

# Carlo Baldassarre Federici

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RESEARCHER

**Health Economics and HTA**

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## Biography

Carlo Federici is a Researcher in Health Economics and Health Technology Assessment (HTA) at the Research Center for the Management of Sociosanitary Care (CERGAS) at SDA Bocconi School of Management.

At SDA Bocconi, Carlo teaches the Advanced Decision Modelling course in the international Master's program MIHMEP (Master of International Healthcare Management, Economics, and Policy) and various courses on HTA and economic evaluation of healthcare technologies.

Carlo has contributed to several European projects, including the H2020 COMED projects focused on the evaluation of medical devices; the Horizon Europe Sagittarius project on the clinical and economic evaluation of new prognostic tests for patients with colorectal cancer; the Sustain-HTA project on the creation of a European infrastructure for the dissemination of HTA; and the HEU-EFS project on defining a European framework for conducting early-feasibility studies for medical devices. In recent years, Carlo has also been involved in research activities with the Italian Ministry of Health, focusing on reimbursement processes and regulatory aspects of new technologies.

His research activities primarily focus on HTA and the evaluation of health policies, with a focus on both methodological aspects and empirical applications using analytical decision models to estimate the cost-effectiveness of innovative technologies compared to other policy alternatives. Other recent research areas include projects in the field of Global Health, such as an economic evaluation of digital health interventions in vaccination programs in sub-Saharan Africa and Latin America or the impact assessment of a training program to promote an integrated approach in ante- and post-natal care services in Kenya.

Carlo is the author of numerous articles on these topics, published in journals such as Value in Health, PlosOne, Pharmacoeconomics, and Health Policy. He serves as an editor for the pharmacoeconomics and clinical outcomes section of the journal Clinical Therapeutics. He is a member of the Italian Health Economics Association (AIES) and the International Society for Pharmacoeconomics and Outcomes Research (ISPOR).

Carlo earned an MSc in Health Economics from the University of York and a Ph.D. from the University of Warwick.

## Teaching domains

Markov Models

Economic Evaluations of Drugs

## ARTICLES IN SCHOLARLY JOURNALS

LADUR A. N., EGERE U., RAVIT M., MGAWADERE F., MURRAY C., WHITE S. A., HAUWA M., MUTAI R., NYAGA L., DUNCAN S., BASHIR I., AYINDE O. O., BAKAR R., KATALAMBULA L., FEDERICI C. B., TORBICA A., FURTADO N., KUMAH E. A., AMEH C.

**A blended learning approach for capacity strengthening to improve the quality of integrated HIV, TB, and malaria services during antenatal and postnatal care in LMICs: a feasibility study**

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**Cost-effectiveness Analysis of Radiofrequency Ablation in Patients With Barrett Esophagus and High-grade Dysplasia or Low-grade Dysplasia**

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ARMANASCHI L., BARZAN E., CAVALLUCCI M., FEDERICI C. B., SARTIRANA M., ZERZER F.

**I dati amministrativi per la governance dei tempi di attesa delle prestazioni ambulatoriali: l'esperienza dell'Azienda Sanitaria dell'Alto Adige**

Mecosan, 2023, no. 123, pp.53–75

FEDERICI C. B., FORNARO G., ROEHR C. C.

**Cost-saving effect of early less invasive surfactant administration versus continuous positive airway pressure therapy alone for preterm infants with respiratory distress syndrome**

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FEDERICI C. B., ROGNONI C., COSTA F., ARMENI P., CROVATO E., BELLUCCI S.

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**An approach to quantify parameter uncertainty in early assessment of novel health technologies**

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DRUMMOND M., FEDERICI C. B., RECKERS-DROOG V., TORBICA A., BLANKART C. R., CIANI O., KALÓ Z., KOVÁCS S., BROUWER W.

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FEDERICI C. B., PECCIA L.

**Exploring the misalignment on the value of further research between payers and manufacturers. A case study on a novel total artificial heart**

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**Early health technology assessment using the MAFEIP tool. A case study on a wearable device for fall prediction in elderly patients**

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## CONTRIBUTION TO CHAPTERS, BOOKS OR RESEARCH MONOGRAPHS

ARDITO V., CIANI O., FEDERICI C. B., FURNARI A., GIUDICE L., TARRICONE R.

**Esiti di salute e performance del Servizio Sanitario Nazionale** in *Rapporto OASI 2024*

CERGAS (Eds),Egea, chap. 7, pp.275–331, 2024

ARDITO V., BENETTI L., CIANI O., FEDERICI C. B., FURNARI A., TARRICONE R.

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CERGAS (Eds),Egea, chap. 7, pp.285–346, 2022

ARDITO V., CIANI O., FEDERICI C. B., FURNARI A., FINCH A., JOMMI C., MALANDRINI F., MEREGAGLIA M., TARRICONE R.

**Esiti di salute e performance del Servizio Sanitario Nazionale** in *Rapporto OASI 2021*

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CALLEA G., FEDERICI C. B., CIANI O., AMATUCCI F., BORSOI L., TARRICONE R., MARLETTA M.

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CIANI O., FEDERICI C. B.

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ARMENI P., COSTA F., CALLEA G., BORSOI L., CAVALLO M. C., CIANI O., FEDERICI C. B., TARRICONE R., TORBICA A.

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CIANI O., FEDERICI C. B., FURNARI A., TARRICONE R.

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**Programma Nazionale HTA per dispositivi medici: prove tecniche di implementazione** in *Rapporto OASI 2017*

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CIANI O., FEDERICI C. B., TARRICONE R.

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Efthyvoulos Kyriacou, Stelios Christofides, Constantinos S. Pattichis (Eds), Springer International Publishing, pp.1345–1348, 2016

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## COMMENTS, DISCUSSIONS, REPLIES IN JOURNAL

FEDERICI C. B., 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"**

2020, International Journal of Health Policy and Management

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## EDITORIALS IN JOURNAL

FEDERICI C. B., ARMENI P., CALLEA G.

**A Value-based Revolution in Health Care: Perspectives, Challenges, and Emerging Approaches to Defining and Measuring the Value of Health Care Technologies**

2020, Clinical Therapeutics

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## EDITORSHIP OF SPECIAL ISSUES

ARMENI P., CALLEA G., FEDERICI C. B.

**Pharmacoconomics, Outcomes, and Health Policy Update**

2020, Clinical Therapeutics

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## PROCEEDINGS/PRESENTATIONS

VERYKIOU M., FEDERICI C. B., CAVAZZA M., SABBATUCCI F., JOMMI C., HUGO C., MALVOLTI S., MANTEL C., MANGIATERRA V., CONDO J., DELAMOU A., RODRIGUEZ E., CASTILLO L., NTINGINYA N. E., TORBICA A.  
**The Costs of Deploying and Maintaining Digital Health Interventions to Improve Immunization and Vaccine Logistics Data Management in Low- and Middle- Income Countries. A multi-country study in Guinea, Honduras, Rwanda and Tanzania.**

*IHEA's 15th World Congress, July 8-12, 2023, Cape Town, South Africa*

CALLEA G., FEDERICI C. B., FREDDI R., TARRICONE R.

**Recommendations for the design and implementation of an Early Feasibility Studies program for medical devices in Italy**

*Italian Health Economics Association (AIES), 26th Annual Conference, 2-3 December, 2021, Milano, Italy*

FORNARO G., FEDERICI C. B., ROGNONI C., CIANI O.

**Broadening the Concept of Value: A Scoping Review on the Option Value of Medical Technologies**

*EUHEA Conference (virtual), 9 July, 2020, Oslo, Norway*

ROGNONI C., FEDERICI C. B., CIANI O.

**Comparazione di Strategie Alternative di Modellizzazione per Analisi Costo-Efficacia: Applicazione al Trattamento in Prima Linea per Pazienti con Mieloma Multiplo non Eleggibili a Trapianto**

*AIES (Italian Health Economics Association), 24th Annual Conference, 3-4 October, 2019, Pisa, Italy*

TORBICA A., PONGIGLIONE B., CIANI O., PETRACCA F., FEDERICI C. B.

**Pushing the Boundaries of Existing Methods for Cost and Outcome Analysis of Medical Technologies: First Results from H2020 EU Project COMED**

*AIES (Italian Health Economics Association), 24th Annual Conference, 3-4 October, 2019, Pisa, Italy*

CALLEA G., FEDERICI C. B.

**Cost-effectiveness analysis of radiofrequency ablation in patients with Barrett Esophagus and high grade dysplasia in Italy**

*ISPOR Conference, May 18-22, 2019, New Orleans, LA, United States of America*

ARMENI P., FEDERICI C. B., COSTA F., TARRICONE R., TORBICA A., CALLEA G.

**Inclusion Of Learning Curve Effects In Economic Evaluations Of Medical Devices- Empirical Evidence For Hta**

*ISPOR 22nd Annual International Meeting - May 20-24, 2017, Boston, MA, United States of America*

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