



EUROPEAN
SOCIETY OF
CARDIOLOGY®

European Heart Journal

Volume 38 No. 16 April 2017

ISSUE @ A GLANCE

-  **Valvular heart disease: new risk factors and new challenges**
T.F. Lüscher 1173

CardioPulse

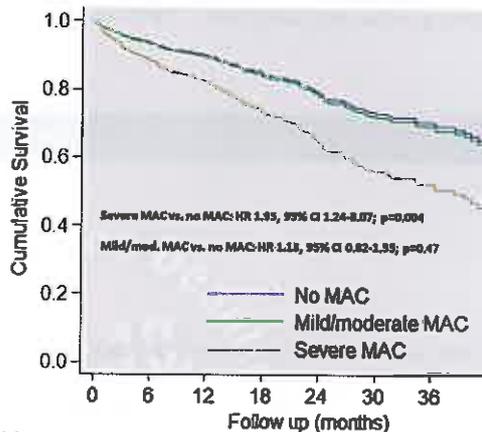
- TAVI in Bicuspid Aortic Valves 'Made Easy'**
A.H. Frangieh and A.M. Kasel 1177
- Novel TAVI presented at South Africa Heart Congress 2016**
A. Tofield 1181
- TAVI for low to middle income countries**
D. Bezuidenhout, D.F. Williams, C. Ofoegbu, J. Scherman, and P. Zilla 1182
- Cardiology Update 2017—an ongoing success story**
T.F. Lüscher 1185
- From Asia to Cardiology Update 2017 in Davos, Switzerland**
A. Tofield 1187
- Joint Communication from Davos Cardiology Update, February 2017**
T.F. Lüscher, R. Amstein, and S. Yusuf 1188

CURRENT OPINION

-  **Aortic valve calcification: a bone of contention**
S. Bertazzo and E. Gentleman 1189

CLINICAL RESEARCH

Valvular heart disease



Number at risk	0	6	12	18	24	30	36
No MAC	386	353	336	237	144	87	58
Mild/Moderate MAC	303	272	259	180	115	69	46
Severe MAC	72	59	54	38	23	14	10

Concomitant mitral annular calcification and severe aortic stenosis: prevalence, characteristics and outcome following transcatheter aortic valve replacement

Y. Abramowitz, Y. Kazuno, T. Chakravarty, H. Kawamori, Y. Maeno, D. Anderson, Z. Allison, G. Mangat, W. Cheng, A. Gopal, H. Jilaihawi, M.J. Mack, and R.R. Makkar 1194



Editorial

- Severe mitral annular calcification and TAVR: not an innocent bystander**
F.J. Sawaya and L. Søndergaard 1204

TAVI

- Transcatheter aortic valve thrombosis: the relation between hypo-attenuated leaflet thickening, abnormal valve haemodynamics, and stroke**
E.M. Vollema, W.K.F. Kong, S. Katsanos, V. Kamperidis, P.J. van Rosendaal, F. van der Kleij, A. de Weger, N. Ajmone Marsan, V. Delgado, and J.J. Bax 1207

Editorial

- Hypo-attenuated leaflet thickening of transcatheter aortic valves: jeopardy or epiphenomenon?**
P. Ruile and F.-J. Neumann 1218

Valvular heart disease	
Comparison of exercise testing and CMR measured myocardial perfusion reserve for predicting outcome in asymptomatic aortic stenosis: the PROgnostic Importance of Microvascular Dysfunction in Aortic Stenosis (PRIMID AS) Study	
A. Singh, J.P. Greenwood, C. Berry, D.K. Dawson, K. Hogrefe, D.J. Kelly, V. Dhakshinamurthy, C.C. Lang, J.P. Khoo, D. Sprigings, R.P. Steeds, M. Jerosch-Herold, S. Neubauer, B. Prendergast, B. Williams, R. Zhang, I. Hudson, I.B. Squire, I. Ford, N.J. Samani, and G.P. McCann	1222
Editorial	
Coronary microvascular reserve and outcome in aortic stenosis: Pathophysiological significance vs. clinical relevance	1230
P. Lancellotti and A. Nchimi	
Congenital heart disease	
Risk factors for excess mortality in adults with congenital heart diseases	
J.M. Oliver, P. Gallego, A.E. Gonzalez, D. Garcia-Hamilton, P. Avila, R. Yotti, I. Ferreira, and F. Fernandez-Aviles	1233
Editorial	
Individual risk stratification in adult congenital heart disease: the way to go?	1242
W. Budts	

SPECIAL ARTICLES

Living history of medicine: vascular scaffolding, from dream to reality	1245
U. Sigwart	
Mapping cross-border collaboration and communication in cardiovascular research from 1992 to 2012	1249
D. Gal, W. Glänzel, and K.R. Sipido	

CARDIOVASCULAR FLASHLIGHTS

Transcatheter repair of persistent tricuspid regurgitation after MitraClip with the TriCinch system: interventional valve treatment toward the surgical standard	1259
M. Taramasso, F. Nietlispach, M. Zuber, and F. Maisano	
Late device embolization after transcatheter mitral valve edge-to-edge repair	1260
J. Seeburger, M. Raschpichler, P. Lurz, T. Noack, J. Ender, and M. Misfeld	
Transcatheter tricuspid valve repair toward a surgical standard: first-in-man report of direct annuloplasty with a cardioband device to treat severe functional tricuspid regurgitation	1261
S. Kuwata, M. Taramasso, F. Nietlispach, and F. Maisano	
Three-dimensional printing in vitro simulation of percutaneous pulmonary valve implantation in large right ventricular outflow tract	1262
I. Valverde, F. Sarnago, R. Prieto, and J.L. Zunzunegui	

LIST OF REVIEWERS

List of Reviewers 2016

1264



Open Access Paper



For the podcast associated with this article, please visit <https://academic.oup.com/eurheartj/pages/Podcasts>



Visit EHJ's mobile site
<https://academic.oup.com/eurheartj>



www.eurheartj.org