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Antithrombotic therapy in the Netherlands: new insights from nationwide data

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List of Publications

- [1] **Chen Q**, Toorop MMA, Tops LF, Lijfering WM, Cannegieter SC. Time Trends in Patient Characteristics, Anticoagulation Treatment, and Prognosis of Incident Nonvalvular Atrial Fibrillation in the Netherlands. *JAMA Netw Open*. 2023;6(4):e239973.
- [2] Toorop MMA[†], **Chen Q**[†], Tichelaar V, Cannegieter SC, Lijfering WM. Predictors, time course, and outcomes of persistence patterns in oral anticoagulation for non-valvular atrial fibrillation: a Dutch Nationwide Cohort Study. *Eur Heart J*. 2021;42(40):4126-37.
- [3] Kempers EK[†], **Chen Q**[†], Visser C, van Gorp ECM, Klok FA, Cannegieter SC, Kruip M. Changes in incidence of hospitalization for cardiovascular diseases during the COVID-19 pandemic in The Netherlands in 2020. *Sci Rep*. 2023;13(1):12832.
- [4] Anijs RJS, **Chen Q**, van der Hulle T, Versteeg HH, Klok FA, Lijfering WM, Cannegieter SC. Venous and arterial thromboembolism after colorectal cancer in the Netherlands: Incidence, predictors, and prognosis. *Thrombosis Research*. 2023;229:90-8.
- [5] Toorop MMA, **Chen Q**, Kruip M, van der Meer FJM, Nierman MC, Faber L, et al. Switching from vitamin K antagonists to direct oral anticoagulants in non-valvular atrial fibrillation patients: Does low time in therapeutic range affect persistence? *J Thromb Haemost*. 2022;20(2):339-52.
- [6] Stals MAM, Grootenboers M, van Guldener C, Kaptein FHJ, Braken SJE, **Chen Q**, et al. Risk of thrombotic complications in influenza versus COVID-19 hospitalized patients. *Res Pract Thromb Haemost*. 2021;5(3):412-20.
- [7] **Chen Q**, Toorop MMA, de Boer MGJ, Rosendaal FR, Lijfering WM. Why crowding matters in the time of COVID-19 pandemic? - a lesson from the carnival effect on the 2017/2018 influenza epidemic in the Netherlands. *BMC Public Health*. 2020;20(1):1516.

[†] Contributed equally

Curriculum Vitae

Qingui Chen was born in 1993 in Guangdong, China. He studied clinical medicine in the Zhongshan School of Medicine, Sun Yat-sen University in Guangzhou, China between 2011 and 2016. After receiving a BSc degree in medicine, he attended a master program of internal medicine between 2016 and 2019 in the First affiliated hospital, Sun Yat-sen University in Guangzhou, China. Since September 2019, with the Chinese Government Scholarship he attended a 4-year PhD program at the Department of Clinical Epidemiology, Leiden University Medical Center in Leiden, the Netherlands. His PhD research focused on anticoagulant use in the Netherlands using nationwide data provided by Statistics Netherlands. Since September 2023, he continues to conduct clinical epidemiological research as a postdoctoral fellow at the Department of Clinical Epidemiology, Leiden University Medical Center in Leiden, the Netherlands.

Acknowledgements

This thesis would not have been possible without the nationwide data provided by Statistics Netherlands and all the involved researchers and coauthors, to whom I am deeply thankful. Owing to Frits Rosendaal's swift reply to my first email in 2018, I embarked on my journey to pursue a PhD in Leiden. Obviously, living and studying in a foreign country presented unique challenges, especially for a person who had never travelled abroad, but I ultimately survived with the support and help from many kind persons, in particular the Epi colleagues. Regrettably, I am unable to acknowledge each one individually here.

Over the course of my PhD journey, I'm sincerely grateful to my supervisors Suzanne, Willem, and Nienke for their guidance, patience, and expertise. Particular thanks also go to Saskia and Rolf for answering my potentially naïve methodological questions in statistics and epidemiology. My thanks extend to office mates Tahani and Carolina for assisting me in settling down when I first moved to the Netherlands. Moreover, I am truly appreciative of the help from Willem, Ajda, Eleonora, and Tariq during a physically challenging time in my life.

At the end, I want to thank my parents for their understanding and support for my abroad PhD journey.

Portfolio

PhD student	Qingui Chen
Primary thesis advisor	prof.dr. S.C. Cannegieter
Other thesis advisor	dr. N. van Rein
Research programme	Clinical epidemiology (21001)
Title of Thesis	Antithrombotic therapy in the Netherlands- New insights from nationwide data

PhD training	Year	Hours	
Mandatory courses			
PhD Introductory Meeting	2021	5	
Basic Methods and Reasoning in Biostatistics	2019	42	
BROK Course	2022	42	
Generic/disciplinary courses			
Epidemiology - the first round	2019	84	
Prediction modelling and Intervention research	2020	84	
Causal Inference	2020	84	
Meta-analysis	2021	42	
Regression analysis	2021	42	
Analysis of Repeated Measurements	2021	42	
Survival analysis	2022	42	
Advanced Epidemiological Methods	2021	56	
Statistical Aspects of Clinical Trials	2022	28	
Skills for the Practising Epidemiologist	2022	42	
Congress attendance and poster or oral presentations			
Oral presentation	NVTH Symposium 2020	2020	10
Oral presentation	NVTH Symposium 2021	2021	10
Oral presentation	NVTH Symposium 2022	2022	10
Poster presentation	NVTH Symposium 2023	2023	10
Poster presentation	The 28th Congress of ISTH	2020	20
Oral presentation	The 29th Congress of ISTH	2021	25
Oral presentation	The 30th Congress of ISTH	2022	25
Oral presentation	The 31st Congress of ISTH	2023	25
Oral presentation	ECTH 2021	2021	10

NVTH, Dutch Association for Thrombosis and Hemostasis;
 ISTH, International Society on Thrombosis and Haemostasis;
 ECTH, European Congress on Thrombosis and Haemostasis.

Teaching activities	Year	Hours
Lecturing, lab assistance, student supervision		
Academic and Scientific Training (AWV2)	2020	3.5
Academic and Scientific Training (AWV2)	2021	10.5
Critical Appraisal of a Topic (2020)	2021	28
Critical Appraisal of a Topic (2021)	2022	28
Critical Appraisal of a Topic (2022)	2023	28
Design and Analysis of Biomedical Studies	2022	1.75

Parameters of esteem	Year
Awards and Prizes	
Award for Scientific Excellence (NVTH Symposium 2021)	2021
Early Career Travel Award (ISTH 2021 Congress)	2021
Early Career Travel Award (ISTH 2022 Congress)	2022
Early Career Travel Award (ISTH 2023 Congress)	2023
Award for Scientific Excellence (ECTH 2021)	2021
Distinguished peer review service (Research and Practice in Thrombosis and Haemostasis, 2021-2022)	2022

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