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## Anställning

**Sektionschef, Arytmisektionen, VO HLM, Division 3, Skånes Universitetssjukhus**  
Skåne University Hospital  
Region Skåne, Sverige  
2015 sep 1 → present

## Forskningsoutput

**Successful percutaneous extraction of malpositioned pacemaker lead in the left ventricle after proper dabigatran treatment**  
Farouq, M., Borgquist, R., Brandt, J., Mörtzell, D. & Wang, L., 2022 mar 29, (E-pub ahead of print) I: PACE - Pacing and Clinical Electrophysiology. 5 s.

**Testosterone and coronary flow reserve: A study on Swedish men from the general population**  
Rezanezhad, B., Wittfeldt, A., Borgquist, R. & Elzanaty, S., 2022, I: Clinical Research and Trials. 8, s. 1-4

**Regional contributions to left ventricular stroke volume determined by cardiac magnetic resonance imaging in cardiac resynchronization therapy**  
Östenson, B., Ostenfeld, E., Werther-Evaldsson, A., Roijer, A., Bakos, Z., Kanski, M., Heiberg, E., Arheden, H., Borgquist, R. & Carlsson, M., 2021 okt 26, I: BMC Cardiovascular Disorders. 21, 1, 519.

**Pulmonary perfusion and NYHA classification improve after cardiac resynchronization therapy**  
Al-Mashat, M., Borgquist, R., Carlsson, M., Arheden, H. & Jögi, J., 2021, (E-pub ahead of print) I: Journal of Nuclear Cardiology.

**The CHA<sub>2</sub>DS<sub>2</sub>-VASc Score and Its Association with Long-Term Outcome in a Cardiac Resynchronization Therapy Population**  
Reitan, C., Platonov, P. G. & Borgquist, R., 2021, I: Cardiology. 146, 4, s. 453-463

**Ventricular longitudinal shortening is an independent predictor of death in heart failure patients with reduced ejection fraction**  
Berg, J., Jablonowski, R., Mohammad, M., Solem, K., Borgquist, R., Ostenfeld, E., Arheden, H. & Carlsson, M., 2021, I: Scientific Reports. 11, 20280.

**Vectorcardiography Findings Are Associated with Recurrent Ventricular Arrhythmias and Mortality in Patients with Heart Failure Treated with Implantable Cardioverter-Defibrillator Device**  
Chaudhry, U., Cortez, D., Platonov, P. G., Carlson, J. & Borgquist, R., 2020 dec, I: Cardiology. 145, 12, s. 784-794 11 s.

**Cardiac Resynchronization Therapy Guided by Echocardiography, MRI, and CT Imaging: A Randomized Controlled Study**  
Borgquist, R., Carlsson, M., Markstad, H., Werther-Evaldsson, A., Ostenfeld, E., Roijer, A. & Bakos, Z., 2020 okt, I: JACC: Clinical Electrophysiology. 6, 10, s. 1300-1309 10 s.

**Increased pulmonary blood volume variation in patients with heart failure compared to healthy controls; a non-invasive, quantitative measure of heart failure**

Al-Mashat, M., Jögi, J., Carlsson, M., Borgquist, R., Ostensfeld, E., Magnusson, M., Bachus, E., Rådegran, G., Arheden, H. & Kanski, M., 2020 feb 1, I: Journal of Applied Physiology. 128, 2, s. 324-337 14 s.

**Association Between Testosterone Levels and Clinical Markers of Atherosclerosis**

Rezanezhad Zanjani, B., Borgquist, R. & Elzanaty, S., 2020, I: Journal of Clinical and Medical Images. 4, 6

**Interatrial Block Predicts Atrial Fibrillation and Total Mortality in Patients with Cardiac Resynchronization Therapy**

Jacobsson, J., Carlson, J., Reitan, C., Borgquist, R. & Platonov, P. G., 2020, I: Cardiology. s. 720–729

**Atrial fibrillation incidence and impact of biventricular pacing on long-term outcome in patients with heart failure treated with cardiac resynchronization therapy**

Jacobsson, J., Reitan, C., Carlson, J., Borgquist, R. & Platonov, P. G., 2019 aug 13, I: BMC Cardiovascular Disorders. 19, 195.

**Very long-term survival and late sudden cardiac death in cardiac resynchronization therapy patients**

Barra, S., Duehmke, R., Providência, R., Narayanan, K., Reitan, C., Roubicek, T., Polasek, R., Chow, A., Defaye, P., Fauchier, L., Piot, O., Deharo, J-C., Sadoul, N., Klug, D., Garcia, R., Dockrill, S., Virdee, M., Pettit, S., Agarwal, S., Borgquist, R. & 2 andra, Marijon, E. & Boveda, S., 2019 jul 7, I: European Heart Journal. 40, 26, s. 2121-2127

**Left axis deviation in patients with left bundle branch block is a marker of myocardial disease associated with poor response to cardiac resynchronization therapy**

Storkås, H. S., Hansen, T. F., Tahri, J. B., Lauridsen, T. K., Olsen, F. J., Borgquist, R., Vinther, M., Lindhardt, T. B., Bruun, N. E., Sjøgaard, P. & Risum, N., 2019 apr 1, I: Journal of Electrocardiology.

**Två nya studier av kateterablation av förmaksflimmer - Kateterablation – mer än bara symtomlindring?**

Holmqvist, F., Borgquist, R. & Ljungström, E., 2019 feb 26, I: Läkartidningen. 116, 2 s.

**Combination of a leadless pacemaker and subcutaneous defibrillator with nine effective shock treatments during follow-up of 18 months**

Ljungström, E., Brandt, J., Mörtzell, D., Borgquist, R. & Wang, L., 2019, I: Journal of Electrocardiology. 56, s. 1-3 3 s.

**Heart filling exceeds emptying during late ventricular systole in patients with systolic heart failure and healthy subjects – a cardiac MRI study**

Carlsson, M., Ugander, M., Kanski, M., Borgquist, R., Ekelund, U. & Arheden, H., 2019, I: Clinical Physiology and Functional Imaging. 39, 3, s. 192-200

**Idiopathic ventricular fibrillation – Long term prognosis in relation to clinical findings and ECG patterns in a Swedish cohort**

Chaudhry, U., Platonov, P. G., Rubulis, A., Bergfeldt, L., Jensen, S. M., Lundin, C. & Borgquist, R., 2019, I: Journal of Electrocardiology. 56, s. 46-51 6 s.

**Kateterablation – mer än bara symtomlindring?**

Holmqvist, F., Borgquist, R. & Ljungström, E., 2019, I: Läkartidningen. 116, 9-10, 406.

**Left ventricular global wall thickness is easily calculated, detects and characterizes hypertrophy, and has prognostic utility**

Lundin, M., Heiberg, E., Nordlund, D., Gyllenhammar, T., Steding Ehrenborg, K., Engblom, H., Carlsson, M., Atar, D., vanderPals, J., Erlinge, D., Borgquist, R., Khoshnood, A., Ekelund, U., Nickander, J., Themudo, R., Nordin, S., Kozor, R., Moon, J., Maret, E., Caidahl, K. & 5 andra, Sigfridsson, A., Sörensson, P., Schelbert, E. B., Arheden, H. & Ugander, M., 2019.

**Mean wall thickness improves characterization and prognosis in left ventricular hypertrophy**

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2019.

**Preoperative CT of cardiac veins for planning left ventricular lead placement in cardiac resynchronization therapy**

Markstad, H., Bakos, Z., Ostenfeld, E., Geijer, M., Carlsson, M. & Borgquist, R., 2019, I: Acta Radiologica. 60, 7, s. 859-865

**The Association between Serum Testosterone and Risk Factors for Atherosclerosis**

Rezanezhad, B., Borgquist, R., Willenheimer, R. & Elzanaty, S., 2019, I: Current Urology. 13, 2, s. 101-106 6 s.

**Hemodynamic forces using four-dimensional flow MRI: An independent biomarker of cardiac function in heart failure with left ventricular dyssynchrony?**

Arvidsson, P. M., Töger, J., Pedrizzetti, G., Heiberg, E., Borgquist, R., Carlsson, M. & Arheden, H., 2018 dec, I: American Journal of Physiology - Heart and Circulatory Physiology. 315, 6, s. H1627-H1639

**The ability of the electrocardiogram in left bundle branch block to detect myocardial scar determined by cardiovascular magnetic resonance**

Wieslander, B., Xia, X., Jablonowski, R., Axelsson, J., Klem, I., Nijveldt, R., Maynard, C., Schelbert, E. B., Sörensson, P., Sigfridsson, A., Chaudhry, U., Platonov, P. G., Borgquist, R., Engblom, H., Couderc, J. P., Strauss, D. G., Atwater, B. D. & Ugander, M., 2018 sep 1, I: Journal of Electrocardiology. 51, 5, s. 779-786 8 s.

**Association between serum levels of testosterone and biomarkers of subclinical atherosclerosis**

Rezanezhad, B., Borgquist, R., Willenheimer, R. & Elzanaty, S., 2018 jul 3, I: Aging Male. 21, 3, s. 182-186

**One Size Doesn't Fit All: A Closer Look at the Effects of Multipoint Pacing in Cardiac Resynchronization Therapy**

Borgquist, R., 2018 jul 1, I: JACC: Clinical Electrophysiology. 4, 7, s. 890-892 3 s.

**Usefulness of a clinical risk score to predict the response to cardiac resynchronization therapy**

Providencia, R., Marijon, E., Barra, S., Reitan, C., Breitenstein, A., Defaye, P., Papageorgiou, N., Duehmke, R., Winnik, S., Ang, R., Klug, D., Gras, D., Oezkartal, T., Segal, O. R., Deharo, J. C., Leclercq, C., Lambiase, P. D., Fauchier, L., Bordachar, P., Steffel, J. & 7 andra, Sadoul, N., Piot, O., Borgquist, R., Agarwal, S., Chow, A., Boveda, S. & DAI-PP Investigators, 2018 jun 1, I: International Journal of Cardiology. 260, s. 82-87 6 s.

**Prediction of clinical outcome in patients treated with cardiac resynchronization therapy - the role of NT-ProBNP and a combined response score**

Bakos, Z., Chatterjee, N. C., Reitan, C., Singh, J. P. & Borgquist, R., 2018 apr 24, I: BMC Cardiovascular Disorders. 18, 1, 70.

**A new simplified electrocardiographic score predicts clinical outcome in patients treated with CRT**

Végh, E. M., Kandala, J., Januszkievicz, L., Ren, J., Miller, A., Orencole, M., Blendea, D., Merkely, B., Gellér, L., Singh, J. P. & Borgquist, R., 2018 mar 1, I: Europace. 20, 3, s. 492-500

**Semi-automated QRS score as a predictor of survival in CRT treated patients with strict left bundle branch block**

Reitan, C., Chaudhry, U., Atwater, B., Jacobsson, J., Couderc, J. P., Xia, X., Carlson, J., Platonov, P. G. & Borgquist, R., 2018 mar, I: Journal of Electrocardiology. 51, 2, s. 282-287

**Nya tekniker för att övervaka och behandla arytmier vid hjärtsjukdom: 60 år sedan första pacemakern – nu finns även sviktpacemakern och interna defibrillatorer och hjärtövervakare**

Björman, C., Juhlin, T., Ljungström, E. & Borgquist, R., 2018 jan 1, I: Läkartidningen. 115, 19-20

**Response by Jablonowski et al to Letter Regarding Article, "Cardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone: Comparison of Four Analysis Methods"**

Jablonowski, R., Chaudhry, U., van der Pals, J., Engblom, H., Arheden, H., Heiberg, E., Wu, K. C., Borgquist, R. & Carlsson, M., 2018 jan, I: Circulation. Cardiovascular imaging. 11, 1, e007333.

**Ejection fraction in left bundle branch block is disproportionately reduced in relation to amount of myocardial scar**

Axelsson, J., Wieslander, B., Jablonowski, R., Klem, I., Nijveldt, R., Schelbert, E. B., Sörensson, P., Sigfridsson, A., Chaudhry, U., Platonov, P. G., Borgquist, R., Engblom, H., Strauss, D. G., Arheden, H., Atwater, B. D. & Ugander, M., 2018, I: Journal of Electrocardiology. 51, 6, s. 1071-1076 6 s.

**Cardiovascular magnetic resonance to predict appropriate implantable cardioverter defibrillator therapy in ischemic and nonischemic cardiomyopathy patients using late gadolinium enhancement border zone comparison of four analysis methods**

Jablonowski, R., Chaudhry, U., Van Der Pals, J., Engblom, H., Arheden, H., Heiberg, E., Wu, K. C., Borgquist, R. & Carlsson, M., 2017 aug 1, I: Circulation: Cardiovascular Imaging. 10, 9, e006105.

**On estimating intraventricular hemodynamic forces from endocardial dynamics: A comparative study with 4D flow MRI**

Pedrizzetti, G., Arvidsson, P. M., Töger, J., Borgquist, R., Domenichini, F., Arheden, H. & Heiberg, E., 2017 jul 26, I: Journal of Biomechanics. 60, s. 203-210 8 s.

**Adding Defibrillation Therapy to Cardiac Resynchronization on the Basis of the Myocardial Substrate**

Barra, S., Boveda, S., Providência, R., Sadoul, N., Duehmk, R., Reitan, C., Borgquist, R., Narayanan, K., Hidden-Lucet, F., Klug, D., Defaye, P., Gras, D., Anselme, F., Leclercq, C., Hermida, J-S., Deharo, J. C., Looi, K. L., Chow, A. W., Virdee, M., Fynn, S. & 4 andra, Le Heuzey, J-Y., Marijon, E., Agarwal, S. & French-UK-Sweden CRT Network, 2017 apr 4, I: Journal of the American College of Cardiology. 69, 13, s. 1669-1678 10 s.

**Coronary Sinus Lead Positioning**

Roka, A., Borgquist, R. & Singh, J., 2017 jan, I: Heart Failure Clinics. 13, 1, s. 79-91 13 s.

**A simplified left ventricular end-diastolic mean wall thickness-to-volume ratio estimated from left ventricular mass and end-diastolic volume distinguishes physiological from pathological hypertrophy**

Lundin, M., Heiberg, E., Nordlund, D., Gyllenhammar, T., Steding Ehrenborg, K., Engblom, H., Carlsson, M., Atar, D., vanderPals, J., Erlinge, D., Borgquist, R., Khoshnood, A., Ekelund, U., Nickander, J., Themudo, R., Sörensson, P., Arheden, H. & Ugander, M., 2017.

**Atrial high rate episodes predict clinical outcome in patients with cardiac resynchronization therapy**

Jacobsson, J., Platonov, P. G., Reitan, C., Carlsson, J. & Borgquist, R., 2017, I: Scandinavian cardiovascular journal : SCJ. 51, 2, s. 74-81 8 s.

**Cardiovascular drug utilization post-implant is related to clinical outcome in heart failure patients receiving cardiac resynchronization therapy**

Bakos, Z., Reitan, C., Werther-Evaldsson, A., Roijer, A., Platonov, P. & Borgquist, R., 2017, I: Cardiology Journal. 24, 4, s. 374-384

**Clinical risk profile score predicts all cause mortality but not implantable cardioverter defibrillator intervention rate in a large unselected cohort of patients with congestive heart failure**

Sjöblom, J., Borgquist, R., Gadler, F., Kalm, T., Ljung, L., Rosenqvist, M., Frykman, V. & Platonov, P. G., 2017, I: Annals of Noninvasive Electrocardiology. 22, 3, e12414.

**Comparison of patients with early-phase arrhythmogenic right ventricular cardiomyopathy and right ventricular outflow tract ventricular tachycardia.**

Saberniak, J., Leren, I. S., Haland, T. F., Beitnes, J. O., Hopp, E., Borgquist, R., Edvardsen, T. & Haugaa, K. H., 2017, I: European Heart Journal-Cardiovascular Imaging. 18, 1, s. 62-69

**Evaluation of the ECG based Selvester scoring method to estimate myocardial scar burden and predict clinical outcome in patients with left bundle branch block, with comparison to late gadolinium enhancement CMR imaging**

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**Increasing sex differences in the use of cardiac resynchronization therapy with or without implantable cardioverter-defibrillator**

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**Long-term outcomes of the current remote magnetic catheter navigation technique for ablation of atrial fibrillation**

Yuan, S., Holmqvist, F., Kongstad Rasmussen, O., Jensen, S. M., Wang, L., Ljungström, E., Hertvig, E. & Borgquist, R., 2017, I: Scandinavian Cardiovascular Journal. 51, 6, s. 308-315

**Sex-specific outcomes with addition of defibrillation to resynchronisation therapy in patients with heart failure**

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**Association between Erectile Function and Biomarkers of Subclinical Atherosclerosis: A Study Based on Middle-Aged Healthy Men from the General Population**

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**Association between PSA Levels and Biomarkers of Subclinical Systemic Inflammation in Middle-Aged Healthy Men from the General Population**

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**Usefulness of the Sum Absolute QRST Integral to Predict Outcomes in Patients Receiving Cardiac Resynchronization Therapy**

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**Reply to the Editor - Prognostic Implication of Baseline PR Interval in Patients Undergoing Cardiac Resynchronization Therapy**

Januszkiewicz, Ł., Vegh, E., Borgquist, R., Bose, A., Sharma, A., Orencole, M., Mela, T., Singh, J. P. & Parks, K. A., 2016 jul, I: Heart Rhythm. 13, 7, s. 1573-4 2 s.

**Positive Response to Cardiac Resynchronization Therapy: The Role of NT-proBNP**

BAKOS, ZOLTAN., REITAN, CHRISTIAN., CHAUDHRY, UZMA., WERTHER EVALDSSON, ANNA., Roijer, A., Wang, L., Platonov, P. & Borgquist, R., 2016 mar 25, I: International journal of cardiovascular research. 5, 2

**Leadless Medtronic Micra pacemaker almost completely endothelialized already after 4 months: first clinical experience from an explanted heart**

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**Vortex ring behavior provides the epigenetic blueprint for the human heart.**

Arvidsson, P., Kovács, S. J., Töger, J., Borgquist, R., Heiberg, E., Carlsson, M. & Arheden, H., 2016, I: Scientific Reports. 6, 22021.

**Vortex-ring mixing as a measure of diastolic function of the human heart: Phantom validation and initial observations in healthy volunteers and patients with heart failure.**

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**Coronary Sinus Lead Positioning**

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**Prognostic implication of baseline PR interval in cardiac resynchronization therapy recipients**

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**An electrophysiologist perspective on risk stratification in heart failure: can better understanding of the condition of the cardiac sympathetic nervous system help?**

Borgquist, R. & Singh, J. P., 2015, I: Journal of Nuclear Medicine. 56, Suppl 4, s. 59S-64S

**Anemia and its association with clinical outcome in heart failure patients undergoing cardiac resynchronization therapy.**

Venkateswaran, R. V., Freeman, C., Chatterjee, N., Kandala, J., Orencole, M., Vegh, E. M., Parks, K. A., Cowburn, P. J., Dec, G. W., Singh, J. P. & Borgquist, R., 2015, I: Journal of Interventional Cardiac Electrophysiology. 44, 3, s. 297-304

**Efficacy of primary preventive ICD therapy in an unselected population of patients with reduced left ventricular ejection fraction.**

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**Left ventricular fluid kinetic energy time curves in heart failure from cardiovascular magnetic resonance 4D flow data.**

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**Long-term Results of Cardiac Resynchronization Therapy; A Comparison Between CRT-Pacemakers Versus Primary Prophylactic CRT-Defibrillators.**

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**Selvester scoring in patients with strict LBBB using the QUARESS software.**

Xia, X., Chaudhry, U., Wieslander, B., Borgquist, R., Wagner, G. S., Strauss, D. G., Platonov, P., Ugander, M. & Couderc, J-P., 2015, I: Journal of Electrocardiology. 48, 5, s. 763-768

**Ventricular high-rate episodes predict increased mortality in heart failure patients treated with cardiac resynchronization therapy.**

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**A comparison between radial strain evaluation by speckle-tracking echocardiography and cardiac magnetic resonance imaging, for assessment of suitable segments for left ventricular lead placement in cardiac resynchronization therapy.**

Bakos, Z., Ostfeld, E., Markstad, H., Werther Evaldsson, A., Roijer, A., Arheden, H., Carlsson, M. & Borgquist, R., 2014, I: Europace. 16, 12, s. 1779-1786

**Combined preoperative information using a bullseye plot from speckle tracking echocardiography, cardiac CT scan, and MRI scan: targeted left ventricular lead implantation in patients receiving cardiac resynchronization therapy.**

Bakos, Z., Markstad, H., Ostfeld, E., Carlsson, M., Roijer, A. & Borgquist, R., 2014, I: European Heart Journal-Cardiovascular Imaging. 15, 5, s. 523-531

**Coronary sinus cannulation with a steerable catheter during biventricular device implantation.**

Wang, L., Yuan, S., Borgquist, R., Höijer, C. J. & Brandt, J., 2014, I: Scandinavian Cardiovascular Journal. 48, 1, s. 41-46

**Patient-assessed short-term positive response to cardiac resynchronization therapy is an independent predictor of long-term mortality.**

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**The diagnostic performance of imaging methods in ARVC using the 2010 Task Force criteria.**

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**Vigorous physical activity impairs myocardial function in patients with arrhythmogenic right ventricular cardiomyopathy and in mutation positive family members**

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**Investigation of a novel algorithm for synchronized left-ventricular pacing and ambulatory optimization of cardiac resynchronization therapy: results of the adaptive CRT trial**

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**Myocardial structure and function by echocardiography in relation to glucometabolic status in elderly subjects from 2 population-based cohorts: a cross-sectional study**

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**Gender differences in the association between NT proBNP and glucometabolic disturbances in a population-based cohort**

Leosdottir, M., Willenheimer, R., Hall, C., Tjora, S., Malm, J., Melander, O., Borgquist, R. & Nilsson, P., 2009, I: *Cardiology*. 113, Suppl 1, s. 48-48

**Self-rated health and classical risk factors for coronary heart disease predict development of erectile dysfunction 25 years later.**

Borgquist, R., Leosdottir, M., Nilsson, P. & Willenheimer, R., 2008, I: *International Journal of Clinical Practice*. 62, 2, s. 206-213

**Coronary flow velocity reserve reduction is comparable in patients with erectile dysfunction and in patients with impaired fasting glucose or well-regulated diabetes mellitus**

Borgquist, R., Nilsson, P., Gudmundsson, P., Winter, R., Leosdottir, M. & Willenheimer, R., 2007, I: *European Journal of Cardiovascular Prevention & Rehabilitation*. 14, 2, s. 258-264

**Coronary Heart Disease and Erectile Dysfunction**

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**Erectile dysfunction in healthy subjects predicts reduced coronary flow velocity reserve.**

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