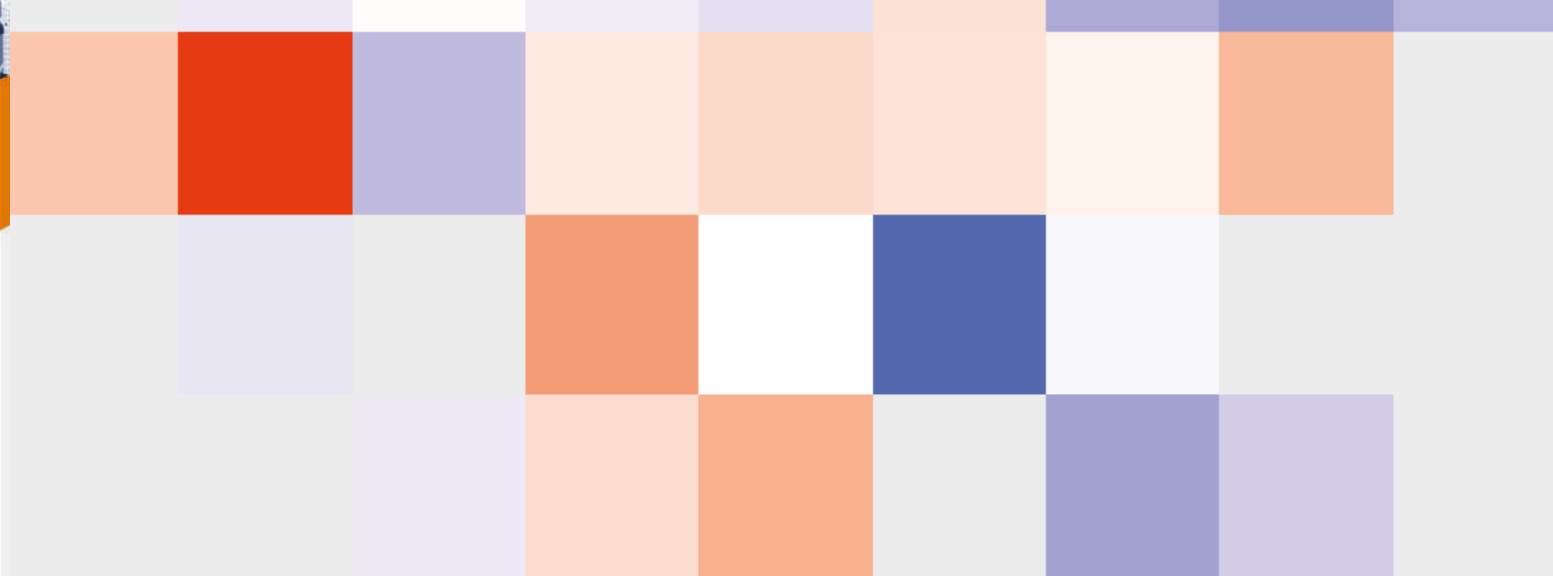


Research methods for critical care:
Empirical tests of commonly used
clinical research instruments

Harm-Jan de Groot





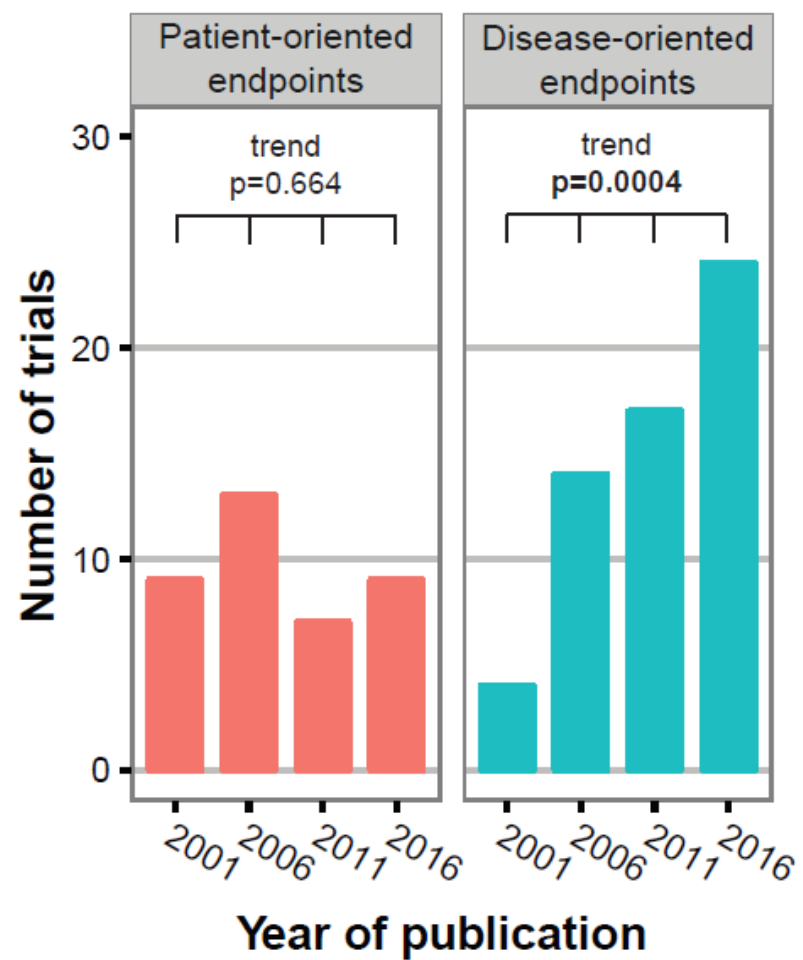
Research methods for critical care: Empirical tests of commonly used clinical research instruments

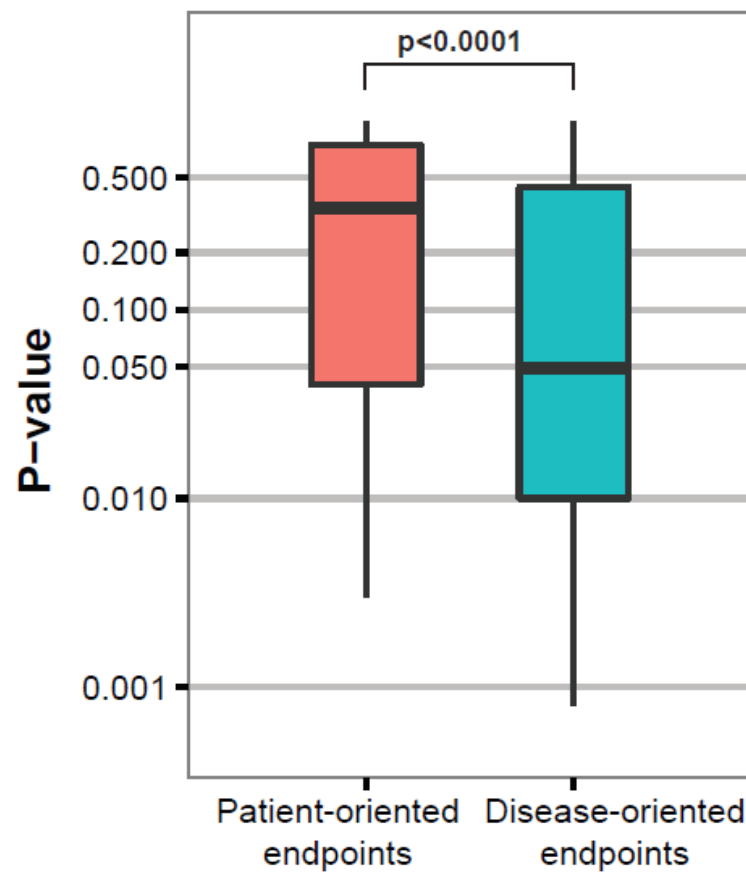
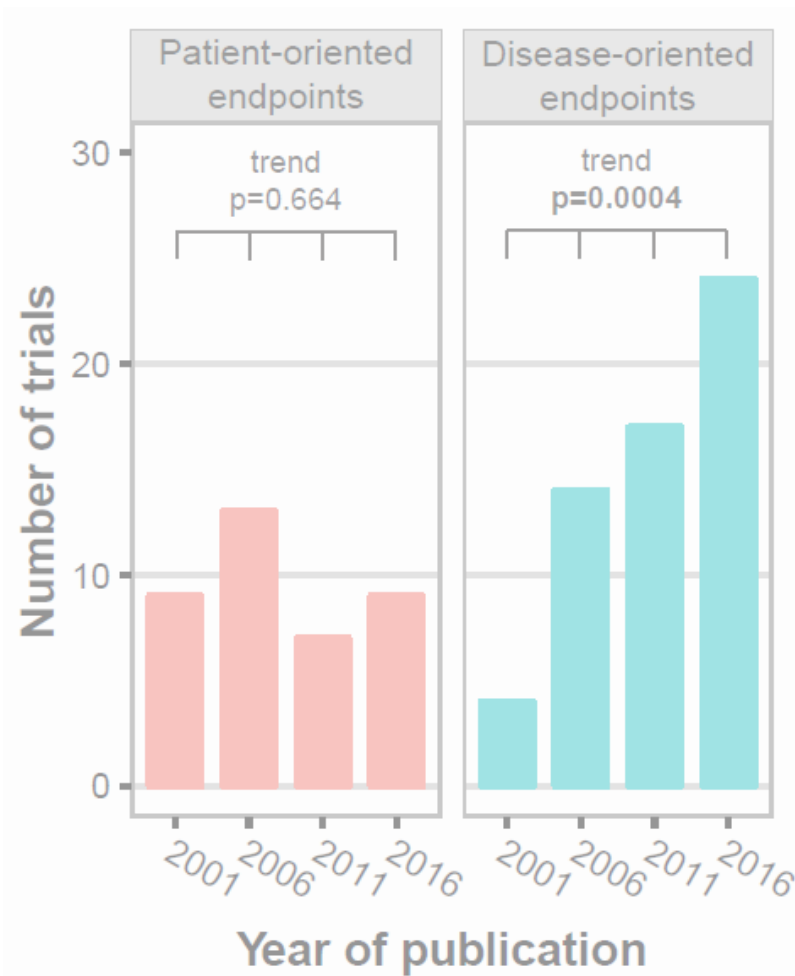
Harm-Jan de Groot

Disclosure

Geen (potentiële) belangenverstrengeling

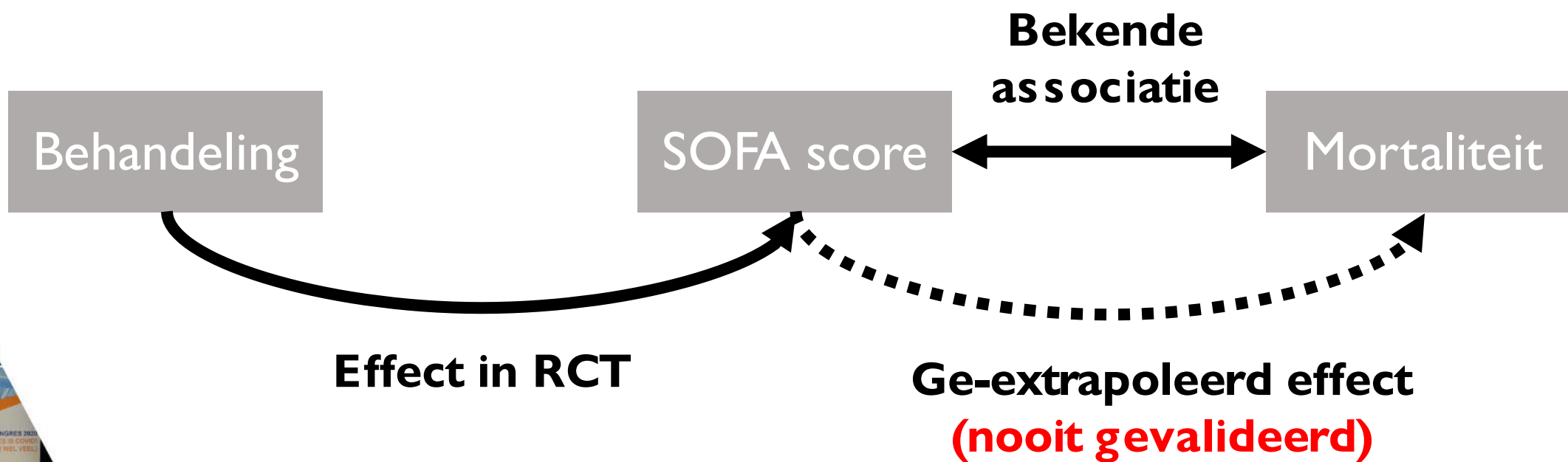


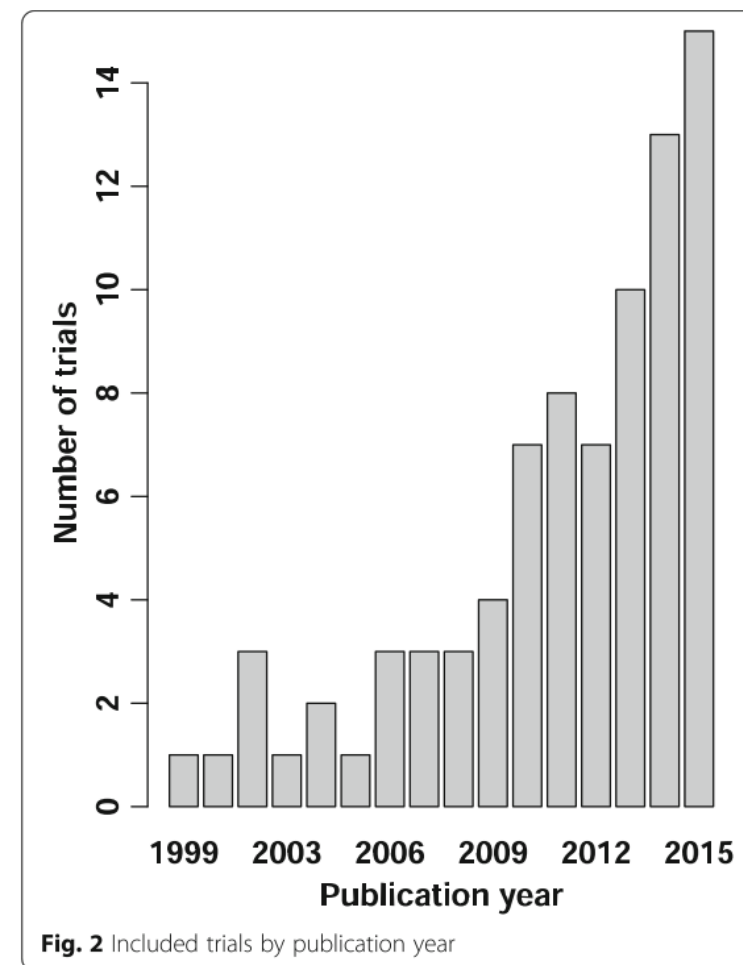


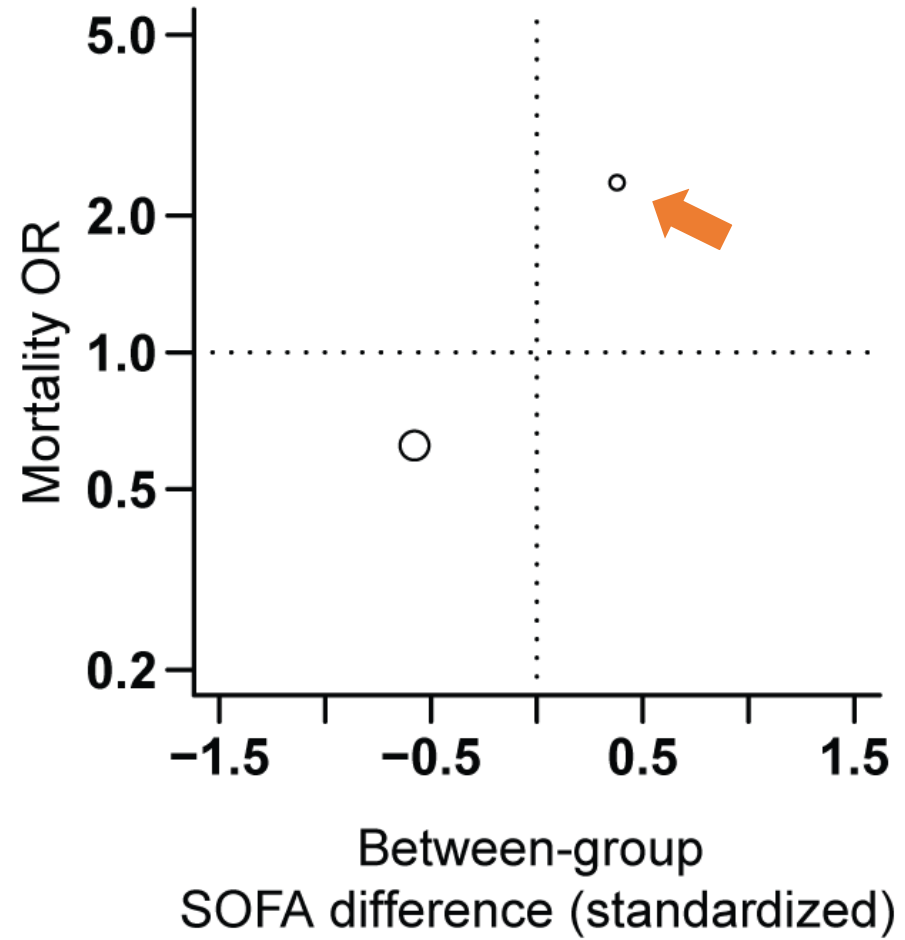


Verbetering van **orgaanfalen** als **primair eindpunt** van RCTs



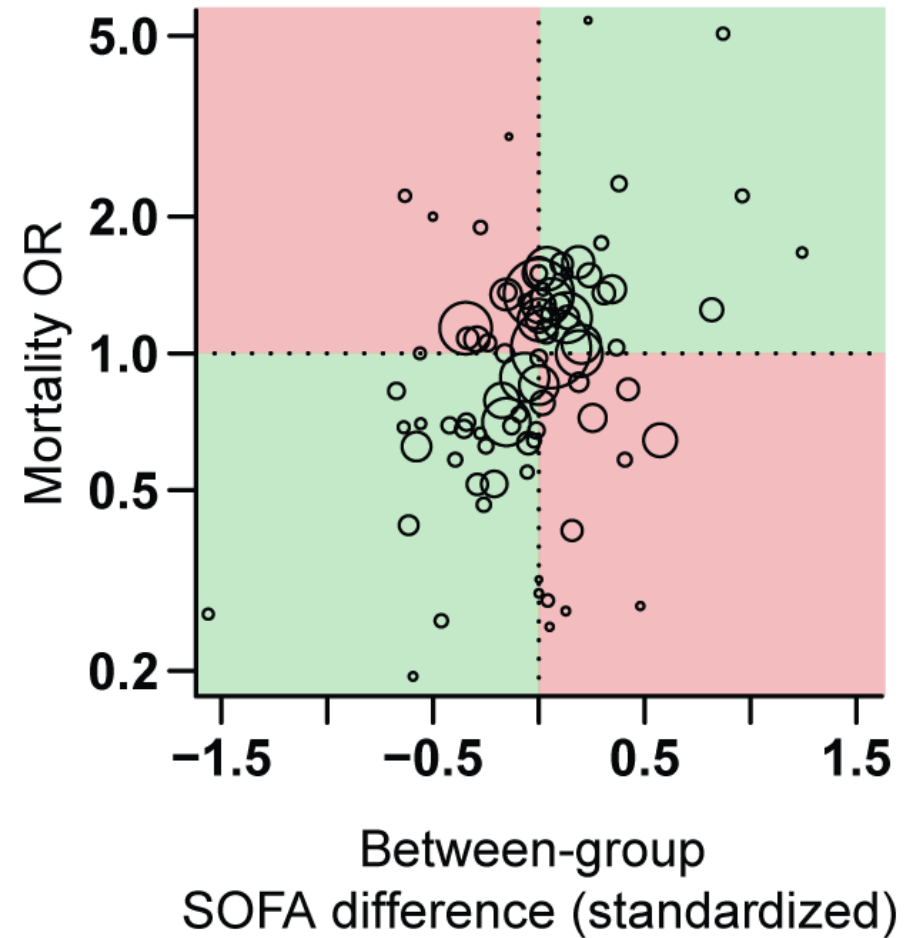






Effect op mortaliteit verklaarbaar
door effect op SOFA score:

9%



Uncaptured effect



Effect in RCT

Ge-extrapolerd effect



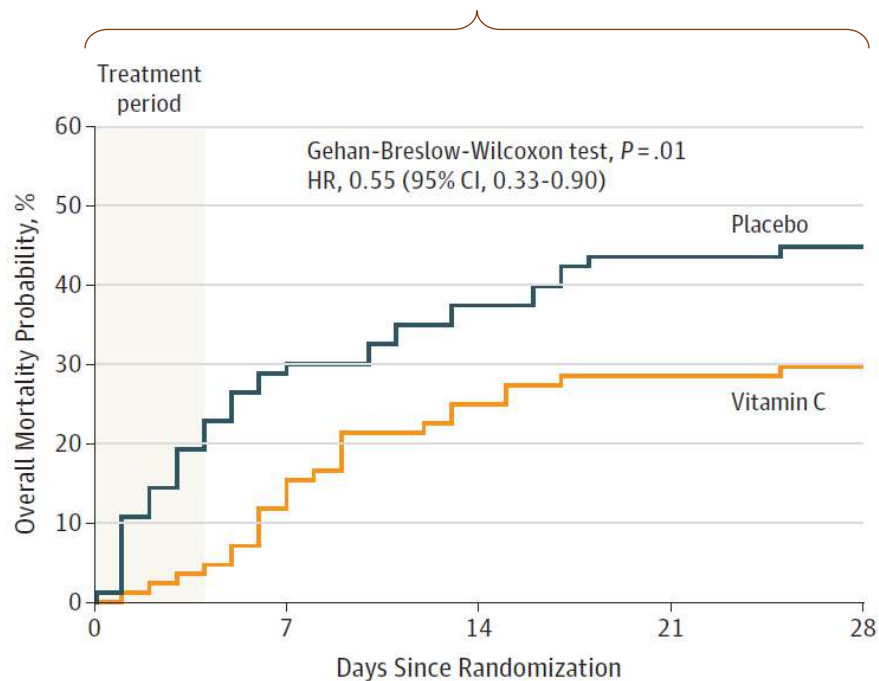


Effect of Vitamin C Infusion on Organ Failure and Biomarkers of Inflammation and Vascular Injury in Patients With Sepsis and Severe Acute Respiratory Failure

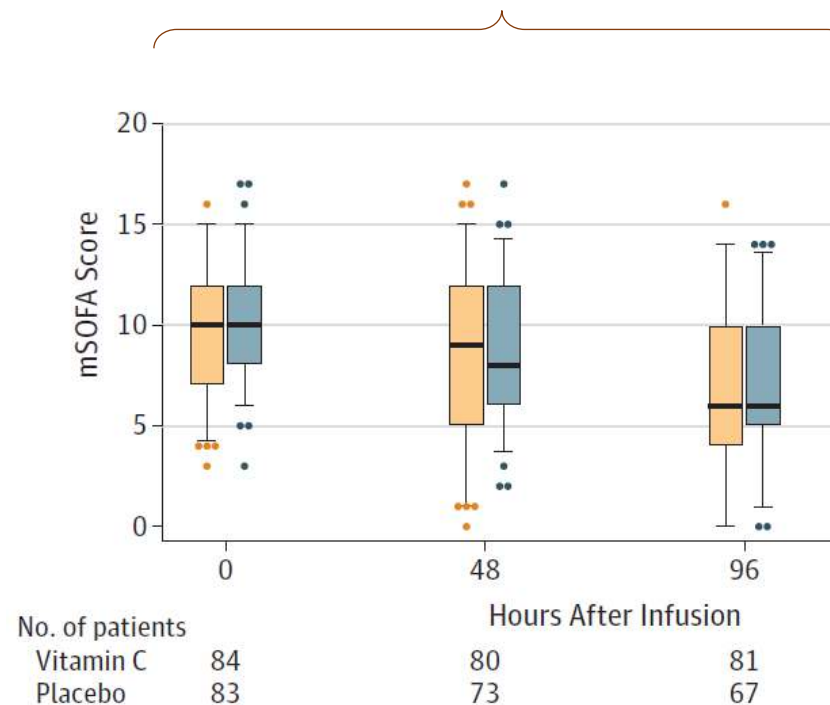
The CITRIS-ALI Randomized Clinical Trial

Alpha A. Fowler III, MD; Jonathon D. Truweit, MD; R. Duncan Hite, MD; Peter E. Morris, MD; Christine DeWilde, RN, PhD; Anna Priday, BS, MS; Bernard Fisher, BS, MS; Leroy R. Thacker II, PhD; Ramesh Natarajan, PhD; Donald F. Brophy, PharmD; Robin Sculthorpe, RPh; Rahul Nanchal, MD; Amer Syed, MD; Jamie Sturgill, PhD; Greg S. Martin, MD, MSc; Jonathan Sevransky, MD, MHS; Markos Kashiouris, MD, MPH; Stella Hamman, RN, MSN; Katherine F. Egan, BSN, RN, CCRC; Andrei Hastings, MD; Wendy Spencer, RN, CPN; Shawnda Tench, BBA, CCRP; Omar Mehkri, MD; James Bindas, MBA; Abhijit Duggal, MD; Jeanette Graf, BS, CCRP; Stephanie Zellner, MS, CCRC; Lynda Yanny, RN, BSN, CCRC; Catherine McPolin, RN, BSN, CCRP; Tonya Hollrith, RT, MR; David Kramer, MD; Charles Ojielo, MD; Tessa Damm, DO; Evan Cassity, MS; Aleksandra Wieliczko, RN; Matthew Halquist, PhD

Mortaliteit



SOFA score beloop



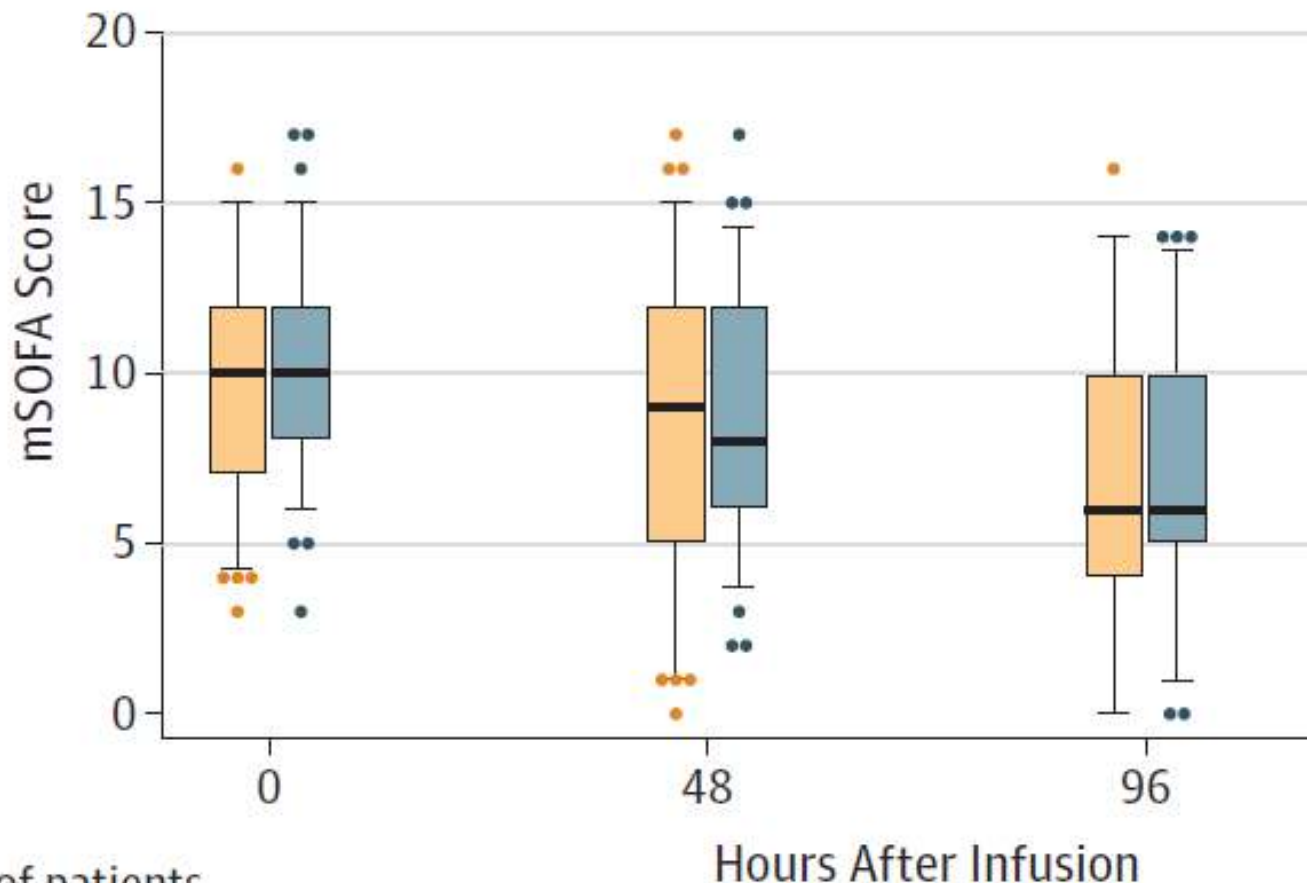
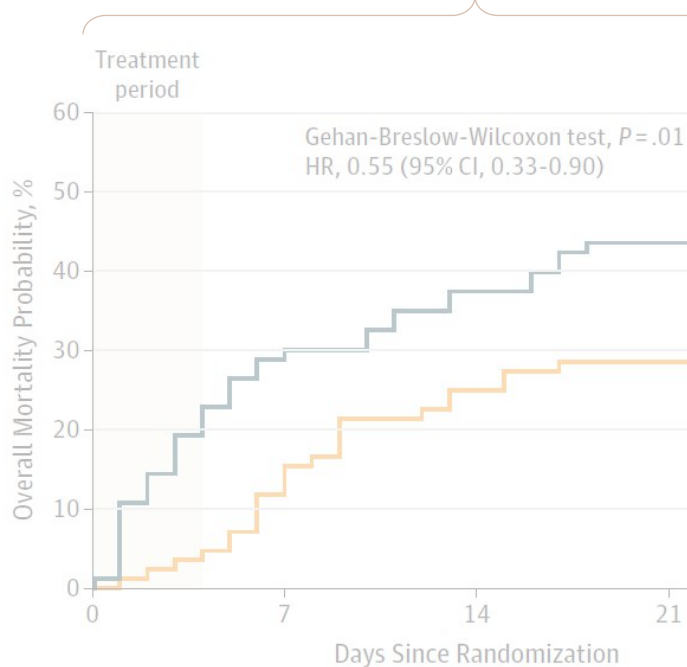


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Mortaliteit



No. of patients

Vitamin C
Placebo

84
83

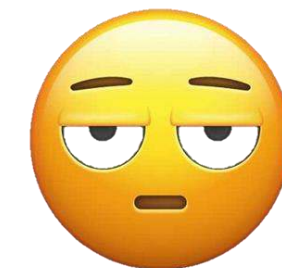
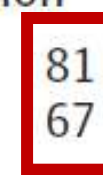


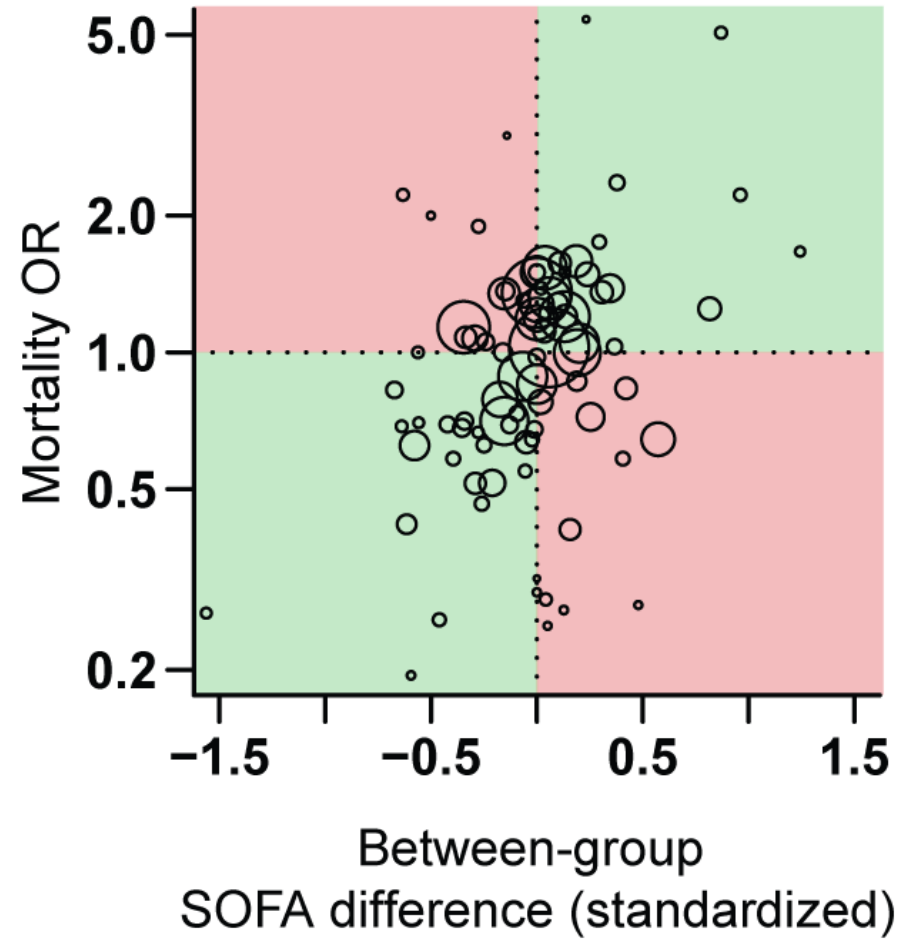
Hours After Infusion

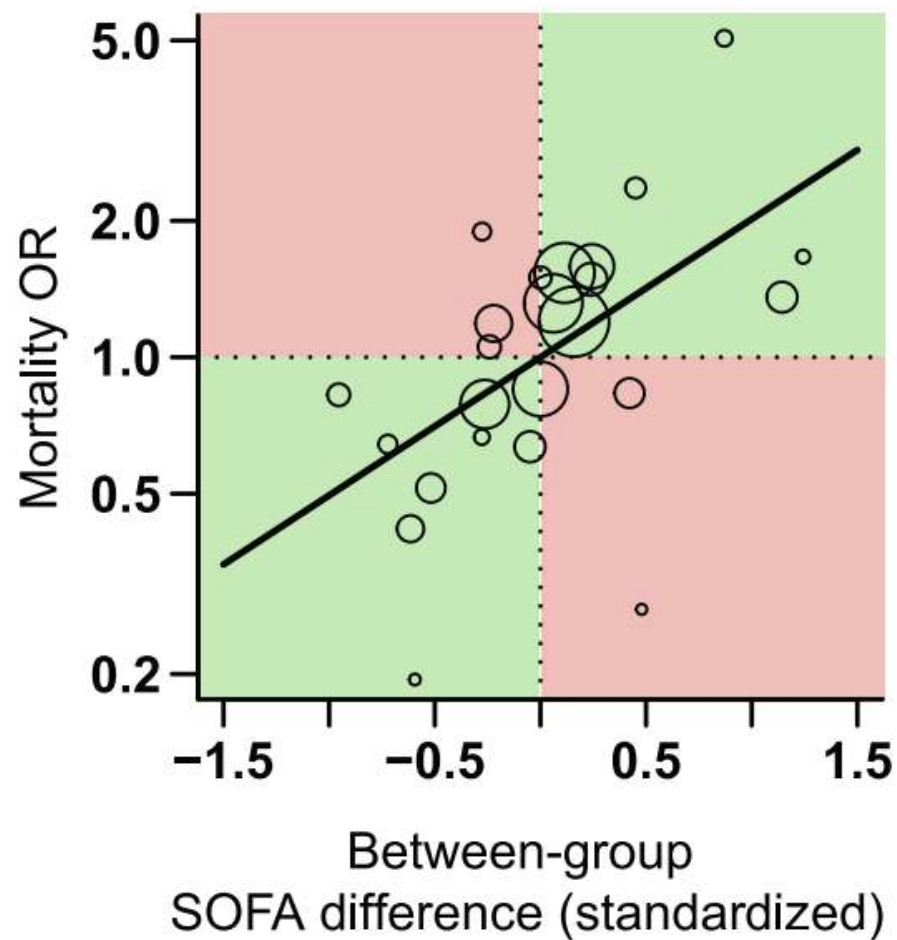
80
73



81
67





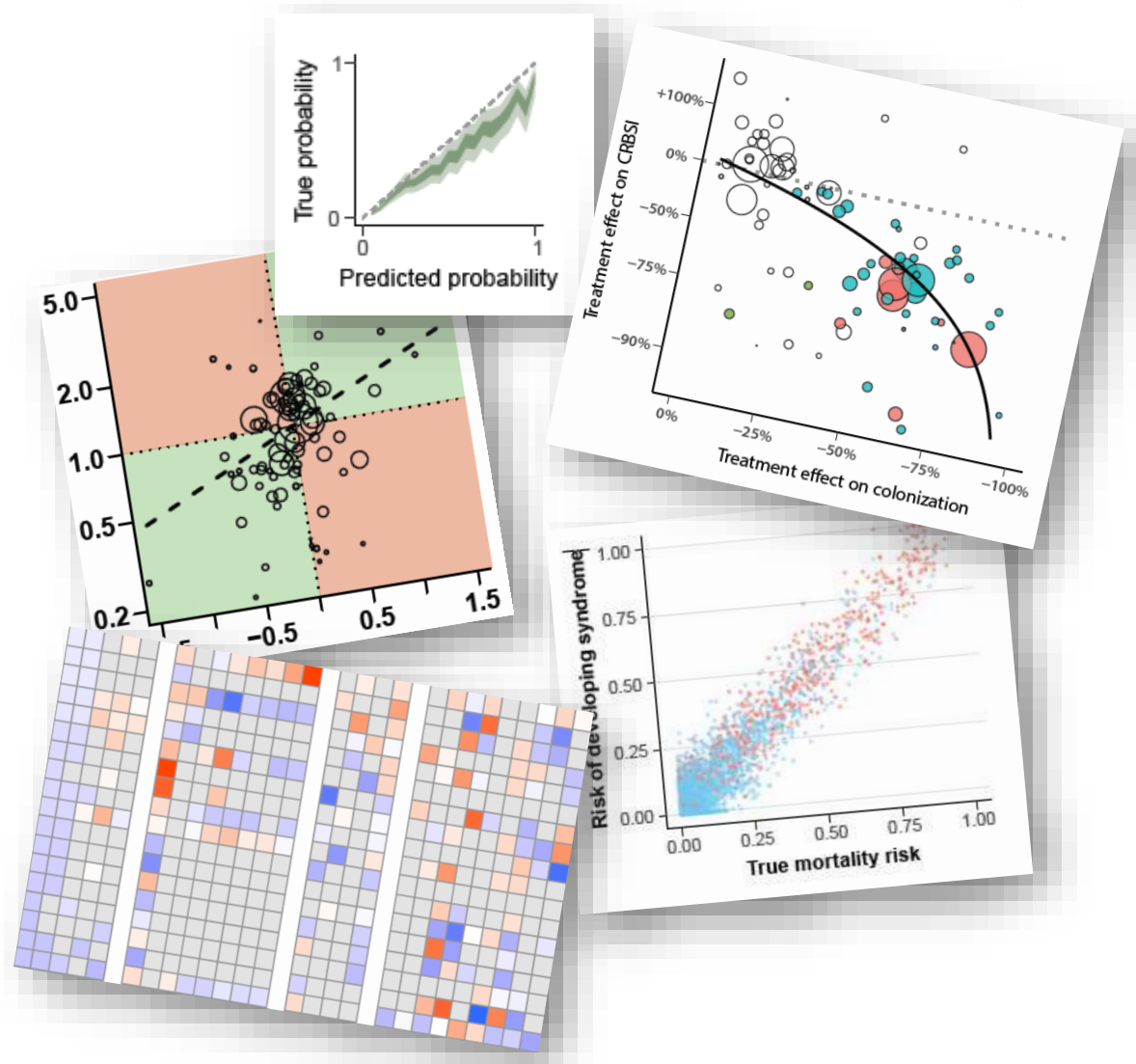
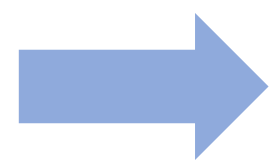


RCT met SOFA score als primair eindpunt?

- Valide eindpunt **mits goed ontworpen**
- Controleer (dis)congruentie met andere uitkomsten







Onmogelijk zonder geweldige (co)promotoren





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Harm-Jan de Groot

