28TH ESPACOMP 2024 ANNUAL MEETING



PROGRAM

November, 21st-22nd 2024 Naples

> Chiesa di SS. Marcellino e Festo University of Naples "Federico II"

PRECISION DOSING: NAVIGATING ADHERENCE IN DRUG DEVELOPMENT AND CLINICAL PRACTICE





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About ESPACOMP

ESPACOMP, the International Society for Medication Adherence, is an international scientific association dedicated to promoting cutting-edge research in the field of medication adherence to increase the quality of research and support dissemination, implementation and uptake of knowledge in healthcare systems and policies.

Corporate members





Information / Registration at

www.espacomp.eu info@espacomp.eu

Information / Registration at

In person

Venue

Chiesa di SS. Marcellino e Festo University of Naples "Federico II" Via Leopoldo Rodinò, 22 – Naples, Italy

Conference Organisation & Scientific Committee

- Tamas Agh
- Filipa Alves da Costa
- Sabina M. De Geest
- Alexandra Dima
- Francisca Leiva Fernandez
- Victoria Garcia Cardenas
- Rob Heerdink
- Dyfrig Hughes
- Przemysław Kardas
- Alpana Mair
- Enrica Menditto
- Sara Mucherino
- Maria Rubio-Valera
- Todd Ruppar
- Marie Paule Schneider Voirol
- Liset Van Dijk
- Leah Zullig

Welcome Word



Dear ESPACOMP Members, Colleagues and Friends,

It is a great pleasure and honour to welcome you to the 28th ESPACOMP Conference, here in the historic and beautiful city of Naples, Italy. This year's meeting, taking place on November 21st-22nd, 2024, brings us together in the inspiring setting of the Chiesa di SS. Marcellino e Festo at the University of Naples Federico II.

Our conference theme this year, *Precision Dosing: Navigating Adherence in Drug Development and Clinical Practice*, highlights an area that is at the very heart of our mission to improve individuals' healthcare experiences to optimize their health; and by doing so, to contribute to the sustainability of health and care systems, society and environment.

As we all know, optimizing drug dosages is essential not only to maximize therapeutic benefits but also to safeguard patient safety. However, in both drug trials and clinical practice non-adherence presents persistent challenges. Issues like overdosing, unnecessary dose escalation, and polypharmacy-related risks make it crucial for us to address these obstacles and refine strategies that can lead to precision dosing tailored to each patient's needs.

Over the next two days, we will explore innovative approaches, share new findings, and engage in discussions that promise to enhance our collective understanding and foster collaboration. Together, let's continue to advance our field, pushing the boundaries of research and practice to ensure that every patient receives the best possible care.

On behalf of ESPACOMP, we extend our deepest gratitude to each of you for being here, and we wish you all an enriching and inspiring conference.

Welcome to Naples and welcome to ESPACOMP 2024!

Warm regards,

Enrica MendittoLocal Host & Past president

Bernard Vrijens President, ESPACOMP 2024



The meeting secretariat

3PS

Registered office: via Borgogna, 2 - 20122 Milan

Operational headquarter: corso Europa, 13 - 20122 Milan

mail: info@3psolution.it *web:* www.3psolution.it

Venues

Conference location

Chiesa di SS. Marcellino e Festo University of Naples "Federico II" Via Leopoldo Rodinò, 22 – Naples, Italy

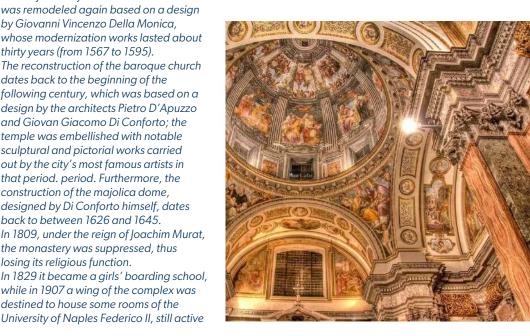
The convent building is the result of the union of two neighboring Basilian female monasteries dating back to the early Middle Ages. A document dated 1 March 763 certifies the transfer by the abbess of the monastery of Saints Marcellinus and Peter to Stephen II of a house with a vegetable garden near the monastery church; therefore, four years after the act, the duke was elected bishop of the city and then founded the other religious house bordering the monastery itself. In the 9th century the monastery of Saints Marcellinus and Peter was the subject of important renovations

In 1565 the complex took on the new dedication to Saints Marcellinus and Festus. Just two years later the structure was remodeled again based on a design by Giovanni Vincenzo Della Monica, whose modernization works lasted about thirty years (from 1567 to 1595). The reconstruction of the baroque church dates back to the beginning of the following century, which was based on a design by the architects Pietro D'Apuzzo and Giovan Giacomo Di Conforto: the temple was embellished with notable sculptural and pictorial works carried out by the city's most famous artists in that period. period. Furthermore, the construction of the majolica dome, designed by Di Conforto himself, dates back to between 1626 and 1645. In 1809, under the reign of Joachim Murat, the monastery was suppressed, thus losing its religious function.

while in 1907 a wing of the complex was destined to house some rooms of the University of Naples Federico II, still active



in the space occupied by the monumental cloister and the oratory of the Scala Santa. Finally, in 1932, the Museum of Paleontology of Naples was established in other rooms of the monastery.



Dinner

Thursday, November, 21st

7:30 PM
Dress code Business casual

Restaurant Transatlantico Suite Piazzetta Marinari, 8 Lungomare Caracciolo Naples, Italy





ESPACOMP Scientific Meeting Program

DAY 1 • Thursday, 21st November

8:00 AM - 7:00 PM Registration

9:00 AM - 9:15 AM Welcome Word

Enrica Menditto, Local Host

Bernard Vrijens, ESPACOMP President

9:15 AM - 9:30 AM 10th anniversary celebration of the "Implementation Science Workshop"

Sabina De Geest

9:30 AM - 10:30 AM Paper Session 1: Research on Medication Adherence From Italy

Session Chairs: Valentina Orlando & Enrica Menditto

Sara Mucherino

Medication adherence to Anti-VEGF Therapies in Maculopathy: Impact of the Treat and Extend Regimen personalization

• Elisabetta Poluzzi

Medication adherence interventions in Italy through a Benchmarking Survey: the ElderCare Project

Sabrina Giometto

An R tutorial on the Waiting Time Distribution for estimating dispensation length to compute medication adherence

Giorgio Limoncella

Psoriasis and biologic drugs: estimating adherence using Tuscan administrative databases with GBTM models

10:30 AM - 11:00 AM Coffee Break & Poster Viewing

11:00 AM - 11:45 AM Plenary: Roundtable on Stakeholders Involvement In ESPACOMP

Session Chairs: Przemvslaw Kardas & Tamas Aah

11:45 AM - 12:45 PM Paper Session 2: Methodology

Session Chairs: Maria Rubio-Valera & Daniel FB Wright

• Daniel FB Wright

Risk of bias tools for medication adherence research: RoBIAS and RoBOAS

Antoine Pironet

A deep learning model can predict early treatment discontinuation from electronic dosing history data

DAY 1 • Thursday, 21st November

Anne Ravix

Population Pharmacokinetics of Trametinib and Impact of Nonadherence on Drug Exposure as Part of the Optimizing Oral Targeted Anticancer Therapies Study

Non Davies

Medication adherence during the run-in phase of clinical trials: A systematic review of methodological and reporting rigour electronic dosing history data

12:45 PM - 2:30 PM Lunch & Poster Viewing

2:30 PM - 3:30 PM Paper Session 3: Determinants of Medication Adherence

Session Chairs: Marcia Veryloet & Sarah Belcher

Mirthe Oude Lansink

Tailoring the Consolidated Framework for Implementation Research (CFIR) to assess the implementability of medication adherence intervention

• Ianacio Aznar-Lou

Identifying longitudinal medication adherence patterns of antipsychotic treatments: A real-world cohort study in Catalonia, Spain

• Francisco Lupiáñez-Villanueva & Claire Everitt

COMPASS model: Computational Model for Adherence and Support Solutions. Behavioral and adherence model for improving quality, health outcomes and cost-effectiveness of healthcare (BEAMER project)

Connor Drake

Medication underuse and food insecurity: Opportunities for health care systems to improve detection and response

3:30 PM - 4:15 PM Plenary Lecture: Invited keynote speaker

Alpana Mair

A person centred approach to addressing adherence through polypharmacy reviews- The iSIMPATHY approach

Session Chair: Sabina De Geest

4:15 PM - 4:45 PM Coffee Break & Poster Viewing

4:45 PM - 5:45 PM John Urquhart Memorial Lecture:

Els Goetghebeur

Estimands, intercurrent events and adherence analysis in clinical trials and beyond Session Chair: Bernard Vrijens

5:45 PM - 6:45 PM Meeting of the ESPACOMP Society

All participants are invited to join

7:00 PM Meet for departure to dinner

ESPACOMP Scientific Meeting Program

DAY 2 • Friday, 22nd November

8:15 AM - 9:15 AM Early Career Researchers & Students Showcase Session

Session Chair: Sara Mucherino

Holly Foot

The 4-item SABA Reliance Questionnaire (SRQ-4): Identifying beliefs about SABA over-reliance for individuals not prescribed preventer therapy

• Fabiana Coelho Inouve

Modifiable Factors that Affect Adherence to Tyrosine Kinase Inhibitor Treatment in BCR: ABL₁ Positive and Negative Patients with Myeloproliferative Neoplasms: Preliminary Results of a Systematic Review

Lisa Cuba

Adherence of dermato-oncological patients treated with oral antitumor therapeutics: Results of the interprofessional AMBORA care program

Lara Perrella

Polypharmacy Management in Chronic Conditions: A Systematic Literature Review of Italian Interventions

Carina Hansen

Factors affecting medication adherence in cystic fibrosis patients

Eva Aalbers

Balancing work and health: the relationship between paid employment and treatment adherence in people with a chronic condition

Stefano Scotti

Enabling medication adherence in the elderly: a systematic review of interventions in different healthcare settings

9:15 AM - 10:15 AM Paper Session 4: System and Education

Session Chairs: Francisca Leiva Fernández & Marie-Paule Schneider

Przemyslaw Kardas

Accessibility of Healthcare Services for Ukrainian War Refugees: Barriers to Continuity of Care and Medication Adherence Identified in the RefuHealthAccess Europe Study

Rob Horne

Machine says yes, Doctor says no: A qualitative application of the Necessity Concerns Framework on antibiotic prescribing in intensive care

Léa Solh Dost

How do community pharmacists address medication adherence when dispensing a hospital discharge prescription?

Hanna Gottlieb

Medication adherence in the curricula of future European physicians, pharmacists and nurses - a cross-sectional survey

DAY 2 • Friday, 22nd November

10:15 AM - 10:45 AM Coffee Break & Poster Viewing

10:45 AM - 11:30 AM Plenary Lecture: Invited keynote speaker

Sean Lawley

Mathematical modeling of medication nonadherence: a powerful hammer for a stubborn nail

Session Chair: Dyfrig Hughes

11:30 AM-11:45 AM ESPACOMP Survey

11:45 AM - 12:45 PM Paper Session 5: Interventions (1/2)

Session Chair: Todd Ruppar

· Ruby Janssen

New Medicines Service to support patients' transition to primary care: a living lab study assessing drug-related problems, patient satisfaction and self-efficacy at initiation of cardiovascular medication

Barbara Kobson

Co-designing a medication adherence visualization user interface: A qualitative study of the perspectives of patients with cardiovascular conditions and type-2 diabetes living with polypharmacy

Catrin Plumpton

Mobile-messaging to improve medication adherence for type-2 diabetes in primary care: Economic outcomes from the SuMMiT-D trial

Antoine Pironet

The SystemCHANGE intervention improves medication-taking habit in Turkish kidney transplant recipients

12:45 PM - 2:30 PM Lunch & Poster Viewing

DAY 2 • Friday, 22nd November

2:30 PM - 3:30 PM **Paper Session 6:** Interventions (2/2)

Session Chairs: Leah Zullia & Catrin Plumpton

Sarah Serhal

Global attempts to improve patient initiation adherence via the New Medicines Service – Lessons learned in view of implementation and sustainability

Karima Shamuratova

Stakeholder co-development of an interprofessional service targeting initiation adherence - the myCare Start - Implementation project

Amber Eikholt

Smart blister packaging and mobile application to monitor and support medication adherence: a two-arm randomized controlled trial and usability study

Sander Borgsteede

Enhancing patient comprehension: evaluating the effectiveness of icons, text, and combined formats for medication instructions

3:30 PM - 4:15 PM

Paper Session 7: Patient and caregiver perspective

Session Chair: Rob Heerdink

Zoe Moon

I thought salbutamol was less damaging than steroids": patient perspectives of asthma treatments as barriers to guideline implementation "

Eliska Maskova

Interim analysis of ONE TEAM randomized controlled trial: Long-term medication adherence in cancer patients with cardiovascular comorbidities

Amber Eikholt

What would define the ideal smart inhaler for asthma patients and healthcare professionals? A Discrete Choice Experiment

4:15 PM - 4:45 PM Coffee Break & Poster Viewing

4:45 PM - 5:30 PM

Plenary Lecture: Invited keynote speaker

Bijan I. Borah

Individualizing Adherence Interventions: Methodological Considerations. Session Chair: Tamas Aah

5:30 PM - 5:45 PM

Presentation of Jean-Michel Metry Poster Prize and Early Career Abstract Prize

5:45 PM - 6:00 PM Closure of the meeting & Next year meeting

John Urquhart Memorial Lecture

Prof. Els Goetghebeur, PhD

Estimands, intercurrent events and adherence analysis in clinical trials and beyond



Professor in the department of Applied Mathematics, Computer Science and Statistics at Ghent University, Belgium. She chairs the UGent expert Center Data Analysis and Statistical Science (DASS) and leads the consulting unit StatGent at UGent. She held positions at prestigious universities including the London School of Hygiene and Tropical Medicine and The Harvard School of Public Health, taught at Stanford and Maastricht University and received the Peter Armitage award from the MRC-Laboratory of Molecular Biology in Cambridge, UK. She is steering group member of STRATOS and an active expert for the European Medicines Agency.

Her research is devoted to the development and application of novel statistical methods to draw evidence on important problems primarily in public health and medicine. This often involves design, causal inference, missing data and time to event analysis using statistical methods and machine learning techniques. Application domains center around the effect of observed exposures, including observed treatment, in clinical trials and observational studies.

Keynote speakers

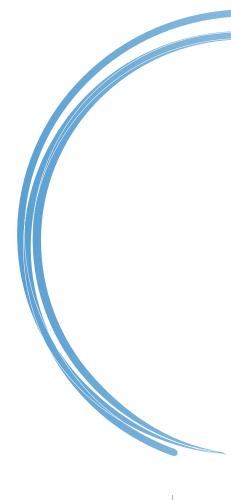
Dr. Alpana Mair, FFRPharmS, MRPharmS, MSc, PhD, IP

A person centred approach to addressing adherence through polypharmacy reviews - The iSIMPATHY approach

Dr. Alpana Mair is an internationally renowned academic and expert policy adviser in the field of medication optimisation and patient safety with a particular focus on polypharmacy and safety and effective use of medicines in the context multimorbidity and health inequalities.

Her ESPACOMP invited talk will focus on 'Navigating polypharmacy: Ensuring safe medication use in complex regimens', specifically on:

- Importance of medication reviews in polypharmacy management;
- Criticality of addressing medication adherence in polypharmacy;
- Identifying and addressing drug interactions and duplications;
- Promoting patient-centered approaches to optimize medication regimens.



Keynote speakers

Prof. Bijan J. Borah, PhD

Individualizing Adherence Interventions: methodological considerations



Prof. Bijan J. Borah is a Professor of Health Services Research at the Mayo Clinic College of Medicine and Science in Rochester, Minnesota. He serves as the Endowed Scientific Director for the Clinical and Economic Evaluation Program at the Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, Mayo Clinic, and is the Head of the Section of Advanced Analytics within the Division of Health Care Delivery Research. Prior to joining Mayo Clinic, Dr. Borah was an Associate Director of Health Economics and Outcomes Research at UnitedHealth, Prof. Borah's educational background was in statistics (B.Sc., M.Sc.), economics (M.A., M.Phil., Ph.D.), and data science (Certificate). His research primarily focuses on comparative effectiveness research spanning across various clinical areas. He has published over 175 peer-reviewed scientific articles, with a significant portion dedicated to medication adherence and persistence. Prof. Borah actively contributes to the academic and research community through his secondary appointments. He is a member of the Midwest Comparative Effectiveness Public Advisory Council (CEPAC) of the Institute for Clinical and Economic Review (ICER), a member of the Cost and Efficiency Subcommittee for the Partnership for Quality Measurement (PQM), and the Chair of the Special Interest Group on Medication Adherence and Compliance at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR).

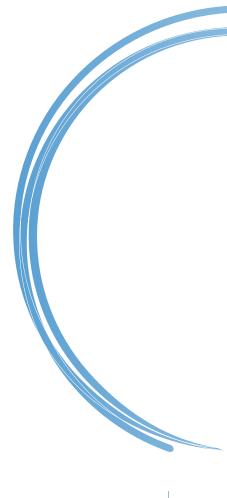
Keynote speakers

Prof. Sean Lawley, PhD

Mathematical modeling of medication nonadherence: a powerful hammer for a stubborn nail

Sean Lawley is an Associate Professor of Mathematics at the University of Utah. His research uses mathematics to answer questions in physiology and medicine. His work on medication nonadherence has addressed questions such as (i) what patients should do if they miss a dose, (ii) how clinicians can design dosing regimens to mitigate nonadherence, and (iii) how efficacy depends on adherence. He has also studied ovarian aging, menopause timing, and stochastic search. He received a PhD in Mathematics from Duke University in 2014 and a BS in Computational Finance from Carnegie Mellon University in 2009.





Faculty (in alphabetical order)

Tamas Agh

Syreon Research Institute (Hungary)

Sarah Belcher

University of Pittsburgh (USA)

· Bijan | Borah

Mayo Clinic College of Medicine and Science (USA)

Sabina De Geest

University of Basel (Switzerland); Faculty of Medicine, KU Leuven (Belgium)

• Els Goetghebeur

Ghent University (Belgium)

Rob Heerdink

HU University of Applied Sciences Utrecht (The Netherlands)

Dyfrig Hughes

Bangor University (Wales UK)

• Przemyslaw Kardas

Medical University of Lodz (Poland)

Sean Lawley

University of Utah (USA)

Francisca Leiva Fernández

Andalusian Health Service/University of Malaga (Spain)

• Enrica Menditto

CIRFF Research Center, Dept. of Pharmacy, University of Naples Federico II (Italy)

Sara Mucherino

Dept. of Pharmacy, University of Naples Federico II (Italy)

Valentina Orlando

CIRFF Research Center, Dept. of Pharmacy, University of Naples Federico II (Italy)

Catrin Plumpton

Bangor University (Wales UK)

• Maria Rubio-Valera

PRISMA Research Group - Sant Joan de Déu; University of Barcelona (Spain)

Faculty (in alphabetical order)

Todd Ruppar Rush University (USA)

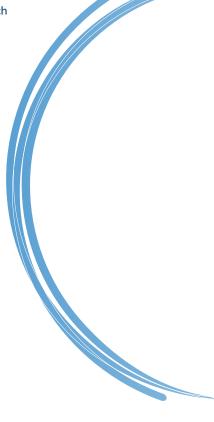
• Marie-Paule Schneider University of Geneva (Switzerland)

Marcia Vervloet Nivel; University of Amsterdam (The Neterlands)

Bernard Vrijens AARDEX Group; University of Liège (Belgium)

 Daniel FB Wright School of Pharmacy, University of Otago (New Zeland)

Leah Zullig Durham Veterans Affairs Centre for Health Services Research in Primary Care (USA)



ESPACOMP 2024 Workshop: Health Economics

Saturday, 23rd November 2024

The role of Health Economics in adherence research and policy

In-person meeting

Faculty (in alphabetical order)

- Dr. Ignacio Aznar-Lou, PhD (Fundació Sant Joan de Déu, Spain)
- Prof. Dyfrig Hughes, PhD (Bangor University, Wales)
- Dr. Maria Rubio-Valera, PhD (Parc Sanitari Sant Joan de Déu, Spain)
- Ms. Alba Sánchez-Viñas, PharmD, MSc (Fundació Sant Joan de Déu, Spain)

Introduction

Health Economics is the study of how scarce resources are used to meet our health and social care needs. As such, and given that non-adherence significantly undermines the effectiveness of healthcare interventions leading to poorer health outcomes and increasing healthcare costs, health economics has a pivotal role in the study of medication adherence. The integration of health economics into adherence research offers a comprehensive framework to understand and address these challenges.

Health economics encompasses a range of methods, from economic evaluation, service evaluation and delivery, through to preference elicitation and behavioral economics. Applications of the methods of health economics into adherence research can provide valuable insights into the broader economic implications of non-adherence, such as the costs associated with disease progression, hospitalizations, and lost productivity. Furthermore, we can evaluate the cost-effectiveness of adherence-enhancing strategies, ensuring that resources are allocated efficiently to improve health outcomes.

We will firstly introduce health economics and explain its role in adherence research. Then, we will go in depth into the methods of cost-effectiveness analysis, understanding how efficiency is estimated and how economic evaluations are interpreted. Practical exercises will be performed and published papers will be reviewed to better understand these type of studies.

Saturday, 23rd November 2024

Learning objectives

After the workshop, participants will have an enhanced understanding of:

- Policy contexts and methods of health economic evaluation in adherence research and evaluation
- · Studies to assess the economic burden of non-adherence, such as cost-of-illness studies
- Basic methods for cost-effectiveness and cost-utility studies
- · Interpretation of cost-effectiveness analyses and the consideration of uncertainty
- The role of health economics in implementation science

Participants will be able to conduct basic cost-effectiveness calculations and they will be able to differentiate a broad type of methodologies for health economics and its applications.

Learning methods

The workshop combines theoretical lectures with group exercises and plenary and group discussions.

Target group

All researchers/clinicians/others interested in health economics with or without previous experience/competence.

Maximum number of participants

30

Preparations for the workshop

Please read the following paper:

(2012). An introduction to the methods of cost-effectiveness analysis. Drug and Therapeutics Bulletin, 50(7), 81–84. doi:10.1136/dtb.2012.06.0118.

Program

Saturday, 23rd November

9:00 AM - 9:15 AM	Welcome and opening Maria Rubio-Valera
9:15 AM - 10:15 AM	Lecture: Introduction to Health Economics and the economic impact of non-adherence <i>Dyfrig Hughes</i>
10:15 AM - 10:30 AM	Coffee Break
10:30 AM - 11:15 AM	Lecture: Assessing the efficiency of interventions to improve adherence <i>Ignacio Aznar-Lou</i>
11:15 AM - 11:30 AM	Exercise: Estimation of Incremental Cost-Effectiveness Ratios <i>Individual work</i>
11:30 AM - 12:30 PM	Lecture: Uncertainty in cost-effectiveness studies <i>Maria Rubio-Valera</i>
12:30 PM - 1:30 PM	Lunch
1:30 PM - 2:30 PM	
1.30 PIVI - 2.30 PIVI	Exercise: Interpreting cost-effectiveness results Group work
2:30 PM - 3:30 PM	
	Group work Lecture: The role of economics in implementation science
2:30 PM - 3:30 PM	Group work Lecture: The role of economics in implementation science Alba Sánchez-Viñas

Leaders (in alphabetical order)



Dr. Ignacio Aznar-Lou

Ignacio Aznar-Lou is a Postdoctoral Research Fellow at the Sant Joan de Déu Research Institute in Barcelona, Spain. He has a background in Pharmacy. Ignacio completed his PhD in 2017 which included a deep analysis of medication non-initiation based on real world data. This analysis included prevalence and associated cost estimations. Since his PhD he has been working in several projects, leading some of them, focused and combining medication adherence, real world data and health economics.



Prof. Dr. Dyfrig Hughes

Dyfrig Hughes is a pharmacist/pharmacologist/health economist and Professor of Pharmacoeconomics at Bangor University, Wales and honorary Professor at the Department of Pharmacology and Therapeutics at the University of Liverpool. His research portfolio, which has led to over 250 publications, concern pharmaceutical economics and policy, health technology assessment, pharmacogenomics and medication adherence. He is the vice-chair of the All Wales Medicines Strategy Group, which makes recommendations on the availability of new medicines in Wales, and was previously a member of the NICE appraisal committee. He was inaugural president of ESPACOMP, and currently co-chairs ESPACOMP's Research, Policy and Implementation sub-group.



Dr. Maria Rubio-Valera

Maria Rubio-Valera, pharmacist, is a health services researcher and principal investigator of the PRISMA Research Group at Parc Sanitari Sant Joan de Déu. She is a professor in Health Economics at Universitat Pompeu Fabra. Maria is an expert in quality improvement and her research uses mixed methods to improve the quality and efficiency of public healthcare provision, with a special focus on adequate use of drug therapy and medication adherence. She has studied adherence and other health related behaviors in primary and secondary care. She has published over 80 papers and holds the prestigious ERC Starting Grant from the European Commission. She is currently chair of the ESPACOMP research Network.



Dr. Alba Sánchez-Viñas

Alba Sánchez-Viñas is a pharmacist, a MSc in Health Economics and a PhD student. Her research has focused on the evaluation of the cost-effectiveness of complex interventions, particularly interventions addressed to improve adherence. Her research concerns the economic evaluation of health interventions using data derived from randomized controlled trials, real world data and economic modelling.





Registered office: via Borgogna, 2 - 20122 Milan Operational headquarter: corso Europa, 13 - 20122 Milan mail | info@3psolution.it







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save the date

November, 13th-14th 2025 Málaga, Spain



See you in Málaga!