

ACURATE *neo*™ Aortic Valve System

Publication List



January 2020

2020

- **Transcatheter aortic valve implantation with the ACURATE neo valve: indications, procedural aspects and clinical outcomes.** WK Kim, C Hengstenberg, M Hilker, U Schäfer, TK Rudolph, S Toggweiler, A Rück, L Sondergaard, L Conradi, C Hamm, T Walther, H Möllmann. *EuroIntervention* 2020; Jaa-711 2020, doi: 10.4244/EIJ-D-19-00908

2019

- **Valve-in-Valve Implantation Using the ACURATE neo in Degenerated Aortic Bioprostheses: An International Multicenter Analysis.** A. Holzamer, W. Kim, A. Rück, J. Sathananthan, L. Keller, J. Cosma, T. Bauer, H. Neflignacio, J. Amat-Santos, M. Brinkert, O. Husser, C. Pellegrini, J. Schofer, R. Nerla, M. Montorfano, F. Giannini, P. Stella, S. Kuwata, M. Hilker, F. Castriota, P. Ussi, J. G. Webb, F. Nietispach, S. Toggweiler. *JACC: Cardiovascular Interventions, Volume 12, Issue 22, November 2019, JACC: Cardiovascular Interventions, DOI: 10.1016/j.jcin.2019.07.042.*
- **Safety and efficacy of a self-expanding versus a balloon-expandable bioprosthesis for transcatheter aortic valve replacement in patients with symptomatic severe aortic stenosis: A randomized non-inferiority trial.** J. Lanz, W. Kim, Prof T. Walther, C. Burgdorf, H. Möllmann, Prof A. I Linke, Prof S. Redwood, C. Thilo, M. Hilker, M. Joner, H. Thiele, L. Conzelmann, L. Conradi, S. Kerber, G. Schymik, B. Prendergast, O. Husser, S. Stortecky, D. Heg, Prof P. Jüni, Prof S. Windecker, T. Pilgrim. *Lanz J., et al. Lancet. Volume 394, Issue 10209, P1619-1628, November 02, 2019 DOI: https://doi.org/10.1016/S0140-6736(19)32220-2*
- **Transcatheter Valve SELECTION in Patients With Right Bundle Branch Block and Impact on Pacemaker Implantations.** O. Husser, C. Pellegrini, W. Kim, A. Holzamer, Thomas Pilgrim, S. Toggweiler, U. Schäfer, J.s Blumenstein, F. Deuschl, T. Rheude, M. Joner, M. Hilker, C.Hengstenberg and H. Möllmann. *JACC Cardiovasc Interv. 2019 September Volume 12, Issue 18, DOI: 10.1016/j.jcin.2019.05.055.*
- **Safety of Next-Day Discharge After Transfemoral Transcatheter Aortic Valve Replacement With a Self-Expandable Versus Balloon-Expandable Valve Prosthesis.** N. Moriyama, A. Vento, M. Laine. *Cardiovascular Interventions. 2019 Jun 6;12:e007756 https://doi.org/10.1161/CIRCINTERVENTIONS.118.007756.*
- **Multicentre propensity-matched comparison of transcatheter aortic valve implantation using the ACURATE TA/neo self-expanding versus the SAPIEN 3 balloon-expandable prosthesis.** S. Barth, W. Reents, M. Zacher, S. Kerber, A. Diegeler, B. Schieffer, M. Schreiber, B. Lauer, T. Kuntze, M. Dahmer, C. Hamm, K.Hamm. *EuroIntervention* 2019;15:884-891. DOI: 10.4244/EIJ-D-18-01120.
- **One year clinical outcome with a novel self expanding transcatheter heart valve** C. Pellegrini, T. Rheude, T. Trenkwalder, N. Patrick Mayr, J. Michel, A. Kastrati, H. Schunkert, A. M. Kasel, M. Joner, C. Hengstenberg, O. Husser. *Catheterization and Cardiovascular Interventions* 24 February 2019 <https://doi.org/10.1002/ccd.28144>.
- **Accurate neo and Evolut PRO in the NEOPRO Registry. Adding Another String to the Bow? Accurate neo and Evolut PRO in the NEOPRO Registry.** T. Modine, P. Overchouk. *JACC Cardiovasc Interv. Mar 2019, 12 (5) 444-447; doi: 10.1016/j.jcin.2018.12.033.*
- **Transcatheter Aortic Valve Replacement With Next-Generation Self-Expanding Devices: A Multicenter, Retrospective, Propensity-Matched Comparison of Evolut PRO Versus Accurate neo Transcatheter Heart Valves.** M. Pagnesi, W. Kim, L. Conradi, M. Barbanti, G. G. Stefanini, T. Zeus, T. Pilgrim, J. Schofer, D. Zweiker, L. Testa, M. Taramasso, D. Hildick-Smith, A. Abizaid, A. Wolf, N. M. Van Mieghem, A. Sedaghat, J. Wöhrle, S. Khogali, J.A.S. Van der Heyden, J. G. Webb, R. Estévez-Loureiro, D. Mylotte, P. MacCarthy, S. Brugaletta, C. W. Hamm, O.D. Bhadra, U. Schäfer, G. Costa, C. Tamburino, F. Cannata, B. Reimers, V. Veulemans, M. Asami, S. Windecker, A.Eitan, A. Schmidt, G. Bianchi, F. Bedogni, M. Saccoci, F. Maisano, O. Alsanjari, D. Siqueira, C.J. Jensen, C.K. Naber, F. Ziviello, J. Sinning, Julia Seeger, W. Rottbauer, J. Brouwer, A. Alenezi, D. A. Wood, V. Tzalamouras, A. Regueiro, A. Colombo, A. Latib. *JACC Cardiovasc Interv Mar 2019, 12 (5) 433-443; doi: 10.1016/j.jcin.2018.11.036.*

2018

- **Impact of implant depth on hydrodynamic function with the ACURATE neo transcatheter heart valve following valve-in-valve transcatheter aortic valve replacement in Mitroflow bioprosthetic valves: an ex-vivo bench study.** J, Sathananthan, S, Sellers, R, Fraser, D, Dvir, M, Hensey, DJ, Murdoch, P, Blanke, P, Pibarot, S, Toggweiler, D, Wood, I, Leipsic, JG, Webb. *EuroIntervention* 2018; *Jaa-489* 2018, doi:10.4244/EIJ-D-18-00947.
- **The ACURATE neo aortic valve system** Tawfiq Choudhury, Amir Solomonica & Rodrigo Bagur The ACURATE neo transcatheter aortic valve system, Expert Review of Medical Devices, DOI: 10.1080/17434440.2018.1526675.
- **Transfemoral Implantation of the ACURATE neo for the Treatment of Aortic Regurgitation** Toggweiler S, Cerillo AG, Kim WK, Biaggi P, Lloyd C, Hilker M, Almagor Y, Cuculi F, Brinkert M, Kobza R, Muller O, Rück A, Corti R. *J Invasive Cardiol. Vol. 30, Epub 2018 July 15. pii: JIC2018715-3.*
- **Midterm Outcomes With the Self-expanding ACURATE neo Aortic Bioprosthesis. The “Bumblebee Paradox” in TAVR.** Barbanti M, Todaro D. *JACC Cardiovasc Interv.* 2018 July, vol. 11, N° 14, July 2018.
- **The SAVI-TF Registry: 1-Year Outcomes of the European Post-Market Registry Using the ACURATE neo Transcatheter Heart Valve Under Real-World Conditions in 1,000 Patients.** Kim WK, Hengstenberg C, Hilker M, Kerber S, Schäfer U, Rudolph T, Linke A, Franz N, Kuntze T, Nef H, Kappert U, Zembala MO, Toggweiler S, Walther T, Möllmann H. *JACC Cardiovasc Interv.* 2018 Jul 23;11(14):1368-1374. doi: 10.1016/j.jcin.2018.03.023.
- **The ACURATE neo Transcatheter Heart Valve: A Comprehensive Analysis of Predictors of Procedural Outcome.** Kim WK, Möllmann H, Liebetrau C, Renker M, Rolf A, Simon P, Van Linden A, Arsalan M, Doss M, Hamm CW, Walther T. *JACC Cardiovasc Interv.* 2018 May 21. pii: S1936-8798(18)31024-0. doi: 10.1016/j.jcin.2018.04.039.
- **Feasibility of transcatheter aortic valve implantation in patients with coronary heights <= 7mm: insights from the transcatheter aortic valve implantation Karlsruhe (TAVIK) registry.** Conzelmann L, Würth A, Schymik G, Schröfel H, Anusic T, Temme S, Tzamalís P, Gerhardus J, Mukherjee C, Gonska B-D, Schmitt C and Mehlhorn U. *European Journal of Cardio-Thoracic Surgery*, 2018 Apr 2, 1–10 doi:10.1093/ejcts/eyz130.
- **Predictors of paravalvular regurgitation and permanent pacemaker implantation after TAVR with a next-generation self-expanding device.** Mauri V, Deuschl F, Frohn T, Schofer N, Linder M, Kuhn E, Schaefer A, Rudolph V, Madershahian N, Conradi L, Rudolph T, Schäfer U. *Clinical Research in Cardiology*, <https://doi.org/10.1007/s00392-018-1235-1>, 17 April 2018.
- **Prospective multicentre evaluation of a novel, low-profile transapical delivery system for self-expandable transcatheter aortic valve implantation: 6-month outcomes.** Conradi L, Hilker M, Kempfert J, Börgermann J, Treede H, Holzhey D, Schröfel H, Kim WK, Schaefer U, Walther T. *European Journal of Cardio-Thoracic Surgery*, ezy097, <https://doi.org/10.1093/ejcts/ezy097>, 2018 March 14.
- **First dutch experience of the ACURATE neo self-expanding supra-annular valve for valve-in-valve transcatheter aortic valve implantation.** Soon KH, Kooistra NHM, Voskuil M, Kraaijeveld AO, Stella PR. *Neth Heart J.* 2018 Feb 9. doi: 10.1007/s12471-018-1087-3.
- **Real-world experience using the ACURATE neo™ prosthesis: 30-day outcomes of 1000 patients enrolled in the SAVI TF registry.** Möllmann H, Hengstenberg C, Hilker M, Kerber S, Schäfer U, Rudolph T, Linke A, Franz N, Kuntze T, Nef H, Kappert U, Walther T, Zembala MO, Toggweiler S, Kim WK. *EuroIntervention.* 2018 Feb 2;13(15):e1764-e1770. doi: 10.4244/EIJ-D-17-00628.
- **Trans-Subclavian Implantation of the ACURATE neo Transcatheter Aortic Prosthesis.** Poli A, Baldo A, Martina P, Ferrara E, Vittonati L, Di Credico G. *Vascular Disease Management® Volume 15, No.1 January 2018 E3.*

2017

- **Short-Term Outcome and Hemodynamic Performance of Next-Generation Self-Expanding Versus Balloon-Expandable Transcatheter Aortic Valves in Patients with Small Aortic Annulus: A Multicenter Propensity-Matched Comparison.** Mauri V, Kim WK, Abumayyaleh M, Walther T, Möllmann H, Schäfer U, Conradi L, Hengstenberg C, Hilker M, Wahlers T, Baldus S, Rudolph V, Madershahian N, Rudolph TK. *Circ Cardiovasc Interv.* 2017 Oct; doi: 10.1161/CIRCINTERVENTIONS.117.005013.
- **Outcome of Next-Generation Transcatheter Valves in Small Aortic Annuli: A Multicenter Propensity-Matched Comparison.** Mauri V, Kim W-K, Abumayyaleh M, walther T, Möllmann H, Schäfer U, Conradi L, Hengstenberg C, Hilker M, Wahlers T, Baldus S, Rudolph V, Madershahian N, Rudolph T. *Circ Cardiovasc Interv.* 2017 Oct ;10:e005013.
- **Multicenter Comparison of Novel Self-Expanding Versus Balloon-Expandable Transcatheter Heart Valves.** Husser O, Kim WK, Pellegrini C, Holzamer A, Walther T, Mayr PN, Joner M, Kasel AM, Trenkwalder T, Michel J, Rheude T, Kastrati, A, Schunkert H, Burgdorf C, Hilker M, Möllmann H, Hengstenberg C. *JACC Cardiovasc Interv.* 2017 Oct, vol. 20, N°20, 2017.
- **Very low pacemaker rate following ACURATE neo transcatheter heart valve implantation.** Toggweiler S, Nissen H, Mogensen B, Cuculi F, Fallesen C, Veien KT, Brinkert M, Kobza R, Rück A. *EuroIntervention.* 2017 Sep 5. pii: EIJ-D-17-00252. doi: 10.4244/EIJ-D-17-00252.
- **Transfemoral TAVI using the self-expandable ACURATE neo prosthesis: one-year outcomes of the multicenter "CE-approval-cohort".** Möllmann H1, Walther T, Siqueira D, Diemert P, Treede H, Grube E, Nickenig G, Baldus S, Rudolph T, Kuratani T, Sawa Y, Kempfert J, Kim WK, Abizaid A. *EuroIntervention.* 2017 Aug 15. pii: EIJ-D-17-00187. doi: 10.4244/EIJ-D-17-00187.
- **Direct Percutaneous Transaxillary Implantation of a Novel Self-Expandable Transcatheter Heart Valve for Aortic Stenosis.** Deuschl F, Schofer N, et al. *Catheterization and Cardiovascular Interventions* 00:00–00 (2017).
- **Transcatheter aortic valve implantation using the ACURATE TA and ACURATE neo valves: a 4-year single-center experience** Hamm, K., Reents, W., Zacher, M., Kerber, S., Diegeler, A., Schieffer, B., Barth, S. *Eurointervention* 2017; Jaa-087 2017, doi: 10.4244/EIJ-D-16-00898.

2016

- **Prospective Comparison Between Three TAVR Devices: ACURATE neo vs. CoreValve vs. SAPIEN XT. A Single Heart Team Experience in Patients with Severe Aortic Stenosis** Jatene, T., Castro-Filho, A., Meneguz-Moreno, R. A., Siqueira, D. A., Abizaid, A. A.C., Ramos, A. I.O., Arrais, M., LeBihan, D. C.S., Barretto, R. B.M., Moreira, A. C., Sousa, A. G.M.R. and Eduardo Sousa, J. *Cathet. Cardiovasc. Intervent.* 2016 Dec. doi:10.1002/ccd.26837.
- **Successful percutaneous implantation of Symetis ACURATE neo transcatheter aortic bioprosthesis in a patient with existing mechanical mitral valve.** Ali S, Alsancak Y, Duran M, Bilge M. *Anatol J Cardiol.* 2016 Nov;16(11):E20. doi: 10.14744 AnatolJCardiol.2016.7246.
- **First North American Experience with the Transfemoral ACURATE neo Self-Expanding Transcatheter Aortic Bioprosthesis** Bagur, R., Teefy, P. J., Kiaii, B., Diamantouros, P. and Chu, M. W.A. *Cathet. Cardiovasc. Intervent.* 2016 Sep. doi:10.1002/ccd.26802.
- **First-in-man transfemoral transcatheter aortic valve implantation with the ACURATE neo for the treatment of aortic regurgitation.** Toggweiler S, Biaggi P, Grünenfelder J, Reho I, Bühler I, Corti R. *EuroIntervention.* 2016 May 17;12(1):78. doi: 10.4244/EIJV12I1A14. No abstract available.

- **Improving outcomes: case-matched comparison of novel second-generation versus first-generation self-expandable transcatheter heart valves.** Schaefer A, Treede H, Schoen G, Deuschl F, Schofer N, Schneeberger Y, Blankenberg S, Reichenspurner H, Schaefer U, Conradi L. *Eur J Cardiothorac Surg.* 2016 Aug;50(2):368-73. doi: 10.1093/ejcts/ezw021. Epub 2016 Feb 16.
- **Successful percutaneous implantation of Symetis ACURATE neo transcatheter aortic bioprosthesis for the treatment of pure aortic regurgitation.** Cerillo AG, Griese D, Berti S. *Catheter Cardiovasc Interv.* 2016 Aug;88(2):319-23. doi: 10.1002/ccd.26402. Epub 2016 Jan 13.

2015

- **Salvaging lowermost deployment of an ACURATE device during transcatheter aortic valve replacement with balloon and lasso pull techniques.** Corcione N, Biondi-Zoccai G, Giordano A. *Catheter Cardiovasc Interv.* 2015 Oct 1. doi: 10.1002/ccd.26252. [Epub ahead of print].
- **Symetis Acurate neo Transfemoral Aortic Bioprosthesis – Initial Polish Experience.** Zembala M et al. *Kardiol Pol.* 2016;74(3):206-12. doi: 10.5603/KPa.2015.0192. Epub 2015 Sep 28.
- **Symetis ACURATE TAVI: Review of the technology, developments and current data with this selfexpanding transcatheter heart valve.** Schaefer U, Conradi L, Diemert P, Deuschl F, Schofer N, Seiffert M, Lubos E, Shirmer J, Reichenspurner H, Blankenberg S, and Treede H. *Minerva Cardioangiol.* 2015 Oct;63(5):359-69. Epub 2015 Jul 22.
- **Device landing zone calcification and its impact on residual regurgitation after transcatheter aortic valve implantation with different devices.** Seiffert M, Fujita B, Avanesov M, Lunau C, Schön G, Conradi L, Prashovikj E, Scholtz S, Börgermann J, Scholtz W, Schäfer U, Lund G, Ensminger S, Treede H. *Eur Heart J Cardiovasc Imaging.* 2015 Jul 9. pii: jev174. [Epub ahead of print].
- **Symetis Valve Implantation in Failing Freestyle With Close Proximity Between Coronary Ostia and Annulus.** Nagendran J, Catrip J, Diamantouros P, Teefy P, Kiaii B, Chan I, Goela A, Holzhey D, Chu M. *Ann Thorac Surg* 2015; 99:e87–8.
- **Single Institution Experience With Transcatheter Valve-in-Valve Implantation Emphasizing Strategies for Coronary Protection.** Camboni D et al. *Ann Thorac Surg* 2015;99:1532–8.
- **A new self-expanding transcatheter aortic valve for transfemoral implantation – First in Asia implantation of the ACURATE v/TF system: early results.** Maeda K, Kuratani T, Torikai K, Mizote I, Ichibori Y, Onishi T, Nakatani S, Sakata Y, Toda K, Sawa Y. *Accepted by Circulation on Jan 4th 2015.*

2013

- **Symetis ACURATE TF aortic bioprosthesis.** Möllmann H, Diemert P, Grube E, Baldus S, Kempfert J, Abizaid A. *EuroIntervention* 2013;9:S107-S110.

Please click on each
publication for download

All cited trademarks are the property of their respective owners. CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. Information for use only in countries with applicable health authority product registrations. Not for use or distribution in France, Japan and the USA.

SH-500408-AF Printed in Germany by medicalvision.

**Boston
Scientific**
Advancing science for life™

www.bostonscientific.eu

© 2020 Boston Scientific Corporation
or its affiliates. All rights reserved.
DINSH0150EB