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## Anställning

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2015 sep. 1 → present

## Forskningsoutput

### **Age-Stratified Clinical Outcome in Patients with Known Heart Failure Who Receive Pacemaker, Resynchronization Therapy, or Defibrillator Implants**

Rorsman, C., Farouq, M., Marinko, S., Platonov, P. G. & Borgquist, R., 2024, I: *Cardiology (Switzerland)*. 149, 5, s. 474–483 10 s.

### **Association between Serum Cortisol Level and Erectile Function in Healthy Men from the General Population**

REZANEZAD, B., Borgquist, R. & Elzanaty, S., 2024, I: *Archive of Urological Research*. 8, 2, s. 023-027

### **Marital Status and Serum Level of Testosterone: In Relation to Serum Level of Cortisol**

Rezanezhad, B., Borgquist, R. & Elzanaty, S., 2024, I: *Archive of Urological Research*. 8, 2, s. 018-022

### **Risk factors and incidence of new-onset heart failure with conventional pacemaker implant – a nationwide study**

Farouq, M., Rorsman Schough, C., Marinko, S., Mortsell, D., Chaudhry, U., Wang, L., Platonov, P. & Borgquist, R., 2024, I: *Heart Rhythm O2*. 5, 9, s. 623-630

### **Prognostic utility and characterization of left ventricular hypertrophy using global thickness**

Lundin, M., Heiberg, E., Nordlund, D., Gyllenhammar, T., Steding-Ehrenborg, K., Engblom, H., Carlsson, M., Atar, D., van der Pals, J., Erlinge, D., Borgquist, R., Khoshnood, A., Ekelund, U., Nickander, J., Themudo, R., Nordin, S., Kozor, R., Bhuvana, A. N., Moon, J. C. & Maret, E. och 6 andra, Caidahl, K., Sigfridsson, A., Sörensson, P., Schelbert, E. B., Arheden, H. & Ugander, M., 2023 dec. 20, I: *Scientific Reports*. 13, 1, 22806.

### **Hemodynamic forces from 4D flow magnetic resonance imaging predict left ventricular remodeling following cardiac resynchronization therapy**

Pola, K., Roijer, A., Borgquist, R., Ostenfeld, E., Carlsson, M., Bakos, Z., Arheden, H. & Arvidsson, P. M., 2023 dec., I: *Journal of Cardiovascular Magnetic Resonance*. 25, 45.

### **Maximizing QRS duration reduction in contemporary cardiac resynchronization therapy is feasible and shorter QRS duration is associated with better clinical outcome**

Borgquist, R., Marinko, S., Platonov, P., Wang, L., Chaudhry, U., Brandt, J. & Mortsell, D., 2023 nov., I: *Journal of Interventional Cardiac Electrophysiology*. 66, 8, s. 1799–1806 8 s.

**Sex-based differences in cardiac resynchronization therapy upgrade and outcome for patients with pacemaker and new-onset heart failure**

Rorsman, C., Farouq, M., Marinko, S., Mortzell, D., Chaudhry, U., Wang, L. & Borgquist, R., 2023 okt. 10, I: PACE - Pacing and Clinical Electrophysiology. s. 1-9

**Age-stratified comparison of prognosis in cardiac resynchronization therapy with or without prophylactic defibrillator for non-ischemic cardiomyopathy – a nationwide cohort study**

Farouq, M., Rorsman, C., Marinko, S., Mörtzell, D., Chaudhry, U., Wang, L., Platonov, P. & Borgquist, R., 2023 juli 1, I: Europace. 25, 7, eoad187.

**Testosterone Level and Risk of Diabetes: Follow-Up Study**

Rezanezhad, B., Borgquist, R. & Elzanaty, S., 2023 jan. 1, I: Medical Research Archives. 11, 9, 4473.

**Association between left ventricular lead position and intrinsic QRS morphology with regard to clinical outcome in cardiac resynchronization therapy for heart failure**

Brandtvig, T. O., Marinko, S., Farouq, M., Brandt, J., Mortzell, D., Wang, L., Chaudhry, U., Saba, S. & Borgquist, R., 2023, I: Annals of Noninvasive Electrocardiology. 28, 4

**Baseline QRS Area and Reduction in QRS Area Are Associated with Lower Mortality and Risk of Heart Failure Hospitalization after Cardiac Resynchronization Therapy**

Marinko, S., Platonov, P. G., Carlson, J. & Borgquist, R., 2022 juli 1, I: Cardiology (Switzerland). 147, 3, s. 298-306 9 s.

**Anatomy of the coronary sinus with regard to cardiac resynchronization therapy implantation**

Borgquist, R. & Wang, L., 2022 juni 1, I: Herzschrittmachertherapie und Elektrophysiologie. 33, 2, s. 186-194

**Diagnosis and treatment of the rare procedural complication of malpositioned pacing leads in the left heart: a single center experience**

Borgquist, R., Farouq, M., Markstad, H., Brandt, J., Mortzell, D., Jensen, S., Chaudhry, U. & Wang, L., 2022, I: Scandinavian Cardiovascular Journal. 56, 1, s. 302-309

**Efficacy of the antibacterial envelope to prevent cardiac implantable electronic device infection in a high-risk population**

Chaudhry, U., Borgquist, R., Smith, J. G. & Mörtzell, D., 2022, I: Europace. 24, 12, s. 1973-1980

**Pulmonary perfusion and NYHA classification improve after cardiac resynchronization therapy**

Al-Mashat, M., Borgquist, R., Carlsson, M., Arheden, H. & Jögi, J., 2022, I: Journal of Nuclear Cardiology. 29, 6, s. 2974-2983

**Repositioning and optimization of left ventricular lead position in non-responders to Cardiac Resynchronization Therapy is associated with improved ejection fraction, lower NT-ProBNP values and less heart failure symptoms**

Borgquist, R., Mortzell, D., Chaudhry, U., Brandt, J., Farouq, M. & Wang, L., 2022, I: Heart Rhythm O2. 3, 5, s. 457-463

**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, I: PACE - Pacing and Clinical Electrophysiology. 45, 9, s. 1101-1105 5 s.

**Targeting the latest site of left ventricular mechanical activation is associated with improved long-term outcomes for recipients of cardiac resynchronization therapy**

Borgquist, R., Barrington, W. R., Bakos, Z., Werther-Evaldsson, A. & Saba, S., 2022, I: Heart Rhythm O2. 3, 4, s. 377-384

**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

**Ventricular longitudinal function by cardiovascular magnetic resonance predicts cardiovascular morbidity in HFrEF patients**

Berg, J., Åkesson, J., Jablonowski, R., Solem, K., Heiberg, E., Borgquist, R., Arheden, H. & Carlsson, M., 2022, I: ESC Heart Failure. 9, 4, s. 2313-2324

**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.

**Characteristics and outcomes in patients with atrial fibrillation and acute coronary syndrome treated with ticagrelor and novel oral anticoagulants**

van der Pals, J., Holmqvist, F., Borgquist, R., Götberg, M., Nseir, M., Koul, S., Isma, N., Scherstén, F., Tydén, P., Braun, O. & Erlinge, D., 2021 maj, I: Thrombosis Update. 3, 5 s., 100054.

**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., Ostenfeld, 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. och 2 andra, Marijon, E. & Boveda, S., 2019 juli 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., Søggaard, 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. och 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**

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. och 5 andra, Sigfridsson, A., Sörensson, P., Schelbert, E. B., Arheden, H. & Ugander, M., 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 juli 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 juli 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. och 7 andra, Sadoul, N., Piot, O., Borgquist, R., Agarwal, S., Chow, A., Boveda, S. & DAI-PP Investigators, 2018 juni 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., Januszkiewicz, L., Ren, J., Miller, A., Orencole, M., Blendea, D., Merkely, B., Gellér, L., Singh, J. P. & Borgquist, R., 2018 mars 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 mars, 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 sviktpacemaker 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 juli 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., Duehmke, 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. och 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**

Chaudhry, U., Platonov, P., Jablonowski, R., Couderc, J.-P., Engblom, H., Xia, X., Wieslander, B., Atwater, B. D., Strauss, D. G., Van der Pals, J., Ugander, M., Carlsson, M. & Borgquist, R., 2017, I: Annals of Noninvasive Electrocardiology. 22, 5, e12440.

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

Chatterjee, N. A., Borgquist, R., Chang, Y., Lewey, J., Jackson, V. A., Singh, J. P., Metlay, J. P. & Lindvall, C., 2017, I: European Heart Journal. 38, 19, s. 1485-1494

**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**

Barra, S., Providência, R., Duehmke, R., Boveda, S., Marijon, E., Reitan, C., Borgquist, R., Klug, D., Defaye, P., Sadoul, N., Deharo, J. C., Sadien, I., Patel, K., Looi, K. L., Begley, D., Chow, A. W., Heuzey, J. Y. L. & Agarwal, S., 2017, I: Heart. 103, 10, s. 753-760

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

Elzanaty, S., REZANEZHAD ZANJANI, B., Willenheimer, R. & Borgquist, R., 2016 okt. 1, I: Current Urology. 9, 3, s. 119-123

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

Elzanaty, S., REZANEZHAD ZANJANI, B. & Borgquist, R., 2016 okt. 1, I: Current Urology. 9, 3, s. 148-152 5 s.

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

Jacobsson, J., Borgquist, R., Reitan, C., Ghafoori, E., Chatterjee, N. A., Kabir, M., Platonov, P. G., Carlson, J., Singh, J. P. & Tereshchenko, L. G., 2016 aug., I: American Journal of Cardiology. 118, 6, s. 389-395

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 juli, I: Heart Rhythm. 13, 7, s. 1573-4 2 s.

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

BAKOS, Z., REITAN, C., CHAUDHRY, U., WERTHER EVALDSSON, A., Roijer, A., Wang, L., Platonov, P. & Borgquist, R., 2016 mars 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**

Borgquist, R., Ljungström, E., Koul, B. & Höijer, C.-J., 2016, I: European Heart Journal. 39, 4, s. 287-300

**The shape of the healthy heart is optimized for vortex ring formation**

Arvidsson, P. M., Kovács, S. J., Töger, J., Borgquist, R., Heiberg, E., Carlsson, M. & Arheden, H., 2016, I: Journal of Cardiovascular Magnetic Resonance. 18, s. 1-2 2 s., O23.

**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.**

Töger, J., Kanski, M., Arvidsson, P., Carlsson, M., Kovács, S. J., Borgquist, R., Revstedt, J., Söderlind, G., Arheden, H. & Heiberg, E., 2016, I: Journal of Magnetic Resonance Imaging. 43, 6, s. 1386-1397

**Coronary Sinus Lead Positioning**

Roka, A., Borgquist, R. & Singh, J., 2015 dec., I: Cardiac Electrophysiology Clinics. 7, 4, s. 635-47 13 s.

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

Januszkiewicz, Ł., Vegh, E., Borgquist, R., Bose, A., Sharma, A., Orencole, M., Mela, T., Singh, J. P. & Parks, K. A., 2015 nov., I: Heart Rhythm. 12, 11, s. 2256-62 7 s.

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

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