

## Selected Publications From the Mayo Clinic Echo Core Lab

1. Acker MA, Bolling S, Shemin R, Kirklin J, Oh JK, Mann DL, Jessup M, Sabbah HN, Starling RC, Kubo SH, Acorn Trial Principal Investigators and Study Coordinators. Mitral valve surgery in heart failure: insights from the Acorn Clinical Trial. *J Thorac Cardiovasc Surg.* 2006 Sep; 132(3):568-77, 577.e1-4. Epub 2006 Jul 31. PMID:16935112. DOI:10.1016/j.jtcvs.2006.02.062. (ACORN Trial)
2. Starling RC, Jessup M, Oh JK, Sabbah HN, Acker MA, Mann DL, Kubo SH. Sustained benefits of the CorCap Cardiac Support Device on left ventricular remodeling: three year follow-up results from the Acorn clinical trial. *Ann Thorac Surg.* 2007 Oct; 84(4):1236-42. PMID:17888975. DOI:10.1016/j.athoracsur.2007.03.096. (ACORN Trial)
3. Velazquez EJ, Lee KL, O'Connor CM, Oh JK, Bonow RO, Pohost GM, Feldman AM, Mark DB, Panza JA, Sopko G, Rouleau JL, Jones RH. The rationale and design of the Surgical Treatment for Ischemic Heart Failure (STICH) trial. *J Thorac Cardiovasc Surg.* 2007 Dec; 134(6):1540-7. PMID:18023680. (STICH Trial)
4. Jones RH, Velazquez EJ, Michler RE, Sopko G, Oh JK, O'Connor CM, Hill JA, Menicanti L, Sadowski Z, Desvigne-Nickens P, Rouleau JL, Lee KL, STICH Hypothesis 2 Investigators. Coronary bypass surgery with or without surgical ventricular reconstruction. *N Engl J Med.* 2009 Apr 23; 360(17):1705-17. Epub 2009 Mar 29. PMID:19329820. DOI:10.1056/NEJMoa0900559. (STICH Trial)
5. Lee AP, Acker M, Kubo SH, Bolling SF, Park SW, Bruce CJ, Oh JK. Mechanisms of recurrent functional mitral regurgitation after mitral valve repair in nonischemic dilated cardiomyopathy: importance of distal anterior leaflet tethering. *Circulation.* 2009 May 19; 119(19):2606-14. Epub 2009 May 04. PMID:19414639. DOI:10.1161/CIRCULATIONAHA.108.796151. (ACORN Trial)
6. Douglas PS, DeCara JM, Devereux RB, Duckworth S, Gardin JM, Jaber WA, Morehead AJ, Oh JK, Picard MH, Solomon SD, Wei K, Weissman NJ, American Society of Echocardiography Standards, American College of Cardiology Foundation. Echocardiographic imaging in clinical trials: American Society of Echocardiography Standards for echocardiography core laboratories: endorsed by the American College of Cardiology Foundation. *J Am Soc Echocardiogr.* 2009 Jul; 22(7):755-65. PMID:19560654. DOI:10.1016/j.echo.2009.05.020. (General)
7. Rouleau JL, Michler RE, Velazquez EJ, Oh JK, O'Connor CM, Desvigne-Nickens P, Sopko G, Lee KL, Jones RH. Editorial: The STICH trial: Evidence-based conclusions. *Eur J Heart Fail.* 2010; 12(10):1028-30. (STICH)

8. Acker MA, Jessup M, Bolling SF, Oh J, Starling RC, Mann DL, Sabbah HN, Shemin R, Kirklin J, Kubo SH. Mitral valve repair in heart failure: five-year follow-up from the mitral valve replacement stratum of the Acorn randomized trial. *J Thorac Cardiovasc Surg.* 2011 Sep; 142(3):569-74, 574.e1. Epub 2011 Jan 26. PMID:21269649. DOI:10.1016/j.jtcvs.2010.10.051. (ACORN)
9. Bonow, RO. Maurer, G. Lee, KL. Holly, TA. Binkley, PF. Desvigne-Nickens, P. Drozd, J. Farsky, PS. Feldman, AM. Doenst, T. Michler, RE. Berman, DS. Nicolau, JC. Pellikka, PA. Wrobel, K. Alotti, N. Asch, FM. Favaloro, LE. She, L. Velazquez, EJ. Jones, RH. Panza, JA. Myocardial viability and survival in ischemic left ventricular dysfunction. *New England Journal of Medicine.* 2011 Apr 28; 364(17): 1617-25 (STICH Trial)
10. Oh JK, Pellikka PA, Panza JA, Biernat J, Attisano T, Manahan BG, Wiste HJ, Lin G, Lee K, Miller FAJr, Stevens S, Sopko G, She L, Velazquez EJ, STICH Trial Investigators. Core lab analysis of baseline echocardiographic studies in the STICH trial and recommendation for use of echocardiography in future clinical trials. *J Am Soc Echocardiogr.* 2012 Mar; 25(3):327-36. Epub 2012 Jan 09. PMID:22227341. PMCID:3310914. DOI:10.1016/j.echo.2011.12.002. (STICH Trial)
11. Mann DL, Kubo SH, Sabbah HN, Starling RC, Jessup M, Oh JK, Acker MA. Beneficial effects of the CorCap cardiac support device: five-year results from the Acorn Trial. *J Thorac Cardiovasc Surg.* 2012 May; 143(5):1036-42. Epub 2011 Jul 16. PMID:21762937. DOI:10.1016/j.jtcvs.2011.06.014. (ACORN Trial)
12. Deja MA, Grayburn PA, Sun B, Rao V, She L, Krejca M, Jain AR, Leng Chua Y, Daly R, Senni M, Mokrzycki K, Menicanti L, Oh JK, Michler R, Wrobel K, Lamy A, Velazquez EJ, Lee KL, Jones RH. Influence of mitral regurgitation repair on survival in the surgical treatment for ischemic heart failure trial. *Circulation.* 2012 May 29; 125(21):2639-48. Epub 2012 May 02. PMID:22553307. DOI:10.1161/CIRCULATIONAHA.111.072256. (STICH Trial)
13. Michler RE, Rouleau JL, Al-Khalidi HR, Bonow RO, Pellikka PA, Pohost GM, Holly TA, Oh JK, Dagenais F, Milano C, Wrobel K, Pirk J, Ali IS, Jones RH, Velazquez EJ, Lee KL, Di Donato M, STICH Trial Investigators. Insights from the STICH trial: Change in left ventricular size after coronary artery bypass grafting with and without surgical ventricular reconstruction. *J Thorac Cardiovasc Surg.* 2012 Oct 27. [Epub ahead of print] PMID:23111018. DOI:10.1016/j.jtcvs.2012.09.007. (STICH Trial)
14. Oh JK, Velazquez EJ, Menicanti L, Pohost GM, Bonow RO, Lin G, Hellkamp AS, Ferrazzi P, Wos S, Rao V, Berman D, Bochenek A, Cherniavsky A, Rogowski J, Rouleau JL, Lee KL, STICH Investigators. Influence of baseline left ventricular function on the clinical outcome of surgical ventricular reconstruction in patients with ischaemic cardiomyopathy. *Eur Heart J.* 2013 Jan; 34(1):39-47. Epub 2012 May 14. PMID:22584648. PMCID:3533917. DOI:10.1093/eurheartj/ehs021. (STICH Trial)

15. Redfield MM, Chen HH, Borlaug BA, Semigran MJ, Lee KL, Lewis G, LeWinter MM, Rouleau JL, Bull DA, Mann DL, Deswal A, Stevenson LW, Givertz MM, Ofili EO, O'Connor CM, Felker GM, Goldsmith SR, Bart BA, McNulty SE, Ibarra JC, Lin G, Oh JK, Patel MR, Kim RJ, Tracy RP, Velazquez EJ, Anstrom KJ, Hernandez AF, Mascette AM, Braunwald E, RELAX Trial. Effect of phosphodiesterase-5 inhibition on exercise capacity and clinical status in heart failure with preserved ejection fraction: a randomized clinical trial. *JAMA*. 2013 Mar 27; 309(12):1268-77. PMID:23478662. DOI:10.1001/jama.2013.2024. (RELAX Trial)
16. Fine NM, Crowson CS, Lin G, Oh JK, Villarraga HR, Gabriel SE. Evaluation of myocardial function in patients with rheumatoid arthritis using strain imaging by speckle-tracking echocardiography. *Ann Rheum Dis*. 2013 Jul 19. [Epub ahead of print] PMID:23873875. DOI:10.1136/annrheumdis-2013-203314. (HYDRA by Dr. Gabriel)
17. Michler RE, Rouleau JL, Al-Khalidi HR, Bonow RO, Pellikka PA, Pohost GM, Holly TA, Oh JK, Dagenais F, Milano C, Wrobel K, Pirk J, Ali IS, Jones RH, Velazquez EJ, Lee KL, Di Donato M, STICH Trial Investigators. Insights from the STICH trial: change in left ventricular size after coronary artery bypass grafting with and without surgical ventricular reconstruction. *J Thorac Cardiovasc Surg*. 2013 Nov; 146(5):1139-1145.e6
18. Adams DH, Popma JJ, Reardon MJ, Yakubov SJ, Coselli JS, Deeb GM, Gleason TG, Buchbinder M, Hermiller J Jr, Kleiman NS, Chetcuti S, Heiser J, Merhi W, Zorn G, Tadros P, Robinson N, Petrossian G, Hughes GC, Harrison JK, Conte J, Maini B, Mumtaz M, Chenoweth S, Oh JK, U.S. CoreValve Clinical Investigators. Transcatheter aortic-valve replacement with a self-expanding prosthesis. *N Engl J Med*. 2014 May 8; 370(19):1790-8.
19. Popma JJ, Adams DH, Reardon MJ, Yakubov SJ, Kleiman NS, Heimansohn D, Hermiller J Jr, Hughes GC, Harrison JK, Coselli J, Diez J, Kafi A, Schreiber T, Gleason TG, Conte J, Buchbinder M, Deeb GM, Carabello B, Serruys PW, Chenoweth S, Oh JK, CoreValve United States Clinical Investigators. Transcatheter aortic valve replacement using a self-expanding bioprosthesis in patients with severe aortic stenosis at extreme risk for surgery. *J Am Coll Cardiol*. 2014 May 20; 63(19):1972-81.
20. Fine NM, Crowson CS, Lin G, Oh JK, Villarraga HR, Gabriel SE. Evaluation of myocardial function in patients with rheumatoid arthritis using strain imaging by speckle-tracking echocardiography. *Ann Rheum Dis*. 2014 Oct; 73(10):1833-9. Epub 2013 Jul 19. PMID:23873875 PMCID:3895498 DOI:10.1136/annrheumdis-2013-203314
21. Holly TA, Bonow RO, Arnold JM, Oh JK, Varadarajan P, Pohost GM, Haddad H, Jones RH, Velazquez EJ, Birkenfeld B, Asch FM, Malinowski M, Barretto R, Kalil RA, Berman DS, Sun JL, Lee KL, Panza JA. Myocardial viability and impact of surgical ventricular reconstruction on outcomes of patients with severe left ventricular dysfunction undergoing coronary artery bypass surgery: results of the Surgical Treatment for Ischemic Heart Failure trial. *J Thorac Cardiovasc Surg*. 2014 Dec; 148(6):2677-84.e1. Epub 2014 Jul 30. PMID:25152476 PMCID:4250319 DOI:10.1016/j.jtcvs.2014.06.090

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23. Kukulski T, She L, Racine N, Gradinac S, Panza JA, Velazquez EJ, Chan K, Petrie MC, Lee KL, Pellikka PA, Romanov A, Biernat J, Rouleau JL, Battle C, Rogowski J, Ferrazzi P, Zembala M, Oh JK, Surgical Treatment for Ischemic Heart Failure Investigators. Implication of right ventricular dysfunction on long-term outcome in patients with ischemic cardiomyopathy undergoing coronary artery bypass grafting with or without surgical ventricular reconstruction. *J Thorac Cardiovasc Surg.* 2015 May; 149(5):1312-21.
24. MacDonald MR, She L, Doenst T, Binkley PF, Rouleau JL, Tan RS, Lee KL, Miller AB, Sopko G, Szalewska D, Waclawiw MA, Dabrowski R, Castelvechio S, Adlbrecht C, Michler RE, Oh JK, Velazquez EJ, Petrie MC. Clinical characteristics and outcomes of patients with and without diabetes in the Surgical Treatment for Ischemic Heart Failure (STICH) trial. *Eur J Heart Fail.* 2015 Jul; 17(7):725-34.
25. Reardon MJ, Adams DH, Kleiman NS, Yakubov SJ, Coselli JS, Deeb GM, Gleason TG, Lee JS, Hermiller JB Jr, Chetcuti S, Heiser J, Merhi W, Zorn GL 3rd, Tadros P, Robinson N, Petrossian G, Hughes GC, Harrison JK, Maini B, Mumtaz M, Conte JV, Resar JR, Aharonian V, Pfeffer T, Oh JK, Qiao H, Popma JJ. 2-Year Outcomes in Patients Undergoing Surgical or Self-Expanding Transcatheter Aortic Valve Replacement. *J Am Coll Cardiol.* 2015 Jul 14; 66(2):113-21.
26. Grayburn PA, She L, Roberts BJ, Golba KS, Mokrzycki K, Drozd J, Cherniavsky A, Przybylski R, Wrobel K, Asch FM, Holly TA, Haddad H, Yui M, Maurer G, Kron I, Schaff H, Velazquez EJ, Oh JK. Comparison of Transesophageal and Transthoracic Echocardiographic Measurements of Mechanism and Severity of Mitral Regurgitation in Ischemic Cardiomyopathy (from the Surgical Treatment of Ischemic Heart Failure Trial). *Am J Cardiol.* 2015 Sep 15; 116(6):913-8.
27. Yakubov SJ, Adams DH, Watson DR, Reardon MJ, Kleiman NS, Heimansohn D, Hermiller J Jr, Hughes GC, Harrison JK, Coselli J, Diez J, Schreiber T, Gleason TG, Conte J, Deeb GM, Huang J, Oh J, Byrne T, Caskey M, Popma JJ. 2-Year Outcomes After Iliofemoral Self-Expanding Transcatheter Aortic Valve Replacement in Patients With Severe Aortic Stenosis Deemed Extreme Risk for Surgery. *J Am Coll Cardiol* 2015
28. Bonow RO, Castelvechio S, Panza JA, Berman DS, Velazquez EJ, Michler RE, She L, Holly TA, Desvigne-Nickens P, Kosevic D, Rajda M, Chrzanowski L, Deja M, Lee KL, White H, Oh JK, Doenst T, Hill JA, Rouleau JL, Menicanti L, STICH Trial Investigators. Severity of Remodeling, Myocardial Viability, and Survival in Ischemic LV Dysfunction After Surgical Revascularization. *JACC Cardiovasc Imaging.* 2015 Oct; 8(10):1121-9.

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30. Zorn GL 3rd, Little SH , Tadros P , Deeb GM , Gleason TG , Heiser J , Kleiman NS , Oh JK, Popma JJ , Adams D , Huang J , Reardon MJ . Prosthesis-patient mismatch in high-risk patients with severe aortic stenosis: A randomized trial of a self-expanding prosthesis. *J Thorac Cardiovasc Surg* 2016 Apr; 151 (4):1014-1023.