

Non-invasive assessment of arterial remodelling in arteriovenous fistulas for hemodialysis

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**STELLINGEN
BEHORENDE BIJ HET PROEFSCHRIFT**

**NON-INVASIVE ASSESSMENT OF ARTERIAL
REMODELLING IN ARTERIOVENOUS
FISTULAS FOR HEMODIALYSIS**

Ruben Dammers
27 november 2003, Maastricht

1. The autogenous radial-cephalic wrist access for hemodialysis is an attractive model for the observation of human *in vivo* vascular adaptation and remodelling. (Present thesis)
2. Dedicated ultrasound systems can be applied to reproducibly determine wall shear rates in a small caliber artery with minor distension such as the brachial artery. (Present thesis)
3. Patients with end-stage renal disease have a thicker brachial artery wall and a 50% lower brachial artery shear stress than healthy subjects. (Present thesis)
4. p21^{WAF1} is a negative regulator of intimal hyperplasia in arteriovenous fistulas and poses a new therapeutical target. (Present thesis)
5. In patients with an asymptomatic abdominal aortic aneurysm serum *hsCRP* is associated with aneurysm size, underscoring the inflammatory nature of abdominal aortic aneurysms. (Vainas T, et al. *Circulation* 2003;107:1103-1105)
6. The “endothelium-dependent” flow-mediated dilation test is not a viable test for endothelial dysfunction.
7. A journal’s impact factor does NOT measure the value of a specific article or author published in that journal. (Seglen PO. *BMJ* 1997;314(7079):498-502)
8. The most exciting phrase to hear in science, the one that heralds new discoveries, is not “Eureka!”, but “That’s funny ...” (Isaac Asimov, 1920-1992)
9. Autologous grafting in the CNS using astrocytes, derived from the cortex of adult patients, combined with the use of stable expression vectors may provides a powerful tool to treat various severe diseases and trauma of the CNS.
10. Maybe the time is right to recognise and acknowledge the diversity of men, instead of forcedly striving for the illusion of unity.
11. **THIS** is what a PhD-student must do to earn a hamburger.

1. De radio-cephale AVF voor hemodialyse vaattoegang is een attractief model om in de mens *in vivo* vasculaire aanpassing en remodelering te observeren. (Dit proefschrift)
2. Gespecialiseerde ultrageluidapparatuur kan reproduceerbaar gebruikt worden om de wall shear rate te bepalen in een kleine musculaire arterie, zoals de a. brachialis. (Dit proefschrift)
3. Patiënten met nierfalen hebben een dikkere a. brachialiswand en een 50% lagere a. brachialis shear stress, vergeleken met gezonde individuen. (Dit proefschrift)
4. p21^{WAF1} gaat de vorming van intima hyperplasie in arteriovenueze fistels tegen en biedt nieuwe therapeutische mogelijkheden. (Dit proefschrift)
5. Serum *hsCRP* is gerelateerd aan aneurysmagrootte bij patiënten met een asymptomatisch aneurysma van de aorta abdominalis, wat de inflammatoire aard van het aneurysma aortae abdominalis onderstreept. (Vainas T, et al. *Circulation* 2003;107:1103-1105)
6. De “endotheel-afhankelijke” bloedstroom-gemedieerde dilatatie-test is geen betrouwbare methode om endotheelcelfunctie te beoordelen.
7. De impact factor van een tijdschrift meet GEENSZINS de waarde van een specifiek artikel of auteur die in dat tijdschrift publiceert. (Seglen PO. *BMJ* 1997;314(7079):498-502)
8. De opwindendste zin die je in de wetenschap kunt horen, diegene die nieuwe ontdekkingen inluit, is niet “Eureka!”, maar “Da’s gek ...” (Isaac Asimov, 1920-1992)
9. Autoloog transplanteren van astrocyten, geoogst uit de cortex van volwassen patiënten, in het CZS, gecombineerd met stabiele vectoren, kan een krachtig wapen zijn om verschillende ziekten en traumata van het CZS te behandelen.
10. Misschien is het tijd om de diversiteit van de mens te herkennen en erkennen i.p.v. geforceerd de illusie van een eenheid na te streven.
11. **DIT** moet een AiO doen om een hamburger te verdienen.