

Mark van den Boogaard, Ph.D

Specialty: Intensive care, nursing
Institute: Radboud university medical center
Department: Intensive Care Medicine, research IC
City: Nijmegen
Country: the Netherlands
Function: senior researcher and assistant professor
Scientific focus: ICU delirium prediction and prevention and long-term consequences of critical illness



Key words: Delirium management, long-term ICU outcome (and PICS)

What else do I want to say?

I'm a former ICU nurse and finished my Ph.D in 2012, titled: *'Delirium in Intensive Care Patients; detection, impact, prediction, prevention, and biomarkers'*.

ICU delirium is still my area of interest, with a special interest in delirium prediction and prevention. I performed several multicenter and multinational clinical studies in which we developed and validated two ICU-delirium prediction models. Regarding delirium prevention my focus is on pharmacological as well as on non-pharmacological interventions. Furthermore, I'm project leader of the MONITOR-IC, a long-term follow-up program measuring quality of life till 5y after ICU admission. This is a large scale, multicenter study in which over 12,000 patients will be included.

I'm supervising several trainees and Ph.D students in both research lines.

With my experiences in performing large scale multicenter studies and my knowledge regarding ICU delirium and long-term outcome of ICU survivors I'm able to help and supervise junior researchers in this field. I'm more than happy to spend time with the mentee providing feedback and discussing research/methodology issues, and on problems that occur during the study/studies. Furthermore I can help the mentee in finding collaborations/partnership with other centers across Europe.

Selected reference list (1-7)

1. **van den Boogaard M**, Pickkers P, Slooter AJ, Kuiper MA, Spronk PE, van der Voort PH, van der Hoeven JG, Donders R, van Achterberg T, Schoonhoven L. Development and validation of PRE-DELIRIC (PREdiction of DELIRium in ICu patients) delirium prediction model for intensive care patients: observational multicentre study. *Bmj*. 2012;344:e420.
2. **van den Boogaard M**, Schoonhoven L, Evers AW, van der Hoeven JG, van Achterberg T, Pickkers P. Delirium in critically ill patients: impact on long-term health-related quality of life and cognitive functioning. *Critical care medicine*. 2012;40(1):112-8.
3. **van den Boogaard M**, Schoonhoven L, Maseda E, Plowright C, Jones C, Luetz A, Sackey PV, Jorens PG, Aitken LM, van Haren FM, Donders R, van der Hoeven JG, Pickkers P. Recalibration of the delirium prediction model for ICU patients (PRE-DELIRIC): a multinational observational study. *Intensive care medicine*. 2014;40(3):361-9.
4. **van den Boogaard M**, Slooter AJC, Bruggemann RJM, Schoonhoven L, Beishuizen A, Vermeijden JW, Pretorius D, de Koning J, Simons KS, Dennesen PJW, Van der Voort PHJ, Houterman S, van der Hoeven JG, Pickkers P, Investigators RS. Effect of Haloperidol on Survival Among Critically Ill Adults With a High Risk of Delirium: The REDUCE Randomized Clinical Trial. *JAMA : the journal of the American Medical Association*. 2018;319(7):680-90.



5. Wassenaar A, de Reus J, Donders ART, Schoonhoven L, Cremer OL, de Lange DW, van Dijk D, Slooter AJC, Pickkers P, **van den Boogaard M**. Development and Validation of an Abbreviated Questionnaire to Easily Measure Cognitive Failure in ICU Survivors: A Multicenter Study. *Critical care medicine*. 2018;46(1):79-84.
6. Wassenaar A, Rood P, Schoonhoven L, Teerenstra S, Zegers M, Pickkers P, **van den Boogaard M**. The impact of nUrsiNg DELiRium Preventive INnterventions in the Intensive Care Unit (UNDERPIN-ICU): A study protocol for a multi-centre, stepped wedge randomized controlled trial. *International journal of nursing studies*. 2017;68:1-8.
7. Wassenaar A, **van den Boogaard M**, van Achterberg T, Slooter AJ, Kuiper MA, Hoogendoorn ME, Simons KS, Maseda E, Pinto N, Jones C, Luetz A, Schandl A, Verbrugghe W, Aitken LM, van Haren FM, Donders AR, Schoonhoven L, Pickkers P. Multinational development and validation of an early prediction model for delirium in ICU patients. *Intensive care medicine*. 2015;41(6):1048-56.