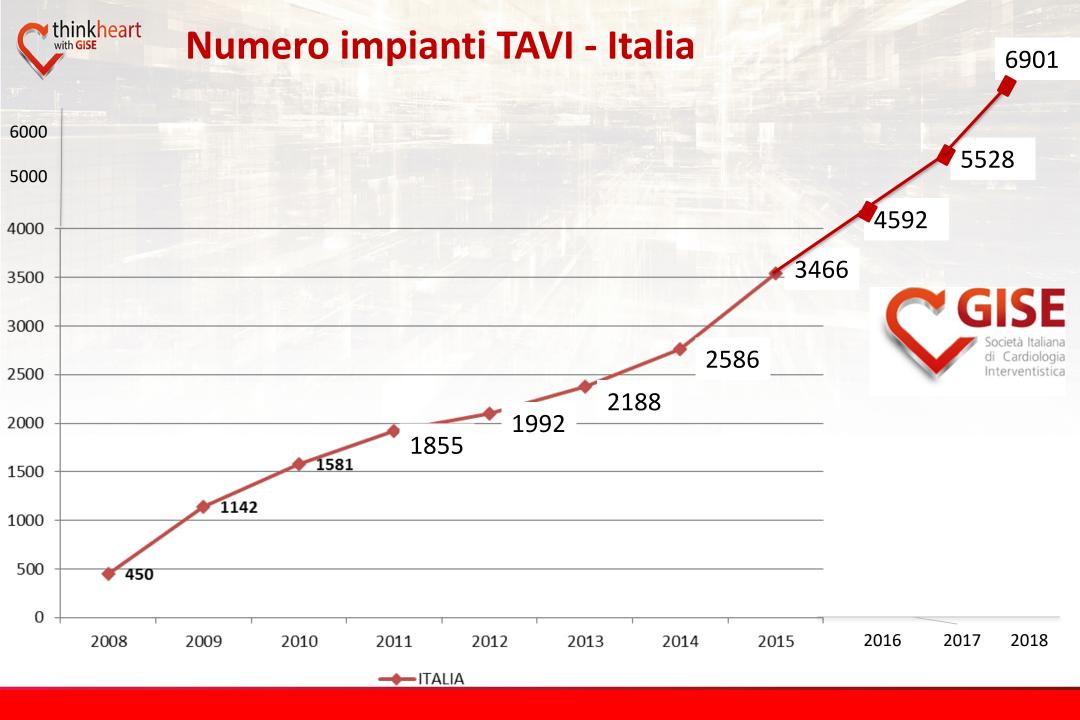


VENERDI' I MARZO

LE TAVI IN ITALIA: UNA CRESCITA DISOMOGENEA

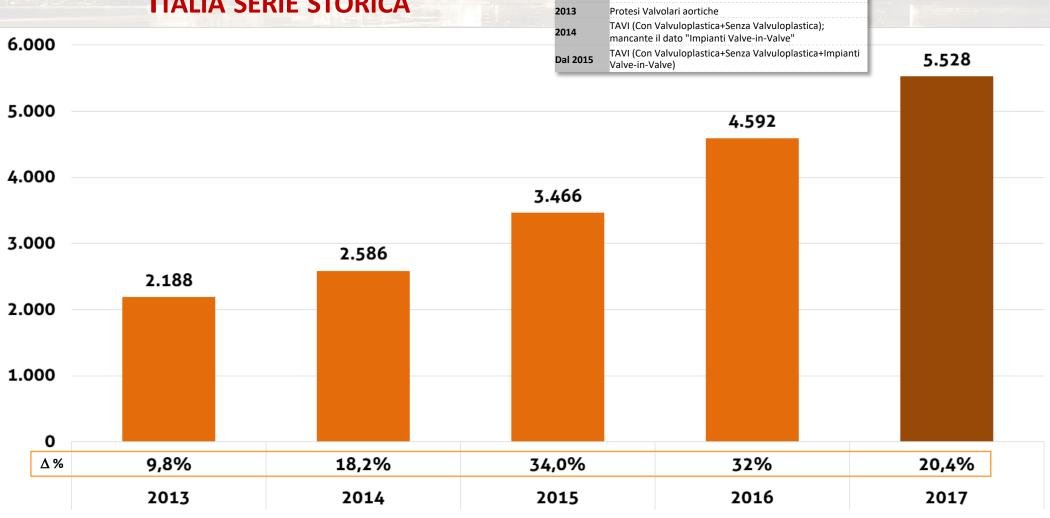
Giuseppe Musumeci

USC Cardiologia Ospedale S. Croce e Carle, Cuneo





TAVI ITALIA SERIE STORICA



EVOLUZIONE RACCOLTA DATI TAVI

Impianto Protesi Percutanee Aortiche

Protesi Valvolari aortiche

NEGLI ANNI

2011

2012

Pre-existing market (SAVR)

New market

lla IIb III



I lla lib lii



lla IIb III



Low Risk (Must Meet ALL Criteria in This Column) Intermediate Risk (Any 1 Criterion in This Column) High Risk (Any 1 Criterion in This Column) Prohibitive Risk (Any 1 Criterion in This Column)



ESC/EACTS GUIDELINES

2017 ESC/EACTS Guidelines for the

AVI BUTHELL WANDENING TO THE				
	Age <75 years			
management of valvular heart disease			Age ≥75 years Previous cardiac surgery	
The Task Force for the Management of Valvular Heart Diseathe European Society of Cardiology (ESC) and the European	Restricted mobility and conditions th affect the rehabilitation process after procedure			
, , , ,			Suspicion of endocarditis	
Association for Cardio-Thoracic Surgery (EACTS)			Anatomical and technical aspe	
			Favourable access for transfemoral T/	
			Unfavourable access (any) for TAVI	
			Sequelae of chest radiation	
B) Choice of intervention in symptomatic aortic stenosis			Porcelain aorta	
Aortic valve interventions should only be performed in centres with both departments of cardiology and cardiac surgery on site and with structured collaboration between the two, including a Heart Team (heart valve centres).	1	С	Presence of intact coronary bypass gr risk when sternotomy is performed	
			Expected patient-prosthesis mismato	
The choice for intervention must be based on careful individual evaluation of technical suitability and weighing of risks and benefits of each			Severe chest deformation or scoliosis	
modality (aspects to be considered are listed in Table 7). In addition, the local expertise and outcomes data for the given intervention must be taken into account.	'	С	Short distance between coronary ost aortic valve annulus	
SAVR is recommended in patients at low surgical risk (STS or EuroSCORE II < 4% or logistic EuroSCORE I < 10% ^d and no other risk factors not included in these scores, such as frailty, porcelain aorta, sequelae of chest radiation).	1	В	Size of aortic valve annulus out of ran TAVI	
			Aortic root morphology unfavourable	
TAVI is recommended in patients who are not suitable for SAVR as assessed by the Heart Team. 91,94	1	В	Valve morphology (bicuspid, degree	
In patients who are at increased surgical risk (STS or EuroSCORE II ≥ 4% or logistic EuroSCORE I ≥ 10% ^d or other risk factors not included			of calcification, calcification pattern) unfavourable for TAVI	
in these scores such as frailty, porcelain aorta, sequelae of chest radiation), the decision between SAVR and TAVI should be made by the	1.0	В	Presence of thrombi in aorta or LV	
Heart Team according to the individual patient characteristics (see <i>Table 7</i>), with TAVI being favoured in elderly patients suitable for transfemoral access. 91,94–102			Cardiac conditions in addition require consideration for con-	
			Severe CAD requiring revascularizati CABG	
			Severe primary mitral valve disease, v could be treated surgically	
			Severe tricuspid valve disease	

Clinical characteristics		
STS/EuroSCORE II <4% (logistic EuroSCORE II <10%) ^a		+
STS/EuroSCORE II ≥4% (logistic EuroSCORE II ≥10%)*	+	
Presence of severe comorbidity (not adequately reflected by scores)	+	
Age <75 years		+
Age ≥75 years	+	
Previous cardiac surgery	+	
Frailty ^b	+	
Restricted mobility and conditions that may affect the rehabilitation process after the procedure	+	
Suspicion of endocarditis		+
Anatomical and technical aspects		
Favourable access for transfemoral TAVI	+	
Unfavourable access (any) for TAVI		+
Sequelae of chest radiation	+	
Porcelain aorta	+	
Presence of intact coronary bypass grafts at risk when sternotomy is performed	+	
Expected patient-prosthesis mismatch	+	
Severe chest deformation or scoliosis	+	
Short distance between coronary ostia and cortic valve annulus		+
Size of aortic valve annulus out of range for TAVI		+
Aortic root morphology unfavourable for TAVI		+
Valve morphology (bicuspid, degree of calcification, calcification pattern) unfavourable for TAVI		+
Presence of thrombi in aorta or LV		+
Cardiac conditions in addition to aorti require consideration for concomitan		
Severe CAD requiring revascularization by CABG		+
Severe primary mitral valve disease, which		+

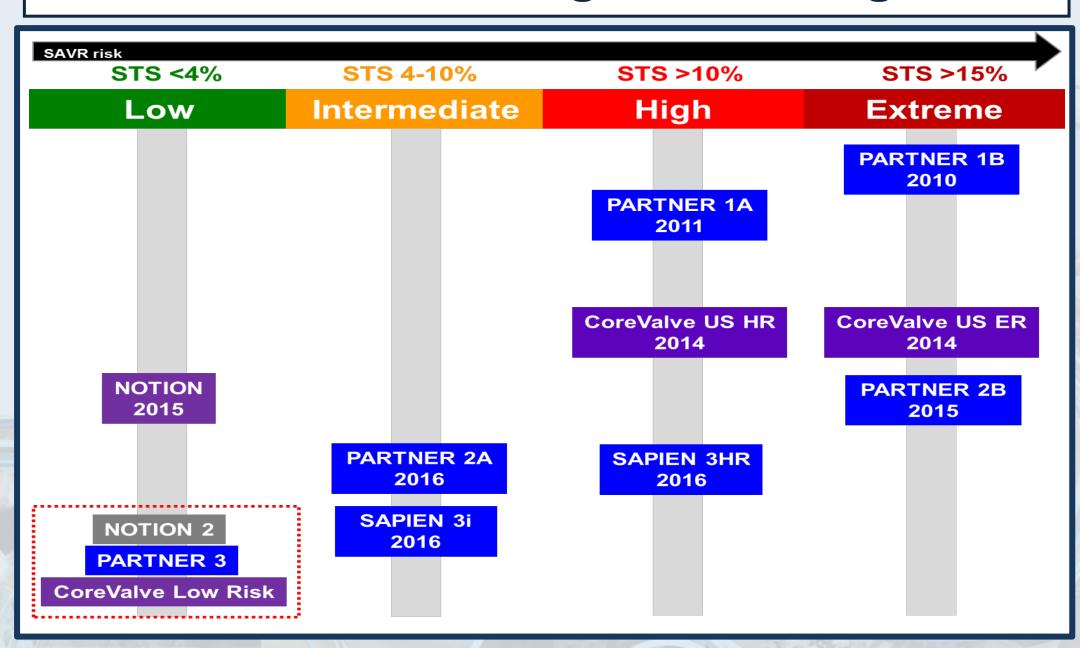
Aneurysm of the ascending aorta

Favours Favours

SAVR

TAVI

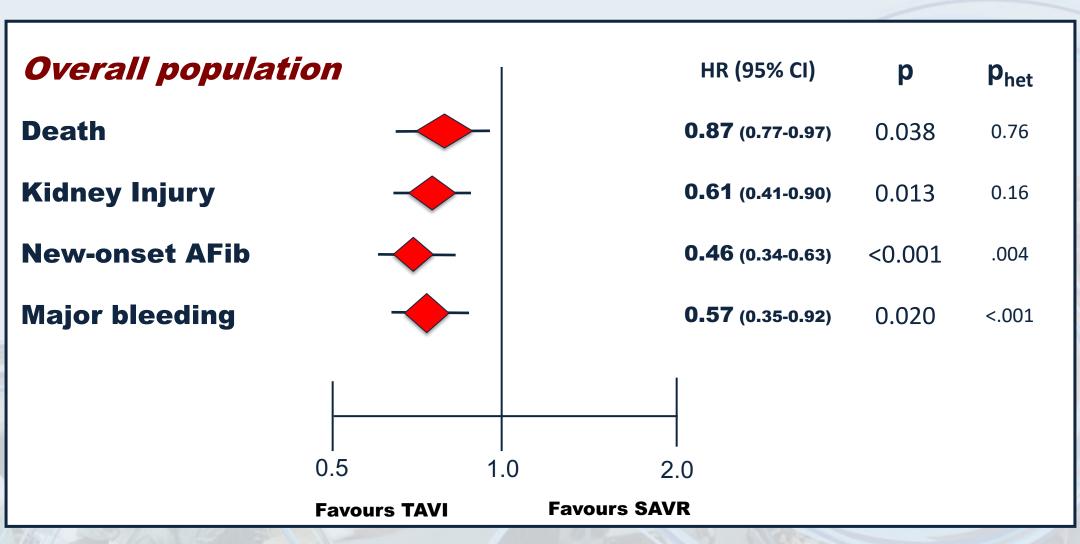
The TAVR Path through Risk Categories



TAVI vs SAVR: Meta-Analysis Of 4 Randomized Trials

	PARTNER 1	IA ¹⁻³	US CoreValv Risk ⁵⁻⁷	e High	NOTION ⁸		PARTNER 2	4°
	TAVI	SAVR	TAVI	SAVR	TAVI	SAVR	TAVI	SAVR
Number of centres		25	4	15		3	5	57
Recruitment period	200	7-09	201	1–12	200	9–13	201	1–13
Longest follow-up, year		5		3		2	:	2
Design	Non-ir	nferiority	Non-in	feriority	Supe	riority	Non-in	feriority
ITT patients, n	348	351	394	401	145	135	1011	1021
As-treated patients, n	344	313	391	359	142	134	994	944
STS, mean (SD)	11.8 ± 3.3	11.7 ± 3.5	7.3 ± 3.0	7.5 ± 3.2	2.9 ± 1.6	3.1 ± 1.7	5.8 ± 2.1	5.8 ± 1.9
Intervention's characteristic	cs							
TAVI valve system	Edwards SAPIEN	na	Medtronic CoreValve	na	Medtronic CoreValve	na	Edwards SAPIEN XT	na
Access site, n								
Transfemoral	244	na	394	na	145	na	775	na
Transthoracic	104	na	0	na	0	na	236	na

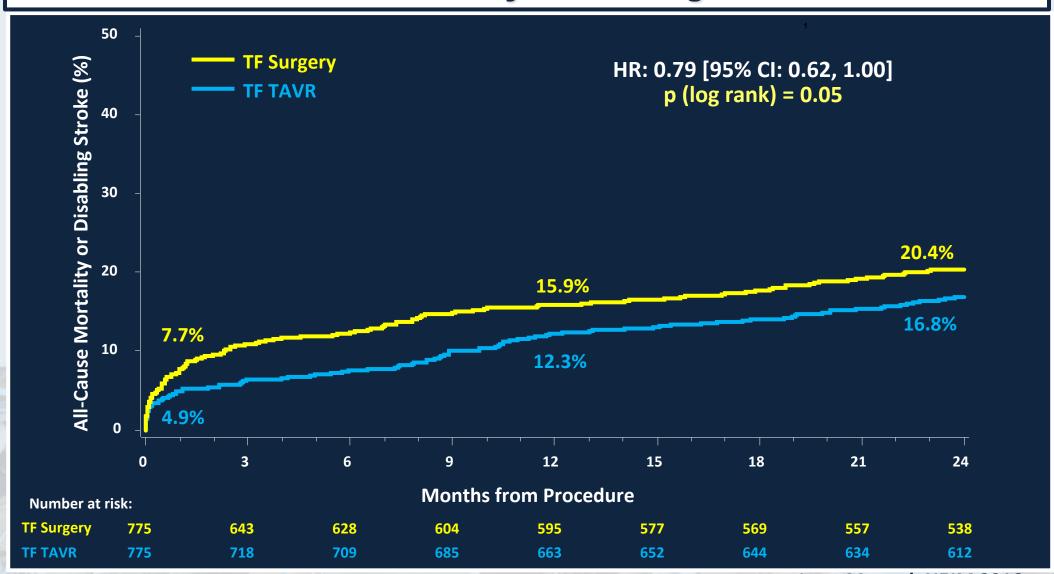
TAVI vs SAVR: Meta-Analysis Of 4 Randomized Trials



The PARTNER 2A Trial

I° EP (ITT) - TF

All-Cause Mortality or Disabling Stroke

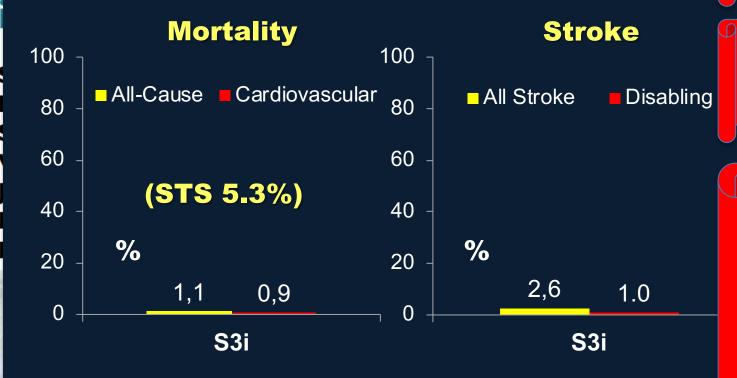


Large registry # 1



Early clinical and echocardiographic outcomes

Mortality and Stroke: S3i
At 30 Days (As Treated Patients)



Age - 82

STS - 5.3

stanosis

asilis Babaliaros²



Transcatheter aortic valve replacement versus surgical valve $\rightarrow \mathbb{Q}$ \mathbb{Q} replacement in intermediate-risk patients: a propensity



score analysis

Propensity "SCORE" 1-year results

STS - 5.3

Sapien 3 Intermediate Risk Registry **AGE 82**

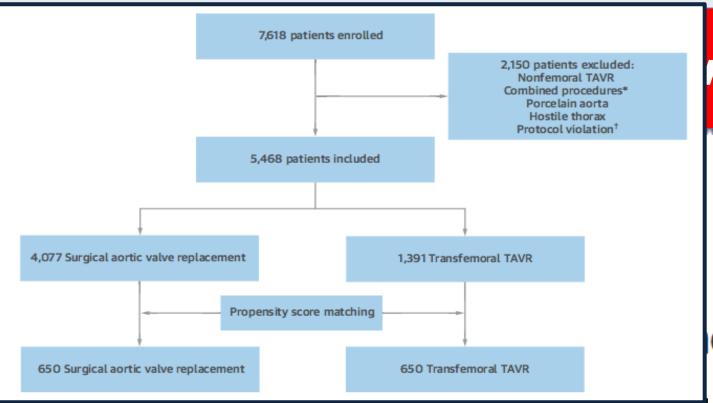
N = 1077

Surgical AVR arm Partner 2A trial



N = 944

	SAPIEN 3 TAVR	SAVR
Cardiac death	4.5%	8.1%
Any stroke	4.6%	8.2%



registry # 3

ttp://ax.aoi.org/10.1016/j.jacc.2015.06.013





ent

- ☐ Enrollment: Dec 2010-June 2012
- ☐ Country: Italy
- □ 93 hospitals: 34 cath lab, 59 Surgery
- ☐ THV: ES XT, CV
- ☐ Follow up: 3 years

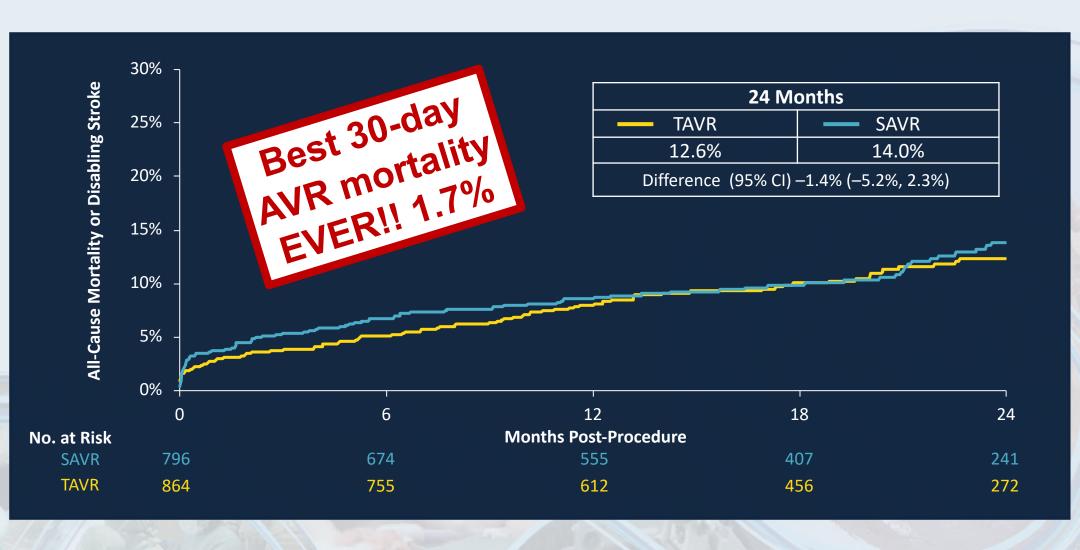
nucci, MD,§ Francesco Onorati, MD,∥ aro Santoro, MD,** CRVANT Research Group

Age 80 Log€score 9.5

EARLY CLINICAL OUTCOMES OF MATCHED OF PAIRS OF PATIENTS

	SAVR	TAVR
Stroke	2.2%	1.3%
Acute renal failure	10.9%	6.1%
Blood transf. unit	3.6±3.6	2.3±2.2
Major vascular complications	0.5%	7.9%
PM implantation	3.6%	15.5%

SURTAVI Trial All-Cause Mortality or Disabling Stroke

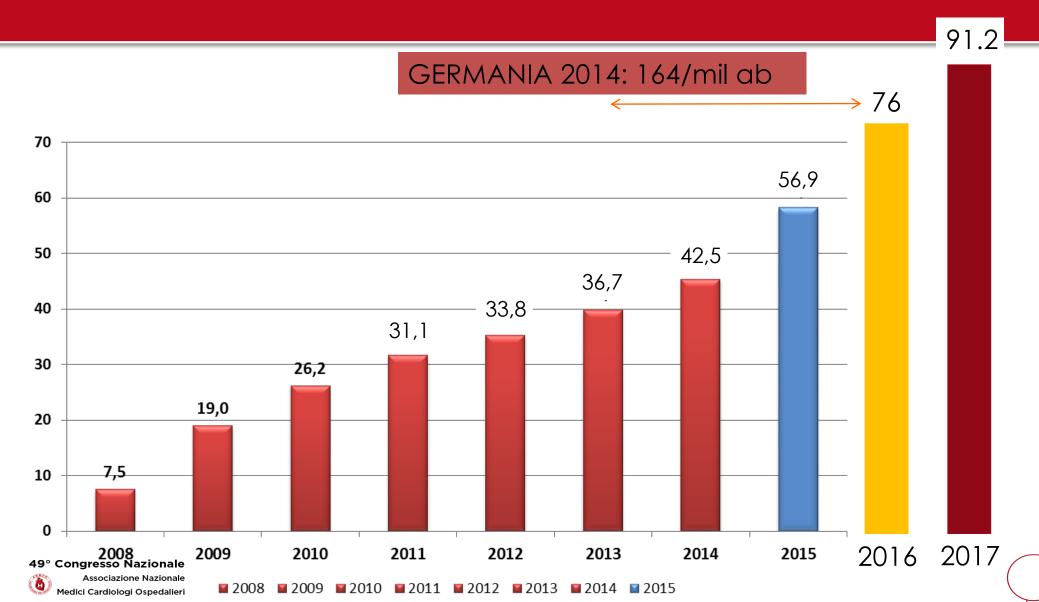


30-Day Safety and Procedure-related Complications

	SAVR	TAVR
Stroke	5.6 %	3.4%
Shock	3.8%	1.1%
Acute renal failure (stg 2-3)	4.4%	1.7%
> 2 U blood transfusions	29.8%	9.2%
Major vascular complications	1.1%	6.0%
PM implantation	6.6%	25.9%

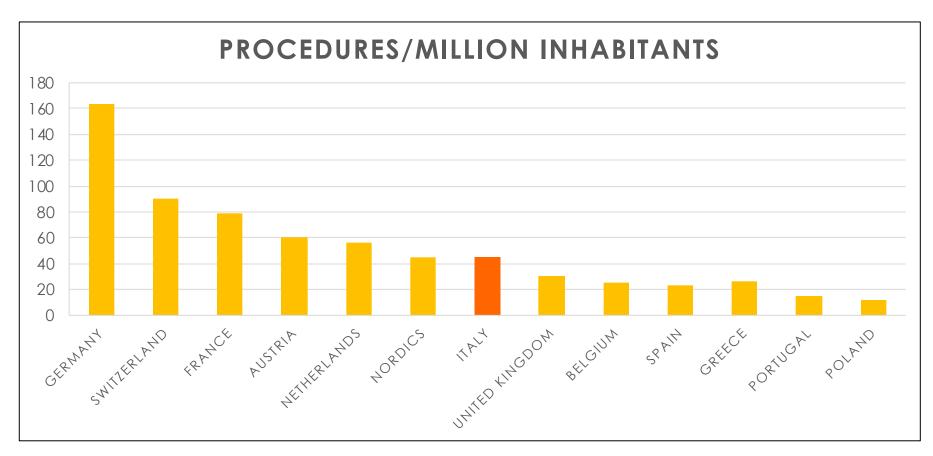


TAVI per milione di abitanti - Italia





Diffusione TAVI in Europa - Dati 2014



Fonte: European population: EUROSTAT database. TAVI 2014 procedures: Germany: AQUA report, France: PMSI, Poland: TAVI registry. TAVI 2014 procedures: Switzerland, Austria, Netherlands, Nordics, Italy, UK, Belgium, Spain, Greece, Portugal, Spain: BIBA medical (Independent third party data)





Associazione Nazionale Medici Cardiologi Ospedalieri





1.600

1.400

1.200

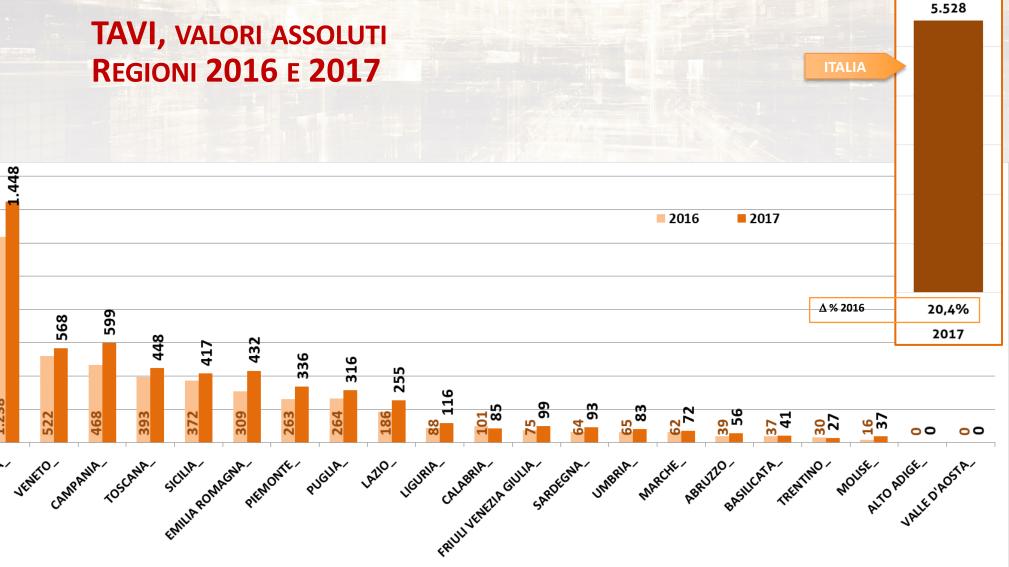
1.000

800

600

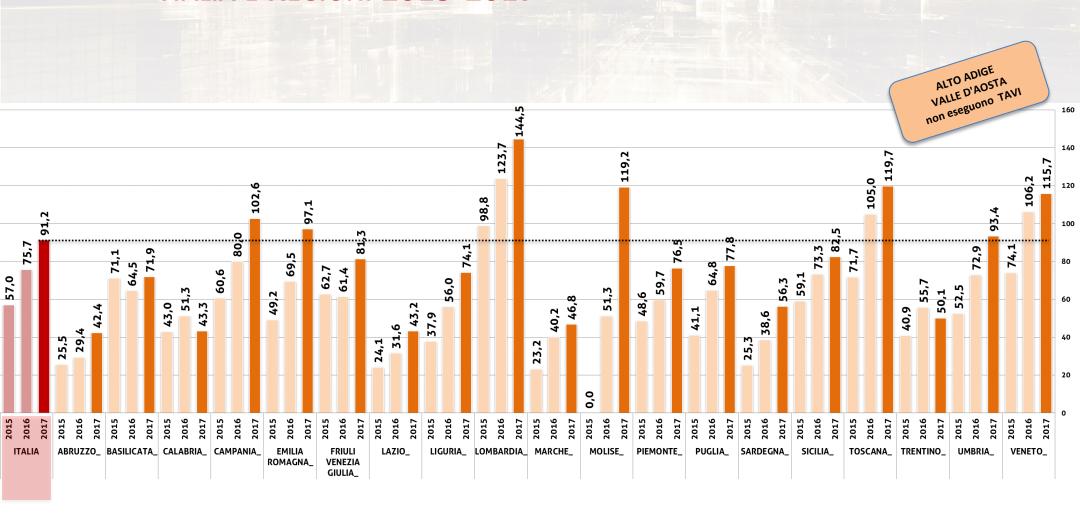
400

200





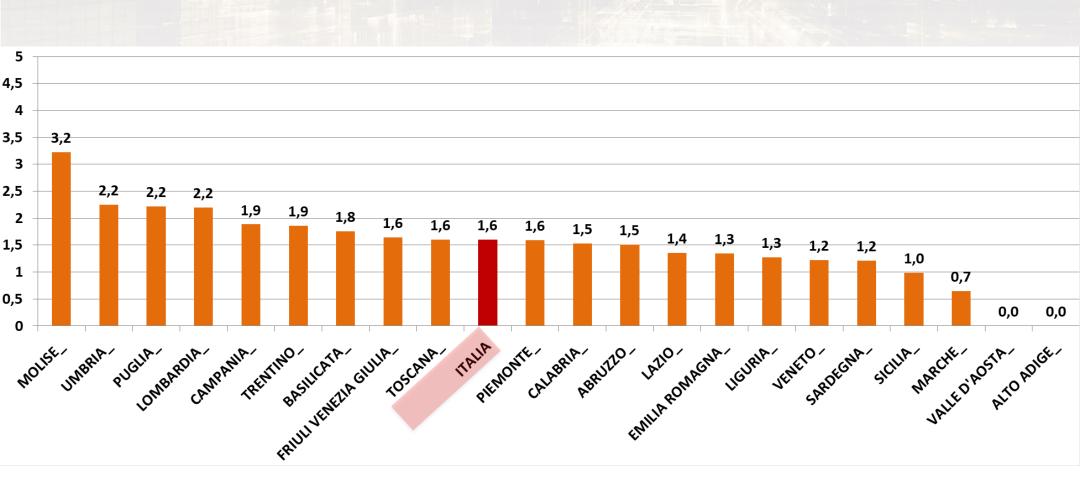
TAVI/1.000.000 ABITANTI ITALIA E REGIONI 2015-2017





LABORATORI TAVI/1.000.000 ABITANTI REGIONE ITALIA E REGIONI 2017

(LABORATORI A DISPOSIZIONE OGNI MILIONE DI ABITANTI REGIONE)

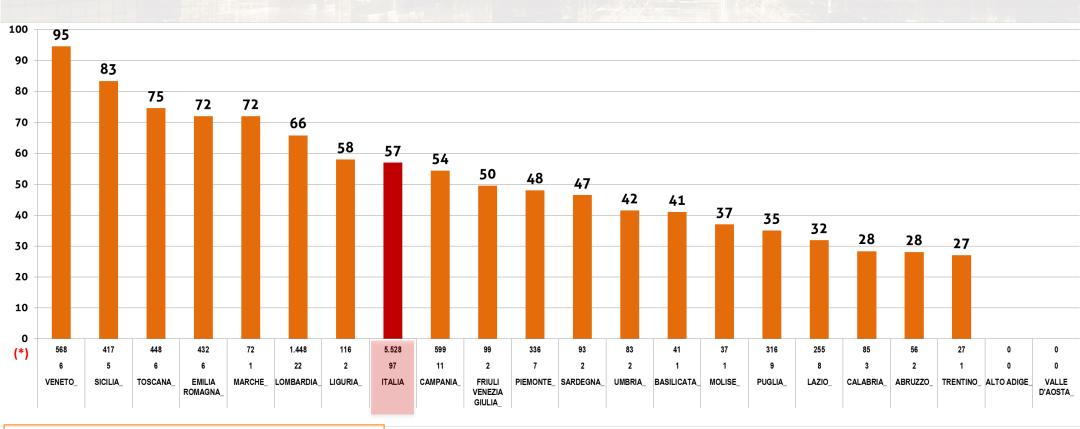




MEDIA NUMERO TAVI PER OGNI LABORATORIO

(TAVI/LABORATORI CHE ESEGUONO TAVI)

ITALIA E REGIONI 2017



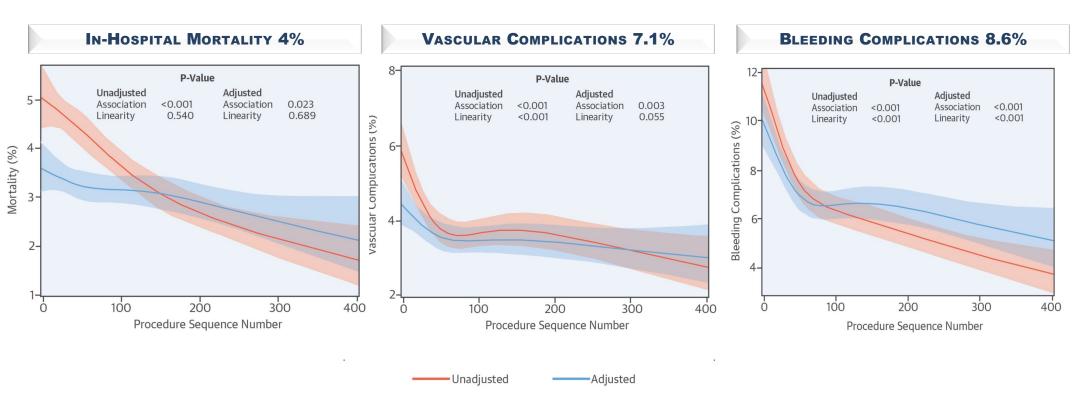
(*) NUMERO TAVI NUMERO LABORATORI CHE ESEGUONO TAVI



PROCEDURAL EXPERIENCE AND RELATION TO OUTCOMES

Carroll et al, J Am Coll Cardiol. 2017 Jul 4;70(1):29-41

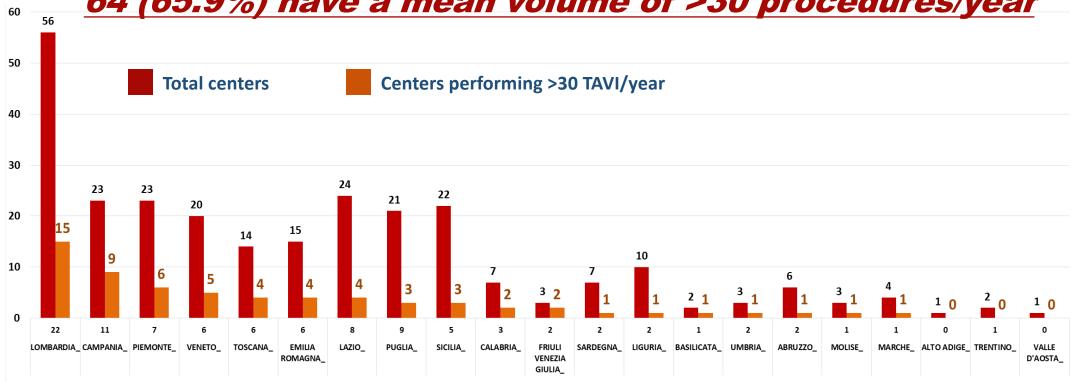
Data from 42,988 commercial procedures conducted at 395 hospitals submitting to the Transcatheter Valve Therapy Registry from 2011 through 2015





PROPORTION OF CENTERS PERFORMING TAVI BY REGION

Out of 97 centers performing TAVI in Italy, 64 (65.9%) have a mean volume of >30 procedures/year



SOURCE: GISE Think Heart 2018



NATIONAL SOCIETIES POSITION PAPERS

EXPERT CONSENSUS DOCUMENT

2012 ACCF/AATS/SCAI/STS Expert Consensus **Document on Transcatheter Aortic Valve Replacement**

Developed in collaboration with the American Heart Association, American Society of Echocardiography, European Association for Cardio-Thoracic Surgery, Heart Failure Society of America, Mended Hearts, Society of Cardiovascular Anesthesiologists, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance

Canadian Journal of Cardiology 28 (2012) 520-528

Society Position Statement

Transcatheter Aortic Valve Implantation: A Canadian Cardiovascular Society Position Statement

John Webb, MD, FRCPC, Josep Rodés-Cabau, MD, FRCPC, Stephen Fremes, MD, FRCSC, Philippe Pibarot, DVM, PhD, Marc Ruel, MD, FRCSC, Reda Ibrahim, MD, FRCPC, Reda Ibrahim, MD, FRCPC, Philippe Pibarot, DVM, PhD, Barc Ruel, MD, FRCSC, Reda Ibrahim, MD, FRCPC, Philippe Pibarot, DVM, PhD, Barc Ruel, MD, FRCSC, Reda Ibrahim, MD, FRCPC, Philippe Pibarot, DVM, PhD, Philippe Pibarot, DVM, PhD, Philippe Pibarot, Philippe Pi Robert Welsh, MD, FRCPC, Christopher Feindel, MD, FRCSC, and Samuel Lichtenstein, MD, FRCSCa

Oualitätskriterien zur Durchführung der kathetergestützten Aortenklappenimplantation (TAVI)

Aktualisierung des Positionspapiers der Deutschen Gesellschaft für Kardiologie

Dutch Guidelines For Competencies For Transcatheter Heart Valve Intervention



Rev Port Cardiol. 2013;32(10):801-805



Cardiologia Portuguese Journal of Cardiology

POSITION STATEMENT

Position statement on transcatheter aortic valve implantation in Portugal



Cardiologia

Rui Campante Teles a, Vasco Gama Ribeiro , Lino Patrício , José Pedro Neves , Luís Vouga®, José Fragataf, Manuel Almeidaa, Pedro Bragab, Duarte Cacelac, Miguel Abecasis^d, Pedro Canas da Silva^g, Hélder Pereira

COMPETENCE STATEMENT

Multisociety (AATS, ACCF, SCAI, and STS) **Expert Consensus Statement: Operator and Institutional Requirements for Transcatheter Valve Repair and Replacement, Part 1: Transcatheter Aortic Valve Replacement**

POSITION PAPER

Documento di posizione della Società Italiana di Cardiologia Invasiva (SICI-GISE) sui requisiti minimi per ospedali ed operatori che eseguono procedure di impianto transcatetere di protesi valvolare aortica in pazienti con stenosi valvolare severa sintomatica

Gennaro Santoro¹, Francesco Bedogni², Vittorio Ambrosini³, Sergio Berti⁴, Anna Sonia Petronio⁵, Angelo Ramondo⁶, Alessandro Salvi⁷, Giovanni Sorropago³, Gian Paolo Ussia⁸, Alberto Cremonesi⁹ Transcatheter aortic valve implantation. Expert Consensus of the Association of Cardiovascular Interventions of the Polish Cardiac Society and the Polish Society of Cardio-Thoracic Surgeons, approved by the Board of the Polish Cardiac Society and National Consultants in Cardiology and Cardiac Surgery

Heart, Lung and Circulation (2015) 24, 219-223 1443-9506/04/\$36.00 http://dx.doi.org/10.1016/j.hlc.2014.09.009

POSITION STATEMENT

Position Statement for the Operator and Institutional Requirements for a **Transcatheter Aortic Valve Implantation** (TAVI) Program

Darren L. Walters a*, Mark Webster b, Sanjeevan Pasupati c, Antony Walton d, David Muller e, Jim Stewart b, Michael Williams f, Andrew MacIsaac^g, Greg Scalia a,h, Michael Wilson i, Adam El Gamel c, Andrew Clarke J, Jayme Bennetts k, Paul Bannon

"Department of Cardiology, Prince Charles Hospital, Queensland 4032, Australia "Green Lane Cardiovascular Service, Auckland City Hospital, Auckland, New Zealand Waikato Hospital, Hamilton, New Zealand "Victorian Cardiovascular Services Epworth Hospital, Victoria 3121, Australia "SV Homerts Hospital, New South Wakes 2010, Australia Dunedin Hospital, Dunedin, New Zealand Dunctin Hospital, Dunctin, New Zealand

84 Vincent's Hospital, Victoria 306, Australia

*Ident Care Partners, Queensland, Australia

Cardiothonics Signeyr, PRJH Medical Centra and The Heart Care Centre, Sydney, New South Wales, Australia

Departners of Cardiothonics Surgery, Prince Charles Hospital, Queensland 4032, Australia

*Pfilinders Medical Centre, South Australias 302d, Australia

*Pfilinders Medical Centre, South Australias 302d, Australia



THE SICI-GISE POSITION PAPER

POSITION PAPER

Documento di posizione della Società Italiana di Cardiologia Invasiva (SICI-GISE) sui requisiti minimi per ospedali ed operatori che eseguono procedure di impianto transcatetere di protesi valvolare aortica in pazienti con stenosi valvolare severa sintomatica

Gennaro Santoro¹, Francesco Bedogni², Vittorio Ambrosini³, Sergio Berti⁴, Anna Sonia Petronio⁵, Angelo Ramondo⁶, Alessandro Salvi⁷, Giovanni Sorropago³, Gian Paolo Ussia⁸, Alberto Cremonesi⁹

¹Azienda Ospedaliero-Universitaria Careggi, Firenze

²Istituto Clinico S. Ambrogio, Milano

³Clinica Montevergine, Mercogliano (AV)

⁴Ospedale "G. Pasquinucci", Fondazione "G. Monasterio", Massa

⁵Azienda Ospedaliero-Universitaria Pisana, Pisa

⁶Ospedale San Bassiano, Bassano del Grappa (VI)

⁷Azienda Ospedaliero-Universitaria, Ospedali Riuniti, Trieste

⁸Policlinico Ferrarotto, Catania

⁹Sansavini Foundation, Cotignola (RA)

At present, transcatheter aortic valve implantation (TAVI) is a proven treatment option for patients with symptomatic degenerative aortic stenosis at high risk for conventional surgery. In countries where TAVI is currently performed, the number of procedures and centers involved has been continuously increasing. The present document from the Italian Society of Interventional Cardiology (SICI-GISE) aims to improve the available evidence and current consensus on this topic through the definition of training needs and knowledge base for both operators and centers.

Key words. Operators; Training programs; Transcatheter aortic valve implantation.

2011 Position Paper Objectives

- Define structural and organizational requirements of TAVI center
- Establish training programs for proctors and operators

G Ital Cardiol 2011;13(11):772-776



THE SICI-GISE POSITION PAPER

POSITION PAPER

Update del documento di posizione della Società Italiana di Cardiologia Interventistica (SICI-GISE) sui requisiti minimi per ospedali ed operatori che eseguono procedure di impianto transcatetere di protesi valvolare aortica

Giuseppe Tarantini¹, Giovanni Esposito², Giuseppe Musumeci³, Chiara Fraccaro¹, Anna Franzone², Battistina Castiglioni⁴, Alessio La Manna⁵, Ugo Limbruno⁶, Alfredo Marchese⁷, Ciro Mauro⁸, Stefano Rigattieri⁹, Fabio Tarantino¹⁰, Caterina Gandolfo¹¹, Gennaro Santoro¹², Roberto Violini¹³, Flavio Airoldi¹⁴, Remo Albiero¹⁵, Manrico Balbi¹⁶, Giorgio Baralis³, Antonio Luca Bartorelli¹⁷, Francesco Bedogni¹⁸, Alberto Benassi¹⁹, Andrea Berni²⁰, Giulio Bonzani²¹, Alessandro Santo Bortone²², Giuseppe Braito²³, Carlo Briquori²⁴, Elvis Brscic²⁵, Paolo Calabrò²⁶, Ivan Calchera²⁷, Maurizio Cappelli Bigazzi²¹, Francesco Caprioglio²⁸, Fausto Castriota²⁹, Carlo Cernetti³⁰, Cinzia Cicala³¹, Paolo Cioffi³², Antonio Colombo³³, Virgilio Colombo³⁴, Gaetano Contegiacomo³⁵, Alberto Cremonesi³⁶, Maurizio D'Amico³⁷, Mauro De Benedictis³⁸, Alessandro De Leo³⁰, Maurizio Di Biasi³⁹, Domenico Di Girolamo²⁶, Emilio Di Lorenzo⁴⁰, Carlo Di Mario¹², Marcello Dominici⁴¹, Federica Ettori⁴², Maurizio Ferrario⁴³, Massimo Fioranelli⁴⁴, Dionigi Fischetti⁴⁵, Gabriele Gabrielli⁴⁶, Arturo Giordano⁴⁷, Pietro Giudice⁴⁸, Cesare Greco⁴⁹, Ciro Indolfi⁵⁰, Ornella Leonzi⁵¹, Corrado Lettieri⁵², Bruno Loi⁵³, Nicola Maddestra⁵⁴, Niccolò Marchionni¹², Cinzia Marrozzini⁵⁵, Massimo Medda⁵⁶, Bindo Missiroli⁵⁷, Luigi My⁵⁸, Jacopo Andrea Oreglia⁵⁹, Cataldo Palmieri⁶⁰, Paolo Pantaleo⁶¹, Saro Roberto Paparoni⁶², Guido Parodi⁶³, Anna Sonia Petronio⁶⁴, Luigi Piatti⁶⁵, Emanuela Piccaluga⁵⁹, Carlo Pierli⁶⁶, Andrea Perkan⁶⁷, Antonino Piti⁶⁸, Arnaldo Poli⁶⁹, Angelo Bruno Ramondo⁷⁰, Maurizio Alessandro Reale⁷¹, Bernhard Reimers⁷², Flavio Luciano Ribichini⁷³, Roberta Rosso⁷³, Salvatore Saccà⁷⁴, Cosimo Sacra⁷⁵, Andrea Santarelli⁷⁶, Gennaro Sardella⁴⁹, Gaetano Satullo⁷⁷, Filippo Scalise78, Massimo Siviglia79, Leonardo Spedicato80, Amerigo Stabile81, Corrado Tamburino5, Tullio Nicola Maria Tesorio⁸², Salvatore Tolaro⁸³, Fabrizio Tomai⁸⁴, Carlo Trani⁸⁵, Renato Valenti¹², Orazio Valsecchi⁸⁶, Giuseppe Valva⁸⁷, Ferdinando Varbella⁸⁸, Carlo Vigna⁸⁹, Luigi Vignali⁹⁰, Sergio Berti⁶⁰

New Position Paper Objectives

- Re-define structural and organizational requirements of TAVI center
- Re- Establish training programs for proctors and operators - <u>revised</u>
- Periprocedural set-up

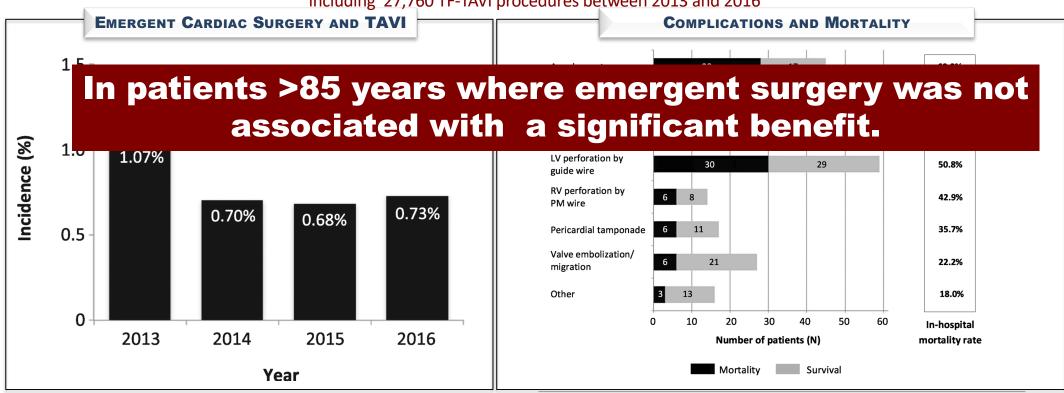




INSTITUTIONAL REQUIREMENTS- ESSENTIALS

1. CENTRES WITH BOTH DEPARTMENTS OF CARDIOLOGY AND CARDIAC SURGERY ON SITE

<u>European Registry on Emergent Cardiac Surgery during TAVI</u> (EuRECS-TAVI) including 27,760 TF-TAVI procedures between 2013 and 2016





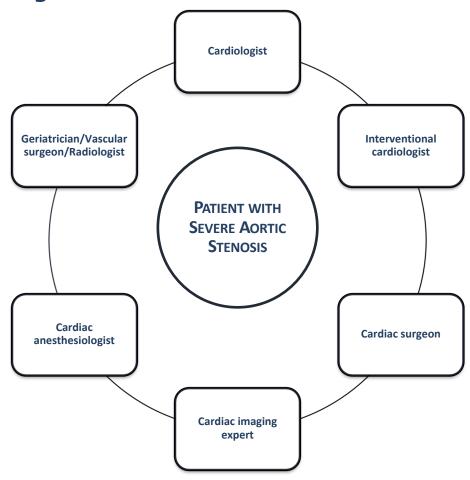
INSTITUTIONAL REQUIREMENTS- FACILITIES

- 1. Minimum activity level of 3 (preferably 5)/monthTAVI/month
- 2. On site cardiac surgery performing SAVR
 - Annual mortality rate <6%
- 3. At least 2 Cath-lab laboratories (or one cath lab and one hybrid room)
 - 1000 coronary angiographies/year
 - o 400 PCI/year
- 4. Post-procedure intensive care facility
- 5. Electrophysiology laboratory
- 6. Anesthesia unit with cardiac anesthesiologists
- 7. Vascular surgery
- 8. Cardiology unit with telemetry
- 9. Radiologic imaging: cardiac CT capabilities
- 10.Staffing specialities: neurology, nephrology, geriatry and/or internal medicine
- 11.Participation in national registries collecting data on all patients undergoing TAVI



INSTITUTIONAL REQUIREMENTS- ESSENTIALS

2. Multidisciplinary Heart Team





CATHETERIZATION LAB OR HYBRID ROOM

- 1. Surgical instruments
- 2. Wires, catheters, and balloons for valvuloplasty and prosthesis implantation
- 3. Temporary pacemaker with pacing ability
- 4. Instruments for emergency pericardiocentesis
- 5. Material for endovascular procedures: aortic occlusion balloon catheters, wires and balloon for peripheral arteries, covered stents, long sheats of at least 20 F
- 6. Retrieval instruments (snare) of different sizes
- 7. Wires, catheters and balloons for percutaneous coronary procedures



INSTITUTIONAL REQUIREMENTS - TEAM LEADER

FIRST operator = TEAM LEADER

TRANSFEMORAL AND
TRANSSUBCLAVIAN TAVI



Skills: Perform valve implantation Manage complications with a transcatheter approach

TRANSAPICAL AND TRANSAORTIC TAVI



Skills: Perform valve implantation Manage complications requiring surgical intervention



OPERATORS REQUIREMENTS

- 1. To be TF/TS first operator, since at least 5 years, for coronary angiography, PCI, cardiac catheterization, temporary pacemaker implantation
- 2. To perform more than 75 procedures/year (in a center with a total number of more than 400 PCI/year)
- 3. To perform diagnostic and interventional procedures through radial and femoral access and to use retrieval systems
- 4. To have performed as first operator:

Aortic valvuloplasty

Pericardiocentesis (elective or urgent)

Angiography and percutaneous interventions on peripheral vessels



"OLD-FASHION" WORK-UP SAS

PRE-PROCEDURAL PHASE



Referring Physician *Detection of AS*

Referring Cardiologist: ECHO

Confirmation of AS, severity, clinical/psychocosial status, comorbidities
Which possible therapeutic option?
Discussion with patient and relatives

CARDIAC SURGEON (refusal)

Multidisciplinary cardiac and non cardiac evaluation



HEART TEAM



TAVR

MED TX



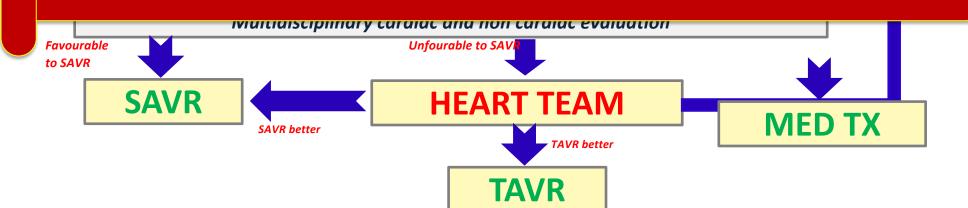
"UPDATED" WORK-UP SAS

PRE-PROCEDURAL PHASE

Referring Physician

Detection of AS

Objectivate and standardize Final decision pro/cons TAVI





CHECK LIST FOR THE CHOICE OF TAVI OR SAVR

CLINICAL CHARACTERISTICS





	18	
	Favours TAVI	Favours SAVR
STS/EuroSCORE II<4%		+
STS/EuroSCORE II≥4%	+	
Severe comorbidity	+	
Age < 75 years		+
Age ≥ 75 years	+	
Previous cardiac surgery	+	
Frailty	+	
Restricted mobility and conditions that may affect the rehabilitation process	+	
Suspicion of endocarditis		+

ANATOMIC CHARACTERISTICS





	II.	
	Favours TAVI	Favours SAVR
Favourable for TF access	+	
Sequelae of chest radiation	+	
Porcelain aorta	+	
Intact bypass at risk in case of sternotomy	+	
Expected patient- prosthesis mismatch	+	
Severe chest deformation	+	
Short distance between coronary ostia and aortic annulus	+	
Annulus out of range for TAVI		+
Aortic root unfavourable for TAVI		+
Thrombi in aorta or LV		+
Valve morphology (bicuspid, calcification)		+

OTHER CARDIAC CONDITIONS





	Favours TAVI	Favours SAVR
Severe CAD requiring CABG		+
Severe primary mitral disease which could be treated surgically		+
Severe tricuspid valve disease		+
Aneurysm of the ascending aorta		+
Septal hypertrophy requiring myectomy		+



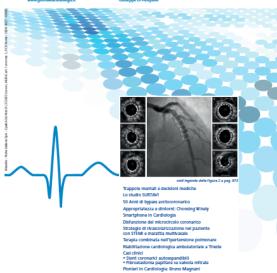
Prospettive future

- INTERMEDIATE RISK POPULATION C.ca 10.000 TAVI/anno = 166 TAVI/milione ab.
- Garantire numeri minimi (100 laboratori TAVI, 10.000 procedure/anno = 100 TAVI/anno)
- Accordi interaziendali trasversali per la strutturale
- Rimodulazione CCH, spostamento budget
- Incremento procedure = riduzione costi
- Ruolo aziende di device



Volume 18 I Numero 12 I Dicembre 2

Editor



TI Pensiero Scientifico Editore

PROCESSO AI GRANDI TRIAL

Lo studio SURTAVI

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Chiaramente sono state

eseguite in centri con cardiochirurgia on-site attraverso una indispensabile collaborazione e confronto con il cardiochirurgo e il cardioanestesista nell'ambito dell'Heart Team. La procedura TAVI però rende ancora più centrale rispetto al passato la figura del cardiologo che in questo momento è in grado di eseguire diagnosi della patologia, stratificare la prognosi, indicare il tipo e il momento del trattamento e adesso eseguire in prima persona il trattamento stesso per via transcatetere.