



RAPPORT D'ACTIVITÉ ANNUEL 2009

SERVICE DE CARDIOLOGIE
DÉPARTEMENT DE MÉDECINE INTERNE

HUG  
Hôpitaux Universitaires de Genève



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 (HUG) Mr Stéphane BOUCHET (80% de janv à sept) (HUG)
 (HUG) Mr Jacques LYVET (80% oct+ nov puis 100% décembre) (HUG)

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Maitres-assistant

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LA CARDIOLOGIE EN CHIFFRES



UNITE DE SOINS	2008	2009
- Patients admis en Cardiologie	1383	-
Unité 6-AL	1091	1160
Unité 8-CL	292	344
- Electrocardiogrammes à l'Unité 6-AL	3273	2400
CONSULTATIONS INTRAHOSPITALIERES	2008	2009
- Consultations hospitalières dans d'autres services	4745	4607
- Consultations (nombre de patients)	5950	5579
CONSULTATIONS AMBULATOIRES	2008	2009
- Consultations ambulatoires: total	1225	-
Consultations des cardiopathies congénitales à l'âge adulte	75	-
LABORATOIRE D'ECHOCARDIOGRAPHIE	2008	2009
- Echocardiogrammes : total	6052	6418
transthoraciques	5223	5568
transoesophagiens	666	663
effort	153	177
contraste / intracardiaques	10	10
LABORATOIRE DE TEST D'EFFORT, TILT- EST, SCINTIGRAPHIE MYOCARDIQUE AU THALLIUM, VENTRICULOGRAPHIE	2008	2009
- Ergométries (vélo ou tapis roulant)	843	671
- Tilt- ests	112	99
- Ventriculographies isotopiques	43	78
- Scintigraphies myocardiques au thallium-201	974	855
couplées à stress physique (vélo couché) uniquement	322	336
couplées à stress pharmacologique + physique	652	519
READAPTATION CARDIAQUE	2008	2009
- Patients pris en charge pour une réhabilitation cardiaque ambulatoire (Phase II)	115	147

SALLES DE CATHETERISME	2008	2009
- Patients investigués ou traités en salle de cathétérisme	2169	2347
- Coronarographies	1440	1502
- Angioplasties coronaires percutanées, stents et/ou athérectomies	741	797
- Valvuloplasties mitrales et/ou aortiques et/ou pulmonaires	2	11
- Contrepulsions aortiques	49	45
- Remplacement valvulaire aortique percutané		13
- Interventions congénitales diverses (CIA, FOP, canal artériel, etc.)	24	24

LABORATOIRE D'ELECTROPHYSIOLOGIE	2008	2009
a) Electrophysiologie non invasive :		
- Enregistrements ECG de 24 h.	1727	1659
- Contrôles de stimulateurs cardiaques	2121	2108
- Contrôles des porteurs de défibrillateurs	614	677
b) Electrophysiologie invasive :		
- Enregistrements électrophysiologiques endocavitaires et/ou overdrives	39	29
- Ablations par radiofréquence	249	276
c) Implantation de pacemakers et de défibrillateurs :		
- Implantations de pacemakers provisoires	14	16
primo-implantations	190	173
changements de boîtiers	89	67
- Implantations de cardioverters-défibrillateurs		
primo-implantations	60	70
remplacements	21	19

GEcor



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Encourager la recherche et les échanges scientifiques dans le domaine des maladies cardiovasculaires, au bénéfice de la Division de la Cardiologie des Hôpitaux Universitaires de Genève (HUG), de ses activités cliniques et de ses différents laboratoires de recherche.



ENSEIGNEMENT

Enseignement prégradué

Unité d'enseignement	Activité d'enseignement	Année	Jour	Nombre d'heures
Cours cas de liaison	Athérosclérose	Première		8
Cœur et Circulation	Circulation 2	Deuxième	25.02.2009	2
Cœur et Circulation	Circulation 4	Deuxième	06.03.2009	2
Station Formative 2		Deuxième	11.05.2009	2
Station Formative 2		Deuxième	15.05.2009	4
Unité de synthèse du Module 2	CC Intégration 1	Deuxième	29.05.2009	4
Station Formative 2		Deuxième	02.06.2009	2
Unité d'Introduction à la Démarche Clinique (UIDC)	CC –auscultation cardiaque	Quatrième	09.10.2009	1
Unité d'Introduction à la Démarche Clinique (UIDC)	CC –auscultation cardiaque	Quatrième	14.10.2009	2
AMC médecine	ARC	Quatrième	26.10.2009	1.5
AMC médecine	ARC	Quatrième	28.10.2009	1.5
AMC médecine	PDCE	Quatrième	30.10.2009	1.5

Enseignement postgradué

Hebdomadaire

Colloque du service d'anesthésie des HUG
 Colloque des médecins internes HUG (Lundi matin)
 Colloque d'imagerie (2 x mois)
 Colloque hebdomadaire avec les médecins de ville (jeudi matin)

Enseignement postgradué

Présentation en dehors des HUG et à des symposia

Carotid artery stenting under fire. Web-conference to the catheterization laboratories weekly conference, Washington Heart Center, Washington, USA, December 2, 2009.

Carotid artery stenting vs. Endarterectomy, Cardiology Grand Rounds, County Hospital, St. Gallen, November 20, 2009.

Revascularisation coronarienne chez le patient diabétique : stents, pontage, ou traitement médical ? Colloque Hebdomadaire de Cardiologie, HUG, Genève, November 5, 2009.

Thérapie anti-plaquettaire avec prasugrel chez les patients diabétiques et avec STEMI, Prasugrel Lunch Symposium, Lausanne, October 28, 2009.

Terapia anti-trombotica nella sindrome coronarica acuta, Simposio sulla Sindrome Coronarica Acuta, Lugano, October 15, 2009.

Implantation de valve aortique par voie transfémorale. Symposium romand pour médecins confrontés a des patients atteints de pathologie valvulaire, Coppet, October 8, 2009.

Transfemoral aortic valve implantation, Gaziantep Symposium organized by the Turkish Society of Cardiovascular Surgery and the Turkish National Society of Vascular Surgery, Gaziantep, Turkey, October 3, 2009.

Postprocedural care of patients undergoing coronary and carotid stent implantation, Hôpital de Porrentruy, Porrentruy, October 1, 2009.

Complications following percutaneous aortic valve implantation: a case presentation. Transcatheter Cardiovascular Therapeutics (TCT) , San Francisco, USA, September 23, 2009.

Coronary revascularization in the diabetic patient: choosing the best treatment. European Society of Cardiology Annual Scientific Session, Barcelona, Spain, September 1, 2009

Acute carotid syndromes: pathophysiology and definition. European Society of Cardiology Annual Scientific Session, Barcelona, Spain, August 31, 2009

Diabetic patients need more than just stents or grafts. European Society of Cardiology Annual Scientific Session, Barcelona, Spain, August 30, 2009

Management of silent ischemia in the diabetic patients, Cordis Satellite Workshop, European Society of Cardiology Annual Scientific Session, Barcelona, Spain, August 30, 2009.

Revascularization in diabetic patients with multivessel disease: stents or surgery, Annual Scientific Session, Swiss Society of Cardiology, Lausanne, June 12, 2009.

Carotid artery stenting: state-of-the art and own experience, Workshop "Best Practice in Carotid Disease Treatment", Porto, Portugal, June 3, 2009.

Unresolved / poorly addressed issues in carotid interventions, Euro PCR, Barcelona, Spain, May 21, 2009.

Hyperperfusion syndrome post carotid artery stenting: a case-based discussion, Euro PCR, Barcelona, Spain, May 21, 2009.

Still room for glycoprotein IIb/IIIa blockers in acute coronary syndromes? 11th International Symposium on Antithrombotic Management in Acute Coronary Syndromes, Madrid, Spain, May 8 2009.

Percutaneous closure of patient foramen ovale: is there a controversy? 23rd Annual Cardiology Meeting of West Switzerland, Morges, April 30, 2009.

Cardiology update for intensive care specialists. Postgraduate Training in Intensive Care Medicine of Southern Switzerland, Ospedale Beata Vergine, Mendrisio, April 9, 2009.

Unresolved and poorly addressed issues in carotid artery stenting, 58th Annual Scientific Session, American College of Cardiology, Orlando, USA, March 30, 2009.

How to identify the high risk patient for coronary revascularization: a case-based discussion, 18th International Postgraduate Course on Cardiovascular Disease, Davos, February 19, 2009.



PUBLICATIONS

Prof. F. Mach

Schwartz GG, Olsson AG, Ballantyne CM, Barter PJ, Holme IM, Kallend D, Leiter LA, Leitersdorf E, McMurray JJ, Shah PK, Tardif JC, Chaitman BR, Duttlinger-Maddux R, Mathieson J; dal-OUT-COMES Committees and Investigators. Rationale and Design of the dual-OUTCOMES trial: efficacy and safety of dolcetrabip in patients with recent acute coronary syndromes. *Am Heart J.* 158: 896-901.e3, 2009.

Bonvini RF, Rastan A, Sixt S, Noory E, Beschoner U, Leppanen O, Mach F, Schwarzwälder U, Bürgelin K, Zeller T. Percutaneous retrieval of intravascular and intracardiac foreign bodies with a dedicated three-dimensional snare: A 3-year single center experience. *Catheter Cardiovasc Interv.* 74: 939-45, 2009.

McMurray JJ, Kjekshus J, Gullestad L, Dunselman P, Hjalmarson A, Wedel H, Lindberg M, Waagstein F, Grande P, Hradec J, Kamensky G, Korewicki J, Kuusi T, Mach F, Ranjith N, Wikstrand J; for the CORONA Study Group. Effects of Statin Therapy According to Plasma High-Sensitivity C-Reactive Protein Concentration in the Controlled Rosuvastatin Multinational Trial in Heart Failure (CORONA): A Retrospective Analysis. *Circulation.* 120: 2188-96, 2009.

Montecucco F, Bertolotto M, Ottonello L, Pende A, Dapino P, Quercioli A, Mach F, Dallegri F. Chlorhexidine prevents hypochlorous acid-induced inactivation of alpha-1-antitrypsin (alpha-1-AT). *Clin Exp Pharmacol Physiol.* 36: e72-e77, 2009.

Montecucco F, Bertolotto M, Ottonello L, Quercioli A, Mach F, Dallegri F. Oxapropin-induced apoptosis on CD40 ligand-treated human primary monocytes is associated with the modulation of defined intracellular pathways. *J Biomed Biotechnol.* 2009:478785, 2009.

Giugliano RP, White JA, Bode C, Armstrong PW, Montalescot G, Lewis BS, van 't Hof A, Berdan LG, Lee KL, Strony JT, Hildemann S, Veltri E, Van de Werf F, Braunwald E, Harrington RA, Califf RM, Newby LK; EARLY ACS Investigators. Early versus delayed, provisional eptifibatid in acute coronary syndromes. *N Engl J Med.* 360: 2176-90, 2009.

Vincenti G, Nkoulou R, Steiner C, Imperiano H, Ambrosio G, Mach F, Ratib O, Vallee JP, Schindler TH. Noninvasive stress testing of myocardial perfusion defects: head-to-head comparison of thallium-201 SPECT to MRI perfusion. *J Nucl Cardiol.* 16: 549-61, 2009.

Montecucco F, Matias I, Lenglet S, Petrosino S, Burger F, Pelli G, Braunersreuther V, Mach F, Steffens S, Di Marzo V. Regulation and possible role of endocannabinoids and related mediators in hypercholesterolemic mice with atherosclerosis. *Atherosclerosis.* 205: 433-41, 2009.

Pellegrin M, Alonso F, Aubert JF, Bouzourene K, Braunersreuther V, Mach F, Haefliger JA, Hayoz D, Berthelot A, Nussberger J, Laurant P, Mazzolai L. Swimming prevents vulnerable atheroscle-

rotic plaque development in hypertensive 2-kidney, 1-clip mice by modulating angiotensin II type 1 receptor expression independently from hemodynamic changes. *Hypertension.* 53: 782-9, 2009.

Montecucco F, Lenglet S, Braunersreuther V, Burger F, Pelli G, Bertolotto M, Mach F, Steffens S. CB(2) cannabinoid receptor activation is cardioprotective in a mouse model of ischemia/reperfusion. *J Mol Cell Cardiol.* 46: 612-20, 2009.

Calmy A, Gayet-Ageron A, Montecucco F, Nguyen A, Mach F, Burger F; Ubolyam S; Carr A, Ruxungham K, Hirschel B, Ananworanich J. HIV increases cardiovascular risk markers in a randomized, treatment interruption trial (STACCATO). *AIDS.* 23: 929-39, 2009.

Montecucco F, Burger F, Pelli G, Kwabena Poku N, Berlier C, Steffens S, Mach F. Statins inhibit CRP-induced chemokine secretion, ICAM-1 expression and chemotaxis in adherent human monocytes. *Rheumatology.* 48: 233-42, 2009

Montecucco F, Quercioli A, Mach F. Ezetimibe/simvastatin. *Expert Opin Drug Saf.* 8: 715-25, 2009.

Quercioli A, Montecucco F, Mach F. Update on the Treatments of Non-Alcoholic Fatty Liver Disease (NAFLD). *Cardiovasc Hematol Disord Drug Targets.* 9: 261-70, 2009.

Meyer P, Kayser B, Mach F. Stair use for cardiovascular disease prevention. *Eur J Cardiovasc Prev Rehabil.* 16 Suppl 1: S17-8, 2009.

Steffens S, Montecucco F, Mach F. The inflammatory response as a target to reduce myocardial ischemia and reperfusion injury. *Thromb Haemost.* 102: 240-7, 2009.

Yerly P, Mach F, Kalangos A, Rotman S, von Segesser L, Vogt P, Hullin R, Pascual M. Monitoring and adjustment of immunosuppression after the heart transplantation. *Rev Med Suisse.* 5: 1214-6, 1218-20, 2009.

Luya Schmidt A, Mach F. Takotsubo syndrome: myth or reality? *Rev Med Suisse.* 5: 1184, 1186-8, 1190-2 passim, 2009.

Roffi M, Pereira V, San MD, Bonvini RF, Keller PF, Mach F, Lovblad KO. Carotid stenting: an alternative to surgery? *Rev Med Suisse.* 2009 5: 1177-80, 1182-3, 2009.

Vogt P, Mach F. Cardiology-trends. *Rev Med Suisse.* 5: 1163-4, 2009.

Mach F. Ivabradine, an I(f) current inhibitor--new treatment options in coronary heart disease. *Rev Med Suisse.* 5: 1168-70, 1172-3, 2009.

Montecucco F, Mach F. Update on statin-mediated anti-inflammatory activities in atherosclerosis. *Semin Immunopathol.* 31: 127-142, 2009.

Montecucco F, Mach F. ACE-inhibitors and ARB in cardiovascular disease. *Best Pract Res Clin Endocrinol Metab.* 23: 389-400, 2009.

Montecucco F, Mach F. Update on therapeutic strategies to increase adiponectin function and secretion in metabolic syndrome. *Diabetes, Obesity and Metabolism.* 11: 445-454, 2009.

Bonvini RF, Reny JL, Mach F, Zeller T, Fontana P. Acute coronary syndrome and its antithrombotic treatment: focus on aspirin and clopidogrel resistance. *Curr Vasc Pharmacol.* 7: 198-208, 2009.

Lévy P, Pépin JL, Arnaud C, Baguet JP, Dematteis M, Mach F. Obstructive sleep apnea and atherosclerosis. *Prog Cardiovasc Dis.* 51: 400-10, 2009.

Montecucco F, Mach F. Therapeutic approaches for reducing C-reactive protein (CRP) levels and the associated cardiovascular risk. *Current Chemical Biology.* 3: 60-64, 2009.

Montecucco F, Pende A, Mach F. The renin-angiotensin system modulates inflammatory processes in atherosclerosis: evidence from basic research and clinical trials. *Mediators Inflamm.* 2009:752406, 2009.

Montecucco F, Mach F. Common inflammatory mediators orchestrate pathophysiological processes in rheumatoid arthritis and atherosclerosis. *Rheumatology.* 48:11-22, 2009.

Mach F, Montecucco F, Steffens S. Effect of blockage of the endocannabinoid system by CB(1) antagonism on cardiovascular risk. *Pharmacol Rep.* 61:13-21, 2009.

Montecucco F, Mach F. Atherosclerosis is an inflammatory disease. *Semin Immunopathol.* 31: 1-3, 2009.

Vuille C, Mach F. Prévention Cardiovasculaire: Moyens Thérapeutiques. Edition Médecine & Hygiène, 2009.

Prof. D. Shah

Shah D. Electrophysiological evaluation of pulmonary vein isolation. *Europace.* 2009 Nov;11(11):1423-33.

Shah DC. Serum markers in predicting atrial fibrillation recurrence after pulmonary vein isolation. *Heart Rhythm.* 2009 Jun;6(6):731-2.

Burri H, Sunthorn H, Zimmermann M, Stettler C, Shah D. Backup right ventricular pacing with a 0.035" guidewire during implantation of left ventricular leads. *Pacing Clin Electrophysiol.* 2009 Mar;32 Suppl 1:S12-5.

Jadidi AS, Sunthorn H, Burri H, Gentil-Baron P, Shah D. Is this atrial fibrillation? *Ann Noninvasive Electrocardiol.* 2009 Jan;14(1):96-8.

Shah D. ECG manifestations of left atrial flutter. *Curr Opin Cardiol.* 2009 Jan;24(1):35-41.

Prof. R. Lerch

Mills P, Timmis A, Huber K, Ector H, Masic I, Ivanusa M, Antoniadis L, Aschermann M, Laucevicius A, Mustonen P, Artigou JY, Vardas P, Stefanadis C, Chiarello M, Bolognese L, Ambrosio G, van der Wall EE, Kułakowski P, Pinto FJ, Apetrei E, Oganov RG, Kamensky G, Lüscher TF, Lerch R, Haouala H, Sansoy V, Shumakov V, Tajer CD, Lau CP, Márquez MF, Krittayaphong R, Arai K, Alfonso F. The role of European National Journals in education. *Arch Cardiol Mex.* 2009 Oct-Dec;79(4):286-9.

Müller H, Sierra J, Lerch R. Mitral valve repair in acute extensive infectious endocarditis. *Arch Cardiovasc Dis.* 2009 Aug-Sep;102(8-9):667-8.

Isidoro Tavares N, Philip-Couderc P, Baertschi AJ, Lerch R, Montessuit C. Angiotensin II and tumour necrosis factor alpha as mediators of ATP-dependent potassium channel remodeling in post-infarction heart failure. *Cardiovasc Res.* 2009 Sep 1;83(4):726-36.

Peyrou J, Saxer-Sekulic N, Lerch R, Müller H. Fast progression of aortic stenosis in rheumatoid arthritis. *Arch Cardiovasc Dis.* 2009 Mar;102(3):251-2.

Müller H, Lerch R. Submitral left ventricular aneurysm presenting as a «strange» mitral valve prolapse. *Arch Cardiovasc Dis.* 2009 Feb;102(2):157-8.

Pellieux C, Montessuit C, Papageorgiou I, Lerch R. Angiotensin II downregulates the fatty acid oxidation pathway in adult rat cardiomyocytes via release of tumour necrosis factor-alpha. *Cardiovasc Res.* 2009 May 1;82(2):341-50.

Prof. M. Beghetti

Tissot C, Beghetti M. Advances in therapies for pediatric pulmonary arterial hypertension. *Expert Rev Respir Med.* 2009 Jun;3(3):265-82.

Farpour-Lambert NJ, Aggoun Y, Marchand LM, Martin XE, Herrmann FR, Beghetti M. Physical activity reduces systemic blood pressure and improves early markers of atherosclerosis in pre-pubertal obese children. *J Am Coll Cardiol.* 2009 Dec 15;54(25):2396-406.

Lador F, Beghetti M, Rochat T. [Early detection and treatment of pulmonary arterial hypertension] *Rev Med Suisse.* 2009 Nov 18;5(226):2317-21.

Beghetti M, Haworth SG, Bonnet D, Barst RJ, Acar P, Fraisse A, Ivy DD, Jais X, Schulze-Neick I, Galiè N, Morganti A, Dingemans



J, Kusic-Pajic A, Berger RM. Pharmacokinetic and clinical profile of a novel formulation of bosentan in children with pulmonary arterial hypertension: the FUTURE-1 study. *Br J Clin Pharmacol*. 2009 Dec;68(6):948-55.

Task Force for Diagnosis and Treatment of Pulmonary Hypertension of European Society of Cardiology (ESC); European Respiratory Society (ERS); International Society of Heart and Lung Transplantation (ISHLT), Galiè N, Hoeper MM, Humbert M, Torbicki A, Vachiery JL, Barbera JA, Beghetti M, Corris P, Gaine S, Gibbs JS, Gomez-Sanchez MA, Jondeau G, Klepetko W, Opitz C, Peacock A, Rubin L, Zellweger M, Simonneau G. Guidelines for the diagnosis and treatment of pulmonary hypertension. *Eur Respir J*. 2009 Dec;34(6):1219-63.

Authors/Task Force Members, Galiè N, Hoeper MM, Humbert M, Torbicki A, Vachiery JL, Barbera JA, Beghetti M, Corris P, Gaine S, Gibbs JS, Gomez-Sanchez MA, Jondeau G, Klepetko W, Opitz C, Peacock A, Rubin L, Zellweger M, Simonneau G; ESC Committee for Practice Guidelines (CPG), Vahanian A, Auricchio A, Bax J, Ceconi C, Dean V, Filippatos G, Funck-Brentano C, Hobbs R, Kearney P, McDonagh T, McGregor K, Popescu BA, Reiner Z, Sechtem U, Sirnes PA, Tendera M, Vardas P, Widimsky P; Document Reviewers, Sechtem U, Al Attar N, Andreotti F, Aschermann M, Asteggiano R, Benza R, Berger R, Bonnet D, Delcroix M, Howard L, Kitsiou AN, Lang I, Maggioni A, Nielsen-Kudsk JE, Park M, Perrone-Filardi P, Price S, Domenech MT, Vonk-Noordegraaf A, Zamorano JL. Guidelines for the diagnosis and treatment of pulmonary hypertension: The Task Force for the Diagnosis and Treatment of Pulmonary Hypertension of the European Society of Cardiology (ESC) and the European Respiratory Society (ERS), endorsed by the International Society of Heart and Lung Transplantation (ISHLT). *Eur Heart J*. 2009 Oct;30(20):2493-537.

Myers PO, Beghetti M, Kalangos A. Biodegradable mitral annuloplasty for congenital ischemic mitral regurgitation. *Thorac Cardiovasc Surg*. 2009 Sep;57(6):363-4.

Beghetti M, Tissot C. Pulmonary arterial hypertension and congenital heart disease: targeted therapies and operability. *J Thorac Cardiovasc Surg*. 2009 Sep;138(3):785-6; author reply 786.

Beghetti M, Tissot C. Pulmonary arterial hypertension in congenital heart diseases. *Semin Respir Crit Care Med*. 2009 Aug;30(4):421-8.

Simonneau G, Robbins IM, Beghetti M, Channick RN, Delcroix M, Denton CP, Elliott CG, Gaine SP, Gladwin MT, Jing ZC, Krowka MJ, Langleben D, Nakanishi N, Souza R. Updated clinical classification of pulmonary hypertension. *J Am Coll Cardiol*. 2009 Jun 30;54(1 Suppl):S43-54.

Adatia I, Beghetti M. Early postoperative care of patients with pulmonary hypertension associated with congenital cardiac disease. *Cardiol Young*. 2009 Jun 3:1-5.

Tissot C, Beghetti M. Review of inhaled iloprost for the control

of pulmonary artery hypertension in children. *Vasc Health Risk Manag*. 2009;5(1):325-31

Delcò C, Beghetti M, Pfister RE. Vagal bradycardia at term. *Acta Paediatr*. 2009 May;98(5):901-3.

Beghetti M, Galiè N. Eisenmenger syndrome a clinical perspective in a new therapeutic era of pulmonary arterial hypertension. *J Am Coll Cardiol*. 2009 Mar 3;53(9):733-40.

Beghetti M. Bosentan in pediatric patients with pulmonary arterial hypertension. *Curr Vasc Pharmacol*. 2009 Apr;7(2):225-33. Adatia I, Beghetti M. Immediate postoperative care. *Cardiol Young*. 2009 May;19 Suppl 1:23-7.

Tapparel C, L'Huillier AG, Rougemont AL, Beghetti M, Barazzone-Argiroffo C, Kaiser L. Pneumonia and pericarditis in a child with HRV-C infection: a case report. *J Clin Virol*. 2009 Jun;45(2):157-60.

Dr. M. Roffi

Camenzind E, Wijns W, Mauri L, Boersma E, Parikh K, Kurowski V, Gao R, Bode C, Greenwood JP, Gershlick A, O'Neill W, Serruys PW, Jorissen B, Steg PG; PROTECT Steering Committee and Investigators. Rationale and design of the Patient Related Outcomes with Endeavor versus Cypher stenting Trial (PROTECT): randomized controlled trial comparing the incidence of stent thrombosis and clinical events after sirolimus or zotarolimus drug-eluting stent implantation. *Am Heart J*. 2009 Dec;158(6):902-909.e5.

Roffi M, Mukherjee D, Clair DG. Carotid artery stenting vs. endarterectomy. *Eur Heart J*. 2009 Nov;30(22):2693-704.

Wallentin L, Becker RC, Budaj A, Cannon CP, Emanuelsson H, Held C, Horrow J, Husted S, James S, Katus H, Mahaffey KW, Scirica BM, Skene A, Steg PG, Storey RF, Harrington RA; PLATO Investigators, Freij A, Thorsén M. Ticagrelor versus clopidogrel in patients with acute coronary syndromes. *N Engl J Med*. 2009 Sep 10;361(11):1045-57.

Greutmann M, Greutmann-Yantiri M, Kretschmar O, Senn O, Roffi M, Jenni R, Luescher TF, Eberli FR. Percutaneous PFO closure with Amplatzer PFO occluder: predictors of residual shunts at 6 months follow-up. *Congenit Heart Dis*. 2009 Jul;4(4):252-7. Falconnet C, Carballo S, Roffi M, Keller PF, Perrenoud JJ. [Acute coronary syndrome: guidelines and geriatrics specificity] *Rev Med Suisse*. 2009 May 20;5(204):1137-8, 1140-2, 1144-7.

Bonvini RF, Rapp F, Roffi M. Percutaneous coronary intervention versus coronary-artery bypass grafting. *N Engl J Med*. 2009 Jun 18;360(25):2674; author reply 2674-5.

Roffi M, Eberli FR. Diabetes and acute coronary syndromes. *Best Pract Res Clin Endocrinol Metab*. 2009 Jun;23(3):305-16.

Roffi M, Eberli FR. Diabetes and the heart: a complex interaction. *Best Pract Res Clin Endocrinol Metab*. 2009 Jun;23(3):vii-viii.

Roffi M, Pereira V, San MD, Bonvini RF, Keller PF, Mach F, Lovblad KO. [Carotid stenting: an alternative to surgery?] *Rev Med Suisse*. 2009 May 27;5(205):1177-80, 1182-3.

Karadag B, Roffi M. Postpartal dissection of all coronary arteries in an in vitro-fertilized postmenopausal woman. *Tex Heart Inst J*. 2009;36(2):168-70.

Roffi M, Mukherjee D. Current role of emboli protection devices in percutaneous coronary and vascular interventions. *Am Heart J*. 2009 Feb;157(2):263-70.

Dr. P.F. Keller

Schoenenberger AW, Radovanovic D, Stauffer JC, Windecker S, Urban P, Niedermaier G, Keller PF, Gutzwiller F, Erne P; For the AMIS Plus Investigators. Acute coronary syndromes in young patients: Presentation, treatment and outcome. *Int J Cardiol*. 2009 Nov 24.

Falconnet C, Carballo S, Roffi M, Keller PF, Perrenoud JJ. [Acute coronary syndrome: guidelines and geriatrics specificity] *Rev Med Suisse*. 2009 May 20;5(204):1137-8, 1140-2, 1144-7.

Roffi M, Pereira V, San MD, Bonvini RF, Keller PF, Mach F, Lovblad KO. [Carotid stenting: an alternative to surgery?] *Rev Med Suisse*. 2009 May 27;5(205):1177-80, 1182-3.

Dr. H. Burri

Burri H, Senouf D. Remote monitoring and follow-up of pacemakers and implantable cardioverter defibrillators. *Europace*. 2009 Jun;11(6):701-9.

Burri H, Gerritse B, Davenport L, Demas M, Sticherling C; Concer-to AT Clinical Study Investigators. Fluctuation of left ventricular thresholds and required safety margin for left ventricular pacing with cardiac resynchronization therapy. *Europace*. 2009 Jul;11(7):931-6.

Berney Lamielle M, Burri H. [Role of cardiac resynchronization therapy for treatment of heart failure] *Rev Med Suisse*. 2009 Mar 4;5(193):504, 506-8.

Burri H, Sunthorn H, Zimmermann M, Stettler C, Shah D. Backup right ventricular pacing with a 0.035" guidewire during implantation of left ventricular leads. *Pacing Clin Electrophysiol*. 2009 Mar;32 Suppl 1:S12-5.

Burri H, Pigué V. UninTENSional pacemaker interactions with transcutaneous electrical nerve stimulation. *Europace*. 2009 Mar;11(3):283-4.

Jadidi AS, Sunthorn H, Burri H, Gentil-Baron P, Shah D. Is this atrial fibrillation? *Ann Noninvasive Electrocardiol*. 2009 Jan;14(1):96-8.

Dr. T.H. Schindler

Schindler TH, Facta AD, Prior JO, Cadenas J, Zhang XL, Li Y, Sayre J, Goldin J, Schelbert HR. Structural alterations of the coronary arterial wall are associated with myocardial flow heterogeneity in type 2 diabetes mellitus. *Eur J Nucl Med Mol Imaging*. 36:219-29 (2009).

Schindler TH, Campisi R, Dorsey D, Prior JO, Olschewski M, Sayre J, Schelbert HR. Effect of hormone replacement therapy on vasomotor function of the coronary microcirculation in post-menopausal women with medically treated cardiovascular risk factors. *Eur Heart J*. 30:978-86 (2009).

Vincenti G, Nkoulou R, Steiner C, Imperiano H, Ambrosio G, Mach F, Ratib O, Vallee JP, Schindler TH. Noninvasive stress testing of myocardial perfusion defects: head-to-head comparison of thallium-201 SPECT to MRI perfusion. *J Nucl Cardiol*. 16:549-61 (2009).

Schindler TH, Cadenas J, Facta AD, Li Y, Olschewski M, Sayre J, Goldin J, Schelbert HR. Improvement in coronary endothelial function is independently associated with a slowed progression of coronary artery calcification in type 2 diabetes mellitus. *Eur Heart J*. 30:3064-73 (2009).

Dr. R. Bonvini

Bonvini RF, Rastan A, Sixt S, Righini M, Hofstetter R, Zeller T. Diffuse fibromuscular dysplasia successfully treated with scoring balloon angioplasty in a 3-year-old boy. *Heart Vessels*. 2009 Nov;24(6):460-2

Perret X, Bergerot C, Rioufol G, Bonvini RF, Ovize M, Finet G. Same-day-discharge ad hoc percutaneous coronary intervention: initial single-centre experience. *Arch Cardiovasc Dis*. 2009 Nov;102(11):743-8.

Beschorner U, Sixt S, Schwarzwälder U, Rastan A, Mayer C, Noory E, Macharzina R, Buergelin K, Bonvini R, Zeller T. Recanalization of chronic occlusions of the superficial femoral artery using the Outback re-entry catheter: a single centre experience. *Catheter Cardiovasc Interv*. 2009 Nov 15;74(6):934-8.

Reny JL, Bonvini RF, Barazer I, Berdagué P, de Moerloose P, Schved JF, Gris JC, Fontana P. [The concept of aspirin «resistance»: mechanisms and clinical relevance] *Rev Med Interne*. 2009 Dec;30(12):1020-9.

Bonvini RF, Rapp F, Roffi M. Percutaneous coronary intervention versus coronary-artery bypass grafting. *N Engl J Med*. 2009 Jun 18;360(25):2674; author reply 2674-5.

Roffi M, Pereira V, San MD, Bonvini RF, Keller PF, Mach F, Lovblad KO. [Carotid stenting: an alternative to surgery?] Rev Med Suisse. 2009 May 27;5(205):1177-80, 1182-3.

Bonvini RF, Rastan A, Sixt S, Noory E, Beschorner U, Leppanen O, Mach F, Schwarzwälder U, Bürgelin K, Zeller T. Percutaneous retrieval of intravascular and intracardiac foreign bodies with a dedicated three-dimensional snare: a 3-year single center experience. Catheter Cardiovasc Interv. 2009 Nov 15;74(6):939-45.

Bonvini RF, Reny JL, Mach F, Zeller T, Fontana P. Acute coronary syndrome and its antithrombotic treatment: focus on aspirin and clopidogrel resistance. Curr Vasc Pharmacol. 2009 Apr;7(2):198-208.

Dr. S. Noble

Noble S, Miró J, Yong G, Bonan R, Tardif JC, Ibrahim R. Rapid pacing rotational angiography with three-dimensional reconstruction: use and benefits in structural heart disease interventions. EuroIntervention. 2009 Jun;5(2):244-9.

Frangos C, Noble S, Gallo R. Multimodal imaging study of a thrombosed right coronary artery aneurysm. Rev Esp Cardiol. 2009 Dec;62(12):1468.

Yong G, Khairy P, De Guise P, Dore A, Marcotte F, Mercier LA, Noble S, Ibrahim R. Pulmonary arterial hypertension in patients with transcatheter closure of secundum atrial septal defects: a longitudinal study. Circ Cardiovasc Interv. 2009 Oct;2(5):455-62.

Noble S, Basmadjian A, Ibrahim R. Transcatheter closure of coronary artery fistulas. Rev Esp Cardiol. 2009 Nov;62(11):1316.

Noble S, Ibrahim R. Pulsus alternans in critical aortic stenosis. Can J Cardiol. 2009 Jul;25(7):e268.

Noble S, Asgar A, Cartier R, Virmani R, Bonan R. Anatomic-pathological analysis after CoreValve Revalving system implantation. EuroIntervention. 2009 May;5(1):78-85.

Noble S, Ibrahim R. Percutaneous interventions in adults with congenital heart disease: expanding indications and opportunities. Curr Cardiol Rep. 2009 Jul;11(4):306-13.

Noble S, Ibrahim R. Transcatheter membranous ventricular septal defect closure through a mechanical aortic prosthesis using the Amplatzer membranous ventricular septal defect occluder. Catheter Cardiovasc Interv. 2009 Feb 1;73(2):167-72.

Tardif JC, Heinonen T, Noble S. High-density lipoprotein/apo-lipoprotein A-I infusion therapy. Curr Atheroscler Rep. 2009 Jan;11(1):58-63.

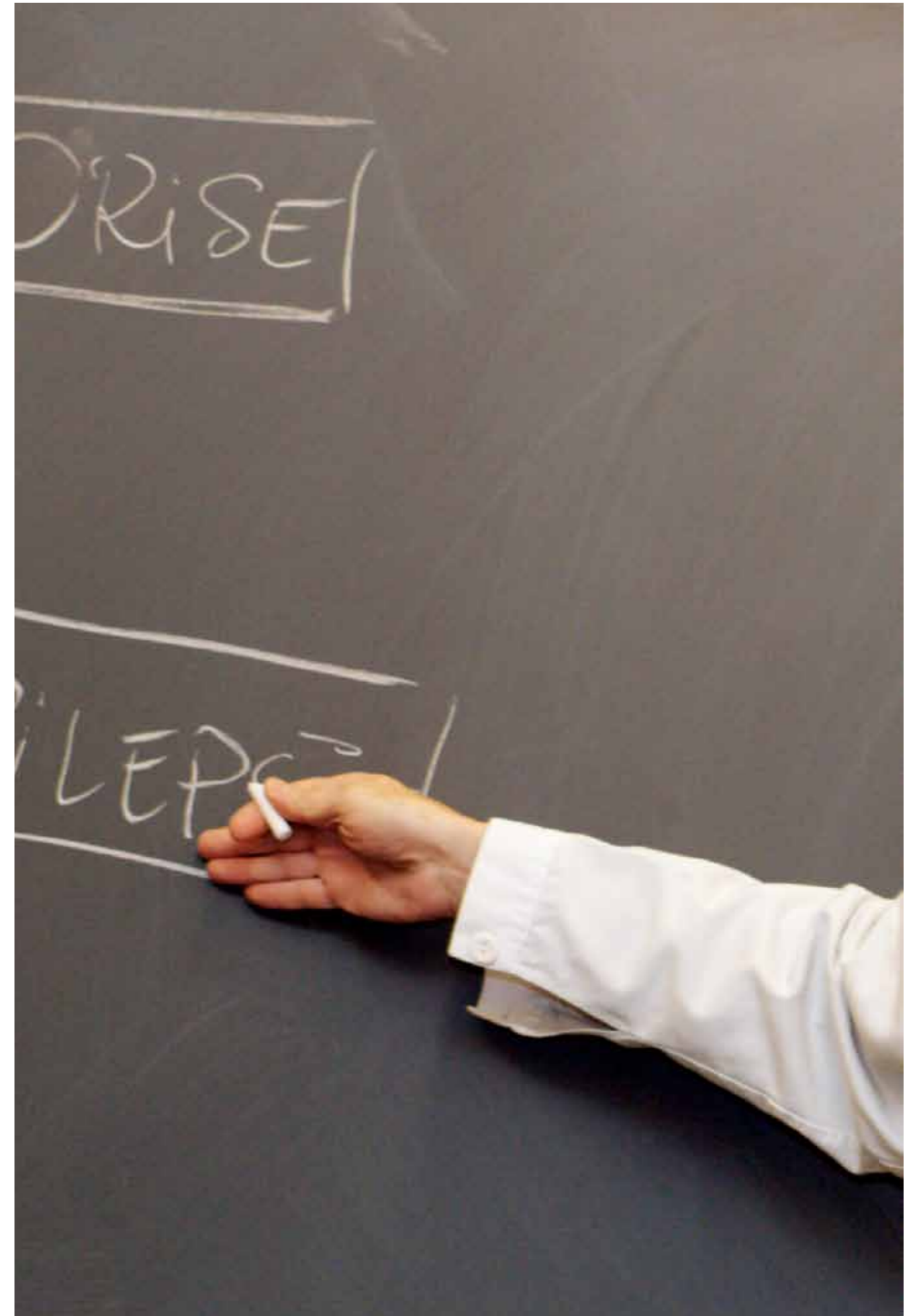
Dr. P. Meyer

Meyer P, Kayser B, Mach F. Stair use for cardiovascular disease prevention. Eur J Cardiovasc Prev Rehabil. 2009 Aug;16 Suppl 2:S17-8.

Meyer P, Nigam A, Marcil M, Tardif JC. The therapeutic potential of high-density lipoprotein mimetic agents in coronary artery disease. Curr Atheroscler Rep. 2009 Sep;11(5):329-33.

Dr. D. Carballo

Coelho-Filho OR, Rajaram M, Jerosh-Herold M, Abdullah S, Carballo D, Feitosa L, Francis S, John R, Blankstein R, Kwong RY. Images in Cardiovascular Medicine: Solitary fatty infiltration within the left ventricle detected by cardiac magnetic resonance imaging in a patient presenting with ventricular tachycardia. Circulation. 2009 Sep 15;120(11):1008-10.





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