

Prototyping References  
BMEn 2151 “Introductory Medical Device Prototyping”  
Prof. Steven S. Saliterman

- Abbasi, Q. H., K. Yang, N. Chopra, J. M. Jornet, N. A. Abuali, K. A. Qaraqe, and A. Alomainy. 2016. “Nano-Communication for Biomedical Applications: A Review on the State-of-the-Art From Physical Layers to Novel Networking Concepts.” *Ieee Access* 4:3920-3935. doi: 10.1109/access.2016.2593582.
- Abraham, W. T., and S. A. Smith. 2013. “Devices in the management of advanced, chronic heart failure.” *Nature Reviews Cardiology* 10 (2):98-110. doi: 10.1038/nrcardio.2012.178.
- Abraham, W. T., W. G. Stough, I. L. Pina, C. Linde, J. S. Borer, G. M. De Ferrari, R. Mehran, K. M. Stein, A. Vincent, J. S. Yadav, S. D. Anker, and F. Zannad. 2014. “Trials of implantable monitoring devices in heart failure: which design is optimal?” *Nature Reviews Cardiology* 11 (10):576-585. doi: 10.1038/nrcardio.2014.114.
- Abu Dabrh, A. M., M. W. Steffen, N. Asi, C. Undavalli, Z. Wang, M. B. Elamin, M. S. Conte, and M. H. Murad. 2015. “Nonrevascularization-based treatments in patients with severe or critical limb ischemia.” *Journal of Vascular Surgery* 62 (5):1330-+. doi: 10.1016/j.jvs.2015.07.069.
- Aherwar, A., A. K. Singh, and A. Patnaik. 2016a. “Current and future biocompatibility aspects of biomaterials for hip prosthesis.” *Aims Bioengineering* 3 (1):23-43. doi: 10.3934/bioeng.2016.1.23.
- Aherwar, Amit, Amit K. Singh, and Amar Patnaik. 2016b. “Current and future biocompatibility aspects of biomaterials for hip prosthesis.” *Aims Bioengineering* 3 (1):23-43. doi: 10.3934/bioeng.2016.1.23.
- Al-Mufti, F., A. Bauerschmidt, J. Claassen, P. M. Meyers, P. C. Colombo, and J. Z. Willey. 2016. “Neuroendovascular Interventions for Acute Ischemic Strokes in Patients Supported with Left Ventricular Assist Devices: A Single-Center Case Series and Review of the Literature.” *World Neurosurgery* 88:199-204. doi: 10.1016/j.wneu.2015.12.061.
- Allahwala, U. K., P. S. Hansen, E. J. Danson, N. Straiton, A. Sinhal, D. L. Walters, and R. Bhindi. 2016. “Transcatheter aortic valve implantation: current trends and future directions.” *Future Cardiology* 12 (1):69-85. doi: 10.2217/fca.15.73.
- Allen, R. H., S. Acharya, C. Jancuk, and A. A. Shoukas. 2013. “Sharing Best Practices in Teaching Biomedical Engineering Design.” *Annals of Biomedical Engineering* 41 (9):1869-1879. doi: 10.1007/s10439-013-0781-y.

- Alli, O., S. Asirvatham, and D. R. Holmes. 2015. "Strategies to Incorporate Left Atrial Appendage Occlusion Into Clinical Practice." *Journal of the American College of Cardiology* 65 (21):2337-2344. doi: 10.1016/j.jacc.2015.03.564.
- Alli, O., and D. R. Holmes. 2012. "Left Atrial Appendage Occlusion for Stroke Prevention." *Current Problems in Cardiology* 37 (10):405-441. doi: 10.1016/j.cpcardiol.2012.06.001.
- Alli, O. O., and D. R. Holmes. 2015. "Left Atrial Appendage Occlusion for Stroke Prevention." *Current Problems in Cardiology* 40 (10):429-474. doi: 10.1016/j.cpcardiol.2015.06.005.
- AlOmari, A. H. H., A. V. Savkin, M. Stevens, D. G. Mason, D. L. Timms, R. F. Salamonsen, and N. H. Lovell. 2013. "Developments in control systems for rotary left ventricular assist devices for heart failure patients: a review." *Physiological Measurement* 34 (1):R1-R27. doi: 10.1088/0967-3334/34/1/r1.
- Ambekar, Dhanashree, Zakaria Al-Deneh, Triet Dao, Alexander L. Dziech, Vignesh Subbian, and Fred R. Beyette, Jr. 2013. "Development of a Point-of-Care Medical Device to Measure Head Impact in Contact Sports." *IEEE Engineering in Medicine and Biology Society Conference Proceedings*:4167-4170.
- Arciola, C. R., G. M. Hansch, L. Visai, F. Testoni, S. Maurer, D. Campoccia, L. Selan, and L. Montanaro. 2012. "Interactions of staphylococci with osteoblasts and phagocytes in the pathogenesis of implant-associated osteomyelitis." *International Journal of Artificial Organs* 35 (10):713-726. doi: 10.5301/ijao.5000158.
- Arnolli, M. M., N. C. Hanumara, M. Franken, D. M. Brouwer, and lamj Broeders. 2015. "An overview of systems for CT- and MRI-guided percutaneous needle placement in the thorax and abdomen." *International Journal of Medical Robotics and Computer Assisted Surgery* 11 (4):458-475. doi: 10.1002/rcs.1630.
- Arrese, I., R. Sarabia, R. Pintado, and M. Delgado-Rodriguez. 2013. "Flow-Diverter Devices for Intracranial Aneurysms: Systematic Review and Meta-analysis." *Neurosurgery* 73 (2):193-199. doi: 10.1227/01.neu.0000430297.17961.f1.
- Arvand, Majid, and Navid Ghodsi. 2014. "Electrospun TiO<sub>2</sub> nanofiber/graphite oxide modified electrode for electrochemical detection of L-DOPA in human cerebrospinal fluid." *Sensors and Actuators B-Chemical* 204:393-401. doi: 10.1016/j.snb.2014.07.110.
- Aslam, A., and T. S. Alster. 2014. "Evolution of Laser Skin Resurfacing: From Scanning to Fractional Technology." *Dermatologic Surgery* 40 (11):1163-1172. doi: 10.1097/01.DSS.0000452648.22012.a0.
- Bacha, E., and D. Kalfa. 2014. "Minimally invasive paediatric cardiac surgery." *Nature Reviews Cardiology* 11 (1):24-34. doi: 10.1038/nrcardio.2013.168.

- Bail, D. H. L., and K. Doebler. 2014. "The MitraClip System: A Systematic Review of Indications, Procedural Requirements, and Guidelines." *Thoracic and Cardiovascular Surgeon* 62 (1):18-25. doi: 10.1055/s-0033-1360509.
- Baino, F. 2015. "How can bioactive glasses be useful in ocular surgery?" *Journal of Biomedical Materials Research Part A* 103 (3):1259-1275. doi: 10.1002/jbm.a.35260.
- Baino, F., and C. Vitale-Brovarone. 2014a. "Bioceramics in ophthalmology." *Acta Biomaterialia* 10 (8):3372-3397. doi: 10.1016/j.actbio.2014.05.017.
- Baino, Francesco, and Chiara Vitale-Brovarone. 2014b. "Bioceramics in ophthalmology." *Acta Biomaterialia* 10 (8):3372-3397. doi: 10.1016/j.actbio.2014.05.017.
- Bajaj, N. S., A. Parashar, S. Agarwal, N. Sodhi, K. L. Poddar, A. Garg, E. M. Tuzcu, and S. R. Kapadia. 2014. "Percutaneous Left Atrial Appendage Occlusion for Stroke Prophylaxis in Nonvalvular Atrial Fibrillation A Systematic Review and Analysis of Observational Studies." *Jacc-Cardiovascular Interventions* 7 (3):296-304. doi: 10.1016/j.jcin.2013.11.010.
- Baker, M. A., W. R. Maley, L. Needleman, and C. Doria. 2015. "Ex Vivo Resection of Hepatic Neoplasia and Autotransplantation: A Case Report and Review of the Literature." *Journal of Gastrointestinal Surgery* 19 (6):1169-1176. doi: 10.1007/s11605-015-2806-3.
- Baker, M. I., S. P. Walsh, Z. Schwartz, and B. D. Boyan. 2012. "A review of polyvinyl alcohol and its uses in cartilage and orthopedic applications." *Journal of Biomedical Materials Research Part B-Applied Biomaterials* 100B (5):1451-1457. doi: 10.1002/jbm.b.32694.
- Balaphas, A., M. E. Hagen, N. C. Buchs, F. Pugin, F. Volonte, I. Inan, and P. Morel. 2013. "Robotic laparoendoscopy single site surgery: a transdisciplinary review." *International Journal of Medical Robotics and Computer Assisted Surgery* 9 (1):1-11. doi: 10.1002/rcs.1445.
- Barnes, Spencer C., Duncan E. T. Shepherd, Daniel M. Espino, Rik T. Bryan, Richard Viney, and Prashant Patel. 2016. "Design of an improved surgical instrument for the removal of bladder tumours." *Proceedings of the Institution of Mechanical Engineers Part H-Journal of Engineering in Medicine* 230 (6):579-587. doi: 10.1177/0954411916640580.
- Barnett, C. F., and T. De Marco. 2016. "Treatment of advanced group 2 PH." *Progress in Cardiovascular Diseases* 59 (1):78-86. doi: 10.1016/j.pcad.2016.07.002.
- Barsheshet, A., A. Brenyo, I. Goldenberg, and A. J. Moss. 2012. "Sex-related differences in patients' responses to heart failure therapy." *Nature Reviews Cardiology* 9 (4):234-242. doi: 10.1038/nrcardio.2012.10.

- Basar, M. R., F. Malek, K. M. Juni, M. S. Idris, and M. I. M. Saleh. 2012. "Ingestible Wireless Capsule Technology: A Review of Development and Future Indication." *International Journal of Antennas and Propagation*:14. doi: 10.1155/2012/807165.
- Baumgarten, H., J. J. Squiers, M. Arsalan, J. M. Dimaio, and M. J. Mack. 2016. "Defining the clinical need and indications: who are the right patients for transcatheter mitral valve replacement." *Journal of Cardiovascular Surgery* 57 (3):352-359.
- Bayer, C. L., P. P. Joshi, and S. Y. Emelianov. 2013. "Photoacoustic imaging: a potential tool to detect early indicators of metastasis." *Expert Review of Medical Devices* 10 (1):125-134. doi: 10.1586/erd.12.62.
- Beale, E. W., R. E. Hoxworth, E. H. Livingston, and A. P. Trussler. 2012. "The role of biologic mesh in abdominal wall reconstruction: a systematic review of the current literature." *American Journal of Surgery* 204 (4):510-517. doi: 10.1016/j.amjsurg.2012.03.009.
- Belley, Corinne, Sebastien Gaboury, Bruno Bouchard, and Abdenour Bouzouane. 2015. "Nonintrusive system for assistance and guidance in smart homes based on electrical devices identification." *Expert Systems with Applications* 42 (19):6552-6577. doi: 10.1016/j.eswa.2015.04.024.
- Bhavnani, S. P., J. Narula, and P. P. Sengupta. 2016. "Mobile technology and the digitization of healthcare." *European Heart Journal* 37 (18):1428-1438A. doi: 10.1093/eurheartj/ehv770.
- Blauw, H., P. Keith-Hynes, R. Koops, and J. H. DeVries. 2016. "A Review of Safety and Design Requirements of the Artificial Pancreas." *Annals of Biomedical Engineering* 44 (11):3158-3172. doi: 10.1007/s10439-016-1679-2.
- Bock, David C., Amy C. Marschilok, Kenneth J. Takeuchi, and Esther S. Takeuchi. 2012. "Batteries used to power implantable biomedical devices." *Electrochimica Acta* 84:155-164. doi: 10.1016/j.electacta.2012.03.057.
- Boothroyd, L. J., L. J. Lambert, G. Sas, J. R. Guertin, A. Ducharme, E. Charbonneau, M. Carrier, R. Cecere, J. E. Morin, and P. Bogaty. 2013. "Should Eligibility for Heart Transplantation Be a Requirement for Left Ventricular Assist Device Use? Recommendations Based on a Systematic Review." *Canadian Journal of Cardiology* 29 (12):1712-1720. doi: 10.1016/j.cjca.2013.05.014.
- Borsci, S., P. Buckle, and G. B. Hanna. 2016. "Why you need to include human factors in clinical and empirical studies of in vitro point of care devices? Review and future perspectives." *Expert Review of Medical Devices* 13 (4):405-416. doi: 10.1586/17434440.2016.1154277.

- Borsci, S., R. D. Macredie, J. L. Martin, and T. Young. 2014. "How many testers are needed to assure the usability of medical devices?" *Expert Review of Medical Devices* 11 (5):513-525. doi: 10.1586/17434440.2014.940312.
- Bothe, M. K., L. Dickens, K. Reichel, A. Tellmann, B. Ellger, M. Westphal, and A. A. Faisal. 2013. "The use of reinforcement learning algorithms to meet the challenges of an artificial pancreas." *Expert Review of Medical Devices* 10 (5):661-673. doi: 10.1586/17434440.2013.827515.
- Bourantas, C. V., N. M. van Mieghem, V. Farooq, O. I. Soliman, S. Windecker, N. Piazza, and P. W. Serruys. 2013. "Future perspectives in transcatheter aortic valve implantation." *International Journal of Cardiology* 168 (1):11-18. doi: 10.1016/j.ijcard.2013.03.065.
- Breathett, K., L. A. Allen, and A. V. Ambardekar. 2016. "Patient-centered care for left ventricular assist device therapy: current challenges and future directions." *Current Opinion in Cardiology* 31 (3):313-320. doi: 10.1097/hco.0000000000000279.
- Breskey, J. D., S. E. Lacey, B. J. Vesper, W. A. Paradise, J. A. Radosevich, and M. D. Colvard. 2013. "Photodynamic Therapy: Occupational Hazards and Preventative Recommendations for Clinical Administration by Healthcare Providers." *Photomedicine and Laser Surgery* 31 (8):398-407. doi: 10.1089/pho.2013.3496.
- Bristow, M. R., L. A. Saxon, A. M. Feldman, C. Q. Mei, S. A. Anderson, and D. L. DeMets. 2016. "Lessons Learned and Insights Gained in the Design, Analysis, and Outcomes of the COMPANION Trial." *Jacc-Heart Failure* 4 (7):521-535. doi: 10.1016/j.jchf.2016.02.019.
- Bruining, N., E. Caiani, C. Chronaki, P. Guzik, and E. van der Velde. 2014. "Acquisition and analysis of cardiovascular signals on smartphones: potential, pitfalls and perspectives." *European Journal of Preventive Cardiology* 21:4-13. doi: 10.1177/2047487314552604.
- Bruinink, A., M. Bitar, M. Pleskova, P. Wick, H. F. Krug, and K. Maniura-Weber. 2014. "Addition of nanoscaled bioinspired surface features: A revolution for bone-related implants and scaffolds?" *Journal of Biomedical Materials Research Part A* 102 (1):275-294. doi: 10.1002/jbm.a.34691.
- Brunetti, N. D., S. Scalvini, and G. Molinari. 2016. "Innovations in telemedicine for cardiovascular care." *Expert Review of Cardiovascular Therapy* 14 (3):267-280. doi: 10.1586/14779072.2016.1140572.
- Bryan, N., C. Battersby, N. Smart, and J. Hunt. 2015. "A review of biocompatibility in hernia repair; considerations in vitro and in vivo for selecting the most appropriate repair material." *Hernia* 19 (2):169-178. doi: 10.1007/s10029-014-1307-8.

- Buckberg, G., C. Athanasuleas, and J. Conte. 2012. "Surgical ventricular restoration for the treatment of heart failure." *Nature Reviews Cardiology* 9 (12):703-716. doi: 10.1038/nrcardio.2012.143.
- Buell, T. J., A. Ksendzovsky, B. B. Shah, B. W. Kesser, and W. J. Elias. 2015. "Deep Brain Stimulation in the Setting of Cochlear Implants: Case Report and Literature Review." *Stereotactic and Functional Neurosurgery* 93 (4):245-249. doi: 10.1159/000380824.
- Bushberg, Jerrold T., Kenneth R. Foster, James B. Hatfield, Arthur Thansandote, and Richard A. Tell. 2015. "Ieee Committee on Man and Radiation-Comar Technical Information Statement Radiofrequency Safety and Utility Smart Meters." *Health physics* 108 (3):388-391. doi: 10.1097/HP.0000000000000217.
- Butrous, H., and S. L. Hummel. 2016. "Heart Failure in Older Adults." *Canadian Journal of Cardiology* 32 (9):1140-1147. doi: 10.1016/j.cjca.2016.05.005.
- Campoccia, D., L. Montanaro, and C. R. Arciola. 2013. "A review of the clinical implications of anti-infective biomaterials and infection-resistant surfaces." *Biomaterials* 34 (33):8018-8029. doi: 10.1016/j.biomaterials.2013.07.048.
- Capodanno, D., G. Milazzo, L. Vitale, D. Di Stefano, M. Di Salvo, C. Grasso, and C. Tamburino. 2014. "Updating the evidence on patent foramen ovale closure versus medical therapy in patients with cryptogenic stroke: a systematic review and comprehensive meta-analysis of 2,303 patients from three randomised trials and 2,231 patients from 11 observational studies." *Eurointervention* 9 (11):1342-1349. doi: 10.4244/eijv9i11a225.
- Carlomagno, N., M. L. Santangelo, S. Grassia, C. La Tessa, and A. Renda. 2013. "Intraluminal migration of a surgical drain Report of a very rare complication and literature review." *Annali Italiani Di Chirurgia* 84 (2):219-223.
- Carpenter, B. A., C. J. Gonzalez, S. L. Jessen, E. J. Moore, A. N. Thrapp, B. R. Weeks, and F. J. Clubb. 2013. "A brief review of ventricular assist devices and a recommended protocol for pathology evaluations." *Cardiovascular Pathology* 22 (5):408-415. doi: 10.1016/j.carpath.2013.02.002.
- Catledge, S. A., M. D. Fries, Y. K. Vohra, W. R. Lacefield, J. E. Lemons, S. Woodard, and R. Venugopalan. 2002. "Nanostructured ceramics for biomedical implants." *Journal of Nanoscience and Nanotechnology* 2 (3-4):293-312. doi: 10.1166/jnn.2002.116.
- Cavalheiro, David, Ana Catarina Silva, Stanimir Valtchev, J. Pamies Teixeira, and Valentina Vassilenko. 2012. "Energy Harvested from Respiratory Effort." *Biodevices: Proceedings of the International Conference on Biomedical Electronics and Devices*:388-392. doi: 10.5220/0003876703880392.

- Ceelen, W. P. 2014. "Clinical Research in Surgery: Threats and Opportunities." *European Surgical Research* 53 (1-4):95-107. doi: 10.1159/000367606.
- Censi, F., E. Mattei, M. Triventi, P. Bartolini, and G. Calcagnini. 2012. "Radiofrequency identification and medical devices: the regulatory framework on electromagnetic compatibility. Part I: medical devices." *Expert Review of Medical Devices* 9 (3):283-288. doi: 10.1586/erd.12.4.
- Cesaretti, M., and A. Zarzavadjian Le Bian. 2016. "In vivo medical imaging technologies: new possibility in diagnosis of gastric cancer." *Minerva Chirurgica* 71 (4):270-277.
- Chahoud, J., A. S. Yakan, H. Saad, and S. S. Kanj. 2016. "Right-Sided Infective Endocarditis and Pulmonary Infiltrates An Update." *Cardiology in Review* 24 (5):230-237. doi: 10.1097/crd.0000000000000095.
- Chandra, N., R. Bastiaenen, M. Papadakis, and S. Sharma. 2013. "Sudden Cardiac Death in Young Athletes." *Journal of the American College of Cardiology* 61 (10):1027-1040. doi: 10.1016/j.jacc.2012.08.1032.
- Chao, A. H., J. Meyerson, S. P. Povoski, and E. Kocak. 2013. "A review of devices used in the monitoring of microvascular free tissue transfers." *Expert Review of Medical Devices* 10 (5):649-660. doi: 10.1586/17434440.2013.827527.
- Charthad, Jayant, Marcus J. Weber, Ting Chia Chang, and Amin Arbabian. 2015. "A mm-Sized Implantable Medical Device (IMD) With Ultrasonic Power Transfer and a Hybrid Bi-Directional Data Link." *IEEE Journal of Solid-State Circuits* 50 (8):1741-1753. doi: 10.1109/JSSC.2015.2427336.
- Chen, F. J., S. Dirven, W. L. Xu, J. Bronlund, X. N. Li, and A. Pullan. 2012. "Review of the swallowing system and process for a biologically mimicking swallowing robot." *Mechatronics* 22 (5):556-567. doi: 10.1016/j.mechatronics.2012.02.005.
- Chen, Hong, Lin Yuan, Wei Song, Zhongkui Wu, and Dan Li. 2008. "Biocompatible polymer materials: Role of protein-surface interactions." *Progress in Polymer Science* 33 (11):1059-1087. doi: 10.1016/j.progpolymsci.2008.07.006.
- Chow, C. K., N. Ariyaratna, S. M. S. Islam, A. Thiagalingam, and J. Redfern. 2016. "mHealth in Cardiovascular Health Care." *Heart Lung and Circulation* 25 (8):802-807. doi: 10.1016/j.hlc.2016.04.009.
- Citron, P. 2012. "Ethics Considerations for Medical Device R&D." *Progress in Cardiovascular Diseases* 55 (3):307-315. doi: 10.1016/j.pcad.2012.08.004.

- Clark, M., J. Black, P. Alves, C. T. Brindle, E. Call, C. Dealey, and N. Santamaria. 2014. "Systematic review of the use of prophylactic dressings in the prevention of pressure ulcers." *International Wound Journal* 11 (5):460-471. doi: 10.1111/iwj.12212.
- Coffin, S. T., D. R. Waguespack, N. A. Haglund, S. Maltais, J. P. Dwyer, and M. E. Keebler. 2015. "Kidney Dysfunction and Left Ventricular Assist Device Support: A Comprehensive Perioperative Review." *Cardiorenal Medicine* 5 (1):48-60. doi: 10.1159/000369589.
- Colvard, B., Y. Georg, N. Chakfe, and L. Swanstrom. 2016. "Current aortic endografts for the treatment of abdominal aortic aneurysms." *Expert Review of Medical Devices* 13 (5):475-486. doi: 10.1586/17434440.2016.1162709.
- Conradi, L., M. Seiffert, S. Blankenberg, H. Reichenspurner, P. Diemert, and H. Treede. 2013. "What's new in transapical aortic valve implantation: clinical experience with second generation devices." *Minerva Cardioangiologica* 61 (3):341-349.
- Courvoisier, A., A. Eid, E. Bourgeois, and J. Griffet. 2015. "Growth tethering devices for idiopathic scoliosis." *Expert Review of Medical Devices* 12 (4):449-456. doi: 10.1586/17434440.2015.1052745.
- Crawford, S. A., R. M. Sanford, T. L. Forbes, C. H. Amon, and M. G. Doyle. 2016. "Clinical outcomes and material properties of in situ fenestration of endovascular stent grafts." *Journal of Vascular Surgery* 64 (1):244-250. doi: 10.1016/j.jvs.2016.03.445.
- Cui, F., M. Rhee, A. Singh, and A. Tripathi. 2015. "Microfluidic Sample Preparation for Medical Diagnostics." In *Annual Review of Biomedical Engineering, Vol 17*, edited by M. L. Yarmush, 267-286. Palo Alto: Annual Reviews.
- Davis, J., D. Sanford, J. Schilling, A. Hardi, and G. Colditz. 2015. "Systematic Review of Outcomes After Noncardiac Surgery in Patients with Implanted Left Ventricular Assist Devices." *Asaio Journal* 61 (6):648-651. doi: 10.1097/mat.0000000000000278.
- DeCicco, A. E., J. B. Finkel, A. J. Greenspon, and D. R. Frisch. 2014. "Clinical significance of atrial fibrillation detected by cardiac implantable electronic devices." *Heart Rhythm* 11 (4):719-724. doi: 10.1016/j.hrthm.2014.01.001.
- Delaunay, C. 2015. "Registries in orthopaedics." *Orthopaedics & Traumatology-Surgery & Research* 101 (1):S69-S75. doi: 10.1016/j.otsr.2014.06.029.
- Delgado, L. M., A. Pandit, and D. I. Zeugolis. 2014. "Influence of sterilisation methods on collagen-based devices stability and properties." *Expert Review of Medical Devices* 11 (3):305-314. doi: 10.1586/17434440.2014.900436.
- Deterre, Martin, Elie Lefevre, Yanan Zhu, Marion Woytasik, Bertrand Boutaud, and Renzo Dal Molin. 2014. "Micro Blood Pressure Energy Harvester for Intracardiac Pacemaker."



*Journal of Microelectromechanical Systems* 23 (3):651-660. doi:  
10.1109/JMEMS.2013.2282623.

Donovan, A., and A. V. Kaplan. 2012. "Navigating Conflicts of Interest for the Medical Device Entrepreneur." *Progress in Cardiovascular Diseases* 55 (3):316-320. doi:  
10.1016/j.pcad.2012.10.008.

Dorman, H. G. R., J. M. van Opstal, J. Stevenhagen, and M. F. Scholten. 2012. "Conductor externalization of the Riata internal cardioverter defibrillator lead: tip of the iceberg? Report of three cases and review of literature." *Europace* 14 (8):1161-1164. doi:  
10.1093/europace/eus064.

Dorozhkin, Sergey V. 2015. "Calcium orthophosphate bioceramics." *Ceramics International* 41 (10):13913-13966. doi: 10.1016/j.ceramint.2015.08.004.

dos Santos, M. P. S., J. A. F. Ferreira, A. Ramos, J. A. O. Simoes, R. Morais, N. M. Silva, P. M. Santos, M. C. Reis, and T. Oliveira. 2014. "Instrumented hip joint replacements, femoral replacements and femoral fracture stabilizers." *Expert Review of Medical Devices* 11 (6):617-635. doi: 10.1586/17434440.2014.946695.

Draenert, M. O. 2013. "Swiss Contributions to War Surgery During the Great War." *Clinical Orthopaedics and Related Research* 471 (8):2712-2725. doi: 10.1007/s11999-013-3019-2.

Dubner, S., A. Auricchio, J. S. Steinberg, P. Vardas, P. Stone, J. Brugada, R. Piotrowicz, D. L. Hayes, P. Kirchhof, G. Breithardt, W. Zareba, C. Schuger, M. K. Aktas, M. Chudzik, S. Mittal, and N. Varma. 2012. "ISHNE/EHRA Expert Consensus on Remote Monitoring of Cardiovascular Implantable Electronic Devices (CIEDs)." *Annals of Noninvasive Electrocardiology* 17 (1):36-56. doi: 10.1111/j.1542-474X.2011.00484.x.

Duffy, Rebecca M., and Adam W. Feinberg. 2014. "Engineered skeletal muscle tissue for soft robotics: fabrication strategies, current applications, and future challenges." *Wiley Interdisciplinary Reviews-Nanomedicine and Nanobiotechnology* 6 (2):178-195. doi:  
10.1002/wnan.1254.

Dwivedi, P., S. S. Narvi, and R. P. Tewari. 2013. "Application of polymer nanocomposites in the nanomedicine landscape: envisaging strategies to combat implant associated infections." *Journal of Applied Biomaterials & Functional Materials* 11 (3):129-142. doi:  
10.5301/jabfm.2013.11544.

Eberhardt, A. W., O. L. Johnson, W. B. Kirkland, J. H. Dobbs, and L. G. Moradi. 2016. "Team-Based Development of Medical Devices: An Engineering-Business Collaborative." *Journal of Biomechanical Engineering-Transactions of the Asme* 138 (7):5. doi:  
10.1115/1.4032805.

- Eggebrecht, H., A. Schmermund, P. Kahlert, R. Erbel, T. Voigtlander, and R. H. Mehta. 2013. "Emergent cardiac surgery during transcatheter aortic valve implantation (TAVI): a weighted meta-analysis of 9,251 patients from 46 studies." *Eurointervention* 8 (9):1072-1080.
- Falde, E. J., S. T. Yohe, Y. L. Colson, and M. W. Grinstaff. 2016. "Superhydrophobic materials for biomedical applications." *Biomaterials* 104:87-103. doi: 10.1016/j.biomaterials.2016.06.050.
- Fanourgiakis, J., and E. Kanoupakis. 2014. "Cardiac rhythm management devices in a magnetic resonance environment." *Expert Review of Medical Devices* 11 (2):199-203. doi: 10.1586/17434440.2014.882228.
- Felicetti, L., M. Femminella, G. Reali, and P. Lio. 2016. "Applications of molecular communications to medicine: A survey." *Nano Communication Networks* 7:27-45. doi: 10.1016/j.nancom.2015.08.004.
- Feng, Yu Hui, and Goldie Nejat. 2016. "Development of a Force Sensor Prototype for Medical Devices." *Journal of Medical Devices-Transactions of the Asme* 10 (2):020921-020921. doi: 10.1115/1.4033221.
- Ferrari, M., P. Kruzliak, and K. Spiliopoulos. 2015. "An insight into short- and long-term mechanical circulatory support systems." *Clinical Research in Cardiology* 104 (2):95-111. doi: 10.1007/s00392-014-0771-6.
- Fisher, T., A. Hamed, P. Vartholomeos, K. Masamune, G. Y. Tang, H. L. Ren, and Z. T. H. Tse. 2014. "Intraoperative magnetic resonance imaging-conditional robotic devices for therapy and diagnosis." *Proceedings of the Institution of Mechanical Engineers Part H- Journal of Engineering in Medicine* 228 (3):303-318. doi: 10.1177/0954411914524189.
- Flaherty, M. P., and K. J. Grubb. 2015. "Transcatheter Aortic Valve Replacement: Focus on Sex-Related Differences in Outcomes." *American Journal of Cardiovascular Drugs* 15 (2):95-101. doi: 10.1007/s40256-015-0110-y.
- Fracassi, F., M. Roberto, and G. Niccoli. 2013. "Current interventional coronary applications of excimer laser." *Expert Review of Medical Devices* 10 (4):541-549. doi: 10.1586/17434440.2013.811846.
- Freebairn, D., D. Linton, E. Harkin-Jones, D. S. Jones, B. F. Gilmore, and S. P. Gorman. 2013. "Electrical methods of controlling bacterial adhesion and biofilm on device surfaces." *Expert Review of Medical Devices* 10 (1):85-103. doi: 10.1586/erd.12.70.
- Freixa, X., D. Arzamendi, A. Tzikas, S. Noble, A. Basmadjian, P. Garceau, and R. Ibrahim. 2014. "Cardiac Procedures to Prevent Stroke: Patent Foramen Ovale Closure/Left Atrial

- Appendage Occlusion." *Canadian Journal of Cardiology* 30 (1):87-95. doi: 10.1016/j.cjca.2013.11.008.
- Froeschl, M., A. Hadziomerovic, and M. Ruzicka. 2014. "Percutaneous Renal Sympathetic Denervation: 2013 and Beyond." *Canadian Journal of Cardiology* 30 (1):64-74. doi: 10.1016/j.cjca.2013.11.003.
- Furniss, S. S., and J. R. Sneyd. 2015. "Safe sedation in modern cardiological practice." *Heart* 101 (19):1526-1530. doi: 10.1136/heartjnl-2015-307656.
- Gad, M., C. Kriza, A. Fidler, and P. Kolominsky-Rabas. 2016. "Accessing the medical devices market in Egypt and Saudi Arabia: a systematic review of policies and regulations." *Expert Review of Medical Devices* 13 (7):683-696. doi: 10.1080/17434440.2016.1195256.
- Garcia, M. A. G., M. A. R. Arenas, R. R. Granell, F. J. C. Gasco, and A. M. Cornejo. 2016. "Usefulness of cardiac resynchronisation therapy devices and implantable cardioverter defibrillators in the treatment of heart failure due to severe systolic dysfunction: systematic review of clinical trials and network meta-analysis." *Heart Asia* 8 (1):8-15. doi: 10.1136/heartasia-2015-010634.
- Gass, A. L., A. Emaminia, G. Lanier, C. Aggarwal, K. A. Brown, M. Raffa, M. Kai, D. Spielvogel, R. Malekan, G. Tang, and S. Lansman. 2015. "Cardiac Transplantation in the New Era." *Cardiology in Review* 23 (4):182-188. doi: 10.1097/crd.0000000000000066.
- Gaxiola-Sosa, Jesus Efrain, and Kamran Entesari. 2015. "Design and implementation of a wireless medical system prototype for implantable applications." *Analog Integrated Circuits and Signal Processing* 82 (1):99-111. doi: 10.1007/s10470-014-0446-2.
- Gerstenfeld, E. P., and S. Duggirala. 2015. "Atrial Fibrillation Ablation: Indications, Emerging Techniques, and Follow-Up." *Progress in Cardiovascular Diseases* 58 (2):202-212. doi: 10.1016/j.pcad.2015.07.008.
- Ghasemzadeh, H., S. Ostadabbas, E. Guenterberg, and A. Pantelopoulos. 2013. "Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification." *Ieee Sensors Journal* 13 (2):423-437. doi: 10.1109/jsen.2012.2222572.
- Ghista, D. N., and F. Kabinejadian. 2013. "Coronary artery bypass grafting hemodynamics and anastomosis design: a biomedical engineering review." *Biomedical Engineering Online* 12:28. doi: 10.1186/1475-925x-12-129.
- Gilmour, A. D., A. J. Woolley, L. A. Poole-Warren, C. E. Thomson, and R. A. Green. 2016. "A critical review of cell culture strategies for modelling intracortical brain implant material reactions." *Biomaterials* 91:23-43. doi: 10.1016/j.biomaterials.2016.03.011.

- Gleysteen, J. J. 2016. "A history of intragastric balloons." *Surgery for Obesity and Related Diseases* 12 (2):430-435. doi: 10.1016/j.soard.2015.10.074.
- Gmeiner, R., U. Deisinger, J. Schoenherr, B. Lechner, R. Detsch, A. R. Boccaccini, and J. Stampfl. 2015. "Additive Manufacturing of Bioactive Glasses and Silicate Bioceramics." *Journal of Ceramic Science and Technology* 6 (2):75-86. doi: 10.4416/JCST2015-00001.
- Goffredo, R., D. Accoto, and E. Guglielmelli. 2015. "Swallowable smart pills for local drug delivery: present status and future perspectives." *Expert Review of Medical Devices* 12 (5):585-599. doi: 10.1586/17434440.2015.1061933.
- Gomez, J., and C. Soledispa. 2012. "Redirection of Anomalous Venous Pulmonary Flow to Left Atrium Using a Vascular Plug II." *Journal of Invasive Cardiology* 24 (5):E96-E98.
- Gonzalez, F. M., A. P. Finch, P. Armeni, P. R. Boscolo, and R. Tarricone. 2015. "Comparative effectiveness of Mitraclip plus medical therapy versus medical therapy alone in high-risk surgical patients: a comprehensive review." *Expert Review of Medical Devices* 12 (4):471-485. doi: 10.1586/17434440.2015.1054807.
- Gooley, R., J. D. Cameron, and I. T. Meredith. 2015. "Transcatheter Aortic Valve Implantation - Yesterday, Today and Tomorrow." *Heart Lung and Circulation* 24 (12):1149-1161. doi: 10.1016/j.hlc.2015.07.017.
- Govil, A., and S. C. Hao. 2016. "Integration of new technology into clinical practice after FDA approval." *Journal of Interventional Cardiac Electrophysiology* 47 (1):19-27. doi: 10.1007/s10840-016-0171-0.
- Greenspan, D. C. 1999. "Bioactive ceramic implant materials." *Current Opinion in Solid State & Materials Science* 4 (4):389-393. doi: 10.1016/S1359-0286(99)00021-2.
- Grignon, B., L. Mainard, M. Delion, C. Hodez, and G. Oldrini. 2012. "Recent advances in medical imaging: anatomical and clinical applications." *Surgical and Radiologic Anatomy* 34 (8):675-686. doi: 10.1007/s00276-012-0985-0.
- Grinstein, J., and D. Burkhoff. 2015. "Innovative devices for advanced heart failure: exploring the current state and future direction of device therapies." *Current Opinion in Cardiology* 30 (3):267-276. doi: 10.1097/hco.000000000000169.
- Groen, N., M. Guvendiren, H. Rabitz, W. J. Welsh, J. Kohn, and J. de Boer. 2016. "Stepping into the omics era: Opportunities and challenges for biomaterials science and engineering." *Acta Biomaterialia* 34:133-142. doi: 10.1016/j.actbio.2016.02.015.
- Guazzi, M., and V. Labate. 2016. "Group 2 PH: Medical Therapy." *Progress in Cardiovascular Diseases* 59 (1):71-77. doi: 10.1016/j.pcad.2016.06.003.

- Guiraud, D., D. Andreu, S. Bonnet, G. Carrault, P. Couderc, A. Hagege, C. Henry, A. Hernandez, N. Karam, V. Le Rolle, P. Mabo, P. Maciejasz, C. H. Malbert, E. Marijon, S. Maubert, C. Picq, O. Rossel, and J. L. Bonnet. 2016. "Vagus nerve stimulation: state of the art of stimulation and recording strategies to address autonomic function neuromodulation." *Journal of Neural Engineering* 13 (4):21. doi: 10.1088/1741-2560/13/4/041002.
- Gurman, P., A. Chi, T. Hood, M. Reina, Y. Rosen, S. D'Hers, and N. Elman. 2014. "Prefilled devices for parenteral applications." *Expert Review of Medical Devices* 11 (2):205-223. doi: 10.1586/17434440.2014.882227.
- Gurne, O., V. Conraads, L. Missault, W. Mullens, J. L. Vachiery, W. Van Mieghem, W. Droogne, A. C. Pouleur, P. Troisfontaine, S. Huez, E. Nellesens, B. Peperstraete, P. Blouard, J. Vanhaecke, D. Raes, and Failure Belgian Working Grp Heart. 2012. "A critical review on telemonitoring in heart failure." *Acta Cardiologica* 67 (4):439-444. doi: 10.2143/ac.67.4.2170685.
- Gutierrez-Chico, J. L., D. Jochheim, and J. Mehilli. 2013. "Biodegradable-polymer-based drug-eluting stent for left main coronary artery disease." *Minerva Cardioangiologica* 61 (5):563-574.
- Hached, Sami, Aref Trigui, Imane El Khalloufi, Mohamad Sawan, Oleg Loutochin, and Jacques Corcos. 2014. "A Bluetooth-based Low-energy Qi-compliant Battery Charger for Implantable Medical Devices." *2014 Ieee International Symposium on Bioelectronics and Bioinformatics (Isbb)*.
- Haeck, M. L. A., G. E. Hoogslag, S. F. Rodrigo, D. E. Atsma, R. J. Klautz, E. E. van der Wall, M. J. Schalij, and H. F. Verwey. 2012. "Treatment options in end-stage heart failure: where to go from here?" *Netherlands Heart Journal* 20 (4):167-175. doi: 10.1007/s12471-011-0211-4.
- Hamm, C. W., M. Arsalan, and M. J. Mack. 2016. "The future of transcatheter aortic valve implantation." *European Heart Journal* 37 (10):803-U76. doi: 10.1093/eurheartj/ehv574.
- Hampton, D. R. 2014. "Steps required to inclusion in commercial ECG analysis systems - the new ECG indices for quantitating extent, acuteness and severity of acute myocardial ischemia for facilitating emergency triage decisions." *Journal of Electrocardiology* 47 (4):577-582. doi: 10.1016/j.jelectrocard.2014.04.019.
- Hannan, M. A., S. Mutashar, S. A. Samad, and A. Hussain. 2014. "Energy harvesting for the implantable biomedical devices: issues and challenges." *Biomedical Engineering Online* 13:23. doi: 10.1186/1475-925x-13-79.
- Hannawi, B., H. Ibrahim, and C. M. Barker. 2015. "Renal Denervation: Past, Present, and Future." *Reviews in Cardiovascular Medicine* 16 (2):114-124. doi: 10.3909/ricm0755.

- Hariharan, D., and D. N. Lobo. 2013. "Retained surgical sponges, needles and instruments." *Annals of the Royal College of Surgeons of England* 95 (2):87-92. doi: 10.1308/003588413x13511609957218.
- Harris, D., K. Horner, K. Grondahl, R. Jacobs, E. Helmrot, G. I. Benic, M. M. Bornstein, A. Dawood, and M. Quirynen. 2012. "E.A.O. guidelines for the use of diagnostic imaging in implant dentistry 2011. A consensus workshop organized by the European Association for Osseointegration at the Medical University of Warsaw." *Clinical Oral Implants Research* 23 (11):1243-1253. doi: 10.1111/j.1600-0501.2012.02441.x.
- Harskamp, R. E., R. D. Lopes, C. E. Baisden, R. J. de Winter, and J. H. Alexander. 2013. "Saphenous Vein Graft Failure After Coronary Artery Bypass Surgery Pathophysiology, Management, and Future Directions." *Annals of Surgery* 257 (5):824-833. doi: 10.1097/SLA.0b013e318288c38d.
- Hascoet, S., K. Warin-Fresse, A. E. Baruteau, K. Hadeed, C. Karsenty, J. Petit, P. Guerin, A. Fraisse, and P. Acar. 2016. "Cardiac imaging of congenital heart diseases during interventional procedures continues to evolve: Pros and cons of the main techniques." *Archives of Cardiovascular Diseases* 109 (2):128-142. doi: 10.1016/j.acvd.2015.11.011.
- Hearon, Keith, Mark A. Wierzbicki, Landon D. Nash, Todd L. Landsman, Christine Laramy, Alexander T. Lonnecker, Michael C. Gibbons, Sarah Ur, Kristen O. Cardinal, Thomas S. Wilson, Karen L. Wooley, and Duncan J. Maitland. 2015. "A Processable Shape Memory Polymer System for Biomedical Applications." *Advanced Healthcare Materials* 4 (9):1386-1398. doi: 10.1002/adhm.201500156.
- Hellawell, J. L., and K. B. Margulies. 2012. "Myocardial Reverse Remodeling." *Cardiovascular Therapeutics* 30 (3):172-181. doi: 10.1111/j.1755-5922.2010.00247.x.
- Holmes, D. R., R. Califf, A. Farb, D. Abel, M. Mack, T. S. Jensen, B. Zuckerman, M. Leon, and J. Shuren. 2016. "Overcoming the Challenges of Conducting Early Feasibility Studies of Medical Devices in the United States." *Journal of the American College of Cardiology* 68 (17):1908-1915. doi: 10.1016/j.jacc.2016.07.769.
- Hu, Ke, Vijay Sivaraman, Blanca Gallego Luxan, and Ashfaqur Rahman. 2016. "Design and Evaluation of a Metropolitan Air Pollution Sensing System." *Ieee Sensors Journal* 16 (5):1448-1459. doi: 10.1109/JSEN.2015.2499308.
- Huang, Y. H., A. S. S. Vasani, R. Doraiswami, M. Osterman, and M. Pecht. 2012. "MEMS Reliability Review." *Ieee Transactions on Device and Materials Reliability* 12 (2):482-493. doi: 10.1109/tdmr.2012.2191291.
- Ihnat, P., L. I. Rudinska, and P. Zonca. 2014. "Radiofrequency energy in surgery: state of the art." *Surgery Today* 44 (6):985-991. doi: 10.1007/s00595-013-0630-5.

- Inigo, M., J. Peman, and J. L. Del Pozo. 2012. "Antifungal activity against Candida biofilms." *International Journal of Artificial Organs* 35 (10):780-791. doi: 10.5301/ijao.5000170.
- Isbary, G., T. Shimizu, Y. F. Li, W. Stolz, H. M. Thomas, G. E. Morfill, and J. L. Zimmermann. 2013. "Cold atmospheric plasma devices for medical issues." *Expert Review of Medical Devices* 10 (3):367-377. doi: 10.1586/erd.13.4.
- Islam, M. A., K. Sundaraj, R. B. Ahmad, N. U. Ahamed, and M. A. Ali. 2013. "Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review." *Ieee Sensors Journal* 13 (7):2499-2516. doi: 10.1109/jsen.2013.2255982.
- Islam, N., and M. J. Cleary. 2012. "Developing an efficient and reliable dry powder inhaler for pulmonary drug delivery - A review for multidisciplinary researchers." *Medical Engineering & Physics* 34 (4):409-427. doi: 10.1016/j.medengphy.2011.12.025.
- Islam, S., C. Cevik, R. Madonna, W. Frandah, E. Islam, and K. Nugent. 2013. "Left Ventricular Assist Devices and Gastrointestinal Bleeding: A Narrative Review of Case Reports and Case Series." *Clinical Cardiology* 36 (4):190-200. doi: 10.1002/clc.22096.
- Ivey, K. M., C. E. White, T. E. Wallum, J. K. Aden, J. W. Cannon, K. K. Chung, J. D. McNeil, S. M. Cohn, and L. H. Blackbourne. 2012. "Thoracic injuries in US combat casualties: A 10-year review of Operation Enduring Freedom and Iraqi Freedom." *Journal of Trauma and Acute Care Surgery* 73:S514-S519.
- Jain, A., L. S. Duvvuri, S. Farah, N. Beyth, A. J. Domb, and W. Khan. 2014. "Antimicrobial Polymers." *Advanced Healthcare Materials* 3 (12):1969-1985. doi: 10.1002/adhm.201400418.
- Jakus, Adam E., Alexandra L. Rutz, and Ramille N. Shah. 2016. "Advancing the field of 3D biomaterial printing." *Biomedical Materials* 11 (1):014102-014102. doi: 10.1088/1748-6041/11/1/014102.
- Jones, B. M., S. R. Kapadia, N. G. Smedira, M. Robich, E. M. Tuzcu, V. Menon, and A. Krishnaswamy. 2014. "Ventricular septal rupture complicating acute myocardial infarction: a contemporary review." *European Heart Journal* 35 (31):2060-2068. doi: 10.1093/eurheartj/ehu248.
- Jones, Julian R. 2013. "Review of bioactive glass: From Hench to hybrids." *Acta Biomaterialia* 9 (1):4457-4486. doi: 10.1016/j.actbio.2012.08.023.
- Joung, Yeun-Ho. 2013. "Development of Implantable Medical Devices: From an Engineering Perspective." *International Neurology Journal* 17 (3):98-106. doi: 10.5213/inj.2013.17.3.98.

- Jung, J. S., H. S. Son, S. H. Lee, K. H. Lee, K. H. Son, and K. Sun. 2013. "Successful Extracorporeal Membrane Oxygenation for Right Heart Failure After Heart Transplantation-2 Case Reports and Literature Review." *Transplantation Proceedings* 45 (8):3147-3149. doi: 10.1016/j.transproceed.2013.08.034.
- Junge, K., M. Binnebosel, K. T. von Trotha, R. Rosch, U. Klinge, U. P. Neumann, and P. L. Jansen. 2012. "Mesh biocompatibility: effects of cellular inflammation and tissue remodelling." *Langenbecks Archives of Surgery* 397 (2):255-270. doi: 10.1007/s00423-011-0780-0.
- Kadokia, S., R. Moore, V. Ambur, and Y. Toyoda. 2016. "Current status of the implantable LVAD." *General Thoracic and Cardiovascular Surgery* 64 (9):501-508. doi: 10.1007/s11748-016-0671-y.
- Kakagia, D. 2015. "How to Close a Limb Fasciotomy Wound: An Overview of Current Techniques." *International Journal of Lower Extremity Wounds* 14 (3):268-276. doi: 10.1177/1534734614550310.
- Kakisis, J. D., E. D. Avgerinos, C. N. Antonopoulos, T. G. Giannakopoulos, K. Moulakakis, and C. D. Liapis. 2012. "The European Society for Vascular Surgery Guidelines for Carotid Intervention: An Updated Independent Assessment and Literature Review." *European Journal of Vascular and Endovascular Surgery* 44 (3):238-243. doi: 10.1016/j.ejvs.2012.04.015.
- Kanehira, E., M. M. Lirici, A. Melzer, M. O. Schurr, and E. Hermann-Decker. 2013. "25 years of SMIT: The past, the present, and the future of minimally invasive therapy." *Minimally Invasive Therapy & Allied Technologies* 22 (4):194-199. doi: 10.3109/13645706.2013.821998.
- Kantoch, E., P. Augustyniak, M. Markiewicz, and D. Prusak. 2014. "Monitoring activities of daily living based on wearable wireless body sensor network." *IEEE Engineering in Medicine and Biology Society Conference Proceedings*:586-589.
- Karimov, J. H., A. L. Massiello, and K. Fukamachi. 2013. "Overview of current sutureless and transcatheter mitral valve replacement technology." *Expert Review of Medical Devices* 10 (1):73-83. doi: 10.1586/erd.12.66.
- Kasirajan, V., D. G. Tang, G. J. Katlaps, and K. B. Shah. 2012. "The total artificial heart for biventricular heart failure and beyond." *Current Opinion in Cardiology* 27 (3):301-307. doi: 10.1097/HCO.0b013e32835220c9.
- Kassahun, Y., B. B. Yu, A. T. Tibebu, D. Stoyanov, S. Giannarou, J. H. Metzen, and E. Vander Poorten. 2016. "Surgical robotics beyond enhanced dexterity instrumentation: a survey of machine learning techniques and their role in intelligent and autonomous surgical actions." *International Journal of Computer Assisted Radiology and Surgery* 11 (4):553-568. doi: 10.1007/s11548-015-1305-z.



- Kaufmann, F., and T. Krabatsch. 2016. "Using medical imaging for the detection of adverse events ("incidents") during the utilization of left ventricular assist devices in adult patients with advanced heart failure." *Expert Review of Medical Devices* 13 (5):463-474. doi: 10.1586/17434440.2016.1166051.
- Kemp, C. D., and J. V. Conte. 2012. "The pathophysiology of heart failure." *Cardiovascular Pathology* 21 (5):365-371. doi: 10.1016/j.carpath.2011.11.007.
- Kennedy, H. L. 2015. "Silent Atrial Fibrillation: Definition, Clarification, and Unanswered Issues." *Annals of Noninvasive Electrocardiology* 20 (6):518-525. doi: 10.1111/anec.12307.
- Kent, K. M., and E. M. Graber. 2012. "Laser Tattoo Removal: A Review." *Dermatologic Surgery* 38 (1):1-13. doi: 10.1111/j.1524-4725.2011.02187.x.
- Khan, Ferdous, Masaru Tanaka, and Sheikh Rafi Ahmad. 2015. "Fabrication of polymeric biomaterials: a strategy for tissue engineering and medical devices." *Journal of Materials Chemistry B* 3 (42):8224-8249. doi: 10.1039/c5tb01370d.
- Khan, Tareq H., Ravi Shrestha, Khan A. Wahid, and Paul Babyn. 2015. "Design of a smart-device and FPGA based wireless capsule endoscopic system." *Sensors and Actuators A-Physical* 221:77-87. doi: 10.1016/j.sna.2014.10.033.
- Kneissl, M., J. Rass, L. Schade, and U. T. Schwarz. 2013. "Growth and Optical Properties of GaN-Based Non- and Semipolar LEDs." In *III-Nitride Based Light Emitting Diodes and Applications*, edited by T. Y. Seong, J. Han, H. Amano and H. Morkoc, 83-119. Berlin: Springer-Verlag Berlin.
- Kong, Kyoungchul, Sehyuk Yim, Sunhee Choi, and Doyoung Jeon. 2012. "A Robotic Biopsy Device for Capsule Endoscopy." *Journal of Medical Devices-Transactions of the Asme* 6 (3):031004-031004. doi: 10.1115/1.4007100.
- Konigstein, M., S. Verheye, E. M. Jolicoeur, and S. Banai. 2016. "Narrowing of the Coronary Sinus A Device-Based Therapy for Persistent Angina Pectoris." *Cardiology in Review* 24 (5):238-243. doi: 10.1097/crd.000000000000101.
- Krieger, E. V., and A. M. Valente. 2014. "Heart failure treatment in adults with congenital heart disease: where do we stand in 2014?" *Heart* 100 (17):1329-1334. doi: 10.1136/heartjnl-2014-305667.
- Kucklick, Theodore R., and T. R. Kucklick. 2013. *Rapid Prototyping for Medical Devices*.
- Kumar, Alok, Sourav Mandal, Srimanta Barui, Ramakrishna Vasireddi, Uwe Gbureck, Michael Gelinsky, and Bikramjit Basu. 2016. "Low temperature additive manufacturing of three dimensional scaffolds for bone-tissue engineering applications: Processing related

- challenges and property assessment.” *Materials Science & Engineering R-Reports* 103:III-39. doi: 10.1016/j.mserr.2016.01.001.
- Kumar, Nitish, Olivier Piccin, Laurence Meylheuc, Laurent Barbe, and Bernard Bayle. 2016. “Design and Modeling of a Polymer Force Sensor.” *Ieee-Asme Transactions on Mechatronics* 21 (1):555-564. doi: 10.1109/TMECH.2015.2448662.
- Kumar, R., A. Latib, A. Colombo, and C. E. Ruiz. 2014. “Self-Expanding Prostheses for Transcatheter Aortic Valve Replacement.” *Progress in Cardiovascular Diseases* 56 (6):596-609. doi: 10.1016/j.pcad.2014.03.002.
- Kuo, C. H., J. S. Dai, and P. Dasgupta. 2012. “Kinematic design considerations for minimally invasive surgical robots: an overview.” *International Journal of Medical Robotics and Computer Assisted Surgery* 8 (2):127-145. doi: 10.1002/rcs.453.
- Kurita, Yuichi, Fuyuki Sugihara, Jun Ueda, and Tsukasa Ogasawara. 2012. “Piezoelectric Tweezer-Type End Effector With Force- and Displacement-Sensing Capability.” *Ieee-Asme Transactions on Mechatronics* 17 (6):1039-1048. doi: 10.1109/TMECH.2011.2157830.
- Kurosawa, K., J. S. Matsumura, and D. Yamanouchi. 2013. “Current Status of Medical Treatment for Abdominal Aortic Aneurysm.” *Circulation Journal* 77 (12):2860-2866. doi: 10.1253/circj.CJ-13-1252.
- Kyo, S., T. Minami, T. Nishimura, S. Gojo, and M. Ono. 2012. “New era for therapeutic strategy for heart failure: Destination therapy by left ventricular assist device.” *Journal of Cardiology* 59 (2):101-109. doi: 10.1016/j.jjcc.2012.01.001.
- Laccourreye, O., A. Werner, I. McGill, and F. C. Holsinger. 2016. “Clar as Mud? Origins of the head mirror: A historical note.” *Head and Neck-Journal for the Sciences and Specialties of the Head and Neck* 38 (6):930-932. doi: 10.1002/hed.24093.
- Lamichhane, M., A. Safadi, P. Surapaneni, N. Salehi, and R. K. Thakur. 2016. “Use of the Wearable Cardioverter Defibrillator in High-Risk Populations.” *Current Cardiology Reports* 18 (8):8. doi: 10.1007/s11886-016-0746-5.
- Le, Viet Ha, Leon-Rodriguez Hernando, Cheong Lee, Hyunchul Choi, Zhen Jin, Nguyen Kim Tien, Gwangjun Go, Seong-Young Ko, Jong-Oh Park, and Sukho Park. 2015. “Shape memory alloy-based biopsy device for active locomotive intestinal capsule endoscope.” *Proceedings of the Institution of Mechanical Engineers Part H-Journal of Engineering in Medicine* 229 (3):255-263. doi: 10.1177/0954411915576946.
- Lee, Wing-Hin, Ching-Yee Loo, and Ramin Rohanzadeh. 2014. “A review of chemical surface modification of bioceramics: Effects on protein adsorption and cellular response.” *Colloids and Surfaces B-Biointerfaces* 122:823-834. doi: 10.1016/j.colsurfb.2014.07.029.

- Lei, Wen, Hui Chu, and Yong-Xin Guo. 2016. "Design of a Circularly Polarized Ground Radiation Antenna for Biomedical Applications." *Ieee Transactions on Antennas and Propagation* 64 (6):2535-2540. doi: 10.1109/TAP.2016.2552551.
- Lelasi, A., M. C. Todaro, G. Grigis, and M. Tespili. 2016. "Coronary Sinus Reducer system (TM): A new therapeutic option in refractory angina patients unsuitable for revascularization." *International Journal of Cardiology* 209:122-130. doi: 10.1016/j.ijcard.2016.02.018.
- Lerner, H., J. Whang, and R. Nipper. 2013. "Benefit-risk paradigm for clinical trial design of obesity devices: FDA proposal." *Surgical Endoscopy and Other Interventional Techniques* 27 (3):702-707. doi: 10.1007/s00464-012-2724-3.
- Leung, S., and S. Danik. 2016. "Prevention, Diagnosis, and Treatment of Cardiac Implantable Electronic Device Infections." *Current Cardiology Reports* 18 (6):7. doi: 10.1007/s11886-016-0733-x.
- Li, D., S. B. Lin, and B. Cheng. 2016. "Intense Pulsed Light: From the Past to the Future." *Photomedicine and Laser Surgery* 34 (10):435-447. doi: 10.1089/pho.2016.4139.
- Li, X. M., W. Liu, L. W. Sun, K. E. Aifantis, B. Yu, Y. B. Fan, Q. L. Feng, F. Z. Cui, and F. Watari. 2015. "Effects of physicochemical properties of nanomaterials on their toxicity." *Journal of Biomedical Materials Research Part A* 103 (7):2499-2507. doi: 10.1002/jbm.a.35384.
- Liang, T., and Y. J. Yuan. 2016. "Wearable Medical Monitoring Systems Based on Wireless Networks: A Review." *Ieee Sensors Journal* 16 (23):8186-8199. doi: 10.1109/jsen.2016.2597312.
- Lieber, B., B. E. S. Taylor, G. Appelboom, G. McKhann, and E. S. Connolly. 2015. "Motion Sensors to Assess and Monitor Medical and Surgical Management of Parkinson Disease." *World Neurosurgery* 84 (2):561-566. doi: 10.1016/j.wneu.2015.03.024.
- Litmathe, J., T. Haarmeier, L. Zizlsperger, C. Sucker, and J. B. Schulz. 2015. "Can We Close the Discussion on PFO-Closure?" *Hellenic Journal of Cardiology* 56 (3):247-257.
- Loffler, S., B. Libberton, and A. Richter-Dahlfors. 2015. "Organic Bioelectronic Tools for Biomedical Applications." *Electronics* 4 (4):879-908. doi: 10.3390/electronics4040879.
- Logan, A. G. 2013. "Transforming Hypertension Management Using Mobile Health Technology for Telemonitoring and Self-Care Support." *Canadian Journal of Cardiology* 29 (5):579-585. doi: 10.1016/j.cjca.2013.02.024.
- Loh, J. P., I. M. Barbash, and R. Waksman. 2013. "Overview of the 2011 Food and Drug Administration Circulatory System Devices Panel of the Medical Devices Advisory Committee Meeting on the CardioMEMS Champion Heart Failure Monitoring System."

*Journal of the American College of Cardiology* 61 (15):1571-1576. doi: 10.1016/j.jacc.2012.08.1035.

- Low, Fan-Zhe, Hong Han Tan, Jeong Hoon Lim, and Chen-Hua Yeow. 2016. "Development of a Soft Pneumatic Sock for Robot-Assisted Ankle Exercise." *Journal of Medical Devices-Transactions of the Asme* 10 (1):014503-014503. doi: 10.1115/1.4032616.
- Lunze, K., T. Singh, M. Walter, M. D. Brendel, and S. Leonhardt. 2013. "Blood glucose control algorithms for type 1 diabetic patients: A methodological review." *Biomedical Signal Processing and Control* 8 (2):107-119. doi: 10.1016/j.bspc.2012.09.003.
- Luo, H. Y., Z. C. Huang, and T. Zhu. 2015. "A Survey on Spectrum Utilization in Wireless Sensor Networks." *Journal of Sensors*:13. doi: 10.1155/2015/624610.
- Luo, Y. H. L., E. Fukushige, and L. Da Cruz. 2016. "The potential of the second sight system bionic eye implant for partial sight restoration." *Expert Review of Medical Devices* 13 (7):673-681. doi: 10.1080/17434440.2016.1195257.
- Maak, T. G., and J. D. Wylie. 2016. "Medical Device Regulation: A Comparison of the United States and the European Union." *Journal of the American Academy of Orthopaedic Surgeons* 24 (8):538-544. doi: 10.5435/jaaos-d-15-00403.
- MacGowan, G. A., and S. Schueler. 2012. "Right heart failure after left ventricular assist device implantation: early and late." *Current Opinion in Cardiology* 27 (3):296-300. doi: 10.1097/HCO.0b013e3283511e60.
- Madhavan, M. V., M. Tarigopula, G. S. Mintz, A. Maehara, G. W. Stone, and P. Genereux. 2014. "Coronary Artery Calcification Pathogenesis and Prognostic Implications." *Journal of the American College of Cardiology* 63 (17):1703-1714. doi: 10.1016/j.jacc.2014.01.017.
- Mahdis, S., and C. Youngjae. 2015. "An overview of thin film nitinol endovascular devices." *Acta Biomaterialia* 21:20-34. doi: 10.1016/j.actbio.2015.03.025.
- Maillard, N., F. Perrotton, E. Delage, J. B. Gourraud, G. Lande, A. Solnon, V. Probst, G. Grimandi, and J. Clouet. 2014. "Cardiac remote monitoring in France." *Archives of Cardiovascular Diseases* 107 (4):253-260. doi: 10.1016/j.acvd.2014.02.004.
- Major, T. C., H. Handa, G. M. Annich, and R. H. Bartlett. 2014. "Development and hemocompatibility testing of nitric oxide releasing polymers using a rabbit model of thrombogenicity." *Journal of Biomaterials Applications* 29 (4):479-501. doi: 10.1177/0885328214538866.
- Malchesky, P. S. 2016. "Artificial Organs 2015: A Year in Review." *Artificial Organs* 40 (3):294-321. doi: 10.1111/aor.12707.

- Maltais, S., and J. M. Stulak. 2016. "Right and left ventricular assist devices support and liver dysfunction: prognostic and therapeutic implications." *Current Opinion in Cardiology* 31 (3):287-291. doi: 10.1097/hco.000000000000288.
- Mann, D. L., P. M. Barger, and D. Burkhoff. 2012. "Myocardial Recovery and the Failing Heart Myth, Magic, or Molecular Target?" *Journal of the American College of Cardiology* 60 (24):2465-2472. doi: 10.1016/j.jacc.2012.06.062.
- Mansouri, A., B. Cooper, S. M. Shin, and D. Kondziolka. 2016. "Randomized controlled trials and neurosurgery: the ideal fit or should alternative methodologies be considered?" *Journal of Neurosurgery* 124 (2):558-568. doi: 10.3171/2014.12.jns142465.
- Mark, D. B. 2016. "Assessing quality-of-life outcomes in cardiovascular clinical research." *Nature Reviews Cardiology* 13 (5):286-308. doi: 10.1038/nrcardio.2016.10.
- Markovic, Miroslav, Michael Rapin, Marc Correvo, and Yves Perriard. 2013. "Design and Optimization of A Blood Pump for A Wearable Artificial Kidney Device." *IEEE Transactions on Industry Applications* 49 (5). doi: 10.1109/TIA.2013.2260851.
- Marks, S. J., and S. Khera. 2016. "Cryptogenic Stroke Making the Management Less Cryptic." *Cardiology in Review* 24 (4):153-157. doi: 10.1097/crd.000000000000073.
- Mastenbroek, M. H., S. S. Pedersen, H. Versteeg, P. A. Doevendans, and M. Meine. 2014. "State of the art of ICD programming: Lessons learned and future directions." *Netherlands Heart Journal* 22 (10):415-420. doi: 10.1007/s12471-014-0582-4.
- Mastoris, I., M. M. Schoos, G. D. Dangas, and R. Mehran. 2014. "Stroke After Transcatheter Aortic Valve Replacement: Incidence, Risk Factors, Prognosis, and Preventive Strategies." *Clinical Cardiology* 37 (12):756-764. doi: 10.1002/clc.22328.
- Mathew, M. T., S. Kerwell, H. J. Lundberg, C. Sukotjo, and L. G. Mercuri. 2014. "Tribocorrosion and oral and maxillofacial surgical devices." *British Journal of Oral & Maxillofacial Surgery* 52 (5):396-400. doi: 10.1016/j.bjoms.2014.02.010.
- Mattei, E., F. Censi, M. Triventi, P. Bartolini, and G. Calcagnini. 2012. "Radiofrequency identification and medical devices: the regulatory framework on electromagnetic compatibility. Part II: active implantable medical devices." *Expert Review of Medical Devices* 9 (3):289-297. doi: 10.1586/erd.12.5.
- Mattei, T. A., and A. A. Rehman. 2015. "'Extremely minimally invasive': recent advances in nanotechnology research and future applications in neurosurgery." *Neurosurgical Review* 38 (1):27-37. doi: 10.1007/s10143-014-0566-2.
- McFadden, J. T. 2012. "Magnetic resonance imaging and aneurysm clips A review." *Journal of Neurosurgery* 117 (1):1-11. doi: 10.3171/2012.1.jns111786.

- Miller, L. W., and M. Guglin. 2013. "Patient Selection for Ventricular Assist Devices A Moving Target." *Journal of the American College of Cardiology* 61 (12):1209-1221. doi: 10.1016/j.jacc.2012.08.1029.
- Mirabel, M., D. Celermajer, A. S. Beraud, X. Jouven, E. Marijon, and A. A. Hagege. 2015. "Pocket-sized focused cardiac ultrasound: Strengths and limitations." *Archives of Cardiovascular Diseases* 108 (3):197-205. doi: 10.1016/j.acvd.2015.01.002.
- Misiri, J., F. Kusumoto, and N. Goldschlager. 2012a. "Electromagnetic Interference and Implanted Cardiac Devices: The Medical Environment (Part II)." *Clinical Cardiology* 35 (6):321-328. doi: 10.1002/clc.21997.
- Misiri, J., F. Kusumoto, and N. Goldschlager. 2012b. "Electromagnetic Interference and Implanted Cardiac Devices: The Nonmedical Environment (Part I)." *Clinical Cardiology* 35 (5):276-280. doi: 10.1002/clc.21998.
- Mitrasinovic, S., E. Camacho, N. Trivedi, J. Logan, C. Campbell, R. Zilinyi, B. Lieber, E. Bruce, B. Taylor, D. Martineau, E. L. P. Dumont, G. Appelboom, and E. S. Connolly. 2015. "Clinical and surgical applications of smart glasses." *Technology and Health Care* 23 (4):381-401. doi: 10.3233/thc-150910.
- Miyagawa, S., K. Toda, T. Nakamura, Y. Yoshikawa, S. Fukushima, S. Saito, D. Yoshioka, T. Saito, and Y. Sawa. 2016. "Building a bridge to recovery: the pathophysiology of LVAD-induced reverse modeling in heart failure." *Surgery Today* 46 (2):149-154. doi: 10.1007/s00595-015-1149-8.
- Mobasheri, M. H., M. Johnston, U. M. Syed, D. King, and A. Darzi. 2015. "The uses of smartphones and tablet devices in surgery: A systematic review of the literature." *Surgery* 158 (5):1352-1371. doi: 10.1016/j.surg.2015.03.029.
- Mohammadi, H., M. Sepantafar, and A. Ostadrahimi. 2015. "The Role of Bioinorganics in Improving the Mechanical Properties of Silicate Ceramics as Bone Regenerative Materials." *Journal of Ceramic Science and Technology* 6 (1):1-7. doi: 10.4416/JCST2014-00043.
- Mondesert, B., S. Abadir, and P. Khairy. 2013. "Arrhythmias in adult congenital heart disease: the year in review." *Current Opinion in Cardiology* 28 (3):354-359. doi: 10.1097/HCO.0b013e32835fb7c2.
- Mookadam, F., S. F. Raslan, P. Jiamsripong, U. Jalal, and M. H. Murad. 2012. "Percutaneous Closure of Mitral Paravalvular Leaks: A Systematic Review and Meta-Analysis." *Journal of Heart Valve Disease* 21 (2):208-217.

- Mosteller, Matthew, Mark Austin, Reza Ghodssi, and Shah-An Yang. 2015. "Platforms for Engineering Biomedical Experiments." *Ieee Systems Journal* 9 (4):1218-1228. doi: 10.1109/JSYST.2014.2336172.
- Mosti, G. 2013. "Post-treatment compression: duration and techniques." *Phlebology* 28:21-24. doi: 10.1177/0268355513475955.
- Mukku, R. B., G. C. Fonarow, K. E. Watson, O. A. Ajjola, E. C. Depasquale, A. Nsair, A. S. Baas, M. C. Deng, and E. H. Yang. 2016. "Heart Failure Therapies for End-Stage Chemotherapy-Induced Cardiomyopathy." *Journal of Cardiac Failure* 22 (6):439-448. doi: 10.1016/j.cardfail.2016.04.009.
- Mulder, G., M. Tenenhaus, and G. F. D'Souza. 2014. "Reduction of Diabetic Foot Ulcer Healing Times Through Use of Advanced Treatment Modalities." *International Journal of Lower Extremity Wounds* 13 (4):335-346. doi: 10.1177/1534734614557925.
- Myers, M. G., and M. Godwin. 2012. "Automated Office Blood Pressure." *Canadian Journal of Cardiology* 28 (3):341-346. doi: 10.1016/j.cjca.2011.09.004.
- Nagaraja, V., J. Raval, G. D. Eslick, D. Burgess, and A. R. Denniss. 2013. "Is Transcatheter Closure Better than Medical Therapy for Cryptogenic Stroke with Patent Foramen Ovale? A Meta-analysis of Randomised Trials." *Heart Lung and Circulation* 22 (11):903-909. doi: 10.1016/j.hlc.2013.07.022.
- Nagasaka, T., S. Inao, and T. Wakabayashi. 2013. "What does the CT angiography "spot sign" of intracerebral hemorrhage mean in modern neurosurgical settings with minimally invasive endoscopic techniques?" *Neurosurgical Review* 36 (3):341-346. doi: 10.1007/s10143-012-0437-7.
- Napp, A., D. Stunder, M. Maytin, T. Kraus, N. Marx, and S. Driessen. 2015. "Are patients with cardiac implants protected against electromagnetic interference in daily life and occupational environment?" *European Heart Journal* 36 (28):1798-+. doi: 10.1093/eurheartj/ehv135.
- Neragi-Miandoab, S. 2014. "Non-transplant surgical therapy options of heart failure." *Minerva Cardioangiologica* 62 (6):481-496.
- Nguyen, T. A., S. I. Feldstein, P. R. Shumaker, and A. C. Krakowski. 2015. "A review of scar assessment scales." *Seminars in Cutaneous Medicine and Surgery* 34 (1):28-36.
- Nietlispach, F., and B. Meier. 2016. "Percutaneous closure of patent foramen ovale: an underutilized prevention?" *European Heart Journal* 37 (26):2023-2028. doi: 10.1093/eurheartj/ehv376.

- Noij, K. S., E. D. Kozin, R. Sethi, P. V. Shah, A. B. Kaplan, B. Herrmann, A. Remenschneider, and D. J. Lee. 2015. "Systematic Review of Nontumor Pediatric Auditory Brainstem Implant Outcomes." *Otolaryngology-Head and Neck Surgery* 153 (5):739-750. doi: 10.1177/0194599815596929.
- Nomura, Naoyuki. 2010. "Artificial organs: recent progress in metals and ceramics." *Journal of Artificial Organs* 13 (1):10-12. doi: 10.1007/s10047-010-0487-y.
- Nordbeck, P., G. Ertl, and O. Ritter. 2015. "Magnetic resonance imaging safety in pacemaker and implantable cardioverter defibrillator patients: how far have we come?" *European Heart Journal* 36 (24):1505-U81. doi: 10.1093/eurheartj/ehv086.
- Ntaios, G., V. Papavasileiou, K. Makaritsis, and P. Michel. 2013. "PFO closure vs. medical therapy in cryptogenic stroke or transient ischemic attack: A systematic review and meta-analysis." *International Journal of Cardiology* 169 (2):101-105. doi: 10.1016/j.ijcard.2013.08.058.
- O'Neill, John, Jason Lu, Rodney Dockter, and Timothy Kowalewski. 2015. "Practical, Stretchable Smart Skin Sensors for Contact-Aware Robots in Safe and Collaborative Interactions." *IEEE International Conference on Robotics and Automation ICRA*:624-629.
- Oelze, M. L., and J. Mamou. 2016. "Review of Quantitative Ultrasound: Envelope Statistics and Backscatter Coefficient Imaging and Contributions to Diagnostic Ultrasound." *Ieee Transactions on Ultrasonics Ferroelectrics and Frequency Control* 63 (2):336-351. doi: 10.1109/tuffc.2015.2513958.
- Oppong, F. C. 2015. "Innovation in income-poor environments." *British Journal of Surgery* 102 (2):E102-E107. doi: 10.1002/bjs.9712.
- Palmieri, V., M. Papi, C. Conti, G. Ciasca, G. Maulucci, and M. De Spirito. 2016. "The future development of bacteria fighting medical devices: the role of graphene oxide." *Expert Review of Medical Devices* 13 (11):1013-1019. doi: 10.1080/17434440.2016.1245612.
- Pandit, A., M. R. Aryal, A. A. Pandit, L. Jalota, S. Kantharajpur, F. A. Hakim, and H. R. Lee. 2014. "Amplatzer PFO Occluder Device may Prevent Recurrent Stroke in Patients with Patent Foramen Ovale and Cryptogenic Stroke: A Meta-Analysis of Randomised Trials." *Heart Lung and Circulation* 23 (4):303-308. doi: 10.1016/j.hlc.2013.12.003.
- Pandor, A., T. Gomersall, J. W. Stevens, J. Wang, A. Al-Mohammad, A. Bakhai, J. G. F. Cleland, M. R. Cowie, and R. Wong. 2013. "Remote monitoring after recent hospital discharge in patients with heart failure: a systematic review and network meta-analysis." *Heart* 99 (23):1717-1726. doi: 10.1136/heartjnl-2013-303811.



- Pang, Changhyun, Chanseok Lee, and Kahp-Yang Suh. 2013. "Recent advances in flexible sensors for wearable and implantable devices." *Journal of Applied Polymer Science* 130 (3):1429-1441. doi: 10.1002/app.39461.
- Patel, D., and E. G. Daoud. 2016. "Atrioventricular Junction Ablation for Atrial Fibrillation." *Heart Failure Clinics* 12 (2):245-+. doi: 10.1016/j.hfc.2015.08.020.
- Patel, M. R., M. S. Conte, D. E. Cutlip, N. Dib, P. Geraghty, W. Gray, W. R. Hiatt, M. Ho, K. Ikeda, F. Ikeno, M. R. Jaff, W. S. Jones, M. Kawahara, R. A. Lookstein, R. Mehran, S. Misra, L. Norgren, J. W. Olin, T. J. Povsic, K. Rosenfield, J. Rundback, F. Shamoun, J. Tcheng, T. T. Tsai, Y. Suzuki, P. Vranckx, B. N. Wiechmann, C. J. White, H. Yokoi, and M. W. Krucoff. 2015. "Evaluation and Treatment of Patients With Lower Extremity Peripheral Artery Disease Consensus Definitions From Peripheral Academic Research Consortium (PARC)." *Journal of the American College of Cardiology* 65 (9):931-941. doi: 10.1016/j.jacc.2014.12.036.
- Payne, C. J., and G. Z. Yang. 2014. "Hand-Held Medical Robots." *Annals of Biomedical Engineering* 42 (8):1594-1605. doi: 10.1007/s10439-014-1042-4.
- Pezzotti, Giuseppe. 2014. "Bioceramics for Hip Joints: The Physical Chemistry Viewpoint." *Materials* 7 (6):4367-4410. doi: 10.3390/ma7064367.
- Pfenniger, A., M. Jonsson, A. Zurbuchen, V. M. Koch, and R. Vogel. 2013a. "Energy Harvesting from the Cardiovascular System, or How to Get a Little Help from Yourself." *Annals of Biomedical Engineering* 41 (11):2248-2263. doi: 10.1007/s10439-013-0887-2.
- Pfenniger, Alois, Magnus Jonsson, Adrian Zurbuchen, Volker M. Koch, and Rolf Vogel. 2013b. "Energy Harvesting from the Cardiovascular System, or How to Get a Little Help from Yourself." *Annals of Biomedical Engineering* 41 (11):2248-2263. doi: 10.1007/s10439-013-0887-2.
- Pickett, C. A., T. C. Villines, M. A. Ferguson, and E. A. Hulten. 2014. "Percutaneous Closure versus Medical Therapy Alone for Cryptogenic Stroke Patients with a Patent Foramen Ovale: Meta-Analysis of Randomized Controlled Trials." *Texas Heart Institute Journal* 41 (4):357-367.
- Pinney, S. P. 2015. "Left Ventricular Assist Devices: The Adolescence of a Disruptive Technology." *Journal of Cardiac Failure* 21 (10):824-834. doi: 10.1016/j.cardfail.2015.08.005.
- Pizzino, F., B. Khandheria, S. Carerj, G. Oreto, M. Cusma-Piccione, M. C. Todaro, L. Oreto, G. Vizzari, G. Di Bella, and C. Zito. 2016. "PFO: Button me up, but wait ... Comprehensive evaluation of the patient." *Journal of Cardiology* 67 (5-6):485-492. doi: 10.1016/j.jjcc.2016.01.013.

- Pocock, S. J., and B. J. Gersh. 2014. "Do Current Clinical Trials Meet Society's Needs? A Critical Review of Recent Evidence." *Journal of the American College of Cardiology* 64 (15):1615-1628. doi: 10.1016/j.jacc.2014.08.008.
- Politano, A. D., K. T. Campbell, L. H. Rosenberger, and R. G. Sawyer. 2013. "Use of Silver in the Prevention and Treatment of Infections: Silver Review." *Surgical Infections* 14 (1):8-20. doi: 10.1089/sur.2011.097.
- Pombo, N., P. Araujo, and J. Viana. 2014. "Knowledge discovery in clinical decision support systems for pain management: A systematic review." *Artificial Intelligence in Medicine* 60 (1):1-11. doi: 10.1016/j.artmed.2013.11.005.
- Porepa, L. F., and R. C. Starling. 2014. "Destination Therapy With Left Ventricular Assist Devices: For Whom and When?" *Canadian Journal of Cardiology* 30 (3):296-303. doi: 10.1016/j.cjca.2013.12.017.
- Pound, B. G. 2014. "Passive films on metallic biomaterials under simulated physiological conditions." *Journal of Biomedical Materials Research Part A* 102 (5):1595-1604. doi: 10.1002/jbm.a.34798.
- Pourdjabbar, A., G. Dwivedi, and H. Haddad. 2013. "The role of vitamin D in chronic heart failure." *Current Opinion in Cardiology* 28 (2):216-222. doi: 10.1097/HCO.0b013e32835bd480.
- Pourriahi, M., P. Gurman, J. Daich, P. Cynamon, A. Richler, N. Elman, and Y. Rosen. 2016. "The use of micro-electro mechanical systems in vascular monitoring: implications for clinical use." *Expert Review of Medical Devices* 13 (9):831-837. doi: 10.1080/17434440.2016.1207520.
- Pratt, G. F., W. M. Rozen, A. Westwood, A. Hancock, D. Chubb, M. W. Ashton, and I. S. Whitaker. 2012. "Technology-assisted and sutureless microvascular anastomoses: Evidence for current techniques." *Microsurgery* 32 (1):68-76. doi: 10.1002/micr.20930.
- Punnoose, L., D. Burkhoff, L. Cunningham, and E. M. Horn. 2014. "Functional Mitral Regurgitation: Therapeutic Strategies for a Ventricular Disease." *Journal of Cardiac Failure* 20 (4):252-267. doi: 10.1016/j.cardfail.2014.01.010.
- Puri, R., B. Lung, D. J. Cohen, and J. Rodes-Cabau. 2016. "TAVI or No TAVI: identifying patients unlikely to benefit from transcatheter aortic valve implantation." *European Heart Journal* 37 (28):2217-U100. doi: 10.1093/eurheartj/ehv756.
- Pycroft, L., S. G. Boccard, S. L. F. Owen, J. F. Stein, J. J. Fitzgerald, A. L. Green, and T. Z. Aziz. 2016. "Brainjacking: Implant Security Issues in Invasive Neuromodulation." *World Neurosurgery* 92:454-462. doi: 10.1016/j.wneu.2016.05.010.

- Pyka, L., D. Pres, R. Przybylski, J. Pacholewicz, L. Polonski, M. Zembala, and M. Gasior. 2014. "Mechanical circulatory support in cardiogenic shock - what every interventional cardiologist should know." *Postepy W Kardiologii Interwencyjnej* 10 (3):195-200. doi: 10.5114/pwki.2014.45147.
- Qudsi, Hana, and Maneesh Gupta. 2013. "Low-Cost, Thermistor Based Respiration Monitor." *Proceedings of the Southern Biomedical Engineering Conference*:23-24. doi: 10.1109/SBEC.2013.20.
- Rabbah, J. P. M., N. Saikrishnan, A. W. Siefert, A. Santhanakrishnan, and A. P. Yoganathan. 2013. "Mechanics of Healthy and Functionally Diseased Mitral Valves: A Critical Review." *Journal of Biomechanical Engineering-Transactions of the Asme* 135 (2):16. doi: 10.1115/1.4023238.
- Racchi, M., S. Govoni, A. Lucchelli, L. Capone, and E. Giovagnoni. 2016. "Insights into the definition of terms in European medical device regulation." *Expert Review of Medical Devices* 13 (10):907-917. doi: 10.1080/17434440.2016.1224644.
- Rasouli, Mahdi, and Louis Soo Jay Phee. 2010. "Energy sources and their development for application in medical devices." *Expert Review of Medical Devices* 7 (5):693-709. doi: 10.1586/ERD.10.20.
- Reichert, M., S. Kerber, I. Alkoudmani, and J. Bodner. 2016. "Management of a solitary pulmonary arteriovenous malformation by video-assisted thoracoscopic surgery and anatomic lingula resection: video and review." *Surgical Endoscopy and Other Interventional Techniques* 30 (4):1667-1669. doi: 10.1007/s00464-015-4337-0.
- Reinhardt, M., A. Bader, and S. Giri. 2015. "Devices for stem cell isolation and delivery: current need for drug discovery and cell therapy." *Expert Review of Medical Devices* 12 (3):353-364. doi: 10.1586/17434440.2015.995094.
- Ribeiro, H. B., M. Urena, R. Allende, I. J. Amat-Santos, and J. Rodes-Cabau. 2014. "Balloon-Expandable Prostheses for Transcatheter Aortic Valve Replacement." *Progress in Cardiovascular Diseases* 56 (6):583-595. doi: 10.1016/j.pcad.2014.02.001.
- Rimoldi, S. F., F. H. Messerli, S. Bangalore, and U. Scherrer. 2015. "Resistant hypertension: what the cardiologist needs to know." *European Heart Journal* 36 (40):2686-2695C. doi: 10.1093/eurheartj/ehv392.
- Robinson, M. R., and G. H. Oliveira. 2016. "Contemporary clinical trial updates in heart failure." *Current Opinion in Cardiology* 31 (4):349-355. doi: 10.1097/hco.0000000000000304.
- Robinson, S. 2012. "Neonatal posthemorrhagic hydrocephalus from prematurity: pathophysiology and current treatment concepts A review." *Journal of Neurosurgery-Pediatrics* 9 (3):242-258. doi: 10.3171/2011.12.peds11136.

- Rockstroh, M., S. Franke, and T. Neumuth. 2014. "Requirements for the structured recording of surgical device data in the digital operating room." *International Journal of Computer Assisted Radiology and Surgery* 9 (1):49-57. doi: 10.1007/s11548-013-0909-4.
- Roriz, P., L. Carvalho, O. Frazao, J. L. Santos, and J. A. Simoes. 2014. "From conventional sensors to fibre optic sensors for strain and force measurements in biomechanics applications: A review." *Journal of Biomechanics* 47 (6):1251-1261. doi: 10.1016/j.jbiomech.2014.01.054.
- Rosenthal, J. L., and R. C. Starling. 2015. "Coagulopathy in Mechanical Circulatory Support: A Fine Balance." *Current Cardiology Reports* 17 (12):9. doi: 10.1007/s11886-015-0670-0.
- Rossano, J. W., T. M. Hoffman, J. L. Jefferies, A. Lorts, R. E. Kirsch, and R. R. Thiagarajan. 2016. "Clinical Issues and Controversies in Heart Failure and Transplantation." *World Journal for Pediatric and Congenital Heart Surgery* 7 (1):63-71. doi: 10.1177/2150135115606622.
- Rossano, J. W., and G. Y. Jang. 2015. "Pediatric Heart Failure: Current State and Future Possibilities." *Korean Circulation Journal* 45 (1):1-8. doi: 10.4070/kcj.2015.45.1.1.
- Rumsfeld, J. S., K. E. Joynt, and T. M. Maddox. 2016. "Big data analytics to improve cardiovascular care: promise and challenges." *Nature Reviews Cardiology* 13 (6):350-359. doi: 10.1038/nrcardio.2016.42.
- Ryan, C. N. M., K. P. Fuller, A. Larranaga, M. Biggs, Y. Bayon, J. R. Sarasua, A. Pandit, and D. I. Zeugolis. 2015. "An academic, clinical and industrial update on electrospun, additive manufactured and imprinted medical devices." *Expert Review of Medical Devices* 12 (5):601-612.
- Ryan, T. D., J. L. Jefferies, F. Zafar, A. Lorts, and D. L. S. Morales. 2015. "The Evolving Role of the Total Artificial Heart in the Management of End-Stage Congenital Heart Disease and Adolescents." *Asaio Journal* 61 (1):8-14. doi: 10.1097/mat.000000000000156.
- Saidi, T., and T. S. Douglas. 2016. "Minimally invasive transcatheter aortic valve implantation for the treatment of rheumatic heart disease in developing countries." *Expert Review of Medical Devices* 13 (10):979-985. doi: 10.1080/17434440.2016.1236679.
- Saito, Y., M. Yamada, E. So, S. Abe, T. Sakamoto, T. Nakajima, Y. Otake, A. Ono, and T. Matsuda. 2014. "Colorectal endoscopic submucosal dissection: Technical advantages compared to endoscopic mucosal resection and minimally invasive surgery." *Digestive Endoscopy* 26:52-61. doi: 10.1111/den.12196.
- Sakes, A., E. Regar, J. Dankelman, and P. Breedveld. 2016. "Crossing Total Occlusions: Navigating Towards Recanalization." *Cardiovascular Engineering and Technology* 7 (2):103-117. doi: 10.1007/s13239-016-0255-0.

- Samuels-Reid, J., B. Lawrence, C. Millin, and J. Cope. 2012. "Pediatric devices and adverse events from A to Z: understanding the benefits and risks from a US FDA perspective." *Expert Review of Medical Devices* 9 (3):275-282. doi: 10.1586/erd.12.7.
- Santana-Blank, L., E. Rodriguez-Santana, K. E. Santana-Rodriguez, and H. Reyes. 2016. "'Quantum Leap' in Photobiomodulation Therapy Ushers in a New Generation of Light-Based Treatments for Cancer and Other Complex Diseases: Perspective and Mini-Review." *Photomedicine and Laser Surgery* 34 (3):93-101. doi: 10.1089/pho.2015.4015.
- Santos, I. C. T., G. S. Gazelle, L. A. Rocha, and Jmrs Tavares. 2012a. "Medical device specificities: opportunities for a dedicated product development methodology." *Expert Review of Medical Devices* 9 (3):299-311. doi: 10.1586/erd.12.3.
- Santos, I. C. T., G. S. Gazelle, L. A. Rocha, and Jmrs Tavares. 2012b. "Modeling of the medical device development process." *Expert Review of Medical Devices* 9 (5):537-543. doi: 10.1586/erd.12.36.
- Santos, I. C. T., and Jmrs Tavares. 2013. "Additional peculiarities of medical devices that should be considered in their development process." *Expert Review of Medical Devices* 10 (3):411-420. doi: 10.1586/erd.12.89.
- Sastry, A. 2014. "Overview of the US FDA Medical Device Approval Process." *Current Cardiology Reports* 16 (6):5. doi: 10.1007/s11886-014-0494-3.
- Sauerland, S., A. C. Brockhaus, N. Fujita-Rohwerder, and S. Saad. 2014. "Approaches to assessing the benefits and harms of medical devices for application in surgery." *Langenbecks Archives of Surgery* 399 (3):279-285. doi: 10.1007/s00423-014-1173-y.
- Saw, J., and M. Lempereur. 2014. "Percutaneous Left Atrial Appendage Closure Procedural Techniques and Outcomes." *Jacc-Cardiovascular Interventions* 7 (11):1205-1220. doi: 10.1016/j.jcin.2014.05.026.
- Schechter, M. A., P. J. O'Brien, and M. W. Cox. 2013. "Retrieval of iatrogenic intravascular foreign bodies." *Journal of Vascular Surgery* 57 (1):276-281. doi: 10.1016/j.jvs.2012.09.002.
- Schoenle, Philipp, Petrit Bunjaku, Schekeb Fateh, and Qiuting Huang. 2014. "Modular Multi-Sensor Platform for Portable and Wireless Medical Instrumentation." *Biomedical Circuits and Systems Conference*:165-168.
- Schotter, Joerg, Stefan Schrittwieser, Paul Muellner, Eva Melnik, Rainer Hainberger, Guenther Koppitsch, Franz Schrank, Katerina Soulantika, Sergio Lentijo-Mozo, Beatriz Pelaz, Wolfgang Parak, Frank Ludwig, and Jan Dieckhoff. 2015. "Optical biosensor technologies for molecular diagnostics at the point-of-care." *Proceedings of SPIE* 9490:94900B-94900B. doi: 10.1117/12.2185642.

- Schuurman, H. J. 2015. "Regulatory aspects of clinical xenotransplantation." *International Journal of Surgery* 23:312-321. doi: 10.1016/j.ijssu.2015.09.051.
- Sengupta, J., and R. Abdelhadi. 2013. "Approach to reduction of ventricular arrhythmias and implantable cardioverter-defibrillator therapies in patients with heart failure." *Current Opinion in Cardiology* 28 (3):337-343. doi: 10.1097/HCO.0b013e3283604420.
- Shah, K. B., J. L. Levenson, and M. R. Mehra. 2014. "Emergent use of mechanical circulatory support devices: ethical dilemmas." *Current Opinion in Cardiology* 29 (3):281-284. doi: 10.1097/hco.0000000000000058.
- Shantsila, E., and G. Y. H. Lip. 2013. "Recent advances in management of atrial fibrillation in patients with heart failure." *Current Opinion in Cardiology* 28 (2):197-208. doi: 10.1097/HCO.0b013e32835bd465.
- Shao, Rongxue, Renfu Quan, Liang Zhang, Xicheng Wei, Disheng Yang, and Shangju Xie. 2015. "Porous hydroxyapatite bioceramics in bone tissue engineering: current uses and perspectives." *Journal of the Ceramic Society of Japan* 123 (1433):17-20. doi: 10.2109/jcersj2.123.17.
- Shapiro, M., T. Becske, H. A. Riina, E. Raz, D. Zumofen, and P. K. Nelson. 2014. "Non-saccular vertebrobasilar aneurysms and dolichoectasia: a systematic literature review." *Journal of Neurointerventional Surgery* 6 (5):389-393. doi: 10.1136/neurintsurg-2013-010793.
- Sharma, M. K., F. P. Wieringa, A. J. H. Frijns, and J. P. Kooman. 2016. "On-line monitoring of electrolytes in hemodialysis: on the road towards individualizing treatment." *Expert Review of Medical Devices* 13 (10):933-943. doi: 10.1080/17434440.2016.1230494.
- Shavelle, D. M. 2016. "Almanac 2015: coronary artery disease." *Heart* 102 (7):492-499. doi: 10.1136/heartjnl-2015-307761.
- Sheridan, D. J., and D. G. Julian. 2016. "Achievements and Limitations of Evidence-Based Medicine." *Journal of the American College of Cardiology* 68 (2):204-213. doi: 10.1016/j.jacc.2016.03.600.
- Sliker, L., G. Ciuti, M. Rentschler, and A. Menciassi. 2015. "Magnetically driven medical devices: a review." *Expert Review of Medical Devices* 12 (6):737-752. doi: 10.1586/17434440.2015.1080120.
- Slonaker, M., and T. Goswami. 2004. "Review of wear mechanisms in hip implants: Paper II - ceramics IG004712." *Materials & Design* 25 (5):395-405. doi: 10.1016/j.matdes.2003.11.011.
- Song, Tao, Zhi-Ye Qiu, and Fu-Zhai Cui. 2015. "Biomaterials for reconstruction of cranial defects." *Frontiers of Materials Science* 9 (4):346-354. doi: 10.1007/s11706-015-0312-x.

- Sperzel, J., H. Burri, D. Gras, F. V. Y. Tjong, R. E. Knops, G. Hindricks, C. Steinwender, and P. Defaye. 2015. "State of the art of leadless pacing." *Europace* 17 (10):1508-1513. doi: 10.1093/europace/euv096.
- Stevens, N. T., C. M. Greene, J. P. O'Gara, R. Bayston, M. T. A. Sattar, M. Farrell, and H. Humphreys. 2012. "Ventriculoperitoneal shunt-related infections caused by *Staphylococcus epidermidis*: pathogenesis and implications for treatment." *British Journal of Neurosurgery* 26 (6):792-797. doi: 10.3109/02688697.2011.651514.
- Sticherling, C., and H. Burri. 2012. "Introduction of new industry standards for cardiac implantable electronic devices: balancing benefits and unexpected risks." *Europace* 14 (8):1081-1086. doi: 10.1093/europace/eus034.
- Sun, Z. H. 2012. "Abdominal aortic aneurysm: Treatment options, image visualizations and follow-up procedures." *Journal of Geriatric Cardiology* 9 (1):49-60. doi: 10.3724/sp.j.1263.2012.00049.
- Svensson, L. G., M. Tuzcu, S. Kapadia, E. H. Blackstone, E. E. Roselli, A. M. Gillinov, J. F. Sabik, and B. W. Lytle. 2013. "A comprehensive review of the PARTNER trial." *Journal of Thoracic and Cardiovascular Surgery* 145 (3):S11-S16. doi: 10.1016/j.jtcvs.2012.11.051.
- Taddese, Addisu, Marco Beccani, Ekawahyu Susilo, Peter Voelgyesi, Akos Ledeczki, and Pietro Valdastrì. 2015. "Toward Rapid Prototyping of Miniature Capsule Robots." *IEEE International Conference on Robotics and Automation ICRA*:4704-4709.
- Tapia-Siles, S. C., S. Coleman, and A. Cuschieri. 2016. "Current state of micro-robots/devices as substitutes for screening colonoscopy: assessment based on technology readiness levels." *Surgical Endoscopy and Other Interventional Techniques* 30 (2):404-413. doi: 10.1007/s00464-015-4263-1.
- Taramasso, M., A. Pozzoli, A. Latib, G. La Canna, A. Colombo, F. Maisano, and O. Alfieri. 2014. "New devices for TAVI: technologies and initial clinical experiences." *Nature Reviews Cardiology* 11 (3):157-167. doi: 10.1038/nrcardio.2013.221.
- Tariq, S., and A. Gass. 2016. "Use of Extracorporeal Membrane Oxygenation in Refractory Cardiogenic Shock." *Cardiology in Review* 24 (1):26-29. doi: 10.1097/crd.0000000000000092.
- Tate, M. L. K., M. Detamore, J. R. Capadona, A. Woolley, and U. Knothe. 2016. "Engineering and commercialization of human-device interfaces, from bone to brain." *Biomaterials* 95:35-46. doi: 10.1016/j.biomaterials.2016.03.038.
- ter Boo, G. J. A., D. W. Grijpma, T. E. Moriarty, R. G. Richards, and D. Eglin. 2015. "Antimicrobial delivery systems for local infection prophylaxis in orthopedic- and trauma surgery." *Biomaterials* 52:113-125. doi: 10.1016/j.biomaterials.2015.02.020.

- Than, T. D., G. Alici, H. Zhou, and W. H. Li. 2012. "A Review of Localization Systems for Robotic Endoscopic Capsules." *Ieee Transactions on Biomedical Engineering* 59 (9):2387-2399. doi: 10.1109/tbme.2012.2201715.
- Throckmorton, A. L., S. M. Patel-Raman, C. S. Fox, and E. J. Bass. 2016. "Beyond the VAD: Human Factors Engineering for Mechanically Assisted Circulation in the 21st Century." *Artificial Organs* 40 (6):539-548. doi: 10.1111/aor.12600.
- Thuny, F., D. Grisoli, J. Cautela, A. Riberi, D. Raoult, and G. Habib. 2014. "Infective Endocarditis: Prevention, Diagnosis, and Management." *Canadian Journal of Cardiology* 30 (9):1046-1057. doi: 10.1016/j.cjca.2014.03.042.
- Thurber, A. E., F. G. Omenetto, and D. L. Kaplan. 2015. "In vivo bioresponses to silk proteins." *Biomaterials* 71:145-157. doi: 10.1016/j.biomaterials.2015.08.039.
- Tobis, J. M., and I. Abudayyeh. 2015. "New devices and technology in interventional cardiology." *Journal of Cardiology* 65 (1-2):5-16. doi: 10.1016/j.jjcc.2014.08.001.
- Todoran, T. M., and M. R. Zile. 2013. "Neuromodulation Device Therapy for Treatment of Hypertensive Heart Disease." *Circulation Journal* 77 (6):1351-1363. doi: 10.1253/circj.CJ-13-0390.
- Tomizawa, Y. 2012. "Atrial septum defect closure device in a beating heart, from the perspective of a researcher in artificial organs." *Journal of Artificial Organs* 15 (4):311-324. doi: 10.1007/s10047-012-0651-7.
- Torrao, J. N. D., M. P. S. dos Santos, and J. A. F. Ferreira. 2015. "Instrumented knee joint implants: innovations and promising concepts." *Expert Review of Medical Devices* 12 (5):571-584. doi: 10.1586/17434440.2015.1068114.
- Torrao, Joao N. D., Marco P. Soares dos Santos, and Jorge A. F. Ferreira. 2015. "Instrumented knee joint implants: innovations and promising concepts." *Expert Review of Medical Devices* 12 (5):571-584. doi: 10.1586/17434440.2015.1068114.
- Toth, G. G., M. Vanderheyden, and J. Bartunek. 2016. "Novel device-based interventional strategies for advanced heart failure." *Postepy W Kardiologii Interwencyjnej* 12 (1):13-16. doi: 10.5114/pwki.2016.56944.
- Tracol, P. 2016. "Materials vigilance and traceability." *Orthopaedics & Traumatology-Surgery & Research* 102 (1):S95-S103. doi: 10.1016/j.otsr.2015.05.013.
- Treskes, R. W., E. T. van der Velde, R. Barendse, and N. Bruining. 2016. "Mobile health in cardiology: a review of currently available medical apps and equipment for remote monitoring." *Expert Review of Medical Devices* 13 (9):823-830. doi: 10.1080/17434440.2016.1218277.



- Trochu, J. N., P. Leprince, M. Bielefeld-Gomez, O. Bastien, F. Beauvais, J. P. Gueffet, D. Logeart, R. Isnard, M. C. Iliou, C. Leclercq, and C. Girard. 2012. "Left ventricle assist device: When and which patients should we refer?" *Archives of Cardiovascular Diseases* 105 (2):114-121. doi: 10.1016/j.acvd.2011.11.004.
- Truong, H. T., L. S. Low, and K. B. Kern. 2015. "Current Approaches to Cardiopulmonary Resuscitation." *Current Problems in Cardiology* 40 (7):275-313. doi: 10.1016/j.cpcardiol.2015.01.007.
- Tzavaras, A., and B. Spyropoulos. 2013. "Development of a low-cost wireless monitoring System supporting the Continuity of Medical Care of the Patient at home." *IEEE Engineering in Medicine and Biology Society Conference Proceedings*:5191-5194.
- Udell, J. A., A. R. Opatowsky, P. Khairy, C. K. Silversides, D. J. Gladstone, P. T. O'Gara, and M. J. Landzberg. 2014. "Patent Foramen Ovale Closure vs Medical Therapy for Stroke Prevention: Meta-analysis of Randomized Trials and Review of Heterogeneity in Meta-analyses." *Canadian Journal of Cardiology* 30 (10):1216-1224. doi: 10.1016/j.cjca.2014.05.004.
- VanderPluym, C., S. Urschel, and H. Buchholz. 2013. "Advanced Therapies for Congenital Heart Disease: Ventricular Assist Devices and Heart Transplantation." *Canadian Journal of Cardiology* 29 (7):796-802. doi: 10.1016/j.cjca.2013.02.008.
- VanEpps, J. S., and J. G. Younger. 2016. "IMPLANTABLE DEVICE-RELATED INFECTION." *Shock* 46 (6):597-608. doi: 10.1097/shk.0000000000000692.
- Vanneste, B. G. L., L. Van De Voorde, R. J. de Ridder, E. J. Van Limbergen, P. Lambin, and E. N. van Lin. 2015. "Chronic radiation proctitis: tricks to prevent and treat." *International Journal of Colorectal Disease* 30 (10):1293-1303. doi: 10.1007/s00384-015-2289-4.
- Vaquerizo, B., P. Theriault-Lauzier, and N. Piazza. 2015. "Percutaneous Transcatheter Mitral Valve Replacement: Patient-specific Three-dimensional Computer-based Heart Model and Prototyping." *Revista Espanola De Cardiologia* 68 (12):1165-1173. doi: 10.1016/j.rec.2015.08.005.
- Vasconcelos, D. M., S. G. Santos, M. Lamghari, and M. A. Barbosa. 2016. "The two faces of metal ions: From implants rejection to tissue repair/regeneration." *Biomaterials* 84:262-275. doi: 10.1016/j.biomaterials.2016.01.046.
- Veerachamy, S., T. Yarlagadda, G. Manivasagam, and Pkdv Yarlagadda. 2014. "Bacterial adherence and biofilm formation on medical implants: A review." *Proceedings of the Institution of Mechanical Engineers Part H-Journal of Engineering in Medicine* 228 (10):1083-1099. doi: 10.1177/0954411914556137.

- Viswanathan, S., and T. Bubela. 2015. "Current practices and reform proposals for the regulation of advanced medicinal products in Canada." *Regenerative Medicine* 10 (5):647-663. doi: 10.2217/rme.15.28.
- Voss, Thaddaeus J., Vignesh Subbian, and Fred R. Beyette, Jr. 2014. "Feasibility of Energy Harvesting Techniques for Wearable Medical Devices." *IEEE Engineering in Medicine and Biology Society Conference Proceedings*:626-629.
- Wang, J. W., Y. H. Li, Y. X. Li, Z. F. Ren, P. Chen, X. K. Qian, S. M. Wang, and J. S. Wang. 2016. "Endovascular Stent-Graft Placement in Patients with Stanford Type B Aortic Dissection in China: A Systematic Review." *Annals of Vascular Surgery* 36:298-309. doi: 10.1016/j.avsg.2016.04.006.
- Wang, Kefeng, Changchun Zhou, Youliang Hong, and Xingdong Zhang. 2012. "A review of protein adsorption on bioceramics." *Interface Focus* 2 (3):259-277. doi: 10.1098/rsfs.2012.0012.
- Wappenschmidt, J., R. Autschbach, U. Steinseifer, T. Schmitz-Rode, R. Margreiter, G. Klima, and A. Goetzenich. 2016. "Rotary piston blood pumps: past developments and future potential of a unique pump type." *Expert Review of Medical Devices* 13 (8):759-771. doi: 10.1080/17434440.2016.1207522.
- Ward, R. C., T. T. Healey, and D. E. Dupuy. 2013. "Microwave ablation devices for interventional oncology." *Expert Review of Medical Devices* 10 (2):225-238. doi: 10.1586/erd.12.77.
- Warren, J., U. Baber, and R. Mehran. 2015. "Antiplatelet therapy after drug-eluting stent implantation." *Journal of Cardiology* 65 (1-2):98-104. doi: 10.1016/j.jjcc.2014.10.006.
- Wei, Y. Z., and Q. S. Xu. 2015. "An overview of micro-force sensing techniques." *Sensors and Actuators a-Physical* 234:359-374. doi: 10.1016/j.sna.2015.09.028.
- Wen, Y. N., A. P. W. Lee, F. Fang, C. N. Jin, and C. M. Yu. 2014. "Beyond auscultation: Acoustic cardiography in clinical practice." *International Journal of Cardiology* 172 (3):548-560. doi: 10.1016/j.ijcard.2013.12.298.
- Wendt, D., M. Thielmann, A. Melzer, J. Benedik, I. Droc, K. Tsagakis, D. S. Dohle, H. Jakob, and J. E. Abele. 2013. "The past, present and future of minimally invasive therapy in endovascular interventions: A review and speculative outlook." *Minimally Invasive Therapy & Allied Technologies* 22 (4):242-253. doi: 10.3109/13645706.2013.822396.
- Westaby, S., K. Anastasiadis, and G. M. Wieselthaler. 2012. "Cardiogenic shock in ACS. Part 2: role of mechanical circulatory support." *Nature Reviews Cardiology* 9 (4):195-208. doi: 10.1038/nrcardio.2011.205.

- Westenbrink, B. D., K. Damman, M. Rienstra, A. H. Maass, and P. van der Meer. 2012. "Heart failure highlights in 2011." *European Journal of Heart Failure* 14 (10):1090-1096. doi: 10.1093/eurjhf/hfs121.
- Wiegerinck, E. M. A., F. Van Kesteren, M. S. Van Mourik, M. M. Vis, and J. Baan. 2016. "An up-to-date overview of the most recent transcatheter implantable aortic valve prostheses." *Expert Review of Medical Devices* 13 (1):31-45. doi: 10.1586/17434440.2016.1120665.
- Wu, Y. H., F. A. Li, Y. T. Fan, and P. W. Tu. 2016. "A study of medical device regulation management model in Asia." *Expert Review of Medical Devices* 13 (6):533-543. doi: 10.1080/17434440.2016.1184970.
- Wyrsh, N., and C. Ballif. 2016. "Review of amorphous silicon based particle detectors: the quest for single particle detection." *Semiconductor Science and Technology* 31 (10):15. doi: 10.1088/0268-1242/31/10/103005.
- Yagi, H., A. Soto-Gutierrez, and Y. Kitagawa. 2013. "Whole-organ re-engineering: a regenerative medicine approach in digestive surgery for organ replacement." *Surgery Today* 43 (6):587-594. doi: 10.1007/s00595-012-0396-1.
- Yanagi, K., E. Fukuda, Y. Jotatsu, M. Shikano, and S. Miyake. 2012. "Regulatory frameworks for cell therapy products in Japan." *Journal of Artificial Organs* 15 (4):325-330. doi: 10.1007/s10047-012-0653-5.
- Yeung, B. P. M., and T. Gourlay. 2012. "A technical review of flexible endoscopic multitasking platforms." *International Journal of Surgery* 10 (7):345-354. doi: 10.1016/j.ijisu.2012.05.009.
- Yong, M. S., S. Coffey, B. D. Prendergast, S. F. Marasco, A. D. Zimmet, D. C. McGiffin, and P. Saxena. 2016. "Surgical management of tricuspid valve endocarditis in the current era: A review." *International Journal of Cardiology* 202:44-48. doi: 10.1016/j.ijcard.2015.08.211.
- Yoshida, K., and S. Miyamoto. 2015. "Evidence for Management of Carotid Artery Stenosis." *Neurologia Medico-Chirurgica* 55 (3):230-240. doi: 10.2176/nmc.ra.2014-0361.
- Yuerek, M., J. W. Rossano, C. E. Mascio, and R. E. Shaddy. 2016. "Postoperative management of heart failure in pediatric patients." *Expert Review of Cardiovascular Therapy* 14 (2):201-215. doi: 10.1586/14779072.2016.1117388.
- Zannad, F., W. G. Stough, I. L. Pina, R. Mehran, W. T. Abraham, S. D. Anker, G. M. De Ferrari, A. Farb, N. L. Geller, R. S. Kieval, C. Linde, R. F. Redberg, K. Stein, A. Vincent, H. Woehle, and S. J. Pocock. 2014. "Current challenges for clinical trials of cardiovascular medical devices." *International Journal of Cardiology* 175 (1):30-37. doi: 10.1016/j.ijcard.2014.05.021.

- Zhang, Bill G. X., Damian E. Myers, Gordon G. Wallace, Milan Brandt, and Peter F. M. Choong. 2014. "Bioactive Coatings for Orthopaedic Implants-Recent Trends in Development of Implant Coatings." *International Journal of Molecular Sciences* 15 (7):11878-11921. doi: 10.3390/ijms150711878.
- Zhang, H. K., D. H. Dong, Z. W. Liu, S. X. He, L. S. Hu, and Y. Lv. 2016. "Reevaluation of the efficacy of magnetic sphincter augmentation for treating gastroesophageal reflux disease." *Surgical Endoscopy and Other Interventional Techniques* 30 (9):3684-3690. doi: 10.1007/s00464-015-4701-0.
- Zhang, Meng, Anand Raghunathan, and Niraj K. Jha. 2013. "MedMon: Securing Medical Devices Through Wireless Monitoring and Anomaly Detection." *Ieee Transactions on Biomedical Circuits and Systems* 7 (6):871-881. doi: 10.1109/TBCAS.2013.2245664.
- Zhang, Q., Y. J. Zhou, and C. M. Yu. 2015. "Incidence, definition, diagnosis, and management of the cardiac resynchronization therapy nonresponder." *Current Opinion in Cardiology* 30 (1):40-49. doi: 10.1097/hco.0000000000000140.
- Zhang, S. 2015. "Sudden cardiac death in China: current status and future perspectives." *Europace* 17:14-18. doi: 10.1093/europace/euv143.
- Zhang, S. X., C. Kriza, P. L. Kolominsky-Rabas, and Med Natl Leading-Edge Cluster. 2014. "Assessing new developments in the pre-market regulatory process of medical devices in the People's Republic of China." *Expert Review of Medical Devices* 11 (5):527-535. doi: 10.1586/17434440.2014.932688.
- Zhao, Kai, Guozheng Yan, Li Lu, and Fei Xu. 2015. "Low-Power Wireless Electronic Capsule for Long-Term Gastrointestinal Monitoring." *Journal of medical systems* 39 (2):9-9. doi: 10.1007/s10916-015-0211-9.
- Zunino, P., J. Tambaca, E. Cutri, S. Canic, L. Formaggia, and F. Migliavacca. 2016. "Integrated Stent Models Based on Dimension Reduction: Review and Future Perspectives." *Annals of Biomedical Engineering* 44 (2):604-617. doi: 10.1007/s10439-015-1459-4.