor RS, Hunger T, Walker S, Boriani G, Fattore G, "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", *Europace* 2018, 20(4), pp. 643-653
- 46. **Torbica A**, Tarricone R, Drummond M, "Does the approach to economic evaluation in health care depend on culture, values, and institutional context?", *European Journal of Health Economics*, 2018, 19(6):769-774.
- 47. Tarricone, R., **Torbica**, **A.**, and Drummond, M. (2017) Challenges in the Assessment of Medical Devices: The MedtecHTA Project. *Health Economics*, 26: 5–12.
- 48. Tarricone, R., **Torbica, A.,** Drummond, M., and for the MedtecHTA Project Group (2017) Key Recommendations from the MedtecHTA Project. *Health Economics*, 26: 145–152.
- 49. Hatz, M. H. M., Schreyögg, J., **Torbica, A.,** Boriani, G., and Blankart, C. R. B. (2017) Adoption Decisions for Medical Devices in the Field of Cardiology: Results from a European Survey. *Health Economics*, 26: 124–144.
- 50. **Torbica, A.,** Banks, H., Valzania, C., Boriani, G., and Fattore, G. (2017) Investigating Regional Variation of Cardiac Implantable Electrical Device Implant Rates in European Healthcare Systems: What Drives Differences?. *Health Economics*, 26: 30–45.
- 51. Marsilio M, **Torbica A,** Villa S. (2017) Healthcare Multidisciplinary Teams: The Sociotechnical approach for an integrated system-wide perspective. *Health Care Management Review 42* (4), 303-314
- 52. Varabyovaa Y, Blankart CR, **Torbica A,** Schreyögg J. (2017) Comparing the Technical Efficiency of Hospitals in Italy and Germany: Nonparametric Conditional Approach. *Health Care Management Science* 20 (3), 379-394
- 53. G Callea, MC Cavallo, R Tarricone, **A Torbica.** Learning effect and diffusion of innovative medical devices: the case of transcatheter aortic valve implantation in Italy *Journal of comparative effectiveness research* 6 (4), 279-292
- 54. Drummond, M., Tarricone, R. & Torbica, A. (2016) Eur J Health Econ 17 (9), 1055-1058
- 55. Albiro G, **Torbica A,** DeAllegri M. (2016) What factors drive heterogeneity of preferences for micro health insurance in rural Malawi?, *Health Policy & Planning* 31 (9), 1172-1183

- 56. **Torbica A**, Maggioni A. Ghislandi S. (2015) Economic crisis and Acute Myocardial Infarction: new evidence using hospital-level data. *PloS One* 10 (11) e0142810
- 57. Valzania C, **Torbica A**, Tarricone R, Lyve F, Boriani G. (2015) Implant rates of cardiac implantable electrical devices in Europe: A systematic literature review. *Health Policy* 120 (1): 1-15
- 58. **Torbica A,** Calciolari S. Fattore G. (2015) Does informal care impact utilization of healthcare services? Evidence from a longitudinal study of stroke patients. *Social Science & Medicine*. 124; 29-38
- 59. Sorenson C, Drummond M, **Torbica A**, Callea G, Mateus C. (2015) The Role of Hospital Payments in the Adoption of New Medical Technologies: An International Survey of Current Practice, *Health Economics, Policy and Law* Apr;10 (2): 133-59
- 60. Albiro G, **Torbica A,** Kwalamasa K, De Allegri M. (2014) Eliciting community preferences for complementary micro health insurance: a discrete choice experiment in rural Malawi. *Social Science & Medicine*, 120:160-168
- 61. Tarricone R, **Torbica A,** Ferre F, Drummond M. (2014) Generating Appropriate Clinical Data for Value Assessment of Medical Devices: What Role Does Regulation Play? *Expert Review of Pharmacoenomics and Outcome Research* 14 (5), 707-718
- 62. Beresniak A, Medina-Lara A, Auray JP, De Wever, Praetf JC, Tarricone R, **Torbica A,** Dupont D, Lamure M, Durue G. (2014) Validation of the Underlying Assumptions of the QALY Outcome Results from the ECHOUTCOME European Project *Pharmacoeconomics* 33 (1) 61-69
- 63. **Torbica A,** De Allegri M, Belemsaga DY, Medina-Lara A, Ridde V. (2014) What criteria guide policy decisions on user fee removal for maternal healthcare services? Results from a Best-Worst Scaling choice experiment in West Africa. *Journal of Health Service Research and Policy* Oct 19(4):208-15.
- 64. Petrarca G, Fattore G, **Torbica A**. (2014) Travelling for care: evidence about inter-regional mobility for aortic valve substitution in Italy *Health Policy* Jul, 117(1):90-7.
- 65. **Torbica A,** Fattore G, Ayala, F. (2014) Eliciting Preferences to Inform Patient-Centred Policies: the Case of Psoriasis. *PharmacoEconomics*, 32, 209-223.
- 66. Angus C, Scafato E, Ghirini S, **Torbica A,** Ferre F, Struzzo P. (2014). Cost-effectiveness of a programme of screening and brief interventions for alcohol in primary care in Italy. *BMC Family Practice*, 15, 26.
- 67. Calciolari S., **Torbica A,** Tarricone R. (2013) Explaining the Health Costs Associated with Managing Intracranial Aneurysms in Italy. *Applied health economics and health policy*, 11, 427-435.
- 68. Drummond M, Tarricone R, **Torbica A**. (2013) Assessing the Added Value of Health Technologies: Reconciling Different Perspectives. *Value in Health*, 16 (1), S7-S13
- 69. Ghislandi S, **Torbica A**, Boriani G. (2013) Assessing the outcomes of implantable cardioverter defibrillator treatment in a real world setting: results from hospital record data. *BMC Health Services Research*, 13:100
- 70. Ciani O, Tarricone R, **Torbica A.** (2012) Diffusion and use of health technology assessment in policy making: What lessons for decentralised healthcare systems? *Health Policy* 20;108(2-3):194-202
- 71. Fattore G, **Torbica A,** Susi A, Aguzzi G, Benelli G, Gozzo M, Vito T. (2012) The social and economic burden of stroke survivors in Italy: a prospective incidence-based, multi-centre cost of illness study. *BMC Neurol*, Nov 14;12(1):137

- 72. **Torbica A.** Fattore G. (2010) Understanding the impact of economic evidence on clinical decision making: a discrete choice experiment in cardiology *Social Science & Medicine* May;70(10):1536-43
- 73. Tarricone R, **Torbica\_A**, Franzetti F, Rosenthal VD. (2010) Hospital costs of central line-associated bloodstream infections and cost-effectiveness of closed vs. open infusion containers. The case of Intensive Care Units in Italy. *Cost Eff Resour Alloc*, 8(--):8
- 74. **Torbica A**, Cappellaro G. (2010) Uptake and diffusion of medical technology innovation in Europe: What role for funding and procurement policies?. *Journal of Medical Marketing* 10: 61-69
- 75. Cappellaro G. Fattore G, **Torbica A**. (2009) Funding health technologies in decentralized systems: A comparison between Italy and Spain. *Health Policy* 92 (2-3):313-21
- 76. Gerzeli S, **Torbica A**, Fattore G. (2009) Cost utility analysis of microprocessor controlled knee prosthesis in Italy. *European Journal of Health Economics* 10(1):47-55
- 77. Fattore G, **Torbica A**. (2008) Cost and reimbursement of cataract surgery in Europe: a cross country comparison. *Health Economics* 17: S71-82
- 78. Fattore G, **Torbica A.** (2006) Inpatient reimbursement system in Italy: how do tariffs relate to costs? *Health Care Management Science* 9:251-258
- 79. Fattore G, **Torbica A.** (2006) Economic evaluation in health care: the point of view of informed physicians. *Value in Health* May-Jun;9(3):157-67
- 80. **Torbica A,** Fattore G. (2005) The Essential Levels of Care in Italy: when being explicit serves the devolution of powers. *European Journal of Health Economics*, Dec:S46-52

#### **Book chapters (international)**

Tarricone R, **Torbica A.** Basic Principles of Health Technology Assessment, Economic Evaluation, and Costing of Healthcare Programs. In: *Abdominal Wall Surgery*, Greco DP and Borgonovi E (eds), Springer Cham, 2019; pp:141-156.

Drummond M, Tarricone R, **Torbica A**. Economic Evaluation of Medical Devices in Oxford Research Encyclopedia of *Economics* and Finance 2018

Ciani O., **Torbica A.**, Lecci, F.; Morelli, M.; Drummond, M.; Tarricone, R.; De Cicco, M.; Russo, S.; Del Bene, L. (2018) Myth #5. Health care is rightly left to the private sector, for the sake of efficiency in *The myths of healthcare* (Adinolfi P., Borgonovi E. eds), Springer, pp. 123-128

Tarricone R, **Torbica A.** (2012) Costing and performance in healthcare management. In: Faltin, F.W, Kenett, R.S., Ruggeri, F.*Statistical methods in healthcare*. Wiley. p. 386-404.

### Italian peer-reviewed journals

Callea G, **Torbica A,** Tarricone R. (2014) Impatto del sistema di finanziamento a DRG sull'innovazione tecnologica in sanità. Il caso italiano. *Mecosan*; 22 (89): 31-47

Torbica A, Tarricone R, Calciolari S, Branca V, Gaini SM. (2009) Analisi dei costi del trattamento di aneurisma

intracranico in Italia Pharmacoeconomics. Italian Research Articles; 11 (1): 25-37

**Torbica A,** Tarricone R, Musi F. (2008) Analisi dei costi della procedura angioplastica coronarica per via transradiale in regime ambulatoriale in Italia. *Economia e Politica del Farmaco*; 8: 0-15

Fattore G, **Torbica A.** (2007) La valutazione economica in sanità: i decision-makers utilizzano gli studi? *Economia e Politica del Farmaco*; 9:137-152

Fattore G, **Torbica A**. (2006) Il ruolo delle variabili organizzative nella diffusione dell'innovazione tecnologica:il caso dell'infarto miocardico acuto, *Economia e Politica del Farmaco*; 5: 35-46

Fattore G. **Torbica A.** (2005) Costi del trattamento della BPCO in Italia: un'applicazione del metodo bootstrap. *Pharmacoeconomics. Italian Research Articles*; 7:135-143

# Book chapters (in Italian)

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Tarricone R, Ciani O, **Torbica A**, et al. (2017) Programma Nazionale di HTA per dispositivi medici: prove tecniche di implementazione in *L'aziendalizzazione della sanità in Italia - Rapporto OASI*, EGEA, Milano,

Boscolo P, Tarricone R, Ciani O, **Torbica A.** (2015) La funzione di HTA nelle aziende sanitarie italiane: un potenziale ancora inutilizzato? in *L'aziendalizzazione della sanità in Italia - Rapporto OASI*, EGEA, Milano, p. 583-605.

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Carbone C, Jommi C, **Torbica A.** (2006) Tariffe e finanziamento dell'innovazione tecnologica: analisi generale focus su due casi regionali (Emilia Romagna e Lombardia) in *L'aziendalizzazione della sanità italiana-Rapporto OASI* EGEA, Milano,p. 267-303

Otto M, Paruzzolo S, **Torbica A.** (2004) Il governo regionale dell'assistenza farmaceutica: un quadro delle iniziative adottate nel 2003. in *L'aziendalizzazione della sanità italiana-Rapporto OASI*, EGEA, Milano, p. 261-283

#### ACTIVITY AS REFEREE AND EDITOR

2015 -2023 Co-Editor- Value in Health

Referee for the following journals (in alphabetical order):

Applied Health Economics and Health Policy, BMJ Open, Expert Review of Medical Devices, Expert Review of Pharmacoeconomics and Outcome Research, European Journal of Health Economics, Health Policy, Implementation Science, International Journal of Technology Assessment in Health Care, Pharmacoeconomics, Regional Studies, Social Science and

# Medicine, Value in Health.

# RESEARCH FELLOWSHIPS AND AWARDS

2021	Teaching Excellence Award, Bocconi University, Milan
2013	Research Excellence Award, Bocconi University, Milan
2011	Research Excellence Award, Bocconi University, Milan
2010	Research Excellence Award, Bocconi University, Milan
2010	International Award "Vivisalute" for academic research
2009	Research Excellence Award, Bocconi University, Milan
2007	Alan Williams Research Fellowship, University of York, England

#### **PROFESSIONAL MEMBERSHIPS**

iHEA -international Health Economics Association

ISPOR - International Society of Outcome Research

HTAi - international Health Technology Assessment Association

AIES - Italian Association of Health Economics

# **RELEVANT SKILLS**

Extensive knowledge of STATA, Tree Age Fluent in English, Italian and Serbian language