

TAVI in Israel 2012



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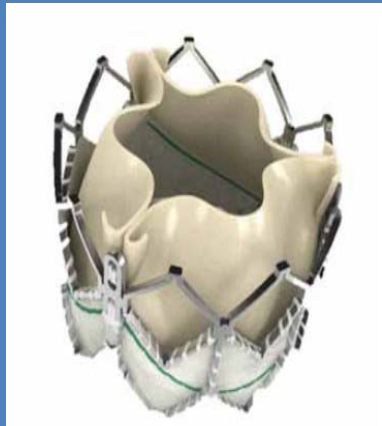
On behalf of the I-TAVI, Israel ongoing TAVI registry



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Background

- Trans-catheter aortic valve implantation (TAVI) is an emerging novel technology for the treatment of high-risk AS patients.
- Two commercially available valve systems:



TAVI in Israel: timeline

- **First cases:**
 - August 2008 – Edwards (Shaare Tzedek)
 - September 2008 – CoreValve (Hadassah, Sheba)
- **January 2010: full reimbursement for TAVI .**
- **2011: Establishment of I-TAVI, Israel TAVI ongoing registry.**



10 Centers:

- Carmel, Haifa
- Rambam, Haifa
- Rabin, Petach-Tikva
- Tel-Aviv MC, Tel-Aviv
- Sheba, Ramat-Gan
- Wolfson, Holon
- Kaplan, Rehovot
- Shaare Tzedek, Jerusalem
- Hadassah, Jerusalem
- Soroka, Beer Sheba



Israel I-TAVI registry

The screenshot displays the National I-PAVI Registry web application. The browser window title is "National I-PAVI Registry - Windows Internet Explorer" and the address bar shows "http://i-pavi.e-med.co.il/". The page header includes the logo of the Israel Heart Society and the text "THE ISRAEL WORKING GROUP ON INTERVENTIONAL CARDIOLOGY". A navigation menu contains "Patient", "Documents", "Help Desk", "Administration", and "Logout". A user greeting "Hello, ADMIN ADMIN" is visible.

The main content area is titled "Base line" and shows "Patient Details" for a female patient. The details include: First initials name: w, Last initials name: s, Hospital: Hadassah, Number at site#: 14, Valve Brand: Corevalve, and Gender: Female.

The "Baseline characteristics" section is expanded, showing a list of medical and demographic data:

Baseline characteristics	Value
Euroscore:	40 (%)
STS score:	12
Coronary disease:	<input type="radio"/> Yes <input checked="" type="radio"/> No
S/A thoracotomy:	<input checked="" type="radio"/> Yes <input type="radio"/> No
PHT:	<input checked="" type="radio"/> Yes <input type="radio"/> No
PA sys pressure:	76 (mmHg)
Pulmonary:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Porcelain aorta:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Pacemaker:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Diabetes:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Other illnesses:	<input type="checkbox"/> Hepatic <input checked="" type="checkbox"/> Malignancy <input type="checkbox"/> Other neurologic <input type="checkbox"/> Parkinson <input checked="" type="checkbox"/> PVD <input type="checkbox"/> S/A CVA
Hemoglobin:	12.4 (g/dl)
Thrombocytes:	323 (n x 1000)
Creatinine:	1.8 (mg%)

The Windows taskbar at the bottom shows the Start button, several open applications (Inbox, Microsoft Excel, Microsoft PowerPoint, National I-PAVI Regis...), and the system tray with the date and time (23:18).



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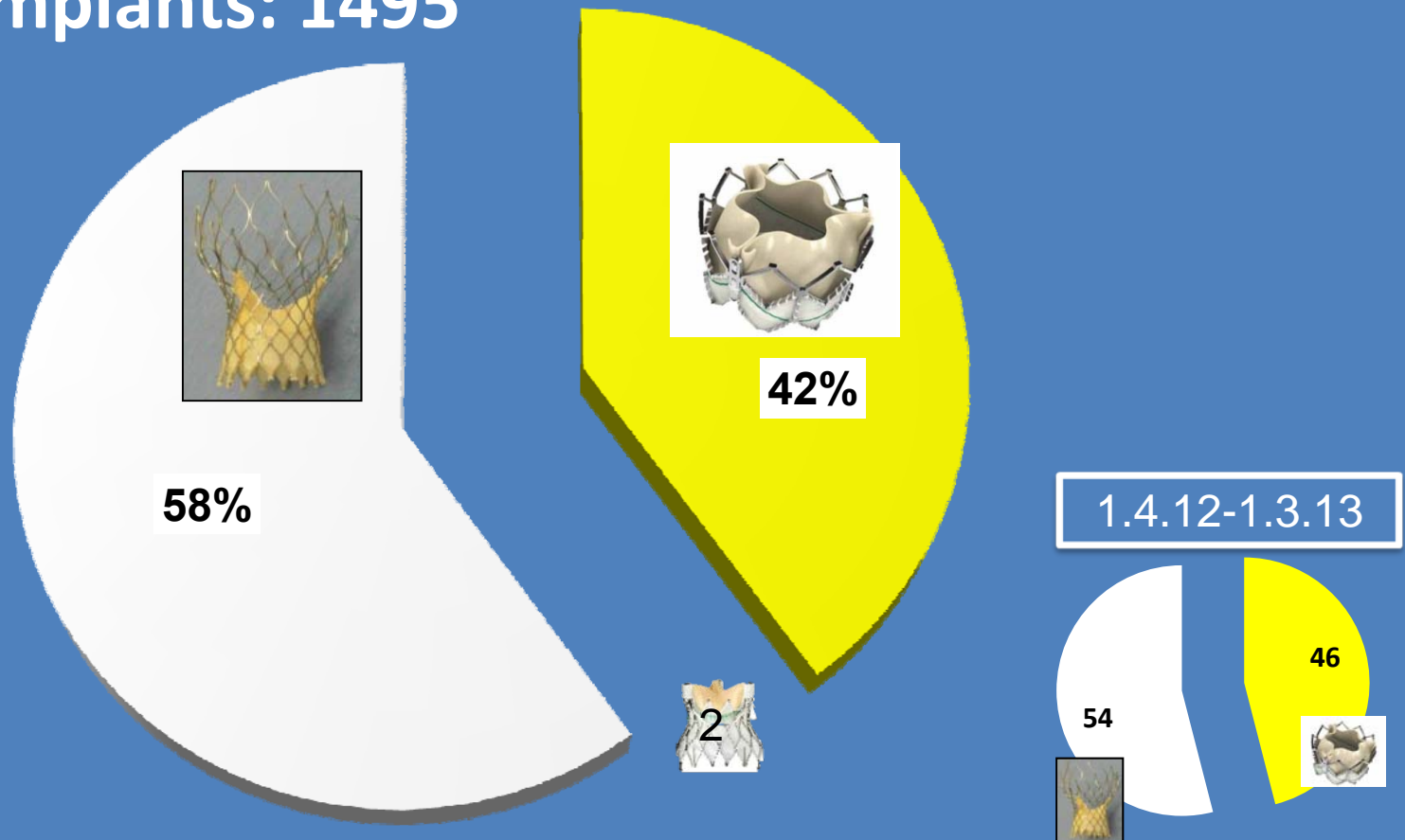
Collection of data

- All centers: Partial data (valve type, approach, mortality)
- 5 centers (700 patients): full clinical and procedural data.
- Cross check total numbers with both companies.

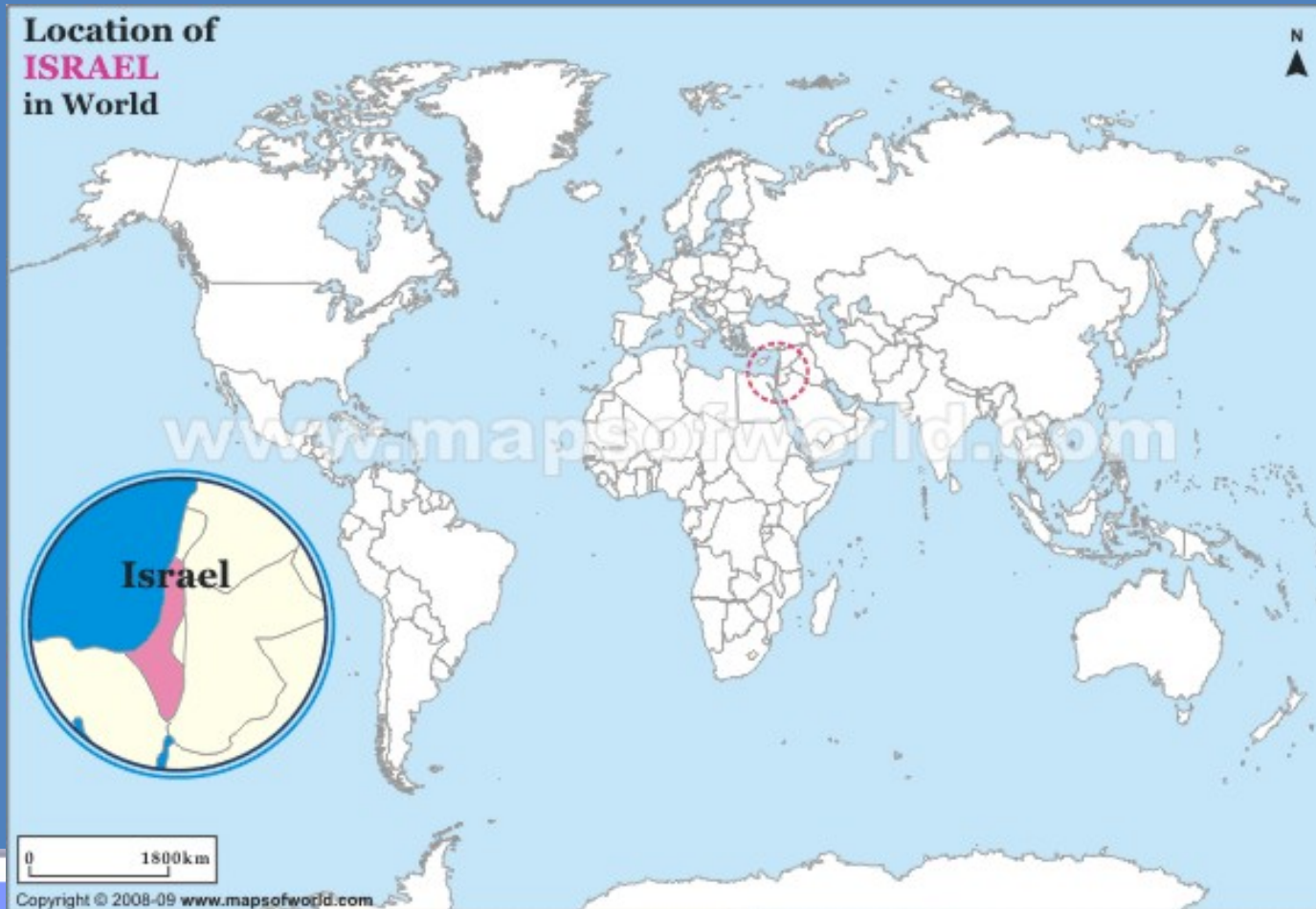


TAVI in Israel 1.3.2013

- Total implants: 1495

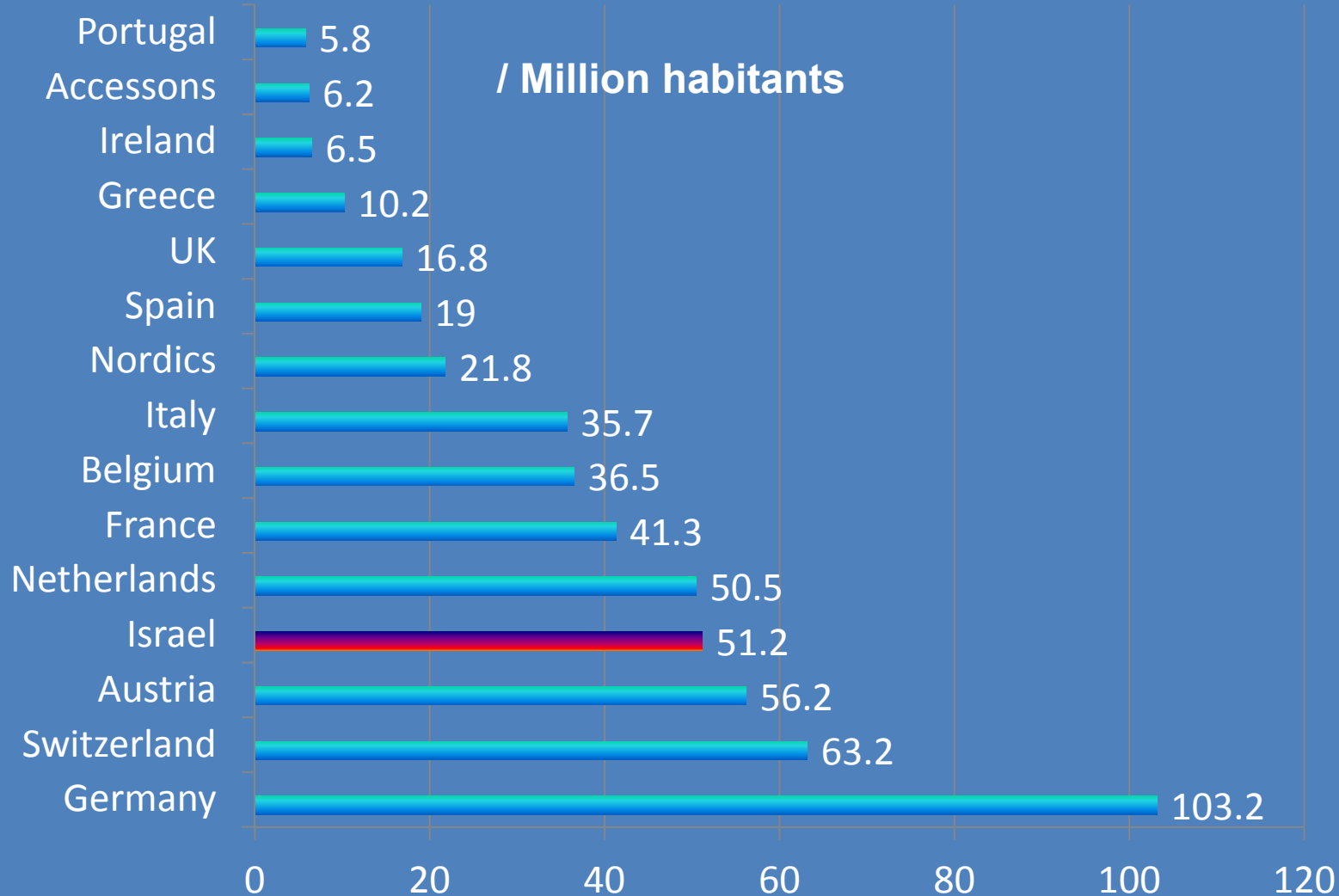


הגודל לא קובע..



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TAVI cases in EU (2011)



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Patient Characteristics

Mean +/- SD

Age (years)	82± 6
Logistic EuroSCORE (%)	23.3±15
Female	57.3%
BMI	30 (16.4-50)
NYHA	I-II: 5% III-IV: 95%
DM	30%
Hb (g/dl)	11.8±3.9
Creatinine (μmol/L)	1.18±0.67



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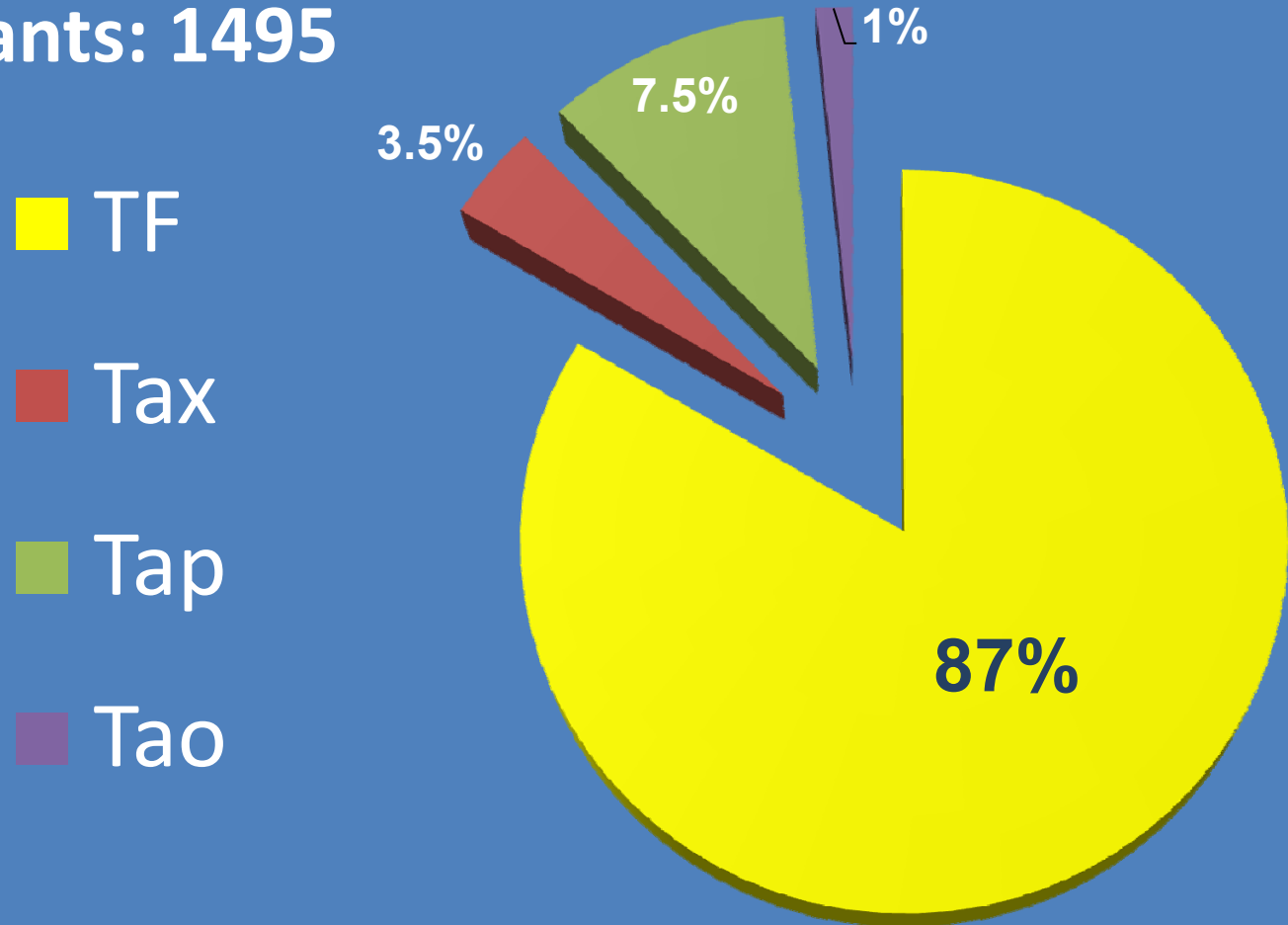
Baseline Characteristics

AV area (cm ²), hemod	0.66±0.17
AV grad, max (mmHg)	76±23
AV grad, mean (mmHg)	48±16
LVEF (%)	54±10
Annulus (mm)	22.2±2.1
MR (severe, %)	8



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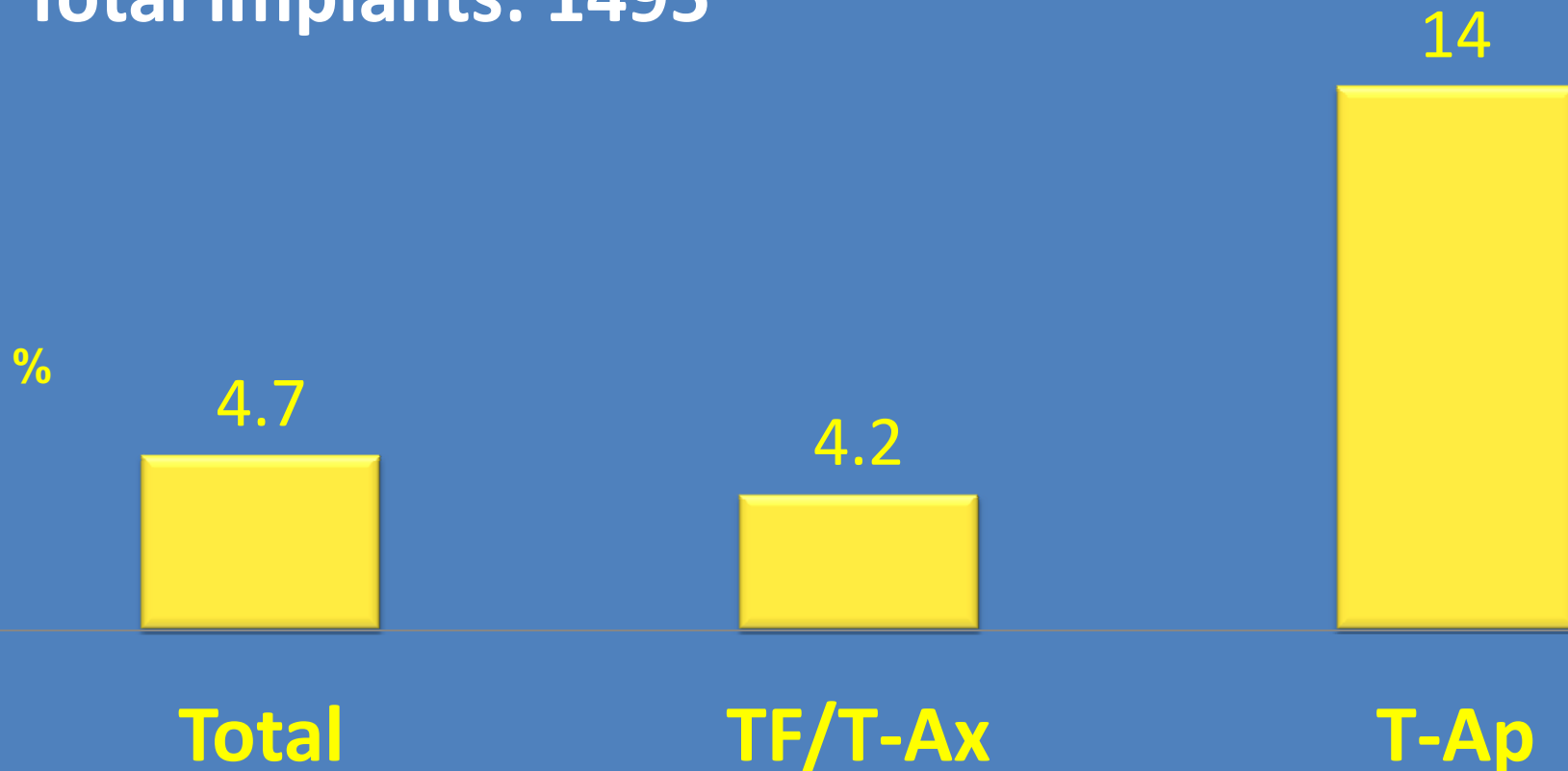
Procedural Parameters

	%
Procedural success	99
Local Anesthesia	56
TEE	40
Local Anesth (1.1.12-)	76
2 nd valve needed	3

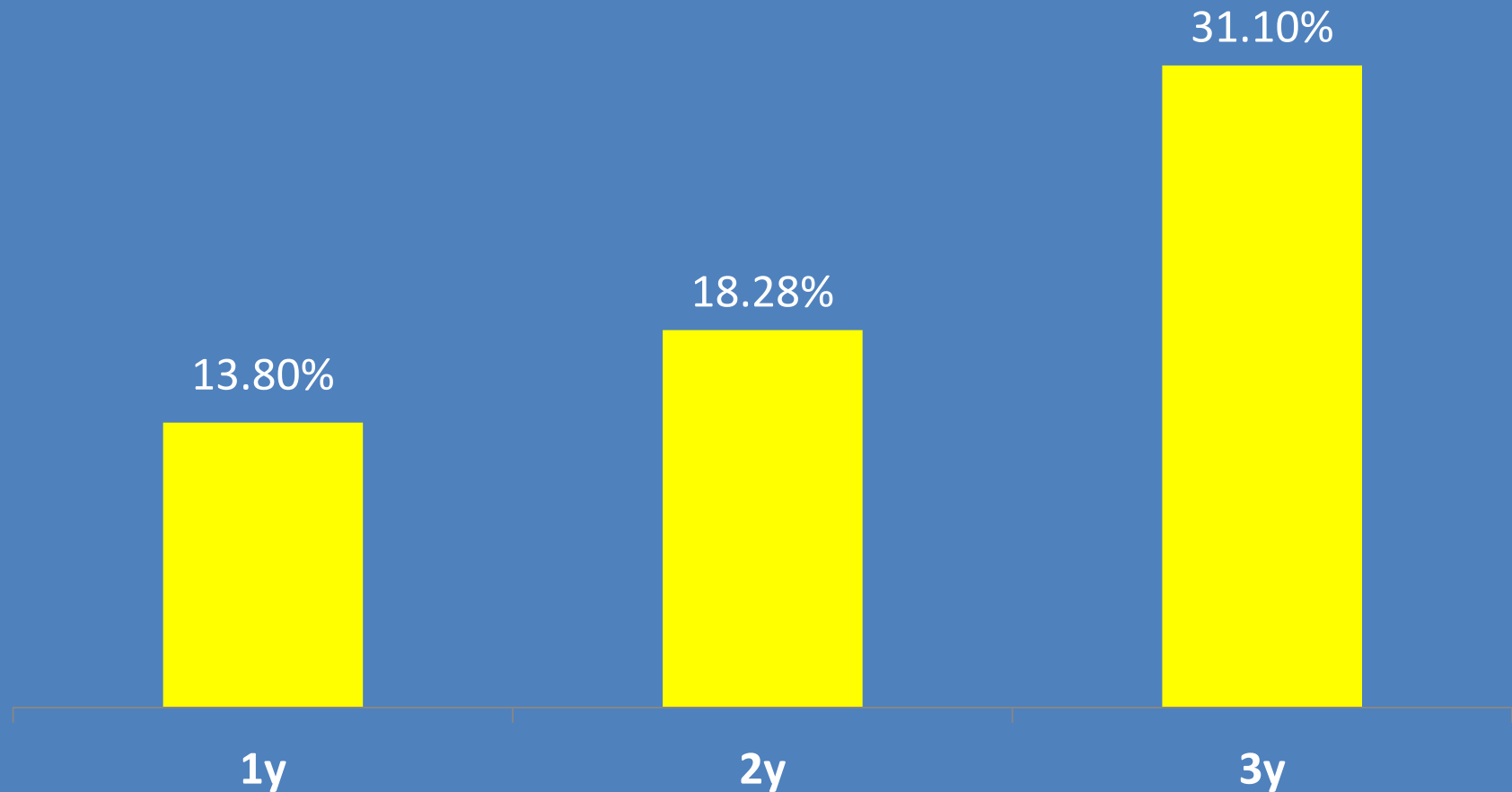


Mortality – 30d.

- Total implants: 1495



Mortality – long term



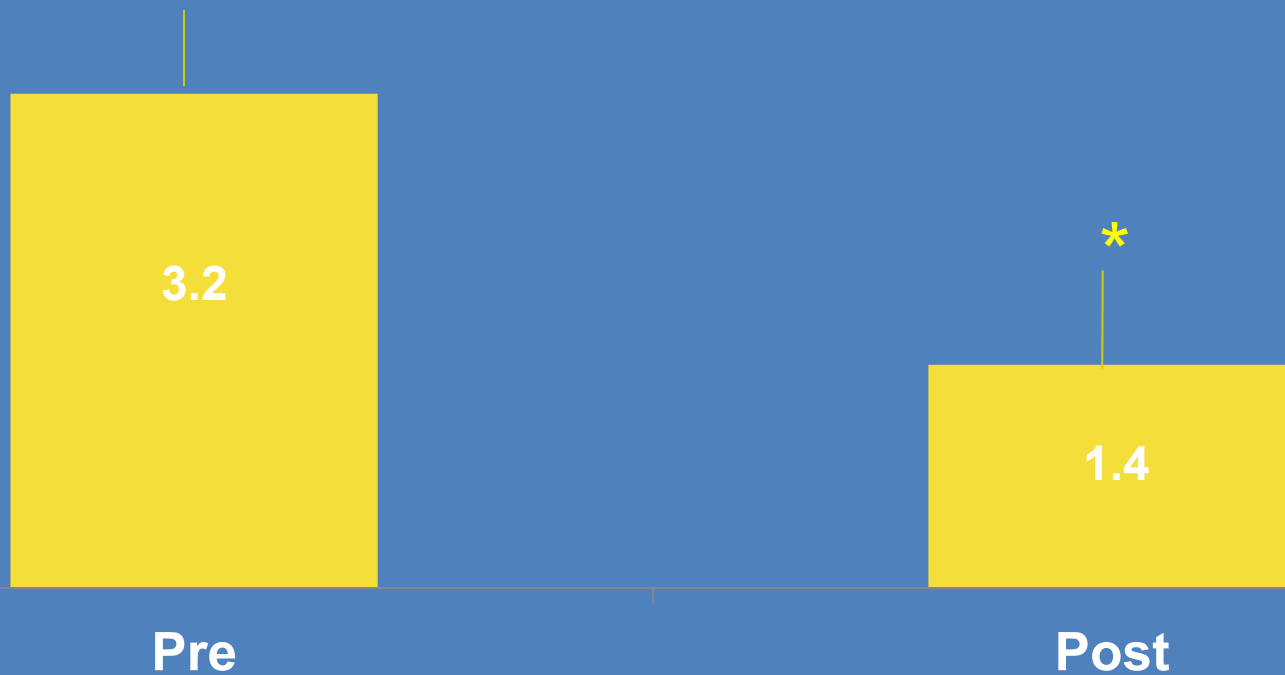
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Adverse Events

Death	4.7%
Aortic Dissection	0
Cardiac Tamponade	2%
Access Site Complication	11.2%
Blood transfusion	18%
Myocardial Infarction	0
AR 2/≥3	5%/1.6%
Pacemaker	21% (29%MDT /6%ES)
Renal Failure	1%
Major Stroke	2.2%
Discharge day (median)	6
>10 d	15%



Change in NYHA FC



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TAVI in Israel – Conclusions:

- Transcatheter Aortic Valve Implantation is rapidly expanding in Israel.
- The procedure is safe and effective with favorable results in this complex group of high-risk patients.
- Further expansion of the procedure and its indications and improvement of its results and outcome is awaited.



TAVI: partnership



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Thanks



- ...N. Khader, R. Jaffe, A. Elami, A. Kerner, A. Rogouin, G. Bollotin, R. Kornowski, A. Assali, C. Vaknin-Assa, A. Finkelstein, S. Bazan, Y. Ben-Gal, V. Guetta, A. Segev, E. Raanani, V. Turkisher, Y. Almagor, J. Balkin, S. Silberman, C. Lotan, D. Planer, A. Korach, K. George, O. Ayzenberg, G. Gendelman, C. Cafri, A. Abu-Ful, M. Merkin...

