

ALEKSANDRA TORBICA

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PERSONAL INFORMATION

Nationality: Serbian & Italian
Place of birth: Banjaluka, Bosnia & Herzegovina

CURRENT ACADEMIC POSITIONS

- *Associate Professor*, Department of Policy Analysis and Public management Università Commerciale Luigi Bocconi, Milan, Italy.
- *Director*, Centre for Research on Health and Social Care Management-CERGAS SDA Bocconi School of Management, Università Commerciale Luigi Bocconi, Milan, Italy

PAST ACADEMIC AND INSTITUTIONAL POSTS

2012-2014	<i>Director</i> Master of International Health Care Management, Economics and Policy, SDA Bocconi School of Management
2012-2014	<i>Coordinator</i> Research Area Health Economics & HTA at Centre for Research on Health and Social Care Management-CERGAS, Università Commerciale Luigi Bocconi
2006-2011	<i>Coordinator</i> Master of International Health Care Management, Economics and Policy, SDA Bocconi School of Management
May – October 2007	<i>Visiting Research Fellow</i> Centre for Health Economics, University of York, England (<i>Alan Williams Health Economics Foundation Fellowship</i>)

EDUCATION

2004-2007	<i>PhD</i> in Economics and Management of Public Administrations, University of Parma, Italy. ; <i>Thesis: "Tariff setting in the Italian NHS"</i>
2001-2002	<i>Master of Science (with Honors)</i> in International Health Care Management, Economics and Policy, Università Commerciale Luigi Bocconi
1995-2000	<i>University Degree</i> in Pharmacy, University of Belgrade, Republic of Serbia. <i>Diploma awarded with Summa cum Laude and Departmental Honors; Awarded Government Scholarship for Excellence</i>

RESEARCH INTERESTS

The intersection between three disciplines applied to healthcare sector: policy, economics and management. I am interested in exploring different methodologies stemming from these disciplines to investigate how economic evaluation analysis can influence and shape decision-making processes at macro (policy) and micro (management) levels in different contexts. 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/programmes/services; (iii) governance of healthcare systems and (iv) evaluation of public policy and programs. Some of my most significant scientific achievements concern the impact of economic analysis on decision making in healthcare and my focus has been on exploring different methodological approaches to the issue (both quantitative and qualitative).

COMPETITIVE RESEARCH GRANTS

2018–2020 *Project Director of COMED (Pushing the boundaries of Cost and Outcome Analysis of Medical Technologies) – a 3 year, EU Horizon 2020 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 (2016)
- Main instructor of Health Technologies & Market Access – elective course at the Graduate School, Bocconi University (2014)
- 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 (selection)

1. **Torbica, A.**, Tarricone, R. & Drummond, M. (2017) Does the approach to economic evaluation in health care depend on culture, values, and institutional context?. *Eur J Health Econ*, p-1-6
2. Tarricone, R., **Torbica, A.**, and Drummond, M. (2017) Challenges in the Assessment of Medical Devices: The MedtecHTA Project. *Health Econ.*, 26: 5–12.
3. Tarricone, R., **Torbica, A.**, Drummond, M., and for the MedtecHTA Project Group (2017) Key Recommendations from the MedtecHTA Project. *Health Econ.*, 26: 145–152.
4. 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 Econ.*, 26: 124–144.
5. **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 Econ.*, 26: 30–45.
6. 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
7. 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
8. 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

9. Drummond, M., Tarricone, R. & **Torbica, A.** (2016) Eur J Health Econ 17 (9), 1055-1058
10. 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
11. **Torbica A**, Maggioni A. Ghislandi S. (2015) Economic crisis and Acute Myocardial Infarction: new evidence using hospital-level data. *PLoS One* 10 (11) e0142810
12. 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
13. **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
14. 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
15. 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
16. 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 Pharmacoeconomics and Outcome Research* 14 (5), 707-718
17. 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
18. **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.
19. 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.
20. **Torbica A**, Fattore G, Ayala, F. (2014) Eliciting Preferences to Inform Patient-Centred Policies: the Case of Psoriasis. *Pharmacoeconomics*, 32, 209-223.
21. 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.
22. 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.
23. Drummond M, Tarricone R, **Torbica A**. (2013) Assessing the Added Value of Health Technologies: Reconciling Different Perspectives. *Value in Health*, 16 (1), S7-S13

24. 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
25. 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
26. 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
27. **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
28. 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
29. **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
30. 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
31. 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
32. Fattore G, **Torbica A**. (2008) Cost and reimbursement of cataract surgery in Europe: a cross country comparison. *Health Economics* 17: S71-82
33. Fattore G, **Torbica A**. (2006) Inpatient reimbursement system in Italy: how do tariffs relate to costs? *Health Care Management Science* 9:251-258
34. 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
35. **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)

36. Drummond M, Tarricone R, **Torbica A**. Economic Evaluation of Medical Devices in Oxford Research Encyclopedia of Economics and Finance (in press).
37. 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

38. 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

39. **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
40. **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
41. Fattore G, **Torbica A**. (2007) La valutazione economica in sanità: i decision-makers utilizzano gli studi? *Economia e Politica del Farmaco*; 9:137-152
42. 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
43. 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)

44. 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,
45. 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.
46. Boscolo P, Ciani O, **Torbica A**. (2012) I processi di valutazione dei dispositivi medici e delle tecnologie sanitarie. In: Rosanna Tarricone. *Politiche per la salute e scelte aziendali. Impatto sull'innovazione e diffusione delle tecnologie mediche*. EGEA, Milano p. 159-186.
47. Fattore G, **Torbica A**. (2010) Equità territoriale: definizioni, evidenze empiriche e politiche appropriate in *L'aziendalizzazione della sanità italiana-Rapporto OASI*, EGEA, Milano, p. 263-288.
48. 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
49. 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

- 2015-2019- Co-Editor- *Value in Health* (IF 2014 3.279; 5-year IF 3.373; Rank Q1 13/88 *Health care Sciences & Services*)
- 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.

ORGANIZATION OF CONFERENCES

- *Member of the scientific and local organizing committee* - 11th World Congress: "De Gustibus Disputandum Non Est!" Health Economics and Nutrition: an iHEA World Congress – Bocconi University, July 2015
- *Member of the scientific and local organizing committee* -Methods for HTA of medical devices: a European perspective – final conference- Bocconi University, November 2015
- *Member of the scientific and local organizing committee*- Sustaining and Implementing Universal Health Coverage: 4 perspectives for 5 continents – Bocconi University, February 2012
- *Member of the scientific and organizing committee*, XX Annual Conference of Italian Health Economics Association – University of Sassari, Alghero, Italy – October 2015
- *Member of the scientific and organizing committee*, XIX Annual Conference of Italian Health Economics Association –University Cà Foscari, Venezia, Italy – October 2014
- *Member of the scientific and organizing committee*, XX Annual Conference of Italian Health Economics Association –University of Trento, Trento, Italy – October 2013
- Seminar series, Department of Policy Analysis and Public Management, Bocconi University – 2010-2013

RESEARCH FELLOWSHIPS AND AWARDS

- 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 in the field of healthcare (sponsored by the Provincial Government of Milan, Milan, Italy)
- 2009 Research Excellence Award, Bocconi University, Milan
- 2007 Alan Williams Research Fellowship, University Of York, England

AFFILIATIONS

AIDEA -Italian Academy of Management

AIES - Italian Association of Health Economics

iHEA - international Health Economics Association

ISPOR - International Society of Outcome Research

HTAi - international Health Technology Assessment Association

LANGUAGES

Serbian: native language

Italian: excellent

English: excellent