

EMC COEUR-09 - Cardiovascular Research School Erasmus MC Rotterdam.***Programme (brief description)*****1. Cardiovascular Biology and Pharmacology**

Molecular basis, pathophysiology and therapy of obstructive coronary artery disease, cardiac and coronary remodelling and heart failure

2. Vascular Medicine Hemostasis and Stroke

The clinical complement to the previous theme. Cardiovascular genetics, blood pressure regulation and vascular medicine, thrombotic and bleeding disorders, acute and chronic cardiovascular disease

3. Image-guided Cardiovascular Medicine

Fundamental and clinical research of novel diagnostic imaging modalities

4. Surgical- Interventional and Device Therapy of Cardiovascular Disease

Clinical application and implementation of new diagnostic and therapeutic techniques.

Local drug delivery cell therapy vascular interventions and other device therapy

5. Congenital Heart Disease

Small but important theme focussing on major structural congenital cardiac abnormalities and their management

6. Neurovascular and Cardiovascular Clinical Epidemiology

Risk modelling rational, predictive thinking and implementation of appropriate diagnostic and therapeutic measures across a wide range of clinical cardiovascular syndromes and procedures.

Key Figures

<i>Department</i>	<i>Sp1</i>	<i>Sp2</i>	<i>Sp3</i>	<i>Sp4</i>	<i>SpTot</i>	<i>T1</i>	<i>T2</i>	<i>T3</i>	<i>Ttot</i>	<i>IS</i>	<i>FS</i>	<i>OP</i>	<i>Ptot</i>
anesthesiology	2,18	1,47		4,72	8,37								
biostatistics	0,4				0,4								
cardiac surgery	5,1	0,8			5,9								
cardiology	23,6	0,6	0,95	0,5	25,65								
epidemiology	0,2				0,2								
hematology	2,08		1	3,84	6,92								
internal medicine	5,56	1,36	3,88	4,46	15,26								
neurology	3,75	3	1	1	8,75								
radiology	1,58				1,58								
Total	44,45	7,23	6,83	14,52	73,03	32	3	0	35	585	33	10	663

Thesis

Beer, V.J. de. *Vasoconstrictors: a tale of two circulations*. EUR. Prom./coprom.: Prof. Dr. D.J.G.M. Duncker.

Bos, F.L.. *Genetic regulation of angiogenesis and lymphangiogenesis*. EUR. Prom./coprom.: Prof. Dr. D.J.G.M. Duncker & S Schulte-Merker.

Breet, NJ. *Monitoring antiplatelet therapy in patients undergoing percutaneous coronary intervention*. EUR. Prom./coprom.: Prof. Dr. F. Zijlstra.

Bruijne, E.L.E. de (2011, juni 22). *Thrombin activatable fibrinolysis inhibitor in venous and arterial thrombosis*. EUR (151 pag.). Prom./coprom.: Prof. Dr. F.W.G. Leebeek & Dr. M.P.M. de Maat.

Chan, K.Y. (2011, januari 26). *Neurovascular pharmacology of prospective antimigraine drugs*. EUR. Prom./coprom.: Prof. Dr. A.H.J. Danser.

Garg, S.. *Risk stratification in patients undergoing percutaneous coronary revascularization*. EUR. Prom./coprom.: Prof. Dr. P.W.J.C. Serruys.

Gembardt, F. (2011, april 07). *The more complex renin-angiotensin system: new insights into an old system*. EUR. Prom./coprom.: Prof. Dr. A.H.J. Danser.

Golab-Schwarz, H.D.. *Innovations in pediatric cardiopulmonary bypass, a continuous process of quality improvement*. EUR. Prom./coprom.: Prof. Dr. A.J.J.C. Bogers.

Hagelstein, M. (2011, oktober 28). *Word finding deficits in aphasia: diagnosis and treatment*. EUR. Prom./coprom.: Prof. Dr. D.W.J. Dippel & Prof. Dr. P.J. Koudstaal.

Hendriks, J.M. (2011, januari 26). *Carotid artery stenting and endarterectomy*. EUR. Prom./coprom.: Prof. Dr. P.M.T. Pattynama & Prof. Dr. H. van Urk.

Herik, E.G. van den (2011, december 06). *Genetic and hemostatic risk factors for stroke*. EUR. Prom./coprom.: Prof. Dr. P.J. Koudstaal & Dr. L.M.L. de Lau.

Hermanides, R.S.. *Adverse outcomes after primary PCI*. EUR. Prom./coprom.: Prof. Dr. F. Zijlstra.

Hoek, M. van (2011, juni 16). *Genetics of type 2 diabetes: association, interaction, prediction*. EUR. Prom./coprom.: Prof. Dr. E.J.G. Sijbrands.

Houwelingen, M.J. van. *What's in a wave?* EUR. Prom./coprom.: Prof. Dr. D.J.G.M. Duncker & A.P.G. Hoeks.

Kappers, M.H.W. (2011, november 30). *Cardiovascular, renal and thyroid toxicity during angiogenesis inhibition*. EUR. Prom./coprom.: Prof. Dr. A.H.J. Danser & A.H. van den Meiracker.

Kirschbaum, S.W.M.. *Cardiac magnetic resonance imaging in ischemic heart disease*. EUR. Prom./coprom.: Prof. Dr. P.J. de Feyter, Prof. Dr. G.P. Krestin & Dr. R.J.M. van Geuns.

Kooiman, K.. *Therapeutic bubbles*. EUR. Prom./coprom.: Prof. Dr. Ir. N. de Jong & Prof. Dr. Ir. A.F.W. van der Steen.

Kukreja, N.. *Long-term clinical safety and efficacy of drug-eluting stents in real-world patients*. EUR. Prom./coprom.: Prof. Dr. P.W.J.C. Serruys.

Kuster, D.W.D. (2011, december 14). *Regulation of cardiac hypertrophy: the nuclear option*. EUR. Prom./coprom.: Prof. Dr. D.J.G.M. Duncker & Dr. A.J.M. Verhoeven.

Liefde, I.I. de (2011, februari 09). *The impact of exercise capacity in the atherosclerotic patient; keep on walking*. EUR (159 pag.). Prom./coprom.: Prof. Dr. D. Poldermans.

Lier, F. van (2011, januari 26). *Thromboembolic events in the perioperative period*. EUR (144 pag.). Prom./coprom.: Prof. Dr. D. Poldermans.

Maasland, E. (2011, januari 12). *Improving stroke care*. EUR. Prom./coprom.: Prof. Dr. D.W.J. Dippel & Prof. Dr. P.J. Koudstaal.

Mees, B.M.E. (2011, juni 01). *Just say NO*. EUR. Prom./coprom.: Prof. Dr. H. van Urk & Dr. J.F. Hamming.

Michels, M. (2011, januari 14). *Hypertrophic cardiomyopathy: pathophysiology genetics and invasive treatment*. EUR (231 pag.). Prom./coprom.: Prof. Dr. M.L. Simoons & Prof. Dr. B.A. Oostra.

Moltzer, E. (2011, maart 23). *Aortic pathology and the role of the renin-angiotensin system*. EUR. Prom./coprom.: Prof. Dr. A.H.J. Danser & Prof. Dr. J.W. Roos-Hesselink.

Oosterveer, D.M. (2011, september 14). *Clinical genetics of familial hypercholesterolemia: etiology of xanthoma and coronary heart disease*. EUR. Prom./coprom.: Prof. Dr. E.J.G. Sijbrands.

Piazza, N.. *Transcatheter aortic valve implantation; from experiment to clinical practice and beyond*. EUR. Prom./coprom.: Prof.Dr. P.W.J.C. Serruys.

Schrijvers, E.M.C. (2011, september 30). *Biomarkers and risk factors of dementia*. EUR. Prom./coprom.: Prof. Dr. M.M.B. Breteler & Prof. Dr. P.J. Koudstaal.

Scohy, T.V. (2011, oktober 28). *Peri-operative anesthetic innovations during pediatric cardiac surgery*. EUR (120 pag.). Prom./coprom.: Prof. Dr. A.J.J.C. Bogers & Prof. Dr. J. Klein.

Segers, D. (2011, november 23). *Atherosclerotic plaque vulnerability in experimental models of atherosclerosis*. EUR. Prom./coprom.: Prof. Dr. Ir. A.F.W. van der Steen & Dr. R. Krams.

Seventer, R Van (2011, juni 16). *Naropathic pain, back to the patient*. EUR. Prom./coprom.: Prof. Dr. F.J.P.M. Huygen.

Tzikas, A.. *The role of advanced imaging in transcatheter aortic valve implantation*. EUR. Prom./coprom.: Prof.Dr. P.W.J.C. Serruys.

Wee, E.M. de (2011, oktober 26). *Von Willebrand Disease in the Netherlands*. EUR (142 pag.). Prom./coprom.: Prof. Dr. F.W.G. Leebeek.

Wykrzykowska, J.J.. *Percutaneous treatment of complex lesions & patients*. EUR. Prom./coprom.: Prof.Dr. P.W.J.C. Serruys.

Zwaan, H.B. van der. *Right ventricular assessment by real-time three-dimensional echocardiography in congenital heart disease*. EUR. Prom./coprom.: Prof. Dr. J.W. Roos-Hesselink & Prof. Dr. W.A. Helbing.

Presentation - Speech

Maat, A.P.W.M., Burger, P., Geilvoet, W. & Bogers, A.J.J.C. (2011, april 07). *Cervicale benadering van retrosternale bijschildklier adenomen*. onbekend, 3e lustrum NVvL nederlandse Vereniging voor Longchirurgie.

Maat, A.P.W.M. (2011, februari 17). *Crepiteren of transplanteren: Harttransplantatie en assist devices*. Maastricht, 25e LVO congres 2011 landelijke Vereniging van operatieassistenten.

Maat, A.P.W.M., Paleru, C, Ven, C.P. van de, Groothuis, I., Rietema, F.J. & Bogers, A.J.J.C. (2011, april 07). *Een geval van gedissimineerde echinococcose in de linker pleura holte*. onbekend, 3e Lustrum NVvL Nederlandse Vereniging voor Longchirurgie.

Article/Letter to the editor

Adan, I., Bekkers, J., Dellaert, N.P., Jeunet, J. & Vissers, J.M.H. (2011). Improving operational effectiveness of tactical master plans for emergency and elective patients under stochastic demand and capacitated resources. *European Journal of Operational Research*, 213, 290-308.

Agarwal, S., Cappellen, W.A. van, Guenole, A, Eppink, B., Linsen, SEV, Meijering, H.W., Houtsmuller, A.B., Kanaar, R. & Essers, J. (2011). ATP-dependent and independent functions of Rad54 in genome maintenance. *Journal of Cell Biology*, 192(5), 735-750.

Akyildiz, A.C., Speelman, L., Brummelen, H van, Gutierrez, MA, Virmani, R., Lugt, A. van der, Steen, A.F.W. van der, Wentzel, J.J. & Gijssen, F.J.H. (2011). Effects of intima stiffness and plaque morphology on peak cap stress. *Biomedical Engineering OnLine*, 10.

Alkemade, A, Friesema, E.C.H., Kalsbeek, A, Swaab, DF, Visser, T.J. & Fliers, E. (2011). Expression of Thyroid Hormone Transporters in the Human Hypothalamus. *Journal of Clinical Endocrinology and Metabolism*, 96(6), E967-E971.

Amoroso, G, Geuns, R.J.M. van, Spaulding, C, Manzo-Silberman, S, Hauptmann, KE, Spaargaren, R, Garcia Garcia, H.M., Serruys, P.W.J.C. & Verheye, S. (2011). Assessment of the safety and performance of the STENTYS self-expanding coronary stent in acute myocardial infarction: results from the APPOSITION I study. *EuroIntervention*, 7(4), 428-436.

Anne, W, Schwagten, B.K.R., Janse, P, Bauernfeind, T., Belle, Y. van, Groot, N. de, Knops, P., Jordaens, L.J.L.M. & Szili-Torok, T. (2011). Flutter ablation with remote magnetic navigation: comparison between the 8-mm tip, the irrigated tip and a manual approach. *Acta Cardiologica*, 66(3), 287-292.

Arko, FR, Jordan, WD, Robaina, S, Arko, MZ, Fogarty, TJ, Makaroun, MS & Verhagen, H.J.M. (2011). Interdisciplinary and Translational Innovation: The Endurant Stent Graft ... From Bedside to Benchtop and Back to Bedside. *Journal of Endovascular Therapy*, 18(6), 779-785.

Asperen, RM Wosten-van, Lutter, R, Specht, P.A.C., Moll, GN, Woensel, JB van, Loos, C.M. van der, Goor, H. van, Kamilic, J, Florquin, S & Bos, A.P. (2011). Acute respiratory distress syndrome leads to reduced ratio of ACE/ACE2 activities and is prevented by angiotensin-(1-7) or an angiotensin II receptor antagonist. *Journal of Pathology*, 225(4), 618-627.

Auwerda, J.J.A., Yuana, Y, Osanto, S., Maat, M.P.M. de, Sonneveld, P., Bertina, R.M. & Leebeek, F.W.G. (2011). Microparticle-associated tissue factor activity and venous thrombosis in multiple myeloma. *Thrombosis and Haemostasis*, 105(1), 14-20.

Baka, N., Metz, C.T., Schaap, M., Lelieveldt, B.P.F., Niessen, W.J. & Bruijne, M. de (2011). Comparison of shape regression methods under landmark position uncertainty. *Medical Image Computing and Computer-Assisted Intervention*, 14, 434-441.

Bakker, E.J., Ravensbergen, NJ, Voute, M.T., Hoeks, S.E., Chonchol, M, Klimek, M. & Poldermans, D. (2011). A Randomised Study of Perioperative Esmolol Infusion for Haemodynamic Stability during Major Vascular Surgery; Rationale and Design of DECREASE-XIII. *European Journal of Vascular and Endovascular Surgery*, 42(3), 317-323.

Bakker, E.J., Ravensbergen, N.J.C. & Poldermans, D. (2011). Perioperative cardiac evaluation, monitoring, and risk reduction strategies in noncardiac surgery patients. *Current Opinion in Critical Care*, 17(5), 409-415.

Baks, T., Galema, T.W., Bakker, J. & Kofflard, M.J.M. (2011). A rare case of massive papillary fibroelastoma of the right ventricular free wall. *Netherlands Journal of Medicine*.

Balci, A, Sollie, KM, Mulder, B.J.M., Laat, MWM de, Roos-Hesselink, J.W., Dijk, APJ van, Wajon, EMCJ, Vliegen, H.W., Drenthen, W, Hillege, H.L., Aarnoudse, JG, Veldhuisen, D.J. & Pieper, P.G. (2011). Associations between cardiovascular parameters and uteroplacental Doppler (blood) flow patterns during pregnancy in women with congenital heart disease: Rationale and design of the Zwangerschap bij Aangeboren Hartafwijking (ZAHARA) II study. *American Heart Journal*, 161(2), 269-U449.

Balci, A, Drenthen, W, Mulder, B.J.M., Roos-Hesselink, J.W., Voors, AA, Vliegen, H.W., Moons, P., Sollie, KM, Dijk, APJ van, Veldhuisen, D.J. & Pieper, P.G. (2011). Pregnancy in women with corrected tetralogy of Fallot: Occurrence and predictors of adverse events. *American Heart Journal*, 161(2), 307-313.

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Bastos Goncalves, F.M., Koek, M., Verhagen, H.J.M., Niessen, W.J. & Poldermans, D. (2011). Body-mass index, abdominal adiposity, and cardiovascular risk. *Lancet (UK)*, 378(9787), 227-227.

Bastos Goncalves, F.M., Vries, JPPM de, Keulen, JW van, Dekker, H., Moll, F.L., Herwaarden, JA van & Verhagen, H.J.M. (2011). Severe Proximal Aneurysm Neck Angulation: Early Results Using the Endurant Stentgraft System. *European Journal of Vascular and Endovascular Surgery*, 41(2), 193-200.

Batenburg, W.W., Lu, XF, Leijten, F, Maschke, U, Muller, DN & Danser, A.H.J. (2011). Renin- and Prorenin-Induced Effects in Rat Vascular Smooth Muscle Cells Overexpressing the Human (Pro)Renin Receptor Does (Pro)Renin-(Pro)Renin Receptor Interaction Actually Occur? *Hypertension*, 58(6), 1111-1119.

Bauer, T, Mollmann, H, Weidinger, F, Zeymer, U., Seabra-Gomes, R., Eberli, F, Serruys, P.W.J.C., Vahanian, A., Silber, S., Wijns, W., Hochadel, M, Nef, HM, Hamm, C.W., Marco, J. & Gitt, A.K. (2011). Impact of Diabetes Mellitus Status on Coronary Pathoanatomy and Interventional Treatment: Insights From the Euro Heart Survey PCI registry. *Catheterization and Cardiovascular Interventions*, 78(5), 702-709.

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