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Short presentation

Older adults are the main consumers of drugs but are rarely included in pivotal randomized clinical trials. Hence, post-marketing surveillance is a pivotal activity to better characterize the safety and effectiveness of medications in older patients.

I am currently coordinating a team integrating multidisciplinary expertise from Pharmacoepidemiology, Pharmacovigilance, and Data science to catalyze the identification of subgroups of older patients at higher risk of adverse drug reactions or not sufficiently benefitting from pharmacological treatments using post-marketing data sources (e.g., administrative and spontaneous reporting databases). The team has a strong translational perspective as its final goal is to promote the integration of discoveries into patient care.

The team has access to the biggest cohort of older individuals in Denmark covering the entire Danish population aged ≥ 65 for which they have socio-demographic information, hospital- and ambulatory access to Danish hospitals, pharmacological and non-pharmacological treatments, laboratory results (i.e., biochemical, genetic, and immunological), surgery, and procedures.

Qualifications

Regulatory affairs, Certified program in EU Regulatory Affairs
Award Date: 1 Sep 2017

Translational pharmacology, PhD
Award Date: 20 Dec 2016

Employment

Associate Professor

Pharmaceutical Informatics

København Ø

1 May 2018 → nu

Assistant professor, tenure track

Pharmacotherapy

København Ø, Denmark

1 Sep 2019 → 3 Jan 2020

Research outputs

Exploring the impact of co-exposure timing on drug-drug interactions in signal detection through spontaneous reporting system databases: a scoping review

Cocco, M., Carnovale, C., Clementi, E., Barbieri, M. A., Battini, V. & Sessa, Maurizio, 15 Apr 2024, (E-pub ahead of print)
In: Expert Review of Clinical Pharmacology.

Artificial intelligence for the optimal management of community-acquired pneumonia

Barbieri, M. A., Battini, V. & Sessa, Maurizio, 2024, In: Current Opinion in Pulmonary Medicine. 30, 3, p. 252-257

Comparing major and mild cognitive impairment risks in older type-2 diabetic patients: a Danish register-based study on dipeptidyl peptidase-4 inhibitors vs. glucagon-like peptide-1 analogues

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Drug Repurposing in Crohn's Disease Using Danish Real-World Data

Shakibfar, Saeed, Allin, K. H., Jess, T., Barbieri, M. A., Battini, V., Simoncic, E., Kirchgessner, J., Ulven, Trond & Sessa, Maurizio, 2024, In: Pragmatic and observational research. 15, p. 17-29

Impact of the early COVID-19 pandemic on adult mental health-related dispensed medications, hospitalizations and specialist outpatient visits in Norway and Sweden: Interrupted time series analysis

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Optimizing Signal Management in a Vaccine Adverse Event Reporting System: A Proof-of-Concept with COVID-19 Vaccines Using Signs, Symptoms, and Natural Language Processing

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Persistence and adherence with Latanoprost: A Danish register-based cohort study in older patients with glaucoma

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Ticagrelor or prasugrel vs. clopidogrel in patients with atrial fibrillation undergoing percutaneous coronary intervention for myocardial infarction

Godtfredsen, S. J., Kragholm, K. H., Kristensen, A. M. D., Bekfani, T., Sørensen, Rikke, Sessa, Maurizio, Torp-Pedersen, Christian, Bhatt, D. L. & Pareek, M., 2024, In: European Heart Journal Open. 4, 1, 9 p., oead134.

A novel approach for pharmacological substantiation of safety signals using plasma concentrations of medication and administrative/healthcare databases: a case study using Danish registries for an FDA warning on lamotrigine

Wang, W., Battini, V., Carnovale, C., Noordam, R., van Dijk, K. W., Kragholm, K. H., van Heemst, D., Soeorg, H. & Sessa, Maurizio, 2023, In: Pharmacological Research. 193, 8 p., 106811.

Artificial intelligence-based disease risk score for community-acquired pneumonia hospitalization in older individuals: a Danish register-based study

Shakibfar, Saeed, Andersen, Morten & Sessa, Maurizio, 2023, In: iScience. 26, 7, 16 p., 107027.

Artificial intelligence-driven prediction of COVID-19-related hospitalization and death: a systematic review

Shakibfar, Saeed, Nyberg, F., Li, H., Zhao, J., Nordeng, H. M. E., Sandve, G. K. F., Pavlovic, M., Hajiebrahimi, M., Andersen, Morten & Sessa, Maurizio, 2023, In: Frontiers in Public Health. 11, 15 p., 1183725.

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Myocarditis and pericarditis in individuals exposed to the Ad26.COV2.S, BNT162b2 mRNA, or mRNA-1273 SARS-CoV-2 vaccines

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Ubrogепant and rimegepant: signal detection using spontaneous reports of adverse events from the Food and Drug Administration Adverse Event Reporting System

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Venous thromboembolism with use of hormonal contraception and non-steroidal anti-inflammatory drugs: nationwide cohort study

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A machine-learning guided method for predicting add-on and switch in secondary data sources: A case study on anti-seizure medications in Danish registries

Breitenstein, P. S., Mahmoud, I., Al-Azzawi, F., Shakibfar, Saeed & Sessa, Maurizio, 2022, In: *Frontiers in Pharmacology*. 13, 11 p., 954393.

Artificial neural network vs pharmacometric model for population prediction of plasma concentration in real-world data: a case study on valproic acid

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Pharmacological and epidemiological considerations while constructing treatment episodes using observational data: A simulation study

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Pharmacom-epi: A framework for integrating pharmacometric modeling into Pharmacoepidemiological research using real-world data

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Post-marketing safety surveillance of erenumab: new insight from Eudravigilance

Liang, D. & Sessa, Maurizio, 2022, In: *Expert Opinion on Drug Safety*. 21, 9, p. 1205-1210

Rationale and performances of a data-driven method for computing the duration of pharmacological prescriptions using secondary data sources

Pazzagli, L., Liang, D., Andersen, Morten, Linder, M., Khan, A. R. & Sessa, Maurizio, 2022, In: *Scientific Reports*. 12, 1, 8 p., 6245.

Reply to: "Impact of MELD 30-allocation policy on liver transplant outcomes in Italy: Considerations"

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Segmental Ureterectomy Versus Radical Nephroureterectomy in Older Patients Treated for Upper Tract Urothelial Carcinoma

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The PHARMACOM-EPI framework for integrating pharmacometric modelling into pharmacoepidemiological research using real-world data: application to assess death associated with valproate

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Is the Strongest Level of Medical Evidence Always Required for Guidelines Recommendations?

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The relationship between valproate versus lamotrigine/levetiracetam use and prognosis in patients with epilepsy and heart failure: A Danish register-based study

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