



Hellenic PCI Registry

Organization - Structure -

Directions - Initial Recordings

<http://registry.hellenicpci.gr/>

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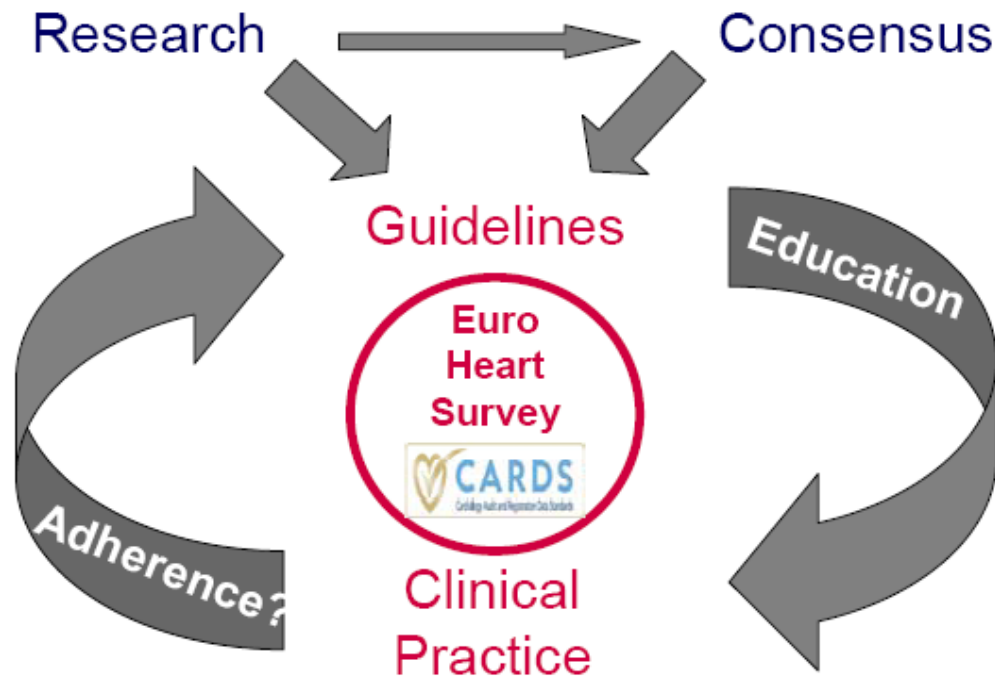
Aim of the Hellenic PCI Registry (2008-2010)

- Common link with ESC (ESC PCI Registry) and EAPCI
- Recording of Centers/Operators/ Interventional Coronary Procedures with regional and national analyses
- Recording of basic indications, demographic, procedural and outcomes data of patients undergoing PCI
- National database for educational and professional requirements (in accordance to ESC/ACC)
- Quality and Outcomes Research

Registries & Clinical Practice



Prospective Registries / Surveys - Quality Cycle -



Hellenic Heart Registry on PCI

- Initial attempt in 1998 – paper based
- Current decision of the WG of HSC for a f/u attempt
- Analyses at a national level & submission of data to the ESC
- **Web-based** database with **secure data entry** by **individual users** (user ID/password)
- Central analyses of data by the WG of HSC
- Each center may use the database for their own data analyses upon request

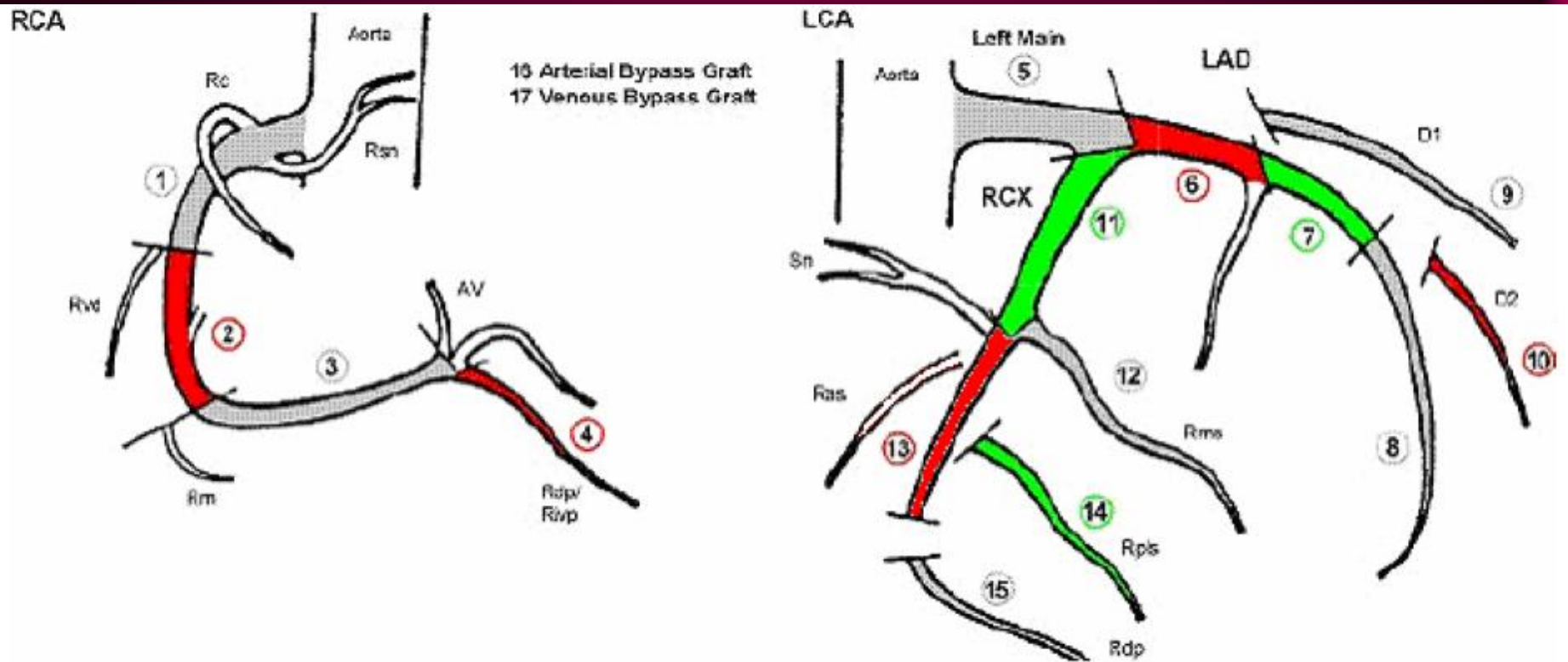
Timetable of the PCI Registry

- 5/2006: WG decision
- 7/2006: Funding for the initial phase
- 9/2006: Collaboration with Philip Lees (Webmaster)
- 12/2006: Early design of database
- 3/2007: Testing version in a separate domain (**Phase I**)
- 7/2007: **Phase II – Pilot cases entry** (>300 patients, 9 centers)
- 2/2008: **Phase III – Official start of Registry** retrospectively from 1/1/2008 with a 3-5 year plan (>2500 patients entered so far)
- 2/2010: **2 year completion** – Decision about further continuation with existing participation - Data analysis

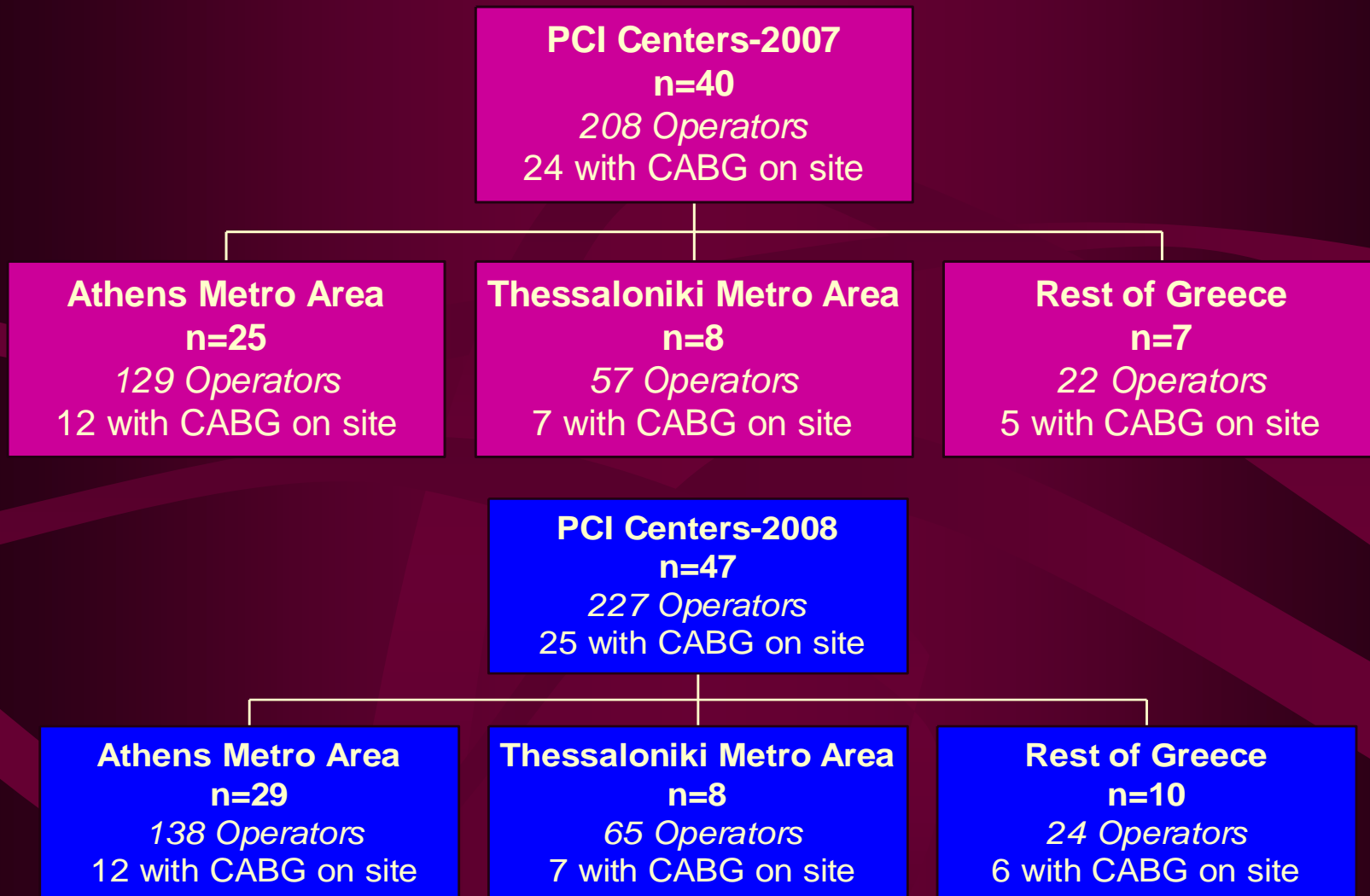
Tables (8)

- Patient (Automatic entry ID-Demographics-Patient initials)
- Workup (History-Risk factors-Indication-Times-Admission Medications)
- PCI Angiogram (Angiographic findings based on the **15-segment model of ESC**)
- PCI Procedure (Periprocedural medications-Additional diagnostic or therapeutic devices-Complications)
- PCI Lesions (Lesion characteristics-PCI device-Result)
- Outcome (In-hospital outcome)
- Follow up (1 year/3 years/5 years)
- Submit (Automatic initial validation)

ESC 15 Segment Model



Centers/Operators/CABG on site: 2007 & 2008



New PCI Centers: 2008 & 2009

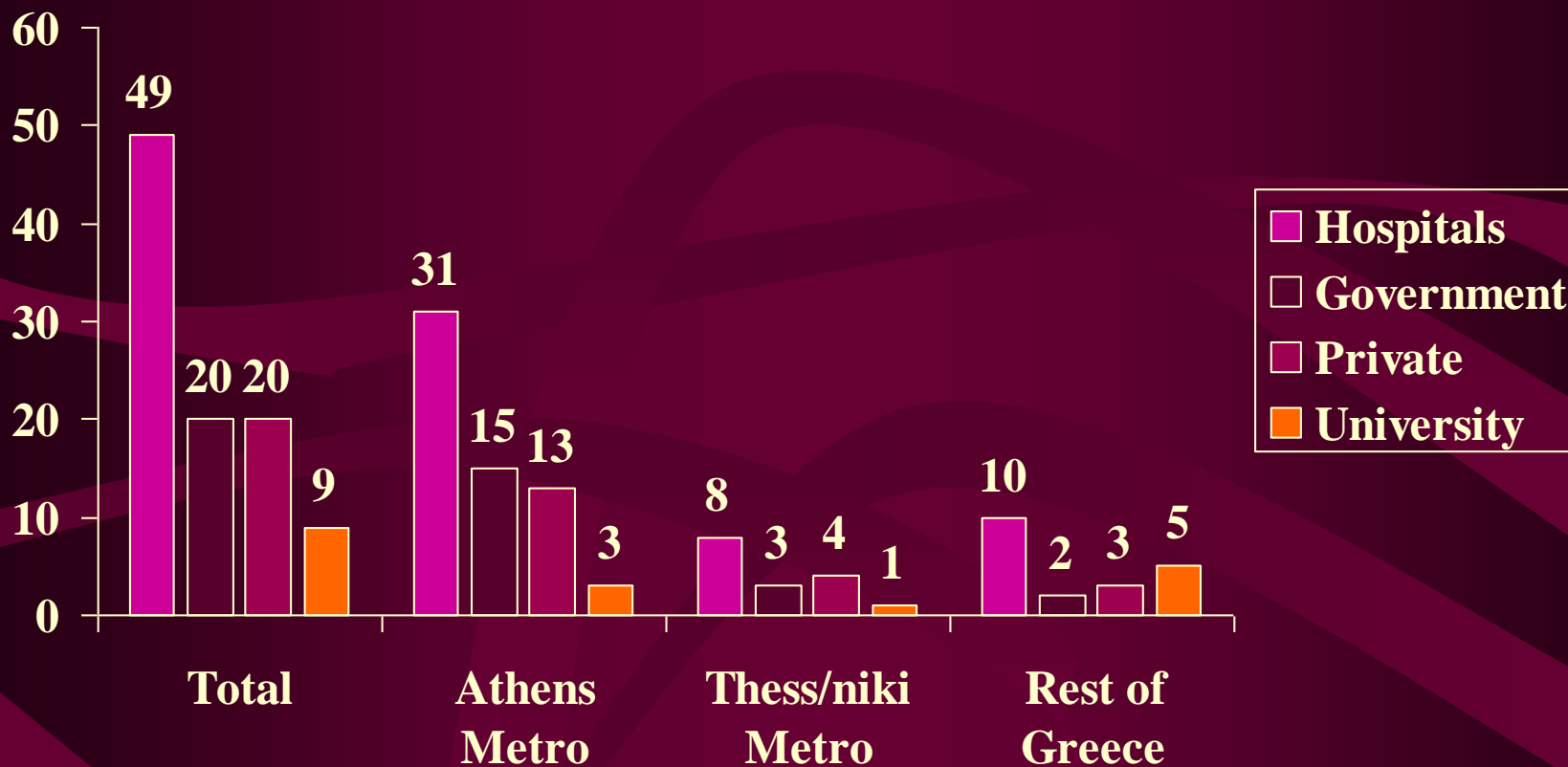
New PCI Centers
n=9
1 with CABG on site

Athens Metro Area
n=6
0 with CABG on site

Thessaloniki Metro Area
n=0
0 with CABG on site

Rest of Greece
n=3
1 with CABG on site

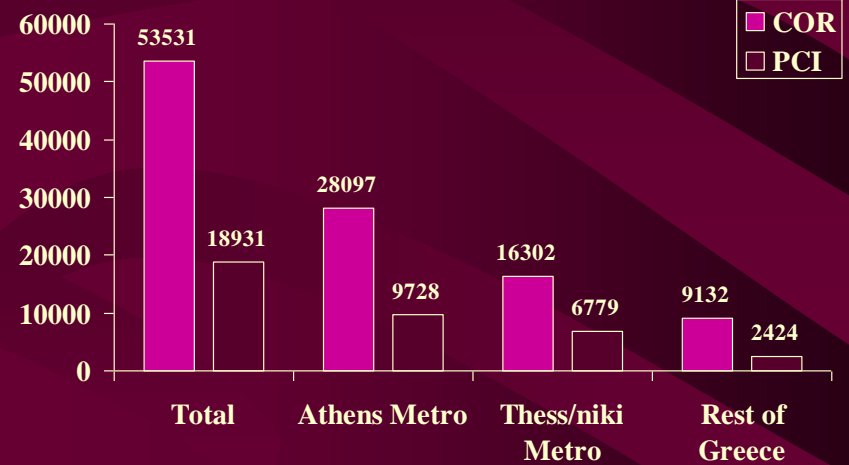
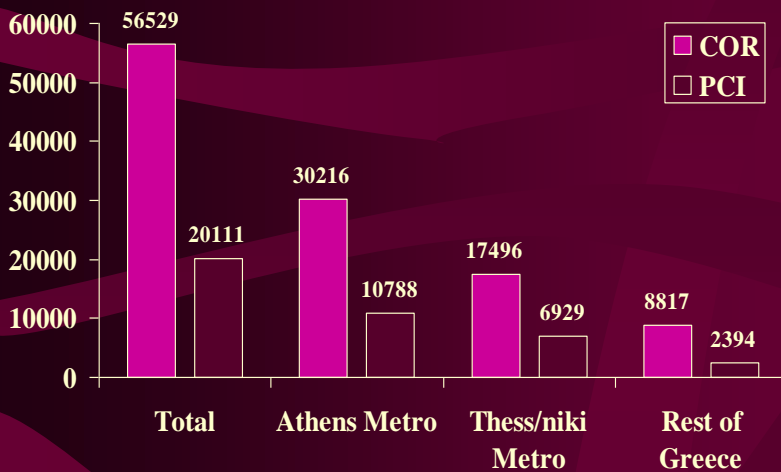
PCI Centers: 2009



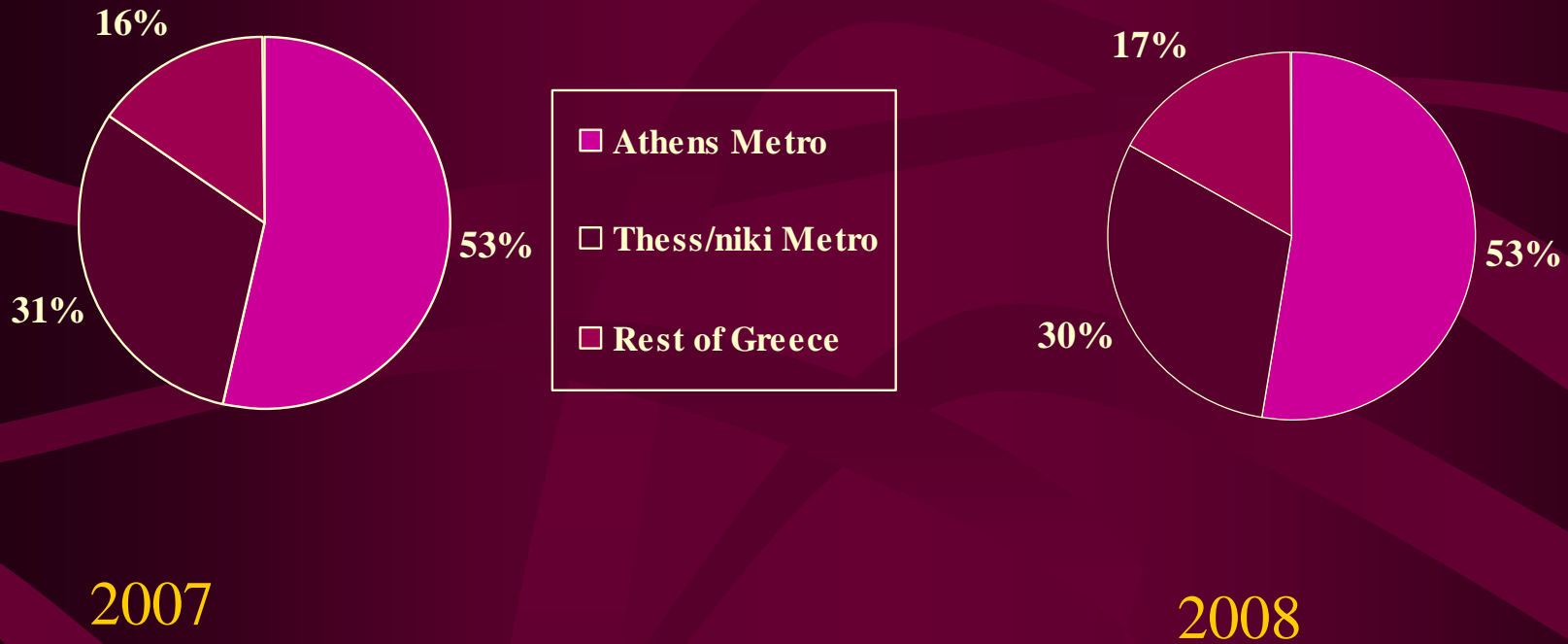
COR/PCI Procedures: 2007 & 2008

2007

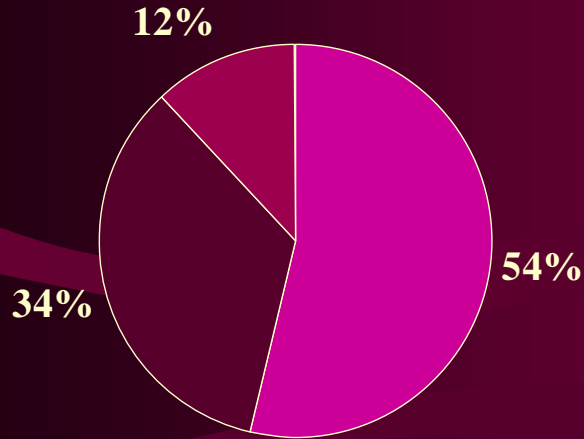
2008



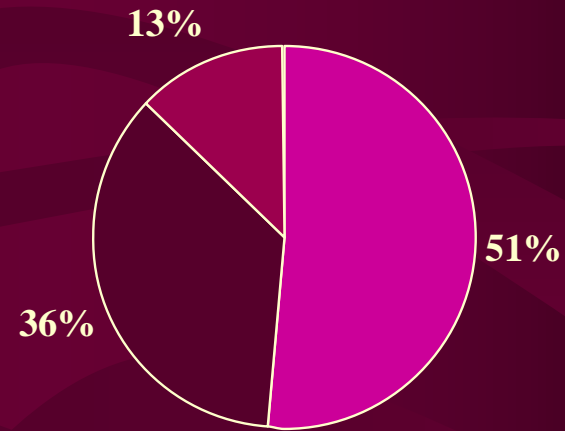
COR Procedures: 2007 & 2008



PCI Procedures: 2007 & 2008



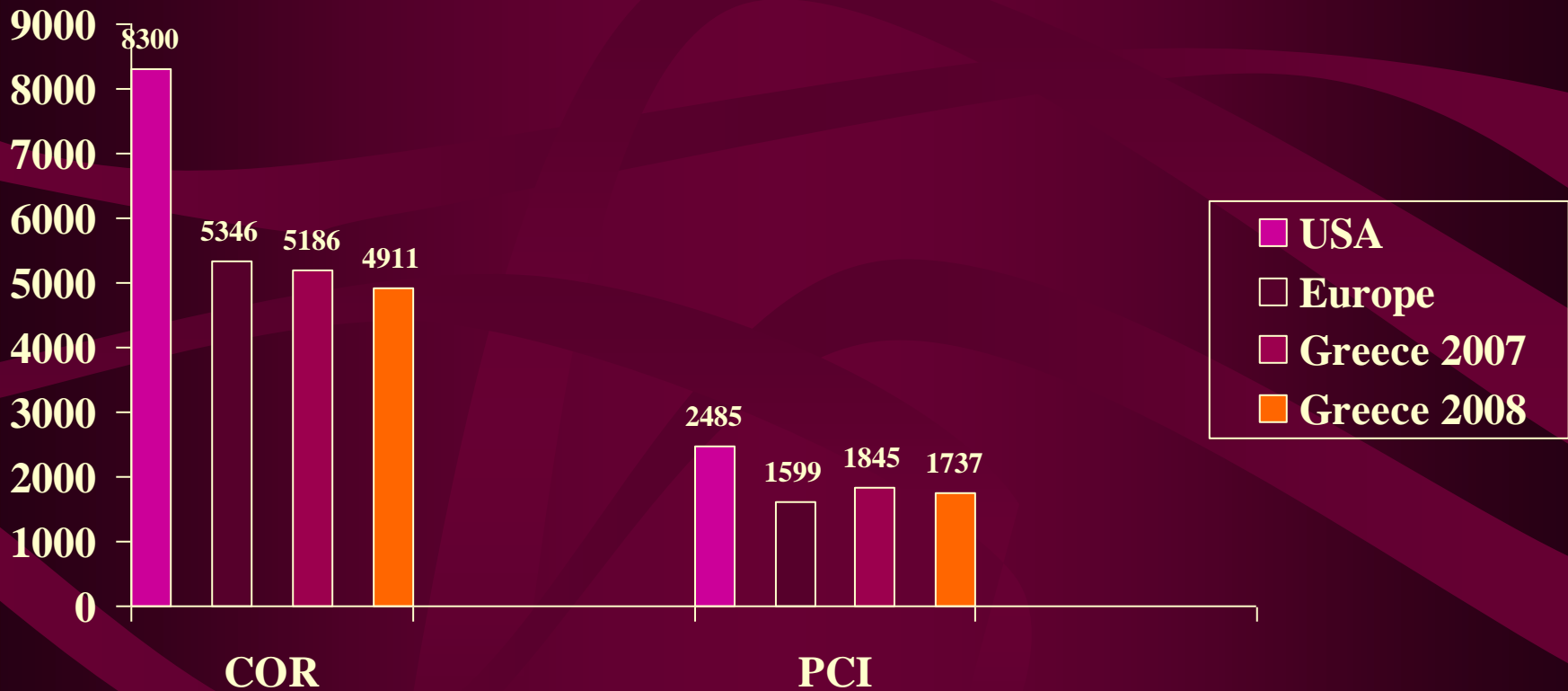
2007



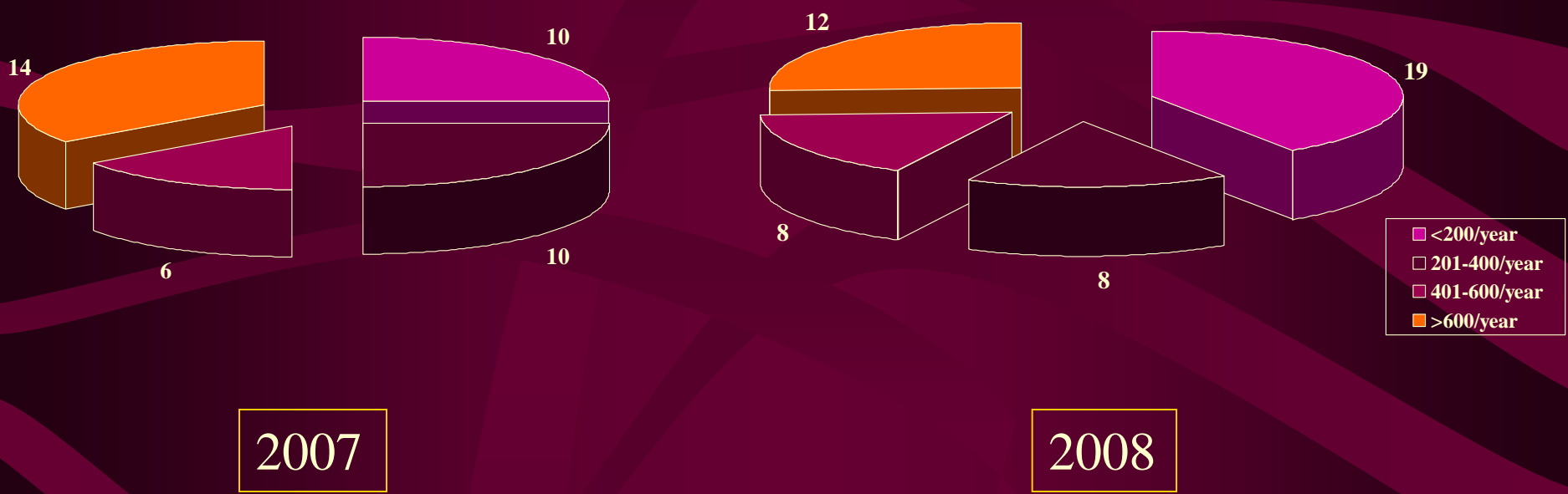
2008



COR & PCI Procedures / 10⁶ population: 2007 & 2008 (10,9 million)



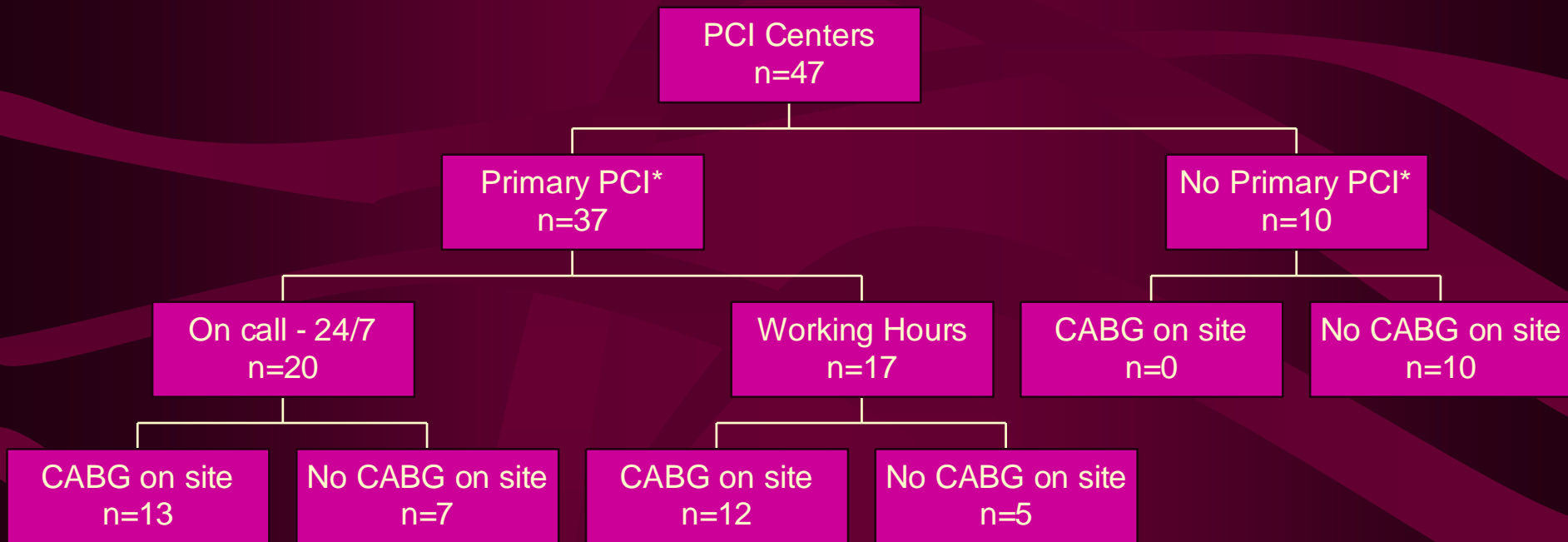
PCI Volume per Center: 2007 & 2008



2007

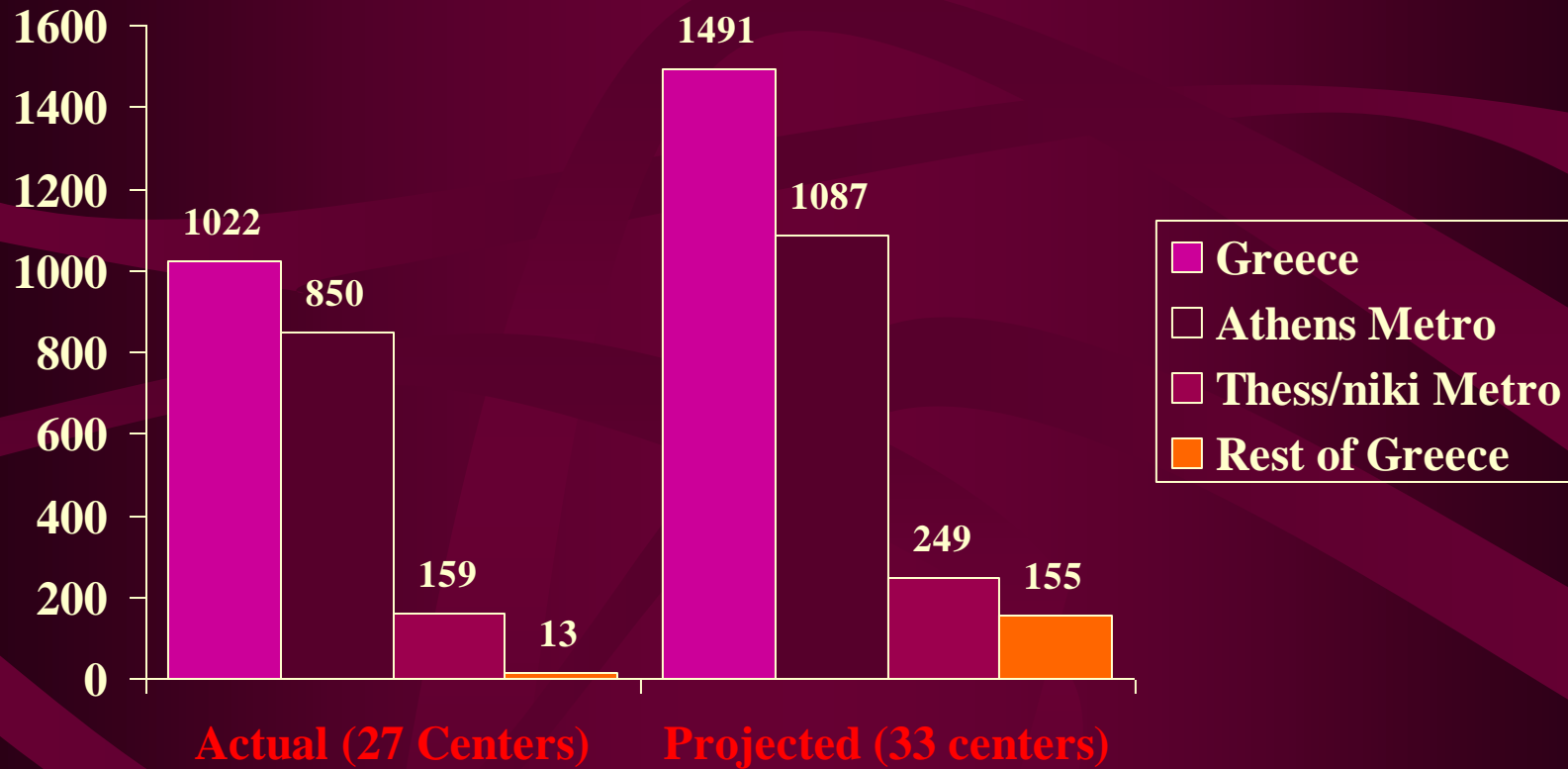
2008

PCI Centers & Primary PCI - 2008



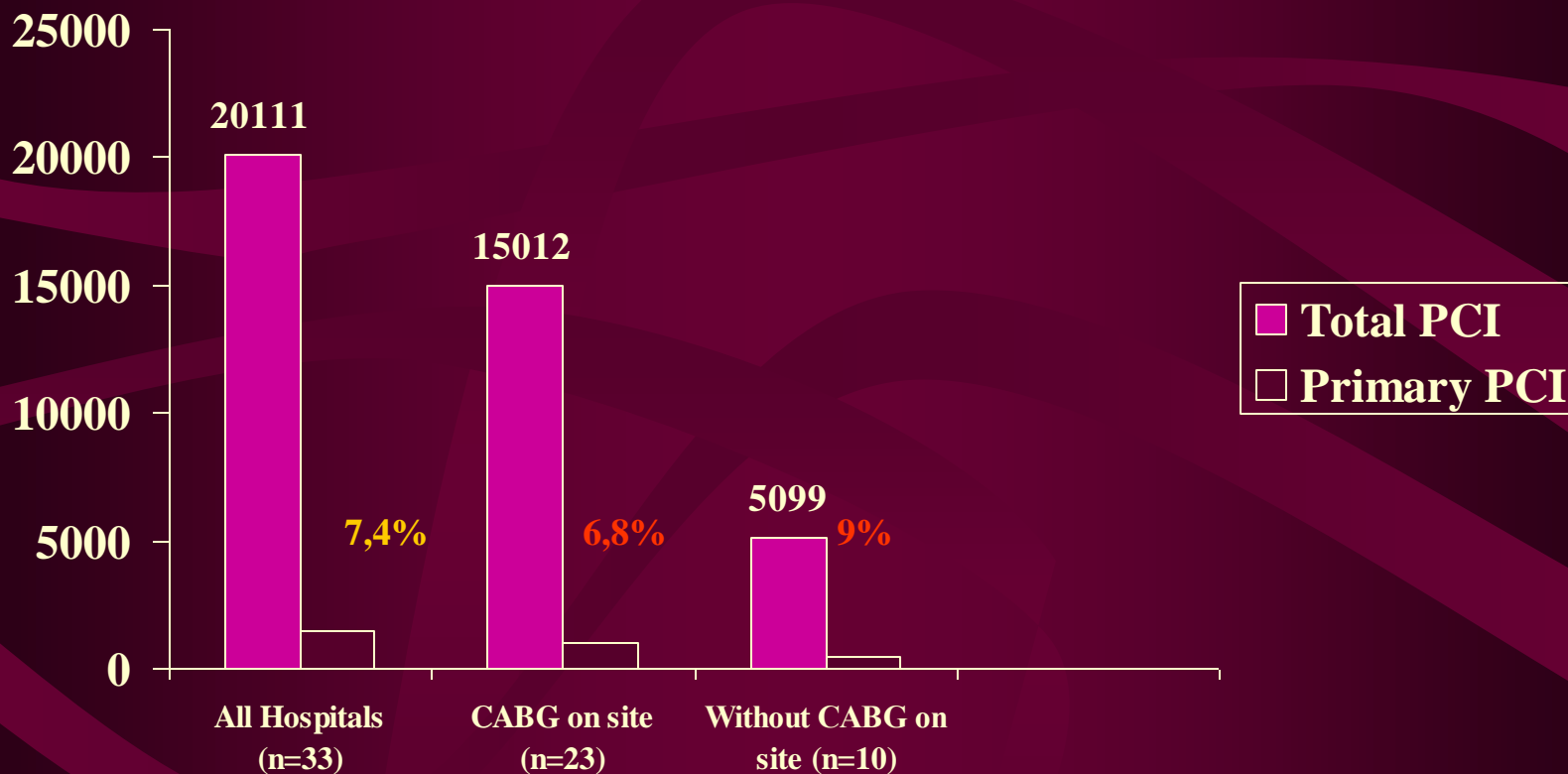
*Technical ability to perform primary PCI

Primary PCI numbers*: 2007

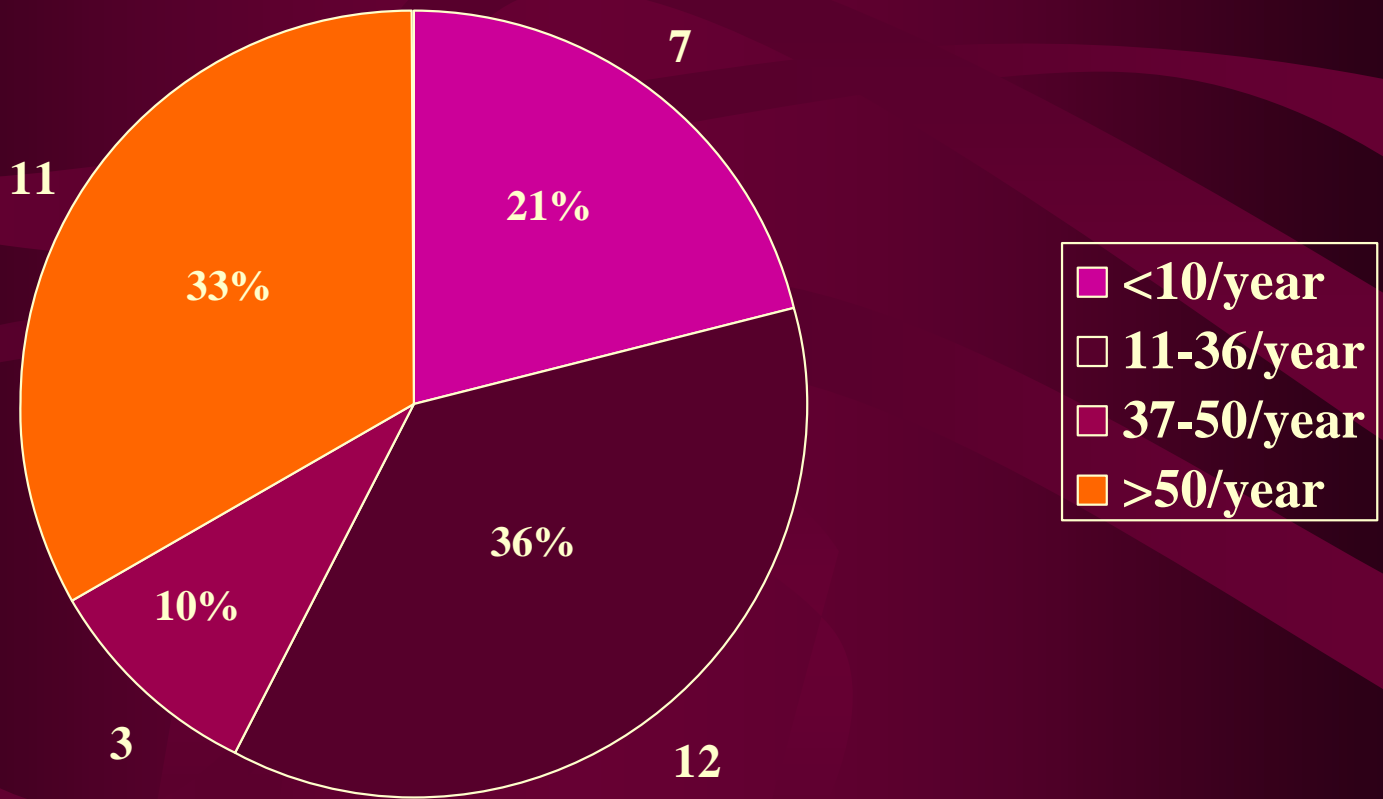


* Data from 27 Centers (6 Centers with data missing)

Volume of Primary PCI in Centers with and without CABG on site: 2007



Volume of Primary PCI per Center: 2007



Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: **Demographics**

Males	2221 (83.6%)
Females	433 (16.4%)
Age	64.1 ± 10.8
Height	169.9 ± 10.8
Weight	81.6 ± 14.6
BMI	28.6 ± 1.2

Hellenic PCI Registry (2/2008-10/2009)

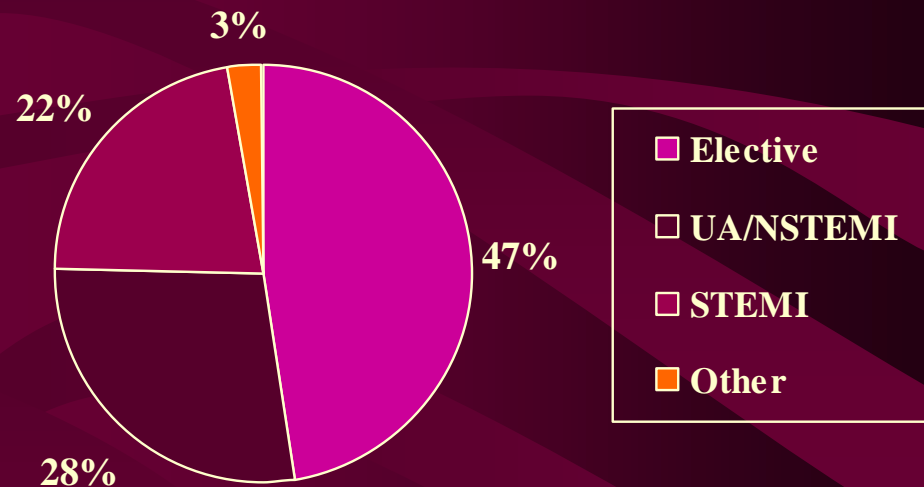
n=2654 patients: Demographics

Hx Stable Angina	734 (27.6%)
Hx Prior MI	660 (24.9%)
Hx CVA	51 (1.9%)
Hx PVD	132 (5%)
Hx of CRF	66 (2.5%)
Hx Prior PCI	543 (20.5%)
Hx Prior CABG	225 (8.5%)
Current Smokers	1007 (37.9%)
Former Smokers	828 (31.2%)
Current Diabetes	781 (29.4%)
Hypertension	1792 (67.5%)
Dyslipidemia	1767 (66.5%)

Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: PCI Indication

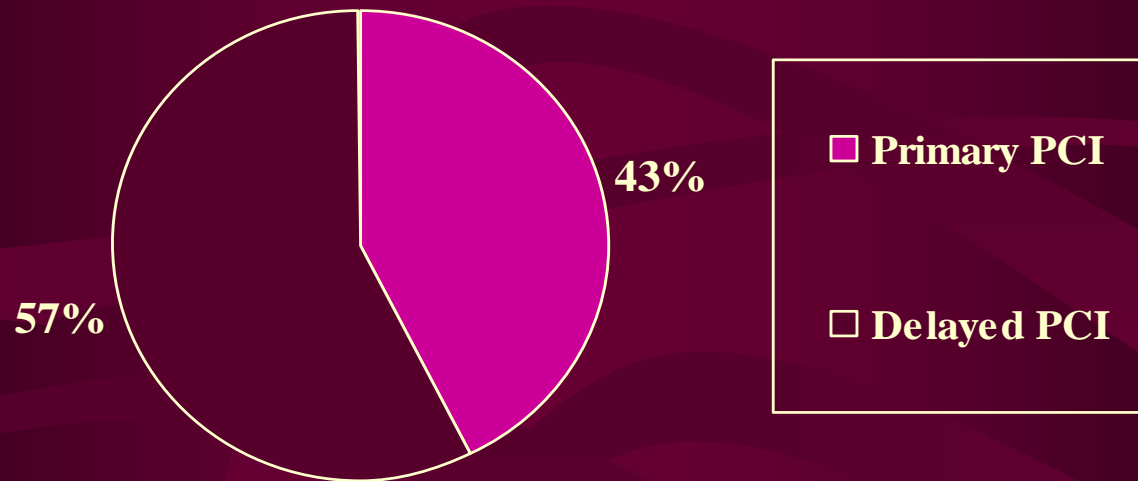
Elective PCI*	1261 (47.5%)
ACS (UA/NSTEMI)	313 (11.8%)
STEMI	248 (9.3%)
ACS stabilized	426 (16.1%)
STEMI stabilized	334 (12.6%)
Other	72 (2.7%)



*Stable angina/documentated ischemia

Hellenic PCI Registry (2/2008-10/2009)

n=582 STEMI patients: Type of Therapy



Thrombolytic Rx	186 (31.9%)
Primary PCI	248 (43%)
Post STEMI PCI	334 (57%)

Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: Angio Data

EF >50%	1866 (70.4%)
30%≤EF≤50%	457 (17.2%)
EF<30%	110 (4.1%)
EF Unknown	221 (8.3%)
LM>50%	73 (2.7%)
1VD	1354 (51%)
2VD	838 (31.6%)
3VD	462 (17.4%)
Treated LM	9 (0.3%)
Treated LAD	1357 (51.1%)
Treated CX	847 (31.9%)
Treated RCA	1055 (39.8%)
Treated by-pass graft	58 (2.2%)

Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: PCI Data

Femoral Access	2436 (91.8%)
Radial Access	110 (4.2%)
IVUS	59 (2.2%)
Pressure wire	38 (1.4%)
IABP	7 (0.2%)
Distal Protection	12 (0.4%)
Thrombectomy	112 (4.2%)

Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: PCI Data

Type A lesion	14%
Type B lesion	63%
Type C lesion	27%
Mean No stents per lesion	1.2
Mean stent size (mm)	2.8
Mean stent length (mm)	17.4
BMS stenting	40.7%
DES stenting	59.3%
Clopidogrel 300 mg	1994 (75%)
Clopidogrel 600 mg	597 (22.5%)
GP IIbIIIa inhibitors	355 (13.4%)

Hellenic PCI Registry (2/2008-10/2009)

n=2654 patients: **Complications & Outcomes**

Periprocedural complications	85 (3.2%)
Acute segment closure	19 (0.7%)
Side branch occlusion	25 (0.9%)
Distal embolization	13 (0.5%)
No flow/slow flow	26 (1%)
In hospital death	6 (0.2%)*
Periprocedural MI	18 (0.7%)*
Periprocedural CVA	7 (0.3%)
Stent thrombosis	9 (0.3%)
Repeat PCI	16 (0.6%)
Emergency CABG	7 (0.3%)
Major bleed	15 (0.6%)
Renal failure	7 (0.3%)

* 1.2% ESC PCI Registry

Difficulties & Problems

- Motivation of physicians (multifactorial)
- Politics
- Clear understanding of the role and the benefits of the registry with broad participation in analyses
- Establish a structure especially in high-volume centers for secretarial help
- Loss of enthusiasm of existing users if a wide participation can not be achieved
- **Minimal increase in participation in year 2008**

2010 Proposal to WG

- Continue keeping the existing structure of the Database (web site – server)
- Complete a 2 year recording (2/2010)
- Perform analyses of the data and f/u
- Discussion in the WG regarding ways to expand participation for further continuation of the Database



Hellenic Heart Registry on Percutaneous Coronary Interventions

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Thank you for your participation!