

## CURRICULUM VITAE

**Hiroto Utsunomiya, M.D., Ph.D.**

### **EDUCATION:**

March 2011 Ph.D., Department of Cardiovascular Medicine, Hiroshima University Graduate School of Biomedical and Health Sciences

March 2002 M.D., Hiroshima University School of Medicine

Medical Licensure: Japan, April 2002

### **PROFESSIONAL TRAINING AND EMPLOYMENT:**

October 2016—Present, Assistant Professor in Department of Cardiovascular Medicine, Hiroshima University Hospital

March 2016—September 2016, Medical Staff in Department of Cardiovascular Medicine, Hiroshima University Hospital

February 2014—February 2016 Postdoctoral Visiting Scientist in Noninvasive Cardiac Laboratory, Cedars-Sinai Heart Institute

April 2011—January 2014 Medical Staff in Department of Cardiovascular Medicine, Hiroshima University Hospital

April 2007—March 2011 Medical Staff (graduate student) in Department of Cardiovascular Medicine, Hiroshima University Graduate School of Biomedical and Health Sciences

April 2004—March 2007 Resident in Cardiovascular Division of Medicine, National Cerebral and Cardiovascular Center Hospital

May 2002—April 2004 Resident in Internal Medicine, Hiroshima University Hospital

### **PROFESSIONAL AND SOCIETY MEMBERSHIPS:**

2019 Senior Fellow of the Japan Society of Ultrasonics in Medicine (SJSUM)

2018 Fellow of the American Society of Echocardiography (FASE)

2016 Fellow of the Japanese Society of Internal Medicine (FJSIM)

2016 Board Certified Fellow of the Japan Society of Ultrasonics in Medicine (FJSUM)

2009 Board Certified Member of the Japanese Circulation Society

### **RESEARCH GRANTS**

2018 Research Grant from Takeda Science Foundation

2017 Research Grant from MSD Life Science Foundation, Public Interest Incorporated Foundation

2017—2019 Grant-in-Aid for Young Scientists (B) from the Japan Society for the Promotion of Science (JSPS); Grant Number 17K16008

### **AWARDS/SCHOLARSHIPS**

2019 The 30th Annual Scientific Sessions of the American Society of Echocardiography, Arthur E. Weyman Young Investigator's Award

2019 The 83rd Annual Scientific Meeting of the Japanese Circulation Society, Cardiovascular Clinical Research Award

2018 The 91st Annual Scientific Meeting of the Japan Society of Ultrasonics in Medicine, Young Investigator's Award

2017 The 28th Annual Scientific Meeting of the Japanese Society of Echocardiography, Young Investigator's Award

2016 The 27th Annual Scientific Sessions of the American Society of Echocardiography, Arthur E. Weyman Young Investigator's Award

2013 Banyu Life Science Foundation International Scholarship

2013 Japanese Society of Echocardiography Distinguished Abstract Award for Overseas Congress

## PUBLICATIONS

1. **Utsunomiya H**, Harada Y, Susawa H, Takahari K, Ueda Y, Izumi K, Itakura K, Ikenaga H, Hidaka T, Fukuda Y, Shiota T, Kihara Y. Comprehensive Evaluation of Tricuspid Regurgitation Location and Severity Using 3-Dimensional Vena Contracta Analysis. *J Am Soc Echocardiogr*. 2019; in press.
2. **Utsunomiya H**, Itabashi Y, Kobayashi S, Mihara H, Siegel RJ, Shiota T. Clinical Impact of Size, Shape, and Orientation of the Tricuspid Annulus in Tricuspid Regurgitation as Assessed by 3D Echocardiography. *J Am Soc Echocardiogr*. 2019; in press.
3. Nagaura T, Hayashi A, Yoshida J, Ikenaga H, Yamaguchi S, **Utsunomiya H**, Rader F, Siegel RJ, Kar S, Shiota T. Percutaneous Edge-to-edge Repair for Atrial Functional Mitral Regurgitation: A Real-Time Three-Dimensional Transesophageal Echocardiography Study. *JACC Cardiovasc Imaging*. 2019; in press.
4. **Utsunomiya H**, Itabashi Y, Kobayashi S, Yoshida J, Ikenaga H, Rader F, Hussaini A, Makar M, Trento A, Siegel RJ, Kar S, Shiota T. Comparison of mitral valve geometrical effect of percutaneous edge-to-edge repair between central and eccentric functional mitral regurgitation: Clinical implications. *Eur Heart J Cardiovasc Imaging*. 2019; 20(4):455-466.
5. Hidaka T, Masada K, Harada Y, Susawa H, Kinoshita M, Itakura K, Izumi K, **Utsunomiya H**, Higashi Y, Kihara Y. Early mitral inflow velocity to left ventricular global strain ratio predicts limited exercise capacity. *Echocardiography*. 2019; 36(3):503-511.
6. **Utsunomiya H**, Hidaka T, Susawa H, Izumi K, Harada Y, Kinoshita M, Itakura K, Masada K, Kihara Y. Exercise-Stress Echocardiography and Effort Intolerance in Degenerative Mitral Regurgitation: Combined Invasive–Noninvasive Hemodynamic Monitoring. *Circ Cardiovasc Imaging*. 2018; 11(9): e007282.
7. Kobayashi S, **Utsunomiya H**, Shiota T. Severe heart failure (NYHA Class IV) is associated with increased left ventricular mass index and short mitral deceleration time in severe aortic valve stenosis. *Echocardiography*. 2018; 35(8):1108-1115.
8. Itabashi Y, **Utsunomiya H**, Kubo S, Mizutani Y, Mihara H, Murata M, Siegel RJ, Kar S, Fukuda K, Shiota T. Different Indicators for Postprocedural Mitral Stenosis Caused by Single- or Multiple-Clip Implantation After Percutaneous Mitral Valve Repair. *J Cardiol*. 2018; 71(4):336-345.
9. Kobayashi S, Sakai Y, Taguchi I, **Utsunomiya H**, Shiota T. Causes of an increased pressure gradient through the left ventricular outflow tract: a West Coast experience. *J Echocardiogr*. 2018; 16(1):34-41.
10. **Utsunomiya H**, Itabashi Y, Kobayashi S, Rader F, Hussaini A, Makar M, Trento A, Siegel RJ, Kar S, Shiota T. Effect of Percutaneous Edge-to-Edge Repair on Mitral Valve Area and Its Association with Pulmonary Hypertension and Outcomes. *Am J Cardiol*. 2017; 120(4):662-669.
11. **Utsunomiya H**, Itabashi Y, Mihara H, Kobayashi S, De Robertis MA, Trento A, Shiota T. Usefulness of 3D Echocardiographic Parameters of Tricuspid Leaflet Morphology to Predict Residual Tricuspid Regurgitation After Tricuspid Annuloplasty. *Eur Heart J Cardiovasc Imaging*. 2017; 18(7):809-817.
12. Berdejo J, Shiota M, Mihara H, Itabashi Y, **Utsunomiya H**, Shiota T. Vena Contracta Analysis by Color Doppler Three-dimensional Transesophageal Echocardiography Shows Geometrical Differences between Prolapse and Pseudoprolapse in Eccentric Mitral Regurgitation. *Echocardiography*. 2017; 34(5):683-689.
13. **Utsunomiya H**, Berdejo J, Kobayashi S, Mihara H, Itabashi Y, Shiota T. Evaluation of Vegetation Size and Its Relationship With Septic Pulmonary Embolism in Tricuspid Valve Infective Endocarditis: A Real-Time 3DTEE Study. *Echocardiography*. 2017; 34(4):549-556.
14. **Utsunomiya H**, Mihara H, Itabashi Y, Siegel RJ, Chakravarty T, Jilaihawi H, Makkar RR, Shiota T. Impact of Mitral Annular Displacement on Left Ventricular Diastolic Function Improvement After Transcatheter Aortic Valve Implantation. *Circ J*. 2017; 81(4):558-566.
15. **Utsunomiya H**, Itabashi Y, Mihara H, Berdejo J, Kobayashi S, Siegel RJ, Shiota T. Functional Tricuspid Regurgitation Caused by Chronic Atrial Fibrillation: A Real-Time 3-Dimensional Transesophageal Echocardiography Study. *Circ Cardiovasc Imaging*. 2017; 10(1):e004897.
16. **Utsunomiya H**, Mihara H, Itabashi Y, Kobayashi S, Siegel RJ, Chakravarty T, Jilaihawi H, Makkar RR, Shiota T. Geometric Changes in Ventriculoaortic Complex After Transcatheter Aortic Valve Replacement and Its Association With Post-Procedural Prosthesis-Patient Mismatch: An Intraprocedural 3D-TEE Study. *Eur Heart J Cardiovasc Imaging*. 2017; 18(1):1-10.
17. Itabashi Y, Mihara H, Berdejo J, **Utsunomiya H**, Shiota T. Distant Position of Chordae from Coaptation Causes Mitral Regurgitation in Patients with Atrial Fibrillation. *J Heart Val Dis*. 2016; 25(3):323-331.