

# Giuditta Callea

## *Curriculum Vitae et Studiorum*

### General Information

**Place and date of birth:** Gardone Val Trompia (BS), 13<sup>th</sup> April 1974

**Address:** Via Roentgen 1, 20136 Milano

**Telephone:** +39 02 5836 2728

**E-mail:** [giuditta.callea@unibocconi.it](mailto:giuditta.callea@unibocconi.it)

**Citizenship:** Italian

### Education

**Ph.D. in Economics and Technology Management**, 2009, Department of Economics and Technology Management, University of Bergamo, Thesis: “Efficiency and opportunistic behaviour induced by prospective payment system in the hospital sector”, Supervisor: prof. Gianmaria Martini.

**MSc in Management Engineering**, 2001, Faculty of Engineering, University of Brescia, Thesis: “Programmazione strategica nell’azienda ospedaliera: metodologie di approccio allo studio della domanda. Il progetto del nuovo Ospedale dei Bambini di Brescia”, Supervisor: prof. Marco Mutinelli.

### Research Fields

Economic evaluation and Health Technology Assessment; Incentives of Prospective Payment Systems; Funding and reimbursement of medical technologies; Procurement of medical technologies; Determinants of adoption and diffusion of new medical technologies; Traceability of new medical technologies in administrative databases.

### Present Position

September 2010 - : Research Fellow, CER GAS (Centre for Research on Health and Social Care Management), SDA Bocconi School of Management, Università Commerciale Luigi Bocconi, Milan, Italy.

### Previous Positions

March 2009 – December 2009: Research Fellow, Faculty of Engineering, Department of Economics and Technology Management, University of Bergamo. Title of the Research Project: “Valutazione degli effetti di efficienza derivanti dall’introduzione di sistemi di pagamento prospettici nel settore sanitario”, Supervisor: prof. Gianmaria Martini.

May 2007 – May 2008: Visiting Student at Istituto di Microeconomia ed Economia Pubblica (MecoP), Faculty of Economics, Università della Svizzera Italiana (Lugano).

January 2006 – March 2009: Research Student at the PhD Course in Economics and Technology Management, University of Bergamo, Supervisor: prof. Gianmaria Martini.

July 2005 - December 2005: cooperation with the Department of Economics and Technology Management, University of Bergamo, Supervisor: prof. Stefano Paleari.

January 2002 – June 2005: Management Consultant at KPMG Business Advisory Services S.p.A. (Milano), Business Unit Health Care & Public Sector.

## Publications

### ▪ Papers in Refereed Journals

1. Borsoi L., Callea G., Marsilio M., Amatucci F., Tarricone, R., Centralized Procurement of Medical Devices In Italy: A Methodology Towards Standardized Tender Dossier, *Value in Health*, 2017, vol. 20(0), pp.A594, DOI: <http://dx.doi.org/10.1016/j.jval.2017.08.1110>.
2. Callea G., Meregaglia M., Tarricone R., Cost-effectiveness of reperfusion strategies for ST-elevation myocardial Infarction. Real-world data from the Stent For Life Initiative in Italy, *Value in Health*, 2017, vol. 20(0), pp.A592, DOI: <http://dx.doi.org/10.1016/j.jval.2017.08.1110>.
3. Callea G., Gautier, L., Armeni, P., Tarricone, R., The determinants of adoption and diffusion of innovative non-pharmaceutical technologies across life cycle: a systematic review of quantitative studies, *Value in Health*, 2017, vol. 20(5), pp.A251-252, DOI: <http://dx.doi.org/10.1016/j.jval.2017.05.005>.
4. Callea G., Cavallo, M.C., Tarricone, R., Assessment of new medical devices with administrative databases: the need for traceability, *Value in Health*, 2017, vol. 20(5), pp.A251, DOI: <http://dx.doi.org/10.1016/j.jval.2017.05.005>.
5. Callea G., Cavallo M.C., Tarricone R., Torbica A., Learning Effect and Diffusion of Innovative Medical Devices: The Case of Transcatheter Aortic Valve Implantation in Italy, *Journal of Comparative Effectiveness Research*, 2017 Jan 01, DOI: 10.2217/cer-2016-0083.
6. Tarricone R., Callea G., Rupel V. and Ogorevz M., Improving the methods for the economic evaluation of medical devices, *Health Economics*, 2017, vol. 26(Suppl. 1): pp.70-92.
7. Callea G., Armeni P., Marsilio M., Jommi C. and Tarricone R., The impact of HTA and procurement practices on the selection and prices of medical devices, *Social Science and Medicine*, 2017, vol. 174, pp.89-95.
8. Balzano G., Capretti G., Callea G., Cantù E., Carle F., Pezzilli R., Overuse of surgery in patients with pancreatic cancer: a nationwide analysis in Italy, *HPB*, 2016, vol. 18(5), pp.470-478.
9. Callea G., Cavallo MC, Tarricone R, Beccagutti G, Busca R, Corbo M, Il governo dell'innovazione tecnologica in sanità. Il caso dell'impianto di valvola aortica transcateretere: stato dell'arte delle indicazioni e della rimborsabilità nelle regioni italiane, *Mecosan*, 2015, vol. 95, pp.137-160.
10. Sorenson C., Drummond M., Torbica A., Callea G., and Mateus C., The Role of Hospital Payments in the Adoption of New Medical Technologies: An International Survey of Current Practice, *Health Economics, Policy and Law*, 2015 Apr;10(2), pp.133-59.
11. Callea G., Torbica A., and Tarricone R., Impatto del sistema di finanziamento a DRG sull'innovazione tecnologica in sanità. Il caso italiano, *Mecosan*, 2014, vol. 89, pp.31-48.

12. Callea G., Armeni P., Tarricone R., Cavazza M., Jommi C., PCV164 – The determinants of uptake and diffusion of innovative health technologies. An empirical analysis, *Value in Health*, 2014, vol. 17(7), p.A501.
13. Callea G., Mujica-Mota R., Tarricone R., The economic impact of a medical device company's location in Italy, *Journal of Medical Marketing*, 2013, vol. 13 (1), pp. 24-36.
14. Callea G., Tarricone R., Medina Lara A., Economic evidence of interventions for acute myocardial infarction: a literature review, *EuroIntervention*, 2012, vol. 8, pp. 71-76.
15. Sorenson C., Drummond M., Torbica A., Callea G., Mateus C., Using Hospital Payments to Encourage the Cost-Effective Use of Health Technology, *Value in Health*, 2012, vol. 15(4), p.A70, DOI: <http://dx.doi.org/10.1016/j.jval.2012.03.388>.
16. Vittadini G., Betta P., Martini G., Callea G., The effect of a law limiting upcoding on hospital admissions: evidence from Italy, *Empirical Economics*, 2012, vol.42, pp. 563-582.
17. Berta P., Callea G., Martini G., Vittadini G., The Effects of Upcoding, Cream Skimming and Readmissions on the Italian Hospitals Efficiency: a Population-based Investigation, *Economic Modelling*, 2010, vol. 27, pp. 812-821.

▪ **Chapters in books**

1. (with TARRICONE, R., CIANI, O., AMATUCCI, F., ARMENI, P., BORSOI, L., COSTA, F., FEDERICI, C., TORBICA, A. and MARLETTA, M.) Programma Nazionale di HTA per dispositivi medici: prove tecniche di implementazione. In *L'aziendalizzazione della sanità in Italia: Rapporto OASI 2017*, Milano, EGEA.
2. (with CUSUMANO, N., AMATUCCI, F., BRUSONI, M., LONGO, F. and VECCHI, V.) La centralizzazione degli acquisti nel SSN: il framework dell'Osservatorio sul Management degli Acquisti in Sanità (MASAN) di analisi dei modelli organizzativi e delle loro performance. In *L'aziendalizzazione della sanità in Italia: Rapporto OASI 2017*, Milano, EGEA.
3. (with MARSILIO, M. and AMATUCCI, F.) La gestione centralizzata degli acquisti in sanità per la razionalizzazione e riqualificazione della spesa. In *L'aziendalizzazione della sanità in Italia: Rapporto OASI 2016*, Milano, EGEA.
4. (with ARMENI, P. and TARRICONE, R.) L'adozione dell'innovazione tecnologica da parte degli ospedali italiani: un'analisi dei fattori endogeni in E. Cantù (a cura di). *L'aziendalizzazione della sanità in Italia: Rapporto OASI 2014*, Milano, EGEA.
5. (with BOSCOLO, P.R., CANOBBIO, M., CIANI, O.) La dimensione del settore dei dispositivi medici in R. Tarricone (a cura di). *Politiche per la salute e scelte aziendali. Impatto sull'innovazione e diffusione delle tecnologie mediche*, EGEA, 2012.
6. (with MARTINI, G.), La struttura produttiva, in Dossena, D. and S. Paleari, *Il futuro del territorio 2008. Scenari socio-economici della realtà bergamasca*, Bergamo University Press, 2009.
7. (with DE NEGRI, A., FAVERO, L., MONTAGUTI, U.), Benchmarking e bilanciamento qualità-costi. Un'esperienza nazionale relativa alle aziende ospedaliere universitarie, in Barretta, A. and E. Vagnoni, *Il Benchmarking in ambito sanitario: Esperienze a confronto*, Edizioni CEDAM, Padova, 2005.

▪ **Other published papers and research reports**

1. Callea G., Con l'HTA il medico non solo clinico, *Sole 24 Ore Sanità*, 16 dicembre 2014
2. (with MARLETTA, M., CASCIELLO, M., BIFFOLI, C., BRUTTI, M.C., CUOMO, I., DI MEO, L., DONATO, A., GARASSINO, S., STELLA, E., URRU, N., CHIAROLLA, E., RONCETTI, L., DI DENIA, P., FALASCA, G., AZZINI, S., FOSSATI, A., MOZZANICA, D., BUFFA, S., BASTIANI, P., RIZZUTI, C., ZETT, S., ANDREATTA, M., BASSOTTO, F., BIASI, V., MOTTOLA, R., SERENA, M., SIMONTE, S., CERBO, M., VELARDI, L.) Rapporto sulla spesa rilevata dalle strutture sanitarie pubbliche del SSN per l'acquisto di dispositivi medici Anno 2015, 2016.
3. (with MARLETTA, M., CASCIELLO, M., BIFFOLI, C., BRUTTI, M.C., CAMERA, T., DI FILIPPO, A., DONATO, A., GARASSINO, S., STELLA, E., URRU, N., CARATI, D., PUCCINI, A., AZZINI, S., FOSSATI, A., MOZZANICA, D., BASTIANI, P., RIZZUTI, C., BIASI, V., MOTTOLA, R., SERENA, M., SCROCCARO, G., CERBO, M., VELARDI, L., TARRICONE R.) Rapporto sulla spesa rilevata dalle strutture sanitarie pubbliche del SSN per l'acquisto di dispositivi medici Anno 2014, 2015.
4. (with MARLETTA, M., CASCIELLO, M., BIFFOLI, C., BRUTTI, M.C., CAMERA, T., DONATO, A., GARASSINO, S., IPPOLITO, B., LEONE, M.G., URRU, N., CARATI, D., PUCCINI, A., GALATI, E., LOMBARDOZZI, L., FOSSATI, A., MOZZANICA, D., BUFFA, S., BADAGLIACCA, M., BASTIANI, P., RIZZUTI, C., BIASI, V., MOTTOLA, R., SERENA, M., SCROCCARO, G., CERBO, M., VELARDI, L., TARRICONE R.) Rapporto sulla spesa rilevata dalle strutture sanitarie pubbliche del SSN per l'acquisto di dispositivi medici Anno 2013, 2014.
5. (with MARLETTA, M., UGENTI, R., BIFFOLI, C., BRUTTI, M.C., DONATO, A., GARASSINO, S., IPPOLITO, B., LEONE, M.G., STELLA, E., URRU, N., CARATI, D., GARAFFONI, G., PUCCINI, A., ASARO, M., FOSSATI, A., MOZZANICA, D., BASTIANI, P., RIZZUTI, C., DANNAZ, M.V., BIASI, V., MOTTOLA, R., SCROCCARO, G., CERBO, M., VELARDI, L., BOSCOLO, P.R., TARRICONE R.) Rapporto sulla spesa rilevata dalle strutture sanitarie pubbliche del SSN per l'acquisto di dispositivi medici Anno 2012, 2013.
6. Efficiency and opportunistic behaviour induced by prospective payment system in the hospital sector, *PhD Thesis*, 2009.
7. (with BANNO', M., MARTINI, G. and D. SCOTTI), Progettazione e costruzione di un database per la valutazione delle politiche attive del lavoro, in F. Rappelli (a cura di), *Ricerca sull'individuazione e prima sperimentazione di strumenti per la misurazione dell'efficacia degli interventi di Project Work*, Istituto di Ricerca della Lombardia (IReR), 2009.

#### ▪ Working Papers

1. (with VITTADINI, G., BERTA, P. and G. MARTINI), Effect of a law limiting upcoding on hospitals' admissions: Evidence from Italy, *Working Paper del Dipartimento di Ingegneria Gestionale*, Università degli Studi di Bergamo, n.5, 2010.
2. (with BERTA, P., MARTINI, G. and G. VITTADINI), The impact of Upcoding, Cream Skimming and Readmissions on hospitals' efficiency: the case of Lombardy, *Working Paper del Dipartimento di Ingegneria Gestionale*, Università degli Studi di Bergamo, n.6, 2008.

#### Awards

1. BERTA, P., CALLEA, G., MARTINI, G. and G. VITTADINI, The Effects of Upcoding, Cream Skimming and Readmissions on the Italian Hospitals Efficiency: a Population-based Investigation, *Finalista del premio “Menzione di merito per la ricerca”*, School of Management Università degli Studi di Bergamo, Ottobre 2010, Bergamo.
2. BERTA, P., CALLEA, G., MARTINI, G. and G. VITTADINI, The Effects of Upcoding, Cream Skimming and Readmissions on the Italian Hospitals Efficiency: a Population-based Investigation, *Best Paper Award Fabio Gobbo*, VI Seminario Dottorale della Società Italiana di Economia e Politica Industriale, May 2009, Moncalieri (Torino).

## Presentations at conferences

### ▪ International Conferences

1. Borsoi L., Callea G., Marsilio M., Amatucci F., Tarricone, R., Centralized Procurement of Medical Devices In Italy: A Methodology Towards Standardized Tender Dossier, ISPOR 2017, Glasgow (Scotland) (poster).
2. Callea G., De Luca L., Tarricone R., Meregaglia M., Nicosia A. and Guagliumi G., Cost-effectiveness of reperfusion strategies for ST-elevation myocardial Infarction. Real-world data from the Stent For Life (SFL) Initiative in Italy, July 2017, International Health Economics Association (iHEA) World Congress on Health Economics, Boston, Massachussets (USA).
3. Callea G., Cavallo, M.C., Tarricone, R., Assessment of new medical devices with administrative databases: the need for traceability, HTAi 2017, Rome (Italy) (poster).
4. Callea G., Gautier, L., Armeni, P., Tarricone, R., The determinants of adoption and diffusion of innovative non-pharmaceutical technologies across life cycle: a systematic review of quantitative studies, ISPOR 2017, HTAi 2017, Rome (Italy).
5. Callea G., Cavallo, M.C., Tarricone, R., Assessment of new medical devices with administrative databases: the need for traceability, ISPOR 2017, Boston, Massachussets (USA) (poster).
6. Callea G., Gautier, L., Armeni, P., Tarricone, R., The determinants of adoption and diffusion of innovative non-pharmaceutical technologies across life cycle: a systematic review of quantitative studies, ISPOR 2017, Boston, Massachussets (USA) (poster).
7. Callea G., Cavallo, M.C., Tarricone, R., Assessment of new medical devices with administrative databases: the need for traceability, London School of Economics International Health Policy Conference 2017, London (UK) (poster).
8. Callea G., De Luca L., Tarricone R., Meregaglia M., Nicosia A. and Guagliumi G., Cost-effectiveness of reperfusion strategies for ST-elevation myocardial Infarction. Real-world data from the Stent For Life (SFL) Initiative in Italy, EuroPCR 2016, Paris (France).
9. Callea G., Cavallo M.C., Tarricone R., Torbica A., Piazza N., Maisano F., Reimbursement policies, hospital features and innovation in healthcare. The case of transcatheter aortic valve implantation in Italy, September 2014, ESC 2014, Barcelona (Spain).
10. Callea G., Armeni P., Tarricone R., Cavazza M., Jommi C., The determinants of uptake and diffusion of innovative health technologies. An empirical analysis, July 2014, iHEA & ECHE Joint Congress, 10th World Congress in Health Economics, Dublin (Ireland).

11. Callea G., Cavallo M.C., Tarricone R., Torbica A., Piazza N., Maisano F., Reimbursement policies, hospital features and innovation in healthcare. The case of transcatheter aortic valve implantation in Italy, June 2014, 11<sup>th</sup> Annual Meeting HTAi, Washington DC (US).
12. Callea G., Cavallo M.C., Tarricone R., Torbica A., Piazza N., Maisano F., Reimbursement policies, hospital features and innovation in healthcare. The case of transcatheter aortic valve implantation in Italy, May 2014, EuroPCR 2014, Paris (France).
13. Callea, G., Petrarca, G. and R. Tarricone, Technological innovation and coding practices: State of the art in Italy, September 2013, XIX PCSI Conference, Helsinki (Finland).
14. Armeni, P., Boscolo, P.R., Callea, G., Cavazza, M., Ciani, O., Jommi, C., Marsilio, M., Tarricone, R. and A. Torbica, Do HTA practices and procurement policies impact expenditures for medical devices?, June 2013, EHMA Annual Conference, Milan (Italy).
15. Boscolo, P.R., Callea, G., Marsilio, M. and R. Tarricone, Business and government relations in healthcare sector: the case of medical devices companies collaboration with health care organizations to appropriately manage medical technologies, June 2013, EHMA Annual Conference, Milan (Italy).
16. Mateus C., Sorenson C., Drummond M., Torbica A. and Callea G., Using hospital payments to encourage the cost-effectiveness use of health technology, October 2012, PCSI 28<sup>th</sup> conference, Avignon (France).
17. Drummond M., Sorenson C., Torbica A., Callea G. and Mateus C., Using hospital payments to encourage the cost-effectiveness use of health technology, July 2012, ECHE 9<sup>th</sup> Annual International Meeting, Zurich (Switzerland).
18. Sorenson C., Drummond M., Torbica A., Callea G. and Mateus C., Using hospital payments to encourage the cost-effectiveness use of health technology, June 2012, ISPOR 17<sup>th</sup> Annual International Meeting, Washington DC (US).
19. G. Callea, Funding challenges: How to finance expensive technologies in the context of limited resources, December 2011, EHRA Policy Conference, Athens (Greece).
20. Callea, G. and R. Tarricone, Economic plan for the Stent For Life Initiative, June 2011, Treatment of Acute Myocardial Infarction in Europe Meeting, London (UK).
21. Berta, P., Callea, G., Martini, G. and G. Vittadini, Hospitals' responses to a policy limiting upcoding: evidence from Italy, July 2010, Health Econometrics Workshop 2<sup>nd</sup> edition, Rome (Italy).
22. Berta, P., Callea, G., Martini, G. and G. Vittadini, The effects of upcoding, cream skimming and readmissions on the efficiency of Italian hospitals: a population-based investigation, July 2009, International Health Economics Association (iHEA) 7th World Congress on Health Economics, Beijing (China).
23. Berta, P., Callea, G., Martini, G. and G. Vittadini, The effects of upcoding, cream skimming and readmissions on the efficiency of Italian hospitals: a population-based investigation, January 2009, SSPH+ PhD seminar on health economics and policy, Crans-Montana (Switzerland) – *Invited speaker*.
24. Berta, P., Callea, G., Martini, G. and G. Vittadini, The impact of Upcoding, Cream Skimming and Readmissions on hospitals' efficiency: the case of Lombardy, December 2008, International Health Econometrics Workshop, Milan (Italy).
25. Berta, P., Callea, G., Martini, G. and G. Vittadini, The efficiency analysis: the impact of upcoding, cream skimming and other DRG distortions on hospitals' efficiency, September 2008, Joint Meeting on Health Evaluation, Milan (Italy).

26. Callea, G., Changes in hospital efficiency following the Lombard health care reform: an application of the Malmquist TFP index, July 2008, 18th International Federation of Operational Research Societies (IFORS) Conference, Sandton (South Africa) – *Invited Chair*.
27. Callea, G., Martini, G., and R. Redondi, An empirical investigation of the efficiency of Italian hospitals. A Simar Wilson methodology analysis, June 2008, Summer School in Advanced Quantitative Methods, Pisa (Italy)

▪ **Italian Conferences**

1. Callea G., Cavallo, M.C., Tarricone, R., Assessment of new medical devices with administrative databases: the need for traceability, 22a Conferenza Associazione Italiana Economia Sanitaria (AIES), Pavia.
2. Callea G., Armeni P., Marsilio M., Jommi C. and Tarricone R., The impact of HTA and procurement practices on the selection and prices of medical devices, November 2016, 21a Conferenza Associazione Italiana Economia Sanitaria (AIES), Bologna.
3. Borsoi L., Callea G., Amatucci F., Marsilio M. and Tarricone R., Analisi comparativa della documentazione relativa alle gare di appalto per la fornitura di dispositivi medici, November 2016, 21a Conferenza Associazione Italiana Economia Sanitaria (AIES), Bologna.
4. Tarricone R., Callea G., Rupel V., Ogorevz M., Economic evaluation of medical devices, October 2015, 20a Conferenza Associazione Italiana Economia Sanitaria (AIES), Alghero.
5. Callea G, La sostenibilità dell'innovazione tecnologica in ambito sanitario, Clinical Interventional Forum GISE-TOLOVE, October 2015, Mestre - *invited speaker*.
6. Callea G., Le sfide della valutazione economica ed HTA dei dispositivi medici impiantabili, May 2015, XV Convegno Nazionale AIIC, Cagliari - *invited speaker*.
7. Callea G., Armeni P., Tarricone R., Cavazza M., Jommi C., The determinants of uptake and diffusion of innovative health technologies. An empirical analysis, October 2014, 19<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Venezia.
8. Callea, G., Impatto dei sistema di finanziamento a DRG sull'innovazione tecnologica in sanità. Evidenze e proposte emerse dal caso italiano, December 2013, IV Conferenza Nazionale sui Dispositivi Medici, Roma.
9. Callea, G., Gautier, L., Armeni, P. and R. Tarricone, The determinants of uptake and diffusion of innovative health technologies. A systematic literature review, November 2013, 18<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Trento.
10. Callea, G., Petrarca, G. And R. Tarricone, Technological innovation and coding practices: State of the art in Italy, November 2013, 18<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Trento.
11. Callea, G. and A. Torbica, The impact of hospital reimbursement system on the adoption of technological innovation, September 2012, 17<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Roma.
12. Callea, G. and R. Tarricone, Primary-PCI: improves outcome and reduces costs. SFL economical plan and detailed actions, October 2011, 32<sup>nd</sup> National Congress of Italian Society of Invasive Cardiology, Genova.

13. Callea, G., Ghislandi, S. and A. Torbica, Cost containment policies and patients' mobility in a decentralised system, September 2011, 16<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Napoli.
14. Callea, G., Mujica Mota, R. and R. Tarricone, The multiplier effect of a medical device company's location in Italy, September 2011, 16<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Napoli.
15. Callea, G. and R. Tarricone, Il programma costo-efficacia in Sicilia, July 2011, La rete per l'infarto miocardico acuto in Sicilia: start-up meeting, Palermo.
16. Callea, G. and R. Tarricone, Analisi costo-efficacia del trattamento dello STEMI, April 2011, Stent For Life Kick-off Meeting, Rome.
17. Berta, P., Callea, G., Martini, G. and G. Vittadini, Hospitals' responses to a variation in upcoding incentives: evidence from Italy, September 2010, 15<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Moncalieri (Torino).
18. Callea, G., Martini, G. and R. Redondi, Competition and ownership effects on the hospitals' efficiency. A Simar e Wilson methodology analysis, October 2009, XX Riunione Scientifica Associazione italiana di Ingegneria Gestionale (AiIG), Udine.
19. Berta, P., Callea, G., Martini, G. and G. Vittadini, The Effects of Upcoding, Cream Skimming and Readmissions on the Efficiency of Italian hospitals: a Population-based Investigation, October 2009, 14<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Bergamo.
20. Berta, P., Callea, G., Martini, G. and G. Vittadini, The effects of upcoding, cream skimming and readmissions on the efficiency of Italian hospitals: a Population-based Investigation, May 2009, VI Seminario Dottorale della Società Italiana di Economia e Politica Industriale, Moncalieri (Torino), *Best Paper Award Fabio Gobbo*.
21. Callea, G., Martini, G. and R. Redondi, Competition and ownership effects on the hospitals' efficiency. A Simar e Wilson methodology analysis, October 2008, 13<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Matera.
22. Berta, P. and G. Callea, How do hospitals respond to Government intervention? Evidence from the Cardiac Surgery and Interventional Cardiology sector, October 2008, 13<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Matera.
23. Callea, G. and G. Martini, Analisi dell'efficienza ospedaliera con la Data Envelopment Analysis. Un'applicazione relativa agli ospedali della Regione Lombardia, October 2007, 12<sup>a</sup> Conferenza Associazione Italiana Economia Sanitaria (AIES), Firenze.

#### ▪ Seminars

1. Berta, P., Callea, G., Martini, G. and G. Vittadini, The effects of upcoding, cream skimming and readmissions on the efficiency of Italian hospitals: a population-based investigation, September 2009, Lunch Seminar of the Department of Economics and Technology Management, University of Bergamo.
2. Callea, G. and G. Martini, An empirical investigation of the efficiency of Italian hospitals, January 2008, 2<sup>o</sup> Seminario di Ricerca COFIN 2005 "Welfare State e Mercati Assicurativi", Catholic University, Milano.

## Memberships



2017: Member of ISPOR Glasgow Scientific Committee Review Panel.

2014: Member of iHEA – ECHE 2014 Conference Scientific Committee.

2013: Member of PCSI (Patient Classification System International).

2011: Member of iHEA 2011 Conference Scientific Committee.

2010 - : Member of AIES (Associazione Italiana di Economia Sanitaria).

2010 - 2014: Member of EHTI (The European Health Technology Institute for Socio-Economic Research) ExCom.

2007 - : Member of iHEA (International Association of Health Economics).

2006 - 2010: Member of AiIG (Associazione Italiana di Ingegneria Gestionale).

## **Reviewer for**

*Clinical Therapeutics, Empirical Economics, Health Economics, Health Policy, Giornale Italiano di Cardiologia, Journal of Interventional Cardiology, Mecosan, PlosONE, Studi Organizzativi*

## **Other activities**

2017 – Topic Editor of Clinical Therapeutics, area Pharmacoeconomics, Outcomes, and Health Policy.

2017 – Coordinator of Observatory on Management of Centralized Procurement in Health Care, CER GAS (Centre for Research on Health and Social Care Management), SDA Bocconi School of Management, Università Commerciale Luigi Bocconi, Milan, Italy.

2014 – 2017: Internship coordinator at Master of International Health Care Management, Economics and Politics (MIHMEP), SDA Bocconi Schollo of Management.

## **Workshop Organisation**

1. September 2017: Workshop "La tracciabilità delle nuove tecnologie nei database amministrativi", Università Bocconi, Milan, Italy.
2. September 2014: EHTI – Bocconi Annual Workshop "The investigation of determinants that impact the diffusion of innovative health technologies: An empirical analysis", Università Bocconi, Milan, Italy.
3. November 2013: EHTI – Bocconi Annual Workshop "Gli impatti dell'innovazione tecnologica in sanità: politiche regionali e metodologie di valutazione. Il caso della TAVI", Università Bocconi, Milan, Italy.
4. November 2012: EHTI – Bocconi Annual Workshop "Sistema di finanziamento a DRG e innovazione tecnologica in sanità", Università Bocconi, Milan, Italy.
5. July 2010: International Health Econometrics Workshop, 2nd ed., Catholic University of the Sacred Heart, Rome.
6. December 2008: International Health Econometrics Workshop, University of Milano Bicocca, Milan, Italy.