

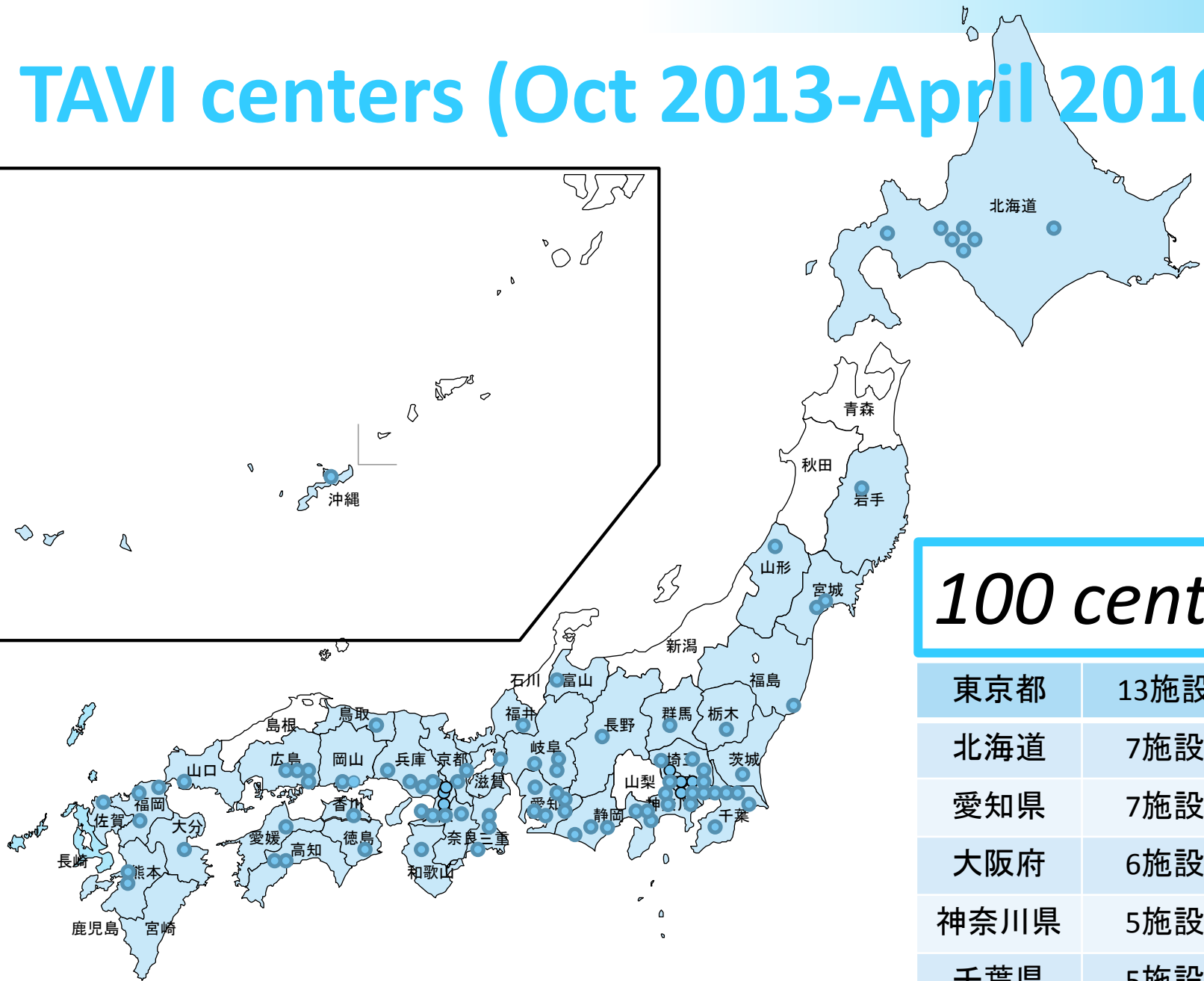
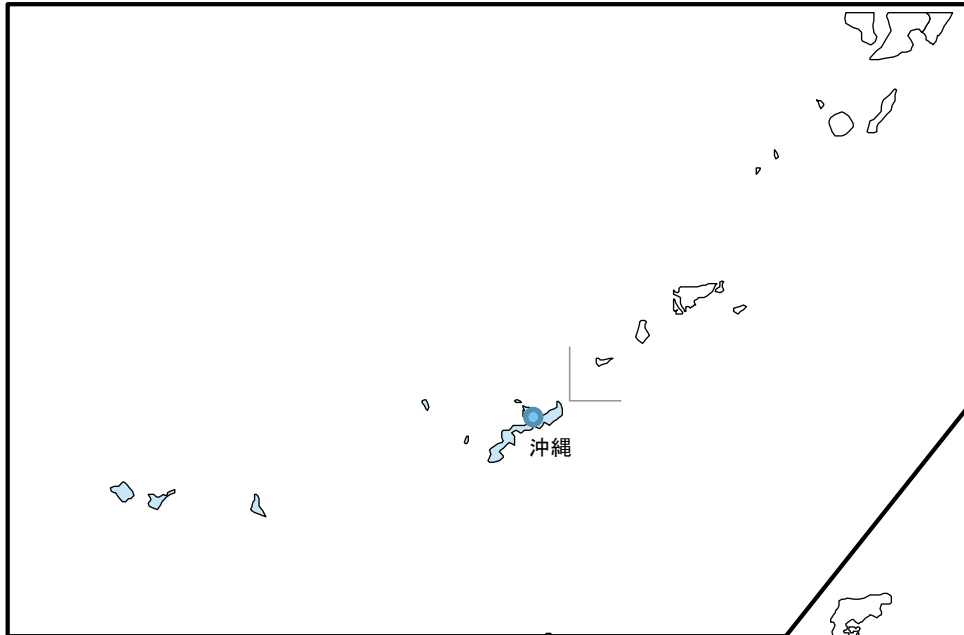


# *Current status of TAVI in Japan*

*Kentaro Hayashida MD, PhD, FESC*

*18<sup>th</sup>, August 2016, the 5<sup>th</sup> AP valves 2016, Seoul*

# TAVI centers (Oct 2013-April 2016)

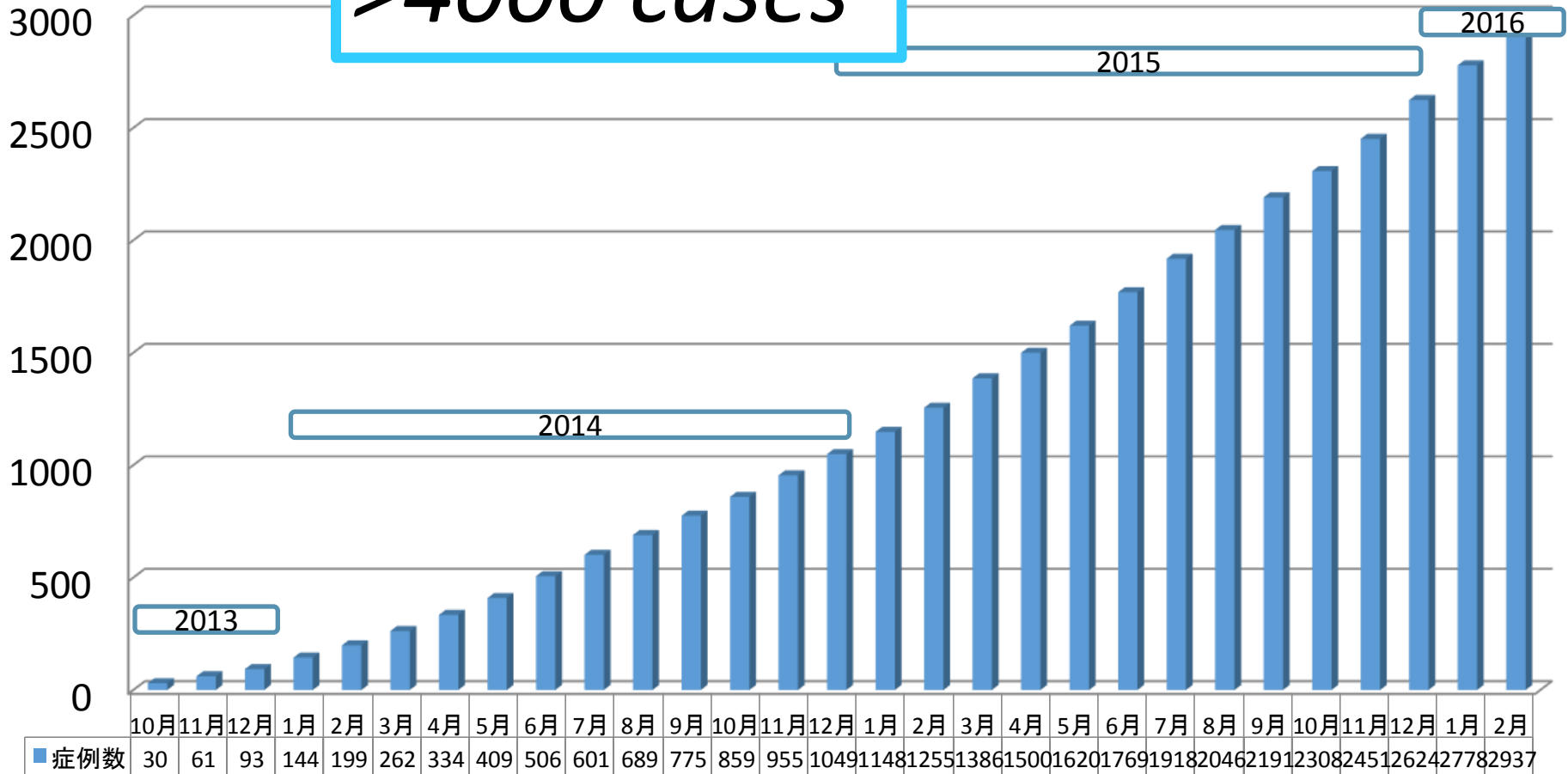


**100 centers**

東京都	13施設
北海道	7施設
愛知県	7施設
大阪府	6施設
神奈川県	5施設
千葉県	5施設

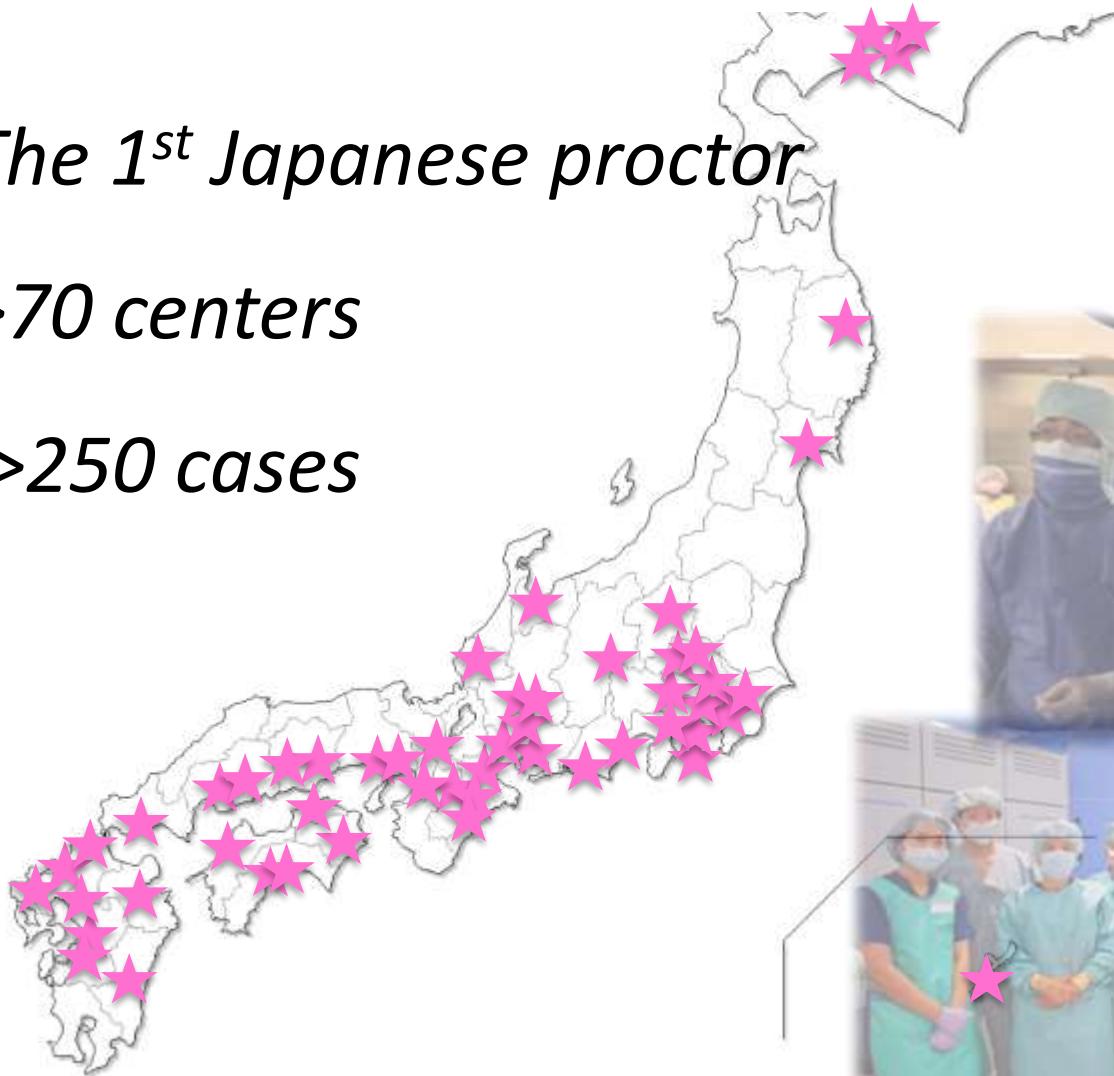
# TAVI cases (Oct 2013-May 2016)

*>4000 cases*



# My proctoring experience in Japan

- *The 1<sup>st</sup> Japanese proctor*
- *>70 centers*
- *>250 cases*





# OCEAN-TAVI registry

*14/100 cen*

*>1300 case*

*>30% share*

Keio Univ

Toyohashi

Teikyo Univ

New Tokyo

Kokura

Yokohama

Sendai

Kamakura

Ogaki

Kishiwada

Osaka City Univ

Tokyo Bay

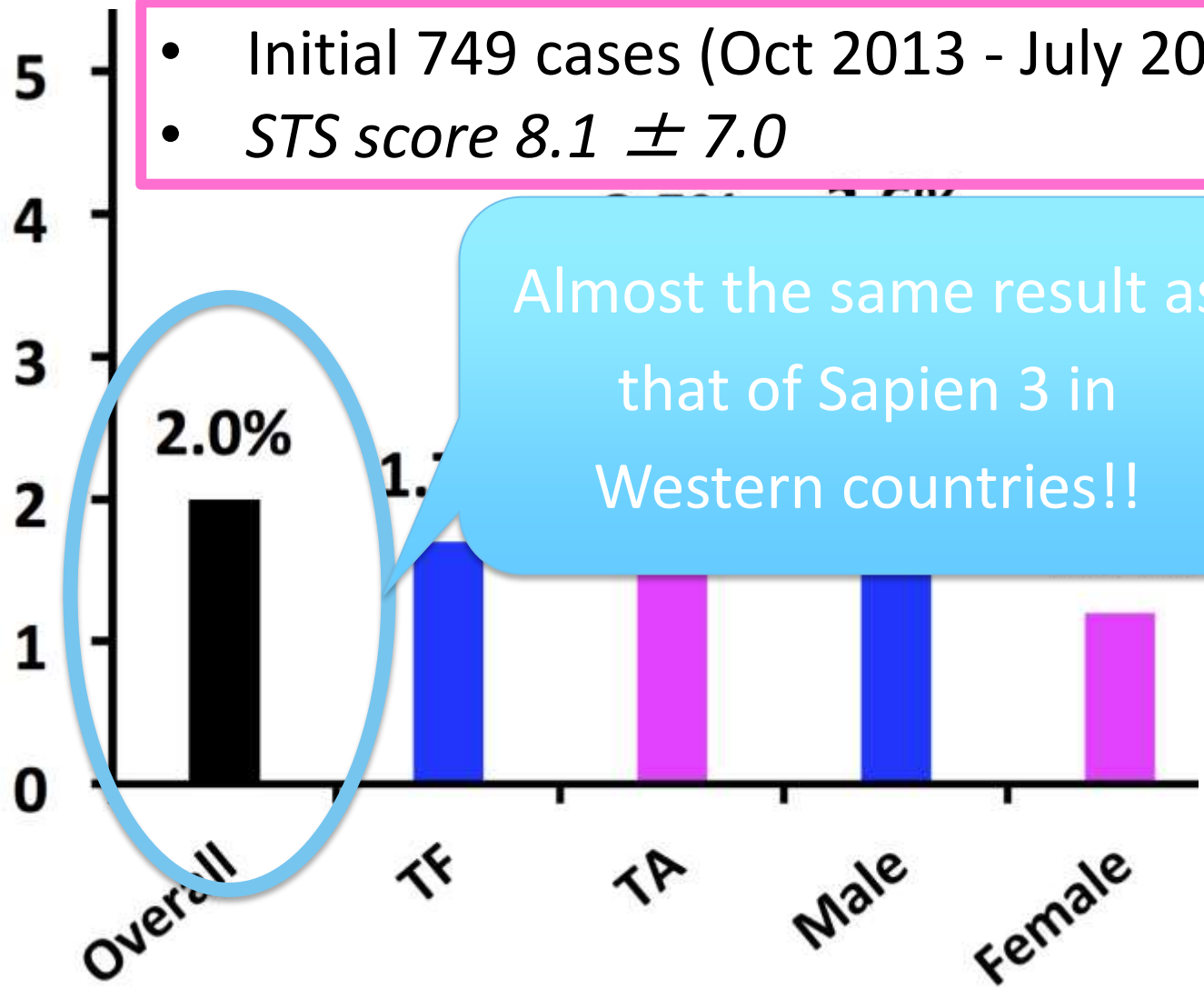
Toyama





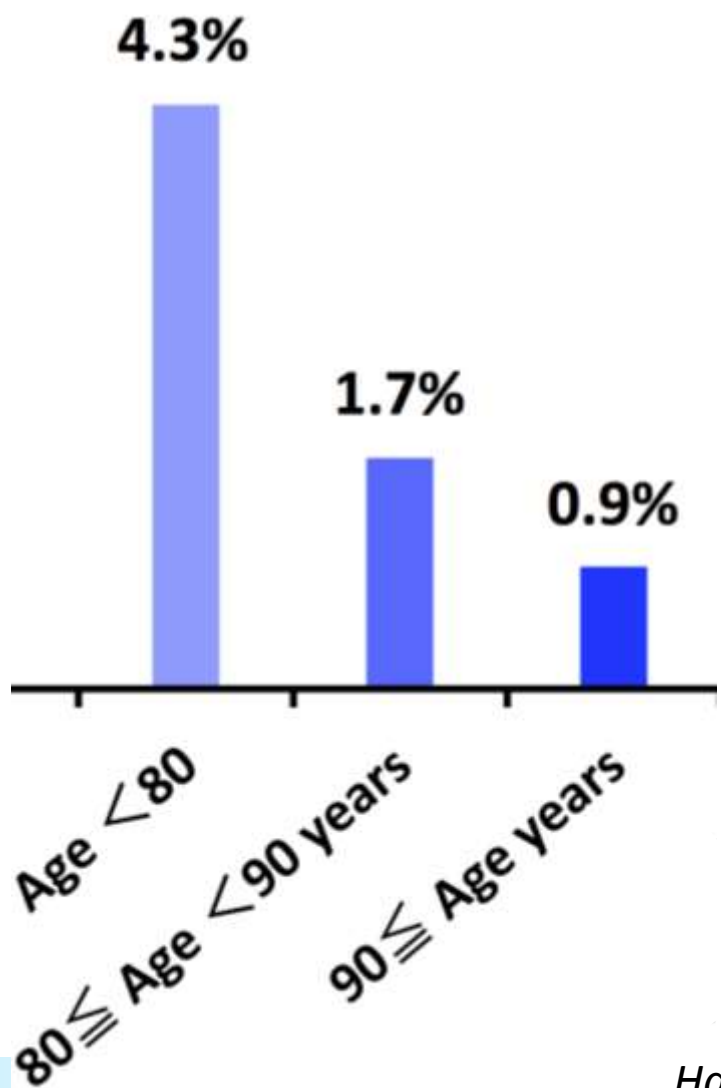
# 30-day mortality with Sapien XT

- Initial 749 cases (Oct 2013 - July 2015)
- *STS score*  $8.1 \pm 7.0$



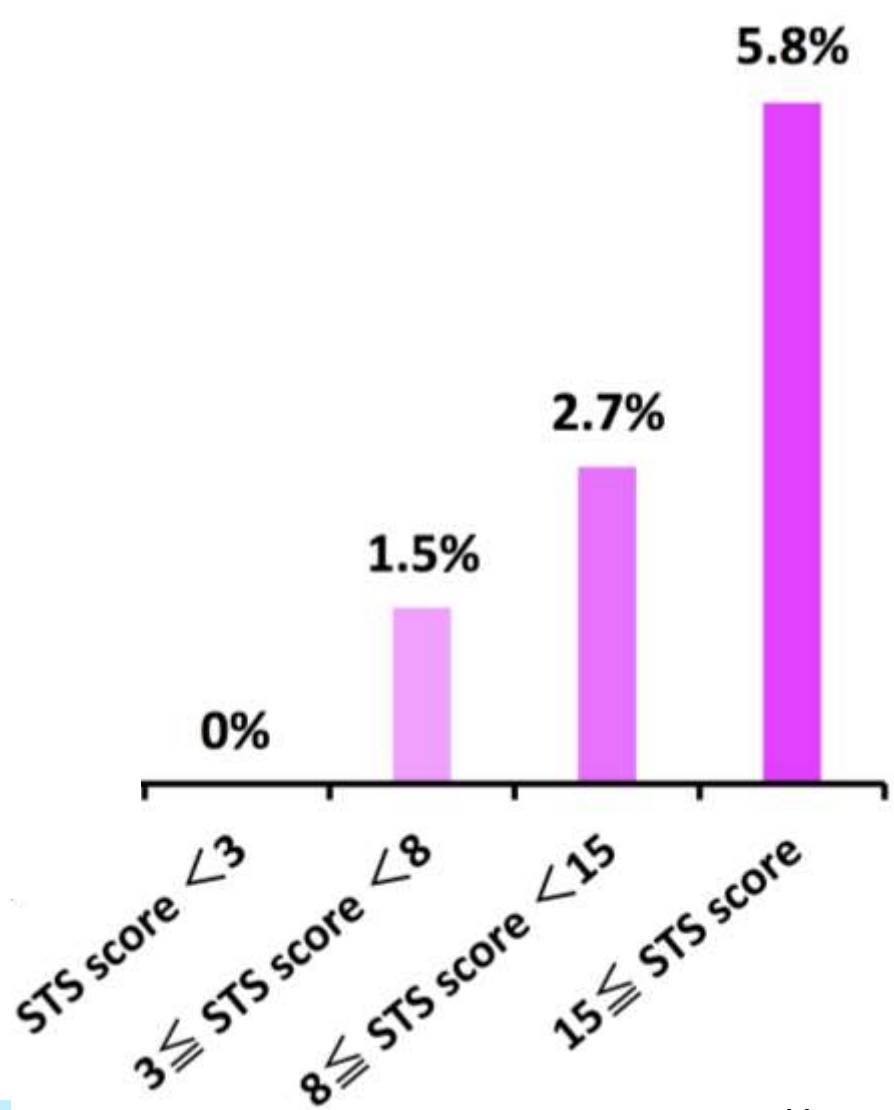


# 30-day mortality (by age)



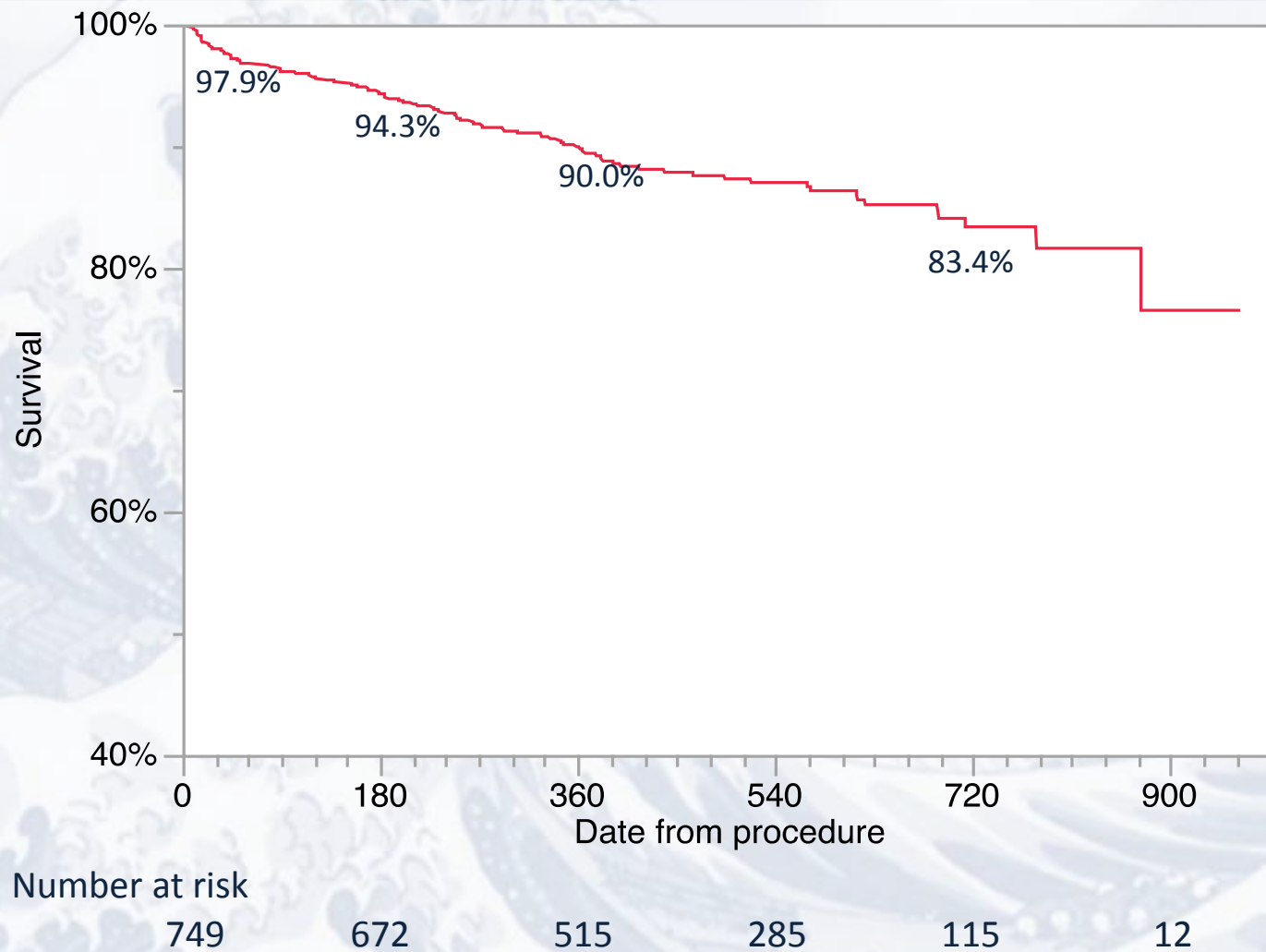


# 30-day mortality (STS score)

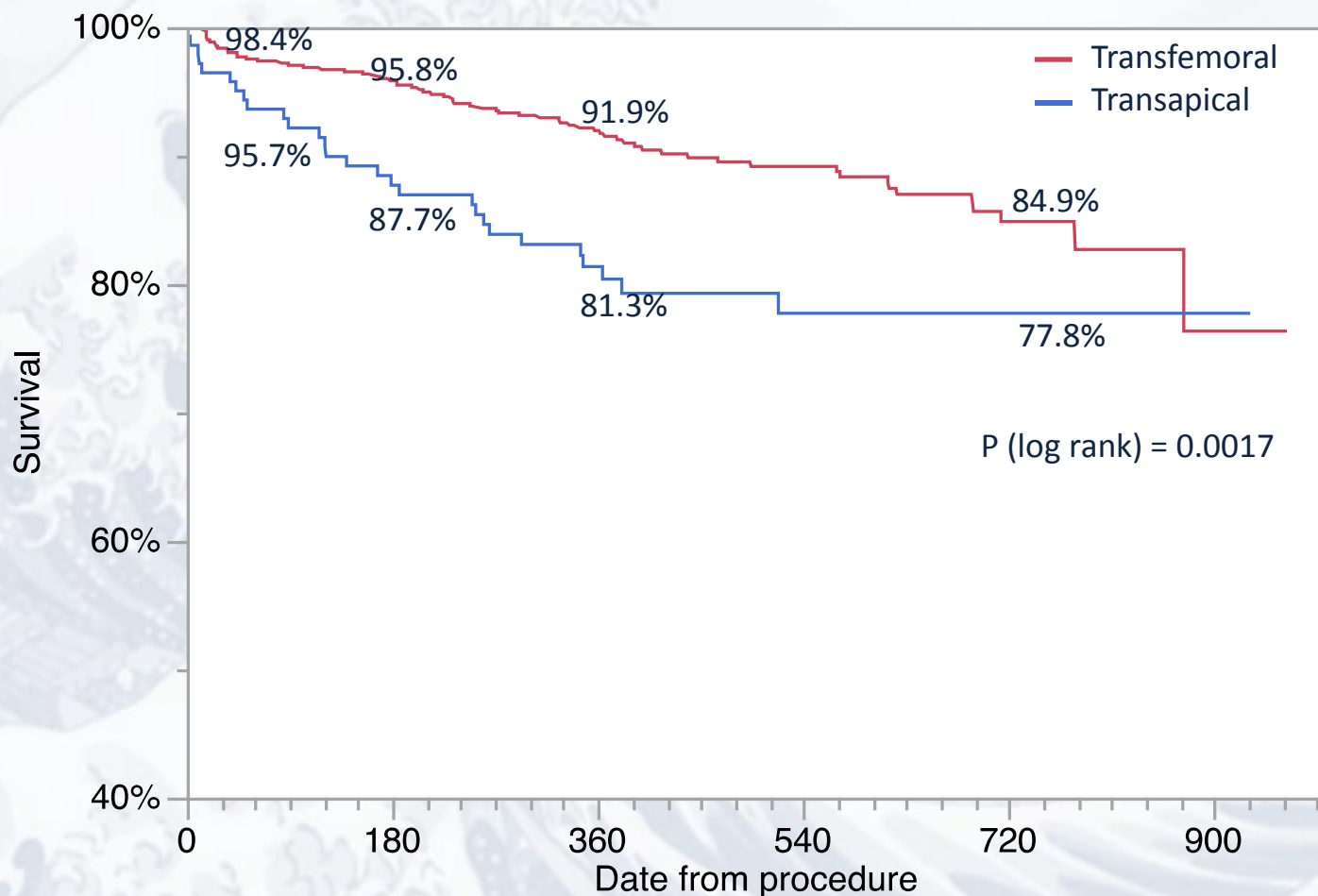




# Survival (All)



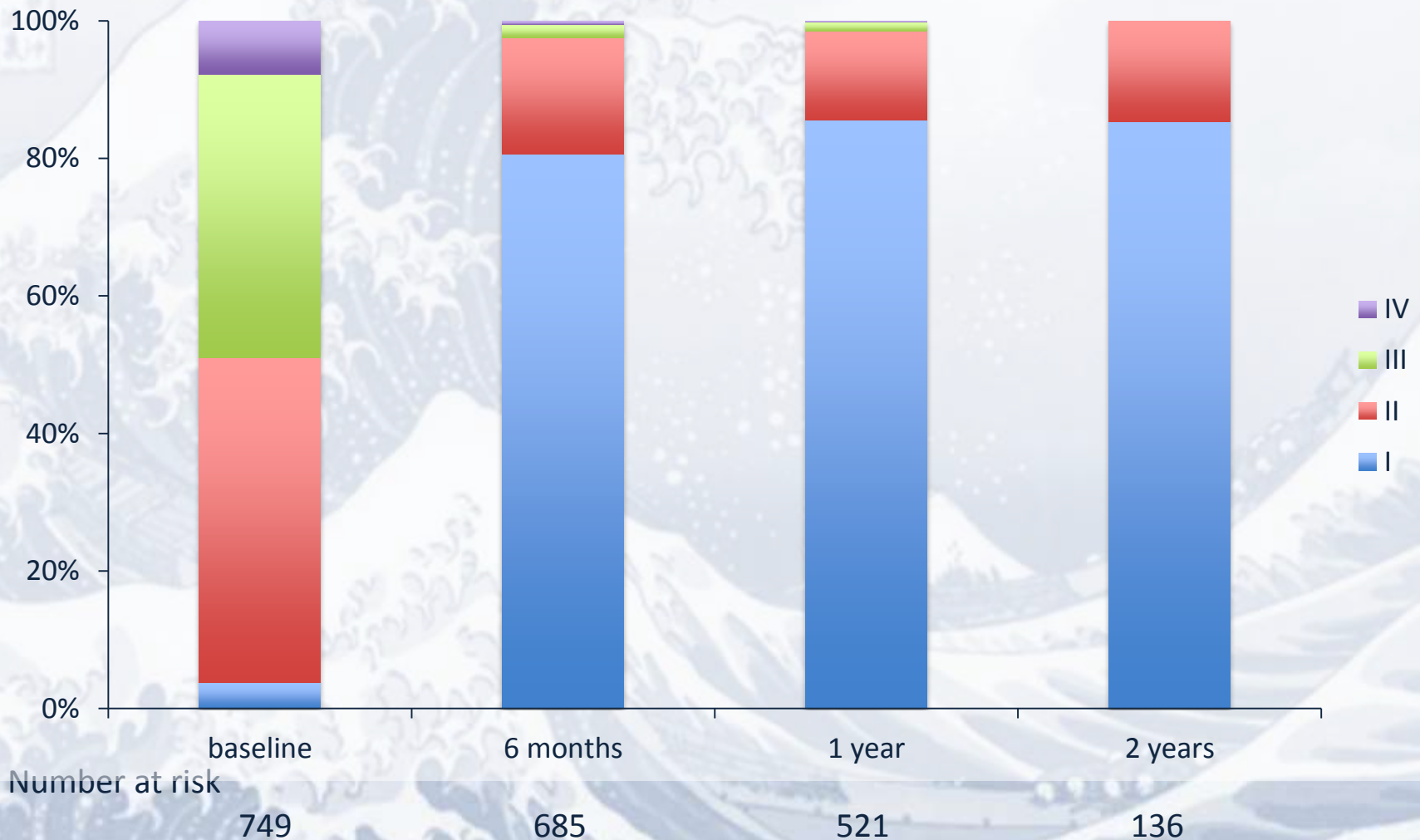
# Survival (TF vs TA)



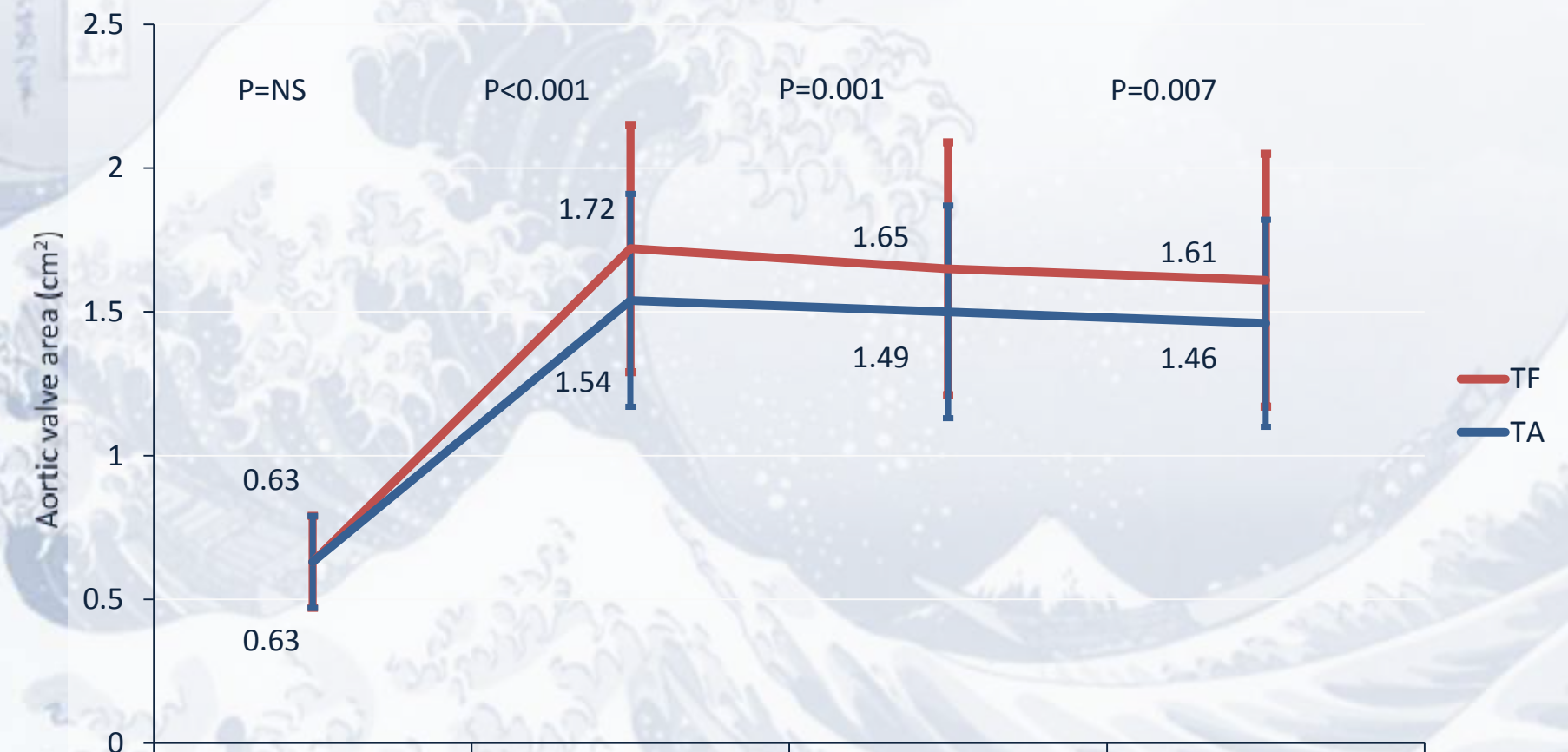
Number at risk

— Transfemoral	607	555	427	237	83	9
— Transapical	141	118	91	48	13	3

# NYHA Class (All)

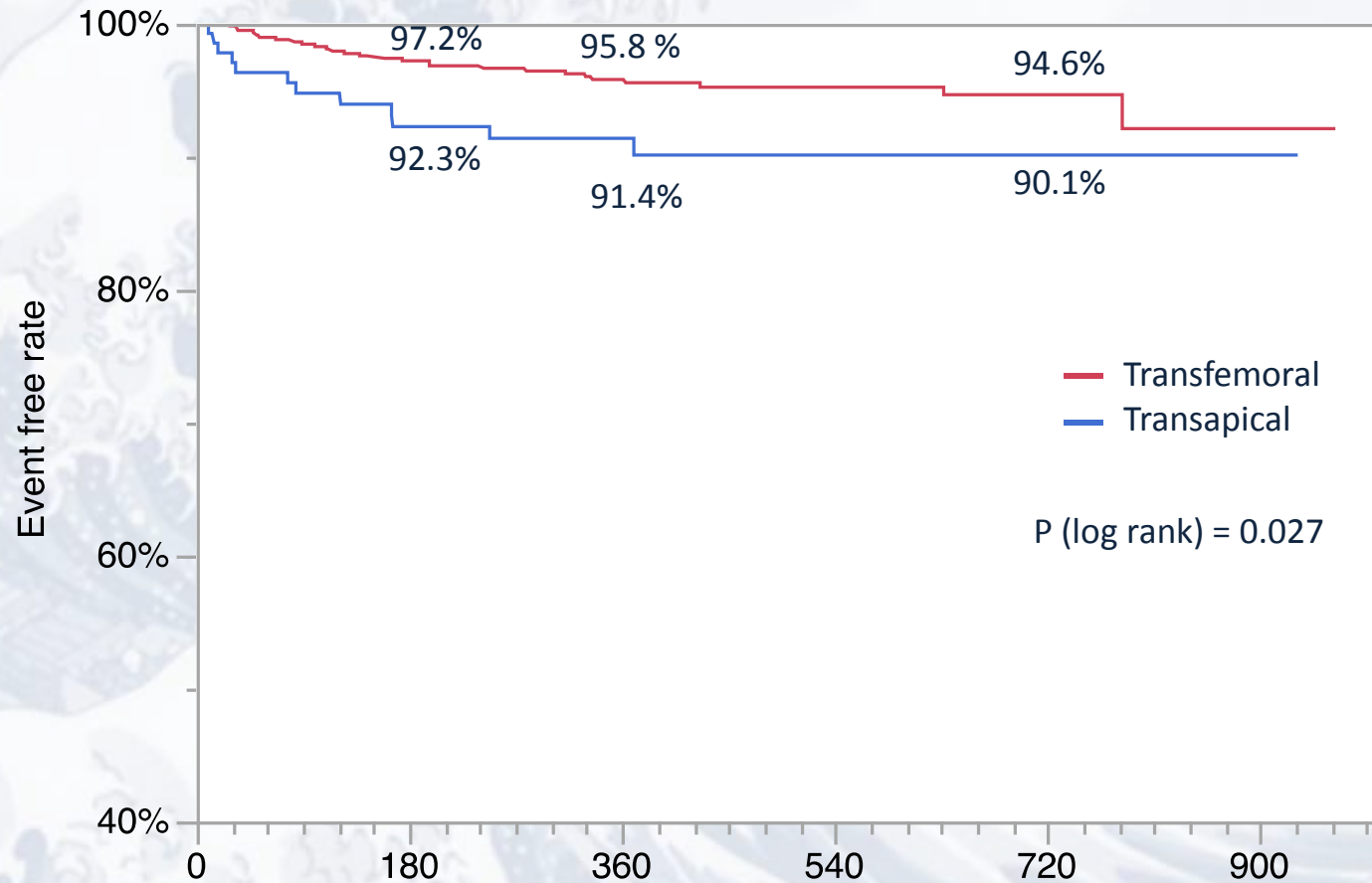


# Echo follow (Aortic valve area)



Number of echo	Baseline	30 days	6 months	1 year
TF (red)	606	595	471	343
TA (blue)	141	131	104	75

# CHF hospitalization (TF vs TA)



	0	180	360	540	720	900
Number at risk						
— Transfemoral	606	534	402	223	96	9
— Transapical	141	109	82	46	14	3



# OCEAN-TAVI registry

## Original Studies

### Streamlining the Learning Process for TAVI: Insight From a Comparative Analysis of the OCEAN-TAVI and the Massy Registries

Taku Inohara,<sup>1</sup> MD, PhD, Kentaro Hayashida,<sup>1\*</sup> MD, PhD, FESC, Yusuke Watanabe,<sup>2</sup> MD, Masanori Yamamoto,<sup>3</sup> MD, PhD, FESC, Kensuke Takagi,<sup>4</sup> MD, Fumiaki Yashima,<sup>1</sup> MD, Takahide Arai,<sup>1,5</sup> MD, Hideyuki Shimizu,<sup>5</sup> MD, PhD, Bernard Chevalier,<sup>5</sup> MD, FESC, FACC, Thierry Lefèvre,<sup>5</sup> MD, FESC, FSCAI, Keiichi Fukuda,<sup>1</sup> MD, PhD, FACC, FESC, and Marie-Claude Morice,<sup>5</sup> MD, FESC, FACC

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Impact of preparatory coronary protection in patients at high anatomical risk of acute coronary obstruction during transcatheter aortic valve implantation



Masanori Yamamoto <sup>a,b,\*</sup>, Tetsuro Shimura <sup>a</sup>, Seiji Kano <sup>b</sup>, Ai Kagase <sup>a</sup>, Atsuko Kodama <sup>a</sup>, Yutaka Koyama <sup>b</sup>, Yusuke Watanabe <sup>c</sup>, Norio Tada <sup>d</sup>, Kensuke Takagi <sup>c</sup>, Motoharu Araki <sup>e</sup>, Shinichi Shirai <sup>a</sup>, Kentaro Hayashida <sup>b</sup>

### Comparison of Results of Transcatheter Aortic Valve Implantation in Patients With Versus Without Active Cancer

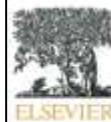
Yusuke Watanabe, MD<sup>b,c</sup>, Ken Kozuma, MD, PhD<sup>a</sup>, Hirofumi Hioki, MD<sup>a</sup>, Hideyuki Kawashima, MD<sup>a</sup>, Yugo Nara, MD<sup>d</sup>, Akihisa Kataoka, MD, PhD<sup>a</sup>, Shinichi Shirai, MD<sup>b</sup>, Norio Tada, MD<sup>c</sup>, Motoharu Araki, MD<sup>d</sup>, Kensuke Takagi, MD<sup>c</sup>, Futoshi Yamanaka, MD<sup>c</sup>, Masanori Yamamoto, MD, PhD<sup>a,b</sup>, and Kentaro Hayashida, MD, PhD<sup>a</sup>

### Comparison of aortic annulus dimensions between Japanese and European patients undergoing transcatheter aortic valve implantation as determined by multi-detector computed tomography: results from the OCEAN-TAVI (Optimised transCathEter vAlvular interveNtion) registry and a European single-centre cohort



Yusuke Watanabe<sup>1\*</sup>, MD; Marie-Claude Morice<sup>2</sup>, MD; Ken Kozuma<sup>1</sup>, MD, PhD; Masanori Yamamoto<sup>3</sup>, MD, PhD; Hideyuki Kawashima<sup>1</sup>, MD, PhD; Fumiaki Yashima<sup>1</sup>, MD; Taku Inohara<sup>4</sup>, MD; Erik Bouvier<sup>2</sup>, MD; Takahide Arai<sup>2</sup>, MD, PhD; Keiichi Fukuda<sup>4</sup>, MD, PhD; Thierry Lefevre<sup>2</sup>, MD; Kentaro Hayashida<sup>4</sup>, MD, PhD

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Impact of underfilling and overfilling in balloon-expandable transcatheter aortic valve implantation assessed by multidetector computed tomography: Insights from the Optimized CathEter vAlvular iNtervention (OCEAN-TAVI) registry<sup>☆</sup>



Fumiaki Yashima <sup>a</sup>, Masanori Yamamoto <sup>b</sup>, Yusuke Watanabe <sup>c</sup>, Kensuke Takagi <sup>d</sup>, Yoshitake Yamada <sup>e</sup>, Taku Inohara <sup>a</sup>, Ryo Yanagisawa <sup>a</sup>, Makoto Tanaka <sup>a</sup>, Takahide Arai <sup>a</sup>, Hideyuki Shimizu <sup>f</sup>, Masahiro Jinzaki <sup>e</sup>, Ken Kozuma <sup>c</sup>, Keiichi Fukuda <sup>a</sup>, Takahiko Suzuki <sup>b</sup>, Kentaro Hayashida <sup>a\*</sup>

>10 research themes



# OCEAN-SHD meeting



# Keio experience: 281 cases

Sapien XT : 216  
Sapien 3 : 36

Lotus:17

CoreValve:12





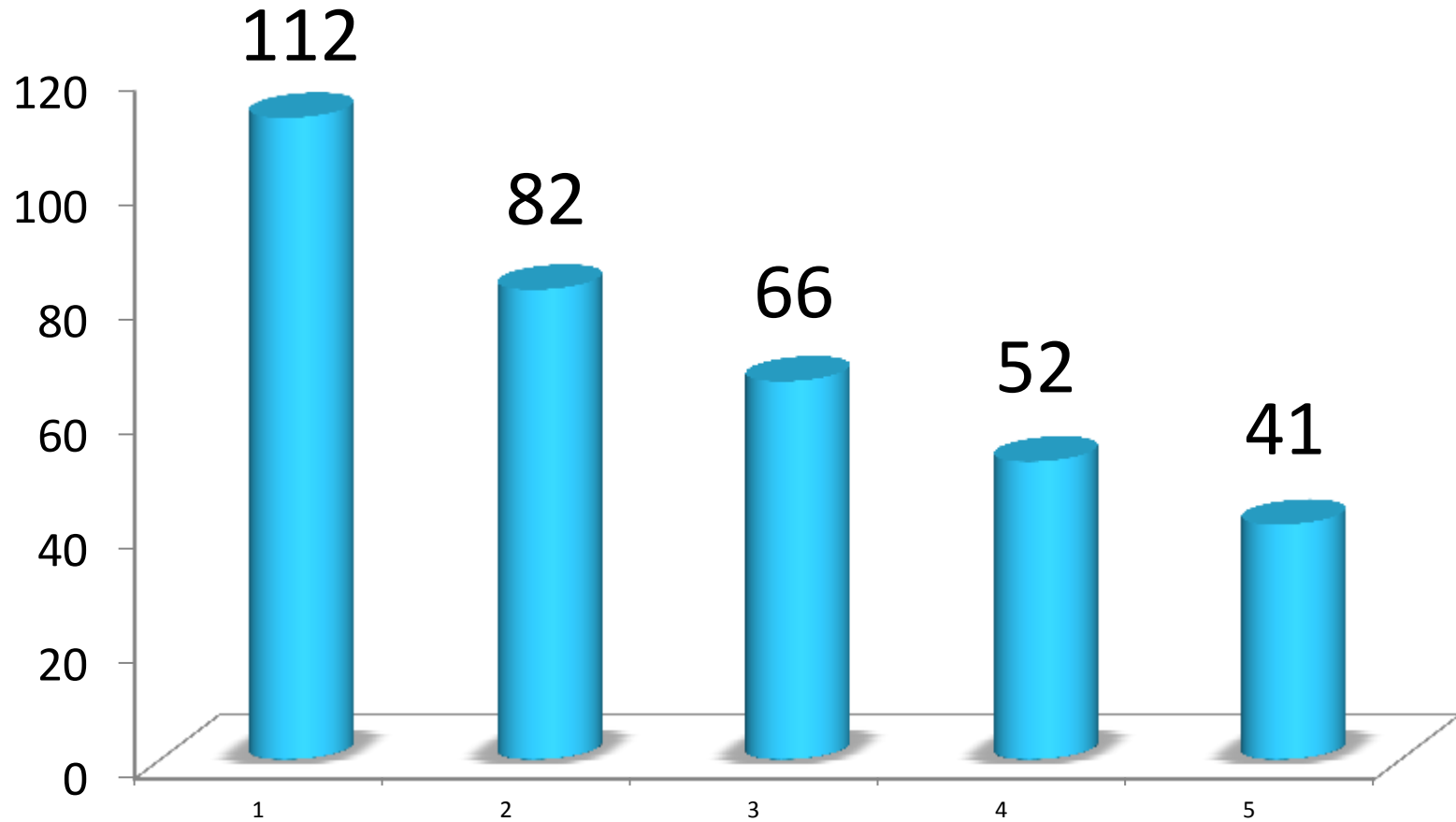
# Keio experience: 281 cases

<b>N = 281</b>	<b>Value</b>
<b>Procedure success</b>	<b>100%</b>
<b>Conversion to open chest surgery</b>	<b>0</b>
<b>Emergent PCPS support</b>	<b>0</b>
<b>2<sup>nd</sup> valve</b>	<b>0</b>

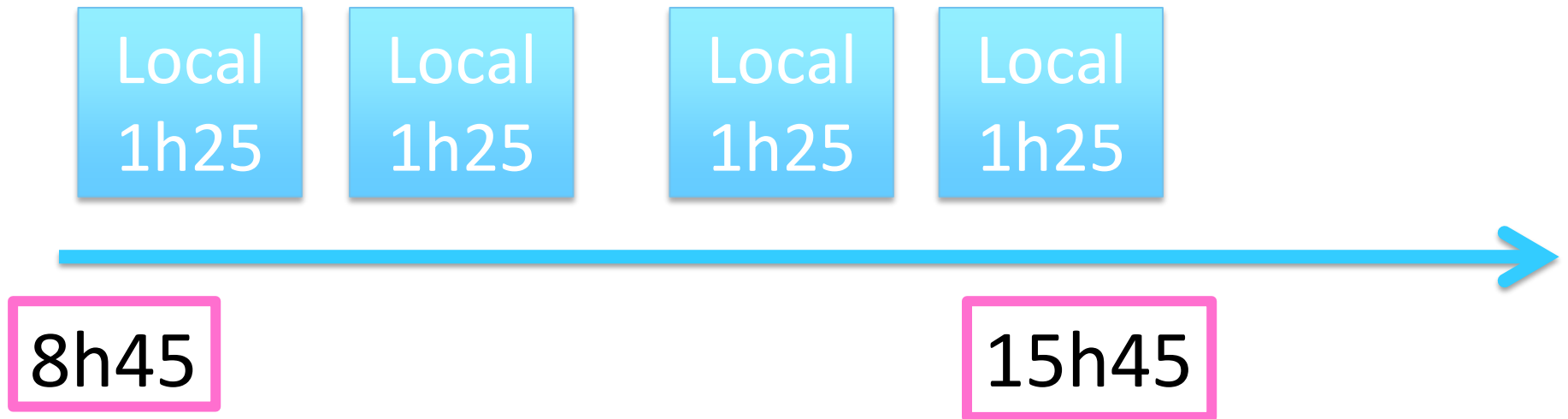
# Keio experience: 281 cases

N = 281	Value
<b>In-hospital mortality</b>	<b>4 (1.4%)</b>
Cerebral infarction, n (%)	3 (1.1%)
<b>Major vascular complications</b>	<b>17 (6.0%)</b>
New PM implantation, n (%)	16 (5.7%)
Coronary obstruction, n (%)	2 (0.7%)

# Procedure time (TF)



# Optimization of procedure



*4 case/day (26<sup>th</sup>, July, 2016)*

# Past, present and future



# PCR

■ tokyo valves

26<sup>th</sup>-27<sup>th</sup> March 2016 - Tokyo, Japan



**PCR**  
■ tokyo valves



*April 7-9<sup>th</sup>, 2017*



#PCRtokyo

