



List of publications

Full papers

van den Brom CE, Boly CA, Bulte CSE, Boer C. Perioperative organ perfusion in obesity and diabetes.

Submitted

van den Brom CE, Boly CA, Bulte CSE, van den Akker RFP, Kwekkeboom RFJ, Loer SA, Boer C, Bouwman RA. Sevoflurane impairs myocardial systolic function, but not myocardial perfusion in diet-induced prediabetic rats.

Submitted

van den Brom CE, Boer C, van den Akker RFP, van der Velden J, Loer SA, Bouwman RA. Diet composition modulates sevoflurane-induced myocardial depression in rats.

Submitted

Bulte CSE, **van den Brom CE**, SA Loer, Boer C, Bouwman RA. Myocardial blood flow under sevoflurane anaesthesia in type 2 diabetic patients: a pilot study.

Submitted

Dekker SE, Viersen VA, Duvekot A, de Jong M, **van den Brom CE**, Schober P, Boer C. Lysis Onset Time as Diagnostic Rotational Thromboelastometry Parameter for Fast Detection of Hyperfibrinolysis.

Submitted

Vonk ABA, Veerhoek D, **van den Brom CE**, van Barneveld LJM, Boer C. Individualized heparin and protamine management improves rotational thromboelastometric parameters and postoperative hemostasis in valve surgery.

Accepted at Journal of Cardiothoracic and Vascular Anesthesia

van den Brom CE, Bulte CSE, Loer SA, Bouwman RA, Boer C. Diabetes, perioperative ischaemia and volatile anaesthetics: Consequences of derangements in myocardial substrate metabolism.

Cardiovascular Diabetology (2013), 12:42

Koning NJ, Vonk AB, Verkaik M, van Barneveld LJ, Beishuizen A, Atasever B, Baufreton C, **van den Brom CE**, Boer C. Pulsatile flow during cardiopulmonary bypass preserves postoperative microcirculatory perfusion irrespective of systemic hemodynamics.

Journal of Applied Physiology (2012), 112(10): 1727-1734

van den Brom CE, Bulte CSE, Kloeze BM, Loer SA, Boer C, Bouwman RA. High-fat diet-induced glucose intolerance impairs myocardial function, but not myocardial perfusion during hyperaemia: a pilot study.

Cardiovascular Diabetology (2012), 11:74

van den Brom CE, Bosmans JWAM, Vlasblom R, Huisman MC, Lubberink M, Molthoff CFM, Lammertsma AA, Boer C, Ouwens DM, Diamant M. Diabetic cardiomyopathy in Zucker diabetic fatty rats: the forgotten right ventricle.

Cardiovascular Diabetology (2010), 9:25

van den Brom CE, Huisman MC, Vlasblom R, Boontje NM, Duijst S, Lubberink M, Molthoff CFM, Lammertsma AA, van der Velden J, Boer C, Ouwens DM, Diamant M. Altered myocardial substrate metabolism is associated with myocardial dysfunction in early diabetic cardiomyopathy in rats: studies using positron emission tomography.

Cardiovascular diabetology (2009), 8(1):39

de Snoo MW, **van den Brom CE**, Jeneson JAL, Everts ME. The effect of wheel running exercise on plasma IL-6 and muscle IL-6 mRNA levels in mice.

In "Responses of mouse skeletal muscle to endurance exercise" Thesis dr. MW de Snoo (2009) chapter 6

Ouwens DM, Diamant M, Fodor M, Habets DDJ, Pelsers MMAL, El Hasnaoui M, Dang ZC, **van den Brom CE**, Vlasblom R, Rietdijk A, Boer C, Coort SLM, Glatz JCF, Luiken LLFP. Cardiac contractile dysfunction in insulin resistant high-fat diet fed rats associates with elevated CD36-mediated fatty acid uptake and esterification.

Diabetologia (2007), 50: 1938-1948

Van Schothorst EM, Keijer J, Pennings JL, Opperhuizen A, **van den Brom CE**, Kohl T, Franssen-van Hal NL, Hoebee B. Adipose gene expression response of lean and obese mice to short-term dietary restriction.

Obesity (2006), 14(6): 974-979

Papers in preparation

Koning NJ, de Lange F, **van den Brom CE**, Shelep I, Bogaards SJ, Niessen HW, Baufreton C, Boer C. Hemodilution and extracorporeal circulation induce distinct alterations in microcirculatory perfusion and heterogeneity in a rat model of cardiopulmonary bypass.

Duvekot A, Viersen VA, Dekker SE, **van den Brom CE**, Geeraedts jr. LMG, Loer SA, Schober P, de Waard MC, Spoelstra A, Boer C. Hyperfibrinolysis in out-of-hospital cardiopulmonary arrest is more prevalent in patients with low cerebral tissue oxygenation during cardiopulmonary resuscitation.

van den Brom CE, Boer C, van den Akker RFP, Loer SA, Bouwman RA. Western diet modulates the susceptibility of the heart to ischemic injury and sevoflurane-induced cardioprotection in rats.

Lamberts RR*, **van den Brom CE***, Vlasblom R, Duijst S, Loer SA, Boer C, Diamant M, Bouwman RA. Diet composition modulates resistance to ischemia and sevoflurane induced preconditioning in the rat heart.

Overmars MAH, Koning NJ, **van den Brom CE**, van Bezu J, Vonk ABA, van Nieuw Amerongen GP, Boer C. In vitro endothelial cell barrier function decreases after exposure to plasma from patients subjected to cardiopulmonary bypass.

Published abstracts

van den Brom CE, Boer C, van den Akker RFP, Loer SA, Bouwman RA. Western diet modulates the susceptibility of the heart to ischemic injury and sevoflurane-induced cardioprotection in rats.

Nederlands tijdschrift voor Anesthesiologie (2013)

van den Brom CE, Boly CA, Bulte CSE, van den Akker RFP, Loer SA, Boer C, Bouwman RA. Sevoflurane additionally impairs myocardial function, but not myocardial perfusion in diet-induced prediabetic rats.

Nederlands tijdschrift voor Anesthesiologie (2013)

van den Brom CE, Boer C, van den Akker RFP, Loer SA, Bouwman RA. Western diet feeding protects against myocardial ischaemic injury, but abolishes sevoflurane-induced cardioprotection in rats.

European Journal of Anaesthesia (2013)

van den Brom CE, Boer C, van den Akker RFP, Loer SA, Bouwman RA. Changing diet composition normalizes sevoflurane-induced impaired cardiac function in diabetic rats.

Nederlands tijdschrift voor Anesthesiologie (2012)

van den Brom CE, Bulte CSE, Voogdt C, Kloeze BM, Loer SA, Boer C, Bouwman RA. Short-term reduction of saturated fatty acids improves glucose tolerance, myocardial structure and function in western diet-induced obesity.

Anesthesiology (2011)

Bouwman RA, Bulte CSE, Loer SA, Boer C, **van den Brom CE**. High fat diet feeding impairs myocardial function during stress, but not during sevoflurane anesthesia.

Anesthesiology (2011)

van den Brom CE, Bulte CSE, Loer SA, Boer C, Bouwman RA. Western diet feeding impairs myocardial function during stress, but not during sevoflurane anesthesia.

Nederlands tijdschrift voor Anesthesiologie (2011)

van den Brom CE, Bouwman RA, Gräler MH, Ouwens DM, Diamant M, Boer C. Reversion of high-fat diet normalizes myocardial function and sphingolipid levels.

Nederlands tijdschrift voor Anesthesiologie (2010)

Bouwman RA, **van den Brom CE**, Loer SA, Boer C, Lamberts RR. Diet composition modulates sevoflurane induced cardioprotection in the rat heart.
Anesthesiology (2009)

Huisman MC, **van den Brom CE**, Buijs FL, Molthoff CFM, Boellaard R, Lammertsma AA. Implementation of Physiological Gating on the High Resolution Research Tomograph.
Nuclear Science Symposium Conference Record (2008): 4767-4769

Bouwman RA, **van den Brom CE**, Loer SA, Boer C, Lamberts RR. Sevoflurane-induced cardioprotection in a rat model of high-fat diet-induced type 2 diabetes mellitus.
European Journal of Anaesthesia (2008); 25 [Supl 44]: 4AP6-3

Bouwman RA, **van den Brom CE**, Vlasblom R, Loer SA, Boer C, Diamant M, Lamberts RR. Cardioprotection and dietary intake in a rat model of diet-induced type 2 diabetes mellitus.
Nederlands tijdschrift voor Anesthesiologie (2008)

Ouwens DM, **van den Brom CE**, Kriek J, Schaart G, Hesselink MK, Schrauwen P, Vlasblom R, Diamant M. Dietary fish-oil preserves cardiac contractile function by upregulation of UCP3 in a rat model of high-fat diet-induced glucose tolerance and cardiomyopathy.
Diabetologia (2007); 50 [Suppl1]: S90 (P-0206)

van den Brom CE, Vlasblom R, Kriek J, Rietdijk A, Duijst S, Salic K, Ouwens DM, Diamant M. High fat diet-induced relocation of CD36 to the sarcolemma precedes cardiac dysfunction and associates with activated PKB/AKT.
Nederlands tijdschrift voor diabetes (2007)

Vlasblom R, **van den Brom CE**, Salic K, Kriek J, Boer C, Ouwens DM, Diamant M. Western-type diet-induced cardiac contractile dysfunction is associated with nutrient-specific cardiomyocyte remodeling and activation of the Akt-regulated transcription factor GATA-4 in mice.
Nederlands tijdschrift voor diabetes (2007)

Salic K, **van den Brom CE**, Vlasblom R, Kriek J, Schaart G, Hesselink MK, Schrauwen P, Ouwens DM, Diamant M. Myocardial contractile function is preserved by dietary fish-oil supplementation through upregulation of UCP3 in a rat model of high-fat diet-induced impaired glucose tolerance and cardiomyopathy.
Nederlands tijdschrift voor diabetes (2007)

van den Brom CE, Vlasblom R, Fodor M, Boer C, Ouwens DM, Diamant M. Short-term exposure to polyunsaturated high fat diet preserves cardiac contractile function in rats.

Diabetologia (2006) 49: [Suppl1] 326(P-0534)

Vlasblom R, Ouwens DM, **van den Brom CE**, Boer C, Diamant M. In wild type mice long-term exposure to high-fat diet induces systemic insulin resistance without affecting cardiac function.

Diabetologia (2006) 49: [Suppl1] 327

Vlasblom R, Ouwens DM, **van den Brom CE**, Boer C, Diamant M. Long-Term Exposure to High-Fat Diet Induces Systemic Insulin Resistance without Affecting Cardiac Function in Wild Type Mice.

Diabetes (2006) 55: [Suppl 1] A338

Vlasblom R, Ouwens DM, **van den Brom CE**, Fodor M, Boer C, Diamant M. Short Term Exposure to a High-Fat Diet Results in Impaired Glucose Tolerance, Cardiac Dysfunction and Epicardial Fat Accumulation in Rats.

Diabetes (2006) 55: [Suppl 1] A338

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