

ESC and EAPCI SFL INITIATIVE;REPORT FROM BOSNIA AND HERZEGOVINA

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SFL Champion BiH



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Stent for Life is a joint initiative between the European Association of Percutaneous Cardiovascular Interventions (EAPCI), a registered branch of the European Society of Cardiology (ESC), and EuroPCR



Bosnia and Herzegovina Health care system basic facts

- **Federation BiH:** 3 University Clinical centers + 2 Regional centers
- **Republika Srpska:** 1 Univer.Clinical Center + 1 Regional center
- **Brcko District** – Reg. hospital
- **2 Ministries of Health (FBiH& RS), 2 Health Insurance Funds + Brcko District MoH and HIF**
- **In FBiH 10 Cantonal HIFs**
- Private out-of-pocket payments - limited





Bosnia and Herzegovina 2015.

Country Detail	Situation
Population	3.839.737
Country surface area	51197 km ²
GDP per capita	4461
No. of interventional cardiologists	24
Rate of AMI	6954/y
Rate of AMI mortality	9%
Usage rate of thrombolysis	320/mil
Rate of no reperfusion therapy	325/mil
PCI per million	810
p-PCI per million	338
% of p-PCI in STEMI patients	41%
No. of cath labs	6
No. of 24/7 cath labs	4
Average distance to cath lab	50 km
No. of ambulances	n.a
Average no. of ambulances with ECG	n.a
Availability of helicopters	no
No. of patients that call EMS	70%



Reperfusion therapy for ST elevation acute myocardial infarction 2010/2011: current status in 37 ESC countries

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Figure 1. Primary Percutaneous coronary interventions per 1,000,000 inhabitants in 37 ESC countries 2010/2011

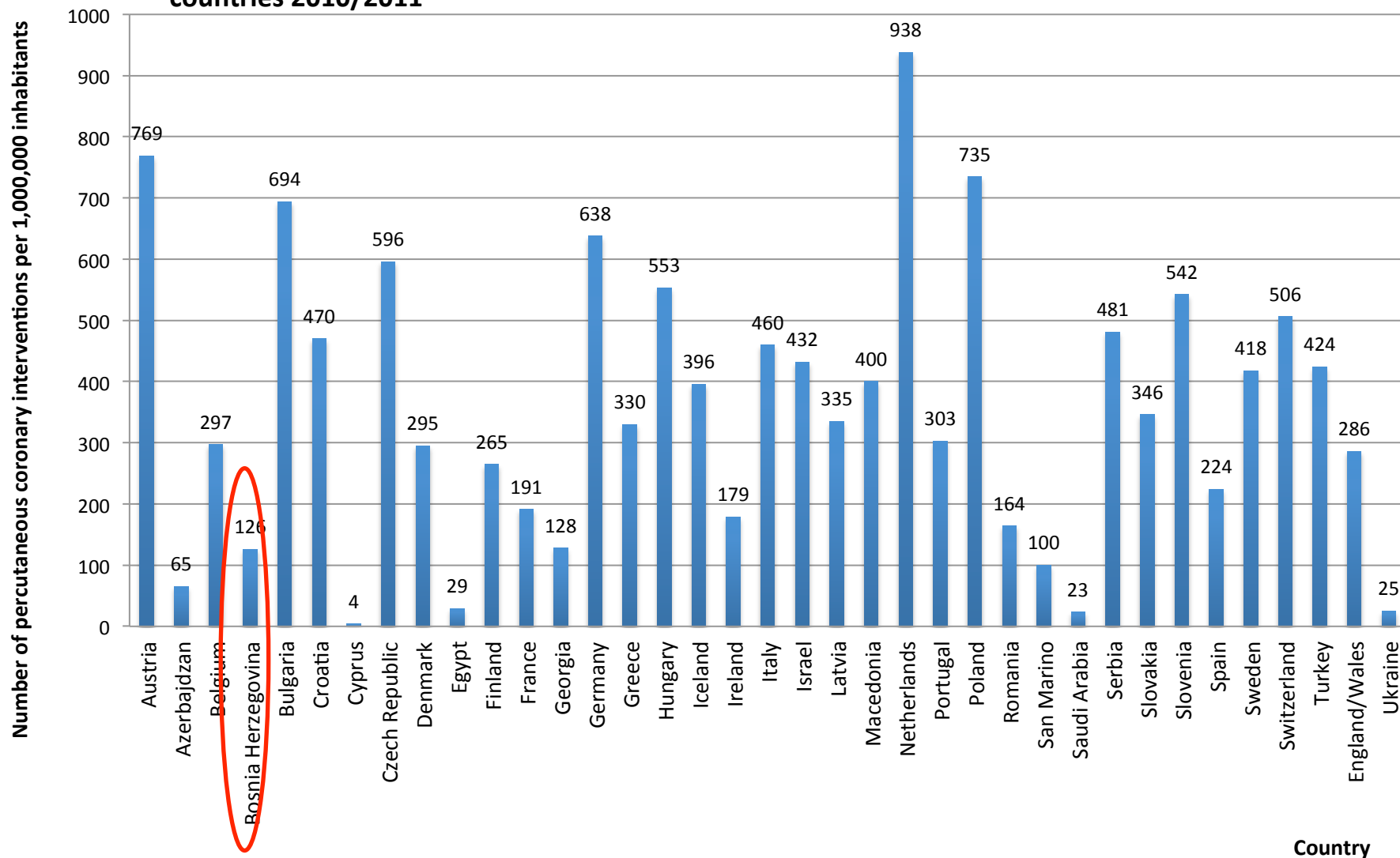


Figure 2. Thrombolysis per 1,000,000 inhabitants in 37 ESC countries 2010/2011

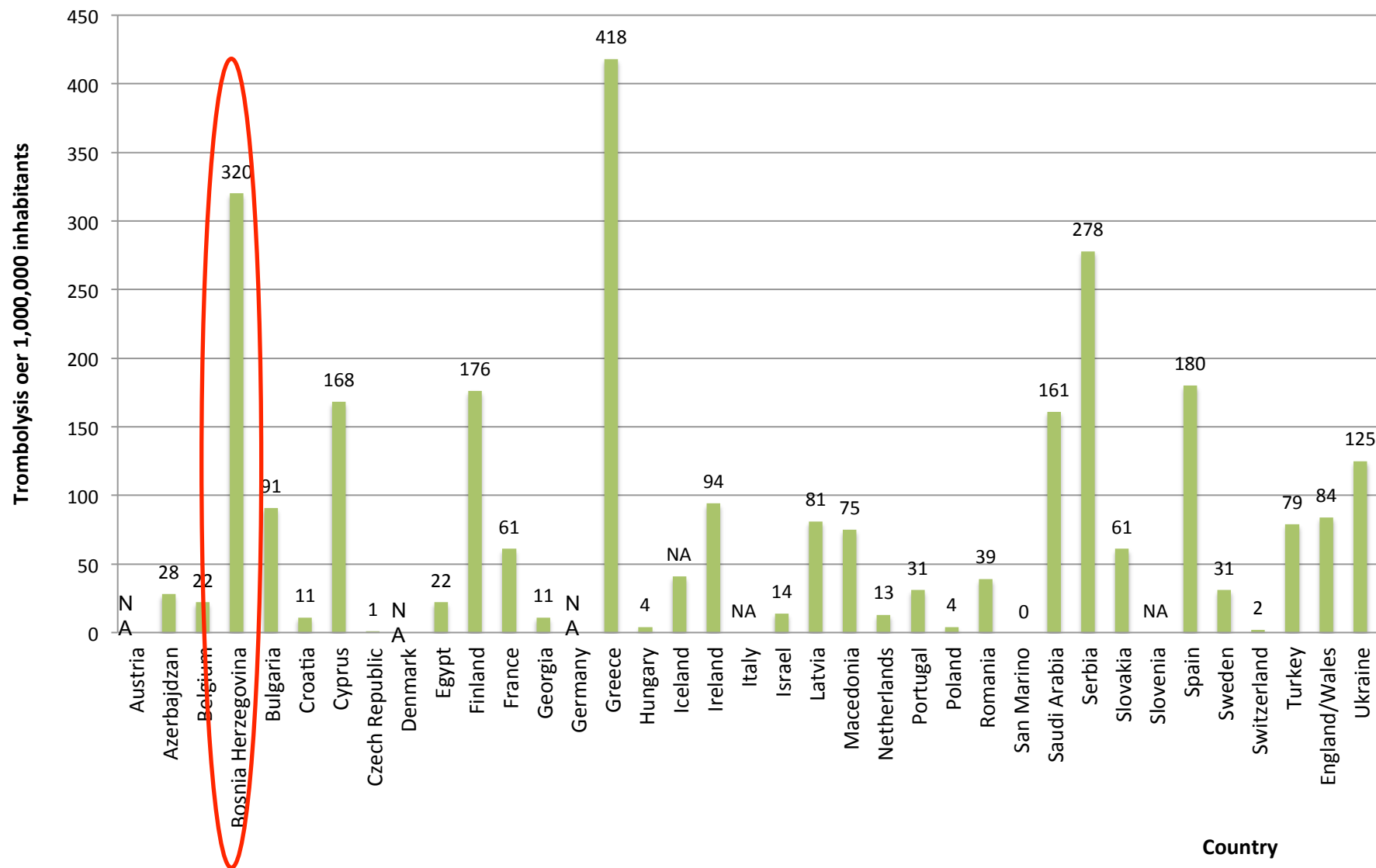
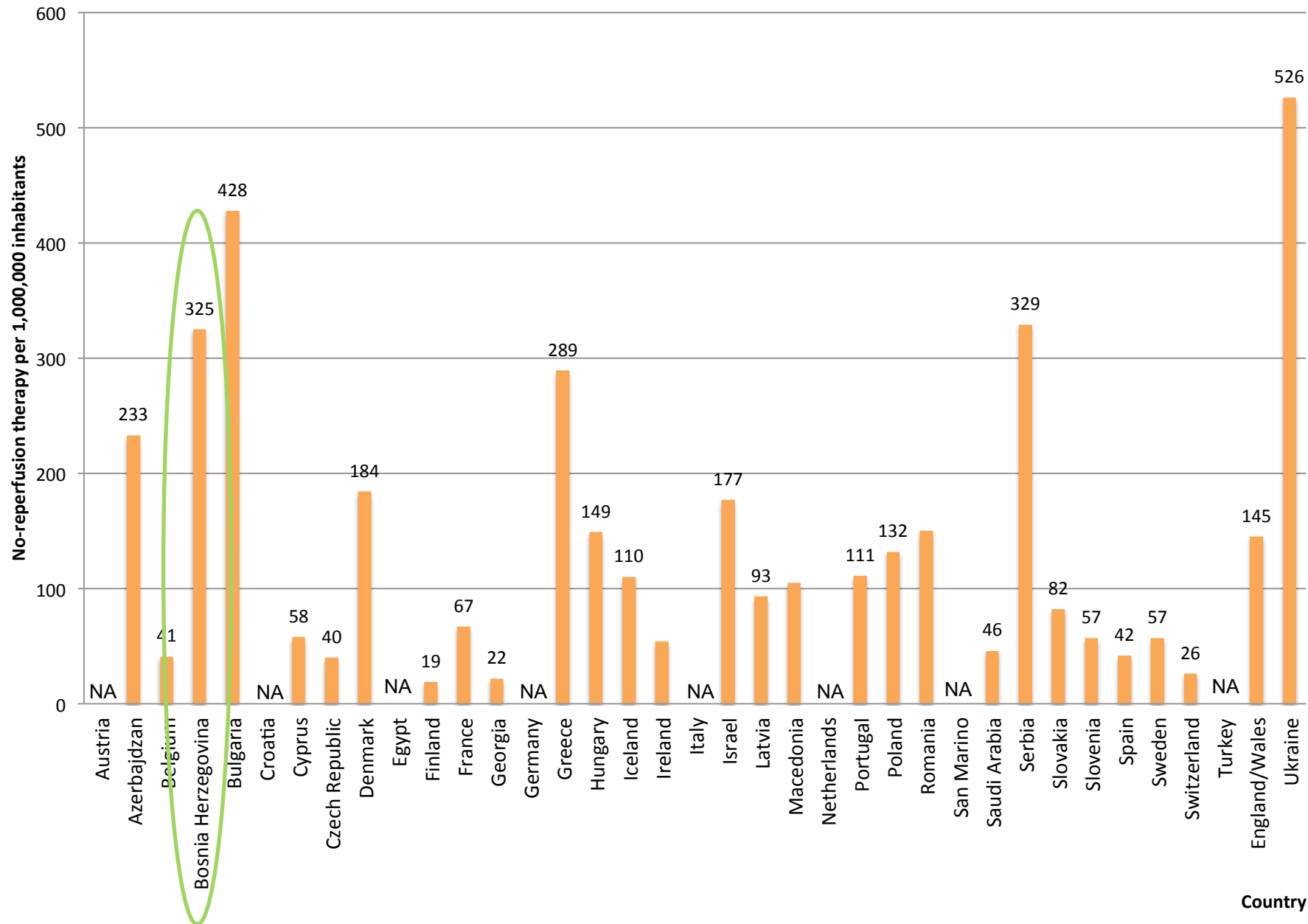
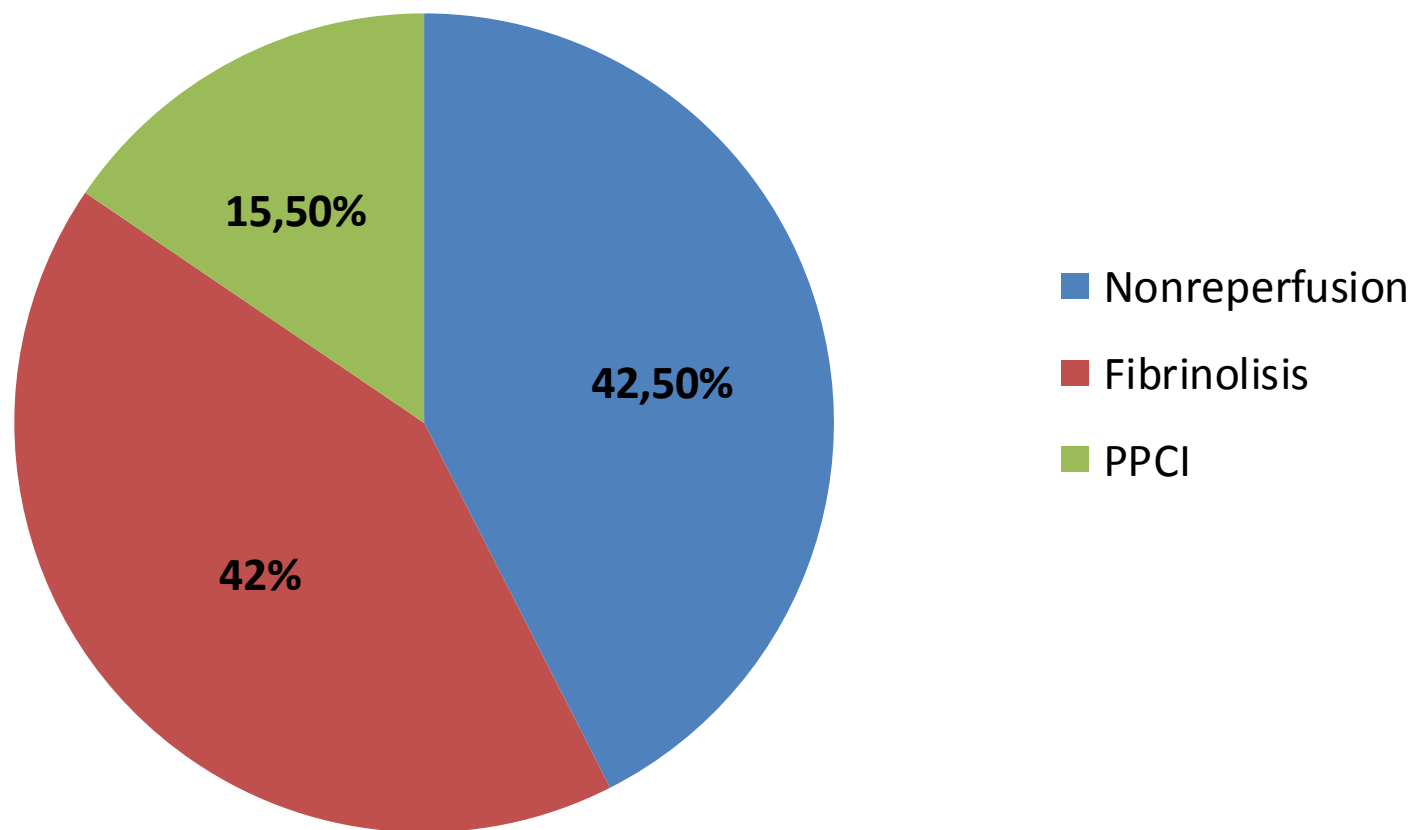


Figure 3. No-reperfusion therapy per 1,000,000 inhabitants in 37 ESC Countries 2010/2011

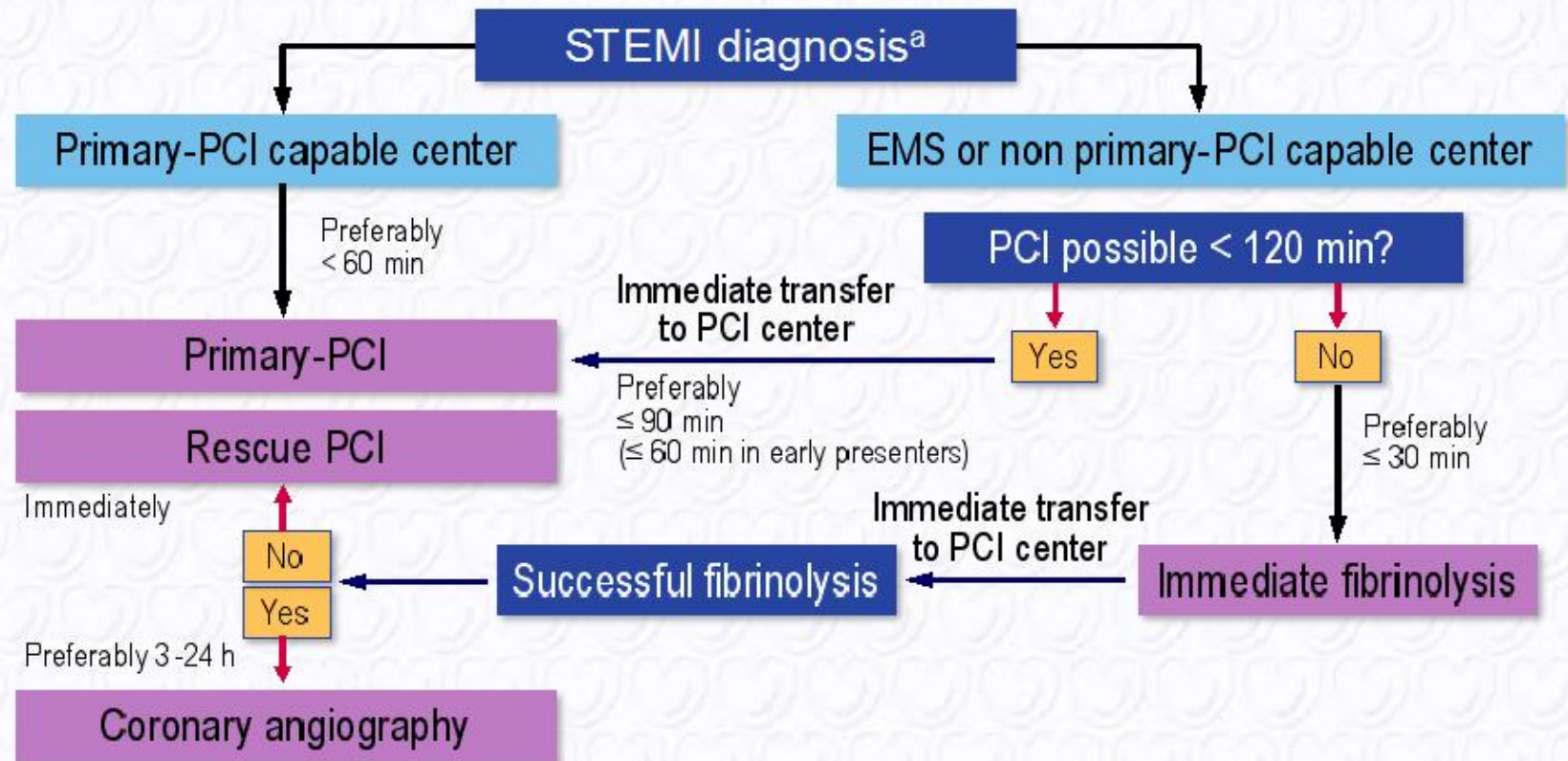




STEMI treatment in Bosnia and Herzegovina 2011.



Prehospital and in-hospital management, and reperfusion strategies within 24 h of FMC



^a The time point the diagnosis is confirmed with patient history and ECG ideally within 10 min from the first medical contact (FMC). All delays are related to FMC (first medical contact).

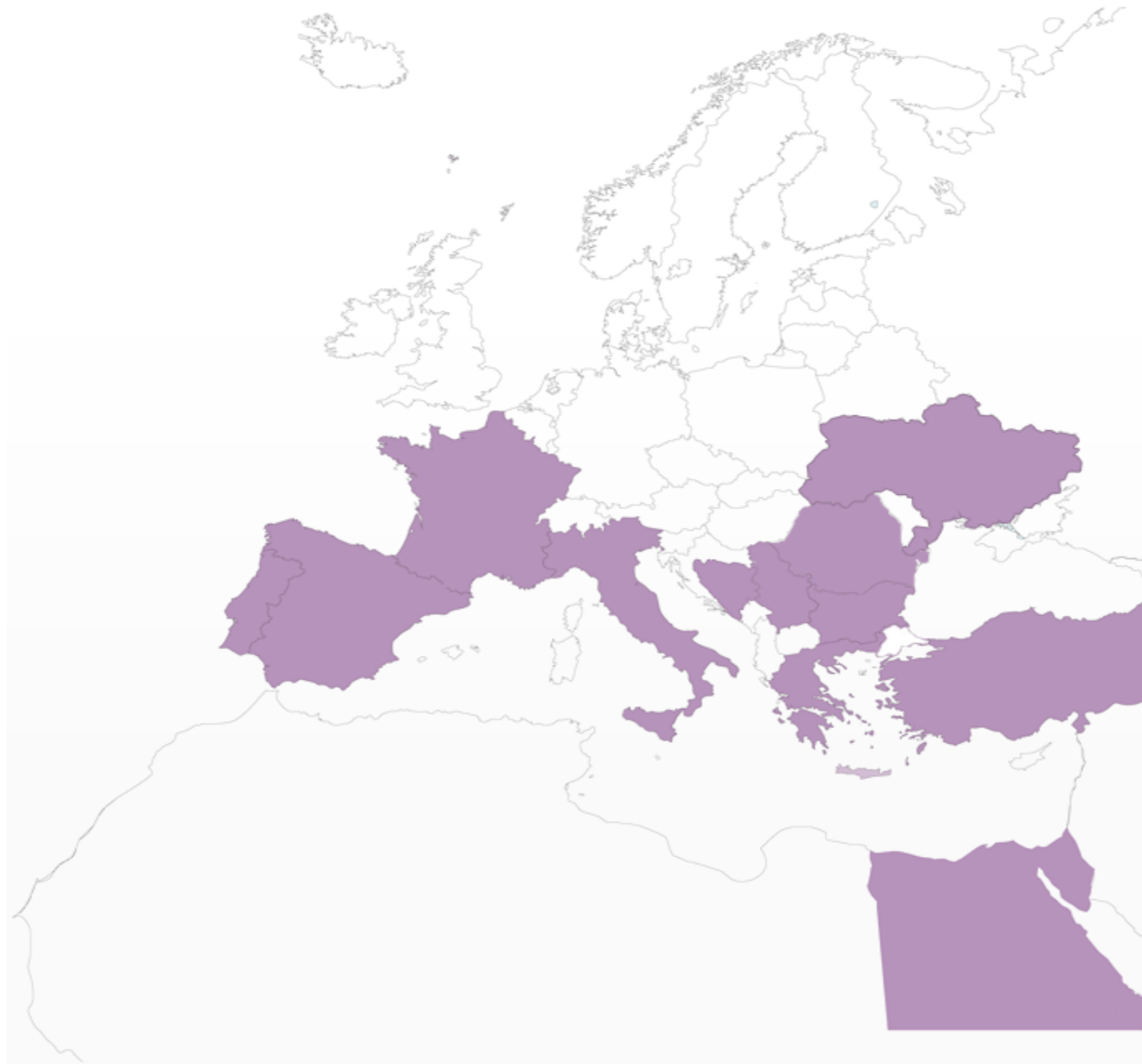
Cath = catheterization laboratory; EMS = emergency medical system; FMC = first medical contact; PCI = percutaneous coronary intervention; STEMI = ST-segment elevation myocardial infarction.

European Heart Journal (2012) 33, 2569–2619
doi:10.1093/eurheartj/ehs215

Stent for Life INITIATIVE

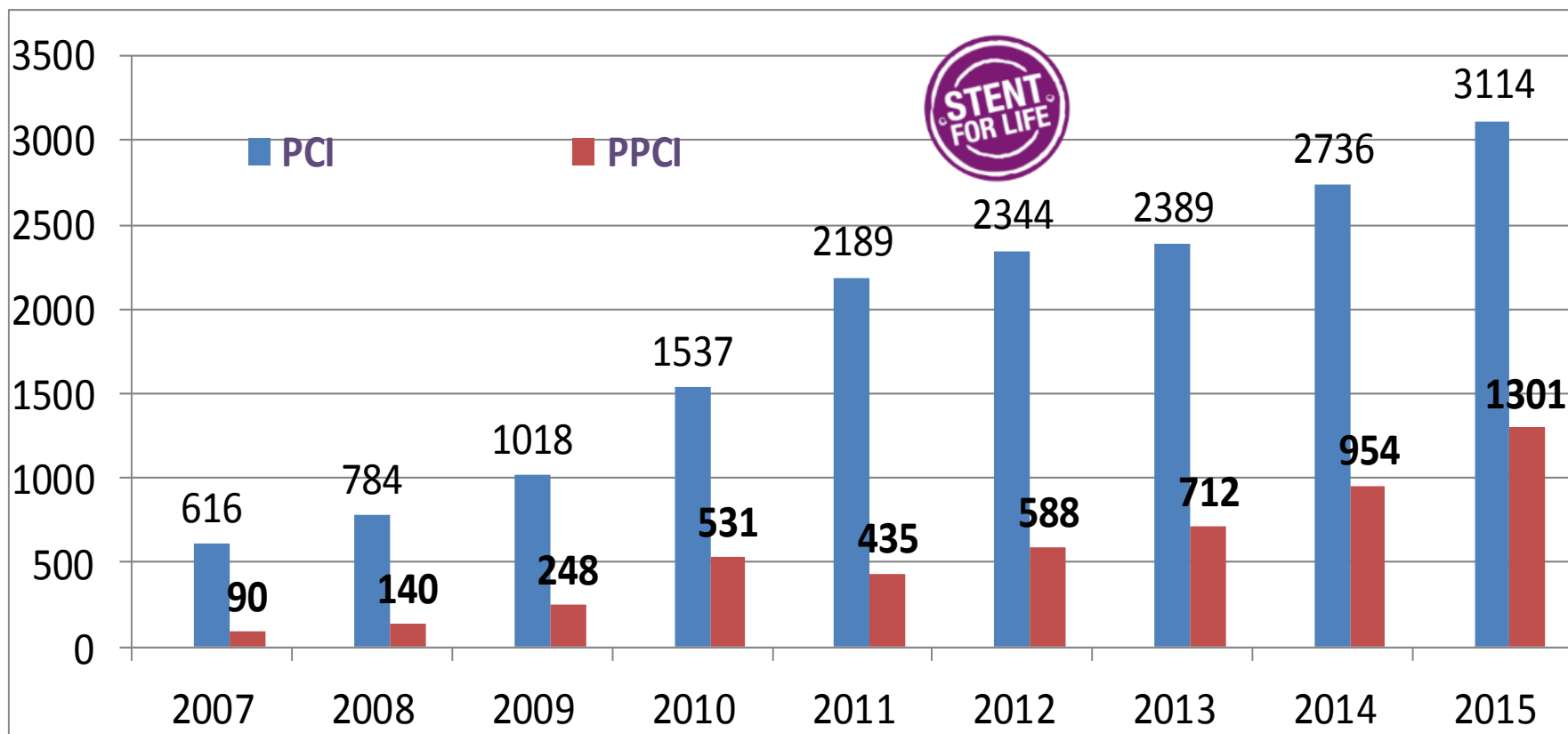
To improve the delivery and patient access to the life saving indications of PCI thereby reduce the mortality and morbidity of patients suffering from acute coronary syndromes.





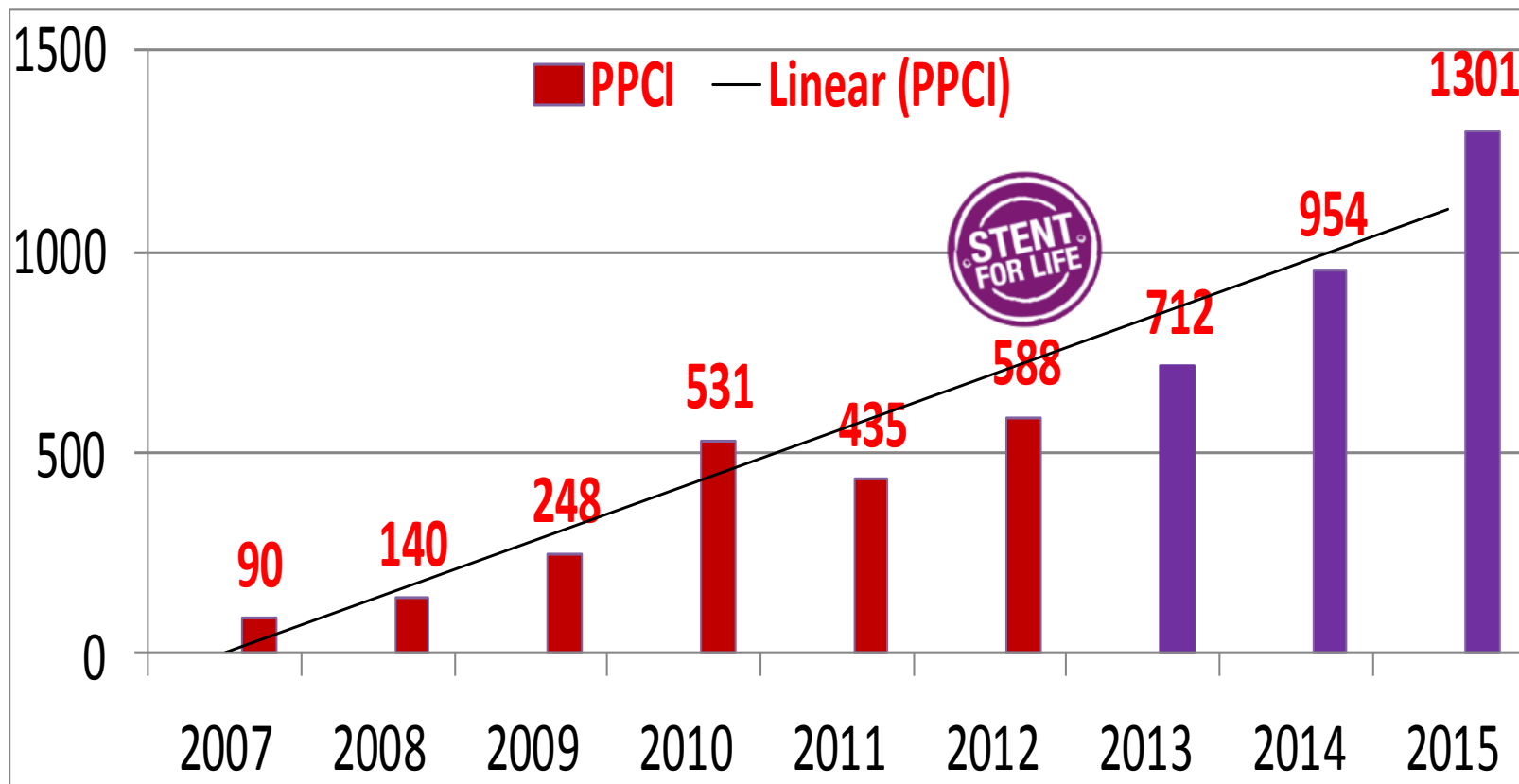


Primary-PCI Evolution in Bosnia and Herzegovina



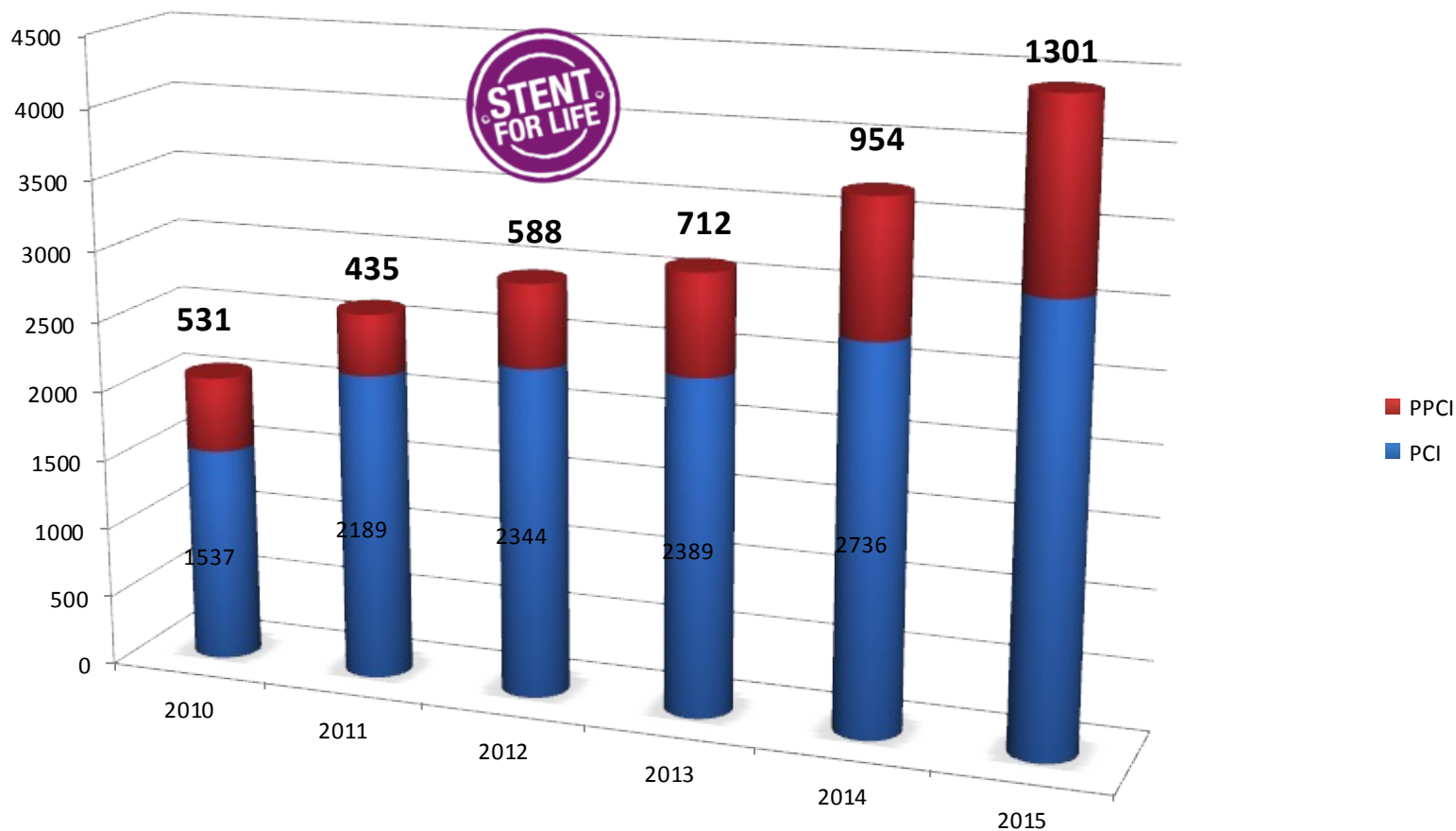


Primary-PCI Evolution in Bosnia and Herzegovina





PCI in Bosnia and Herzegovina 2010-2015





Interventional cardiology in BiH

PCI /PPCI 2011-2015

	2011	2012	2013	2014	2015
PCI centres	5	5	5	6	6
PCI total	2189	2344	2389	2716	3114
PCI/mil.	570	610	572	712	810
PPCI/mil	115	153	185	248	338
%PPCI/STEMI	14%	19%	23%	31%	41%



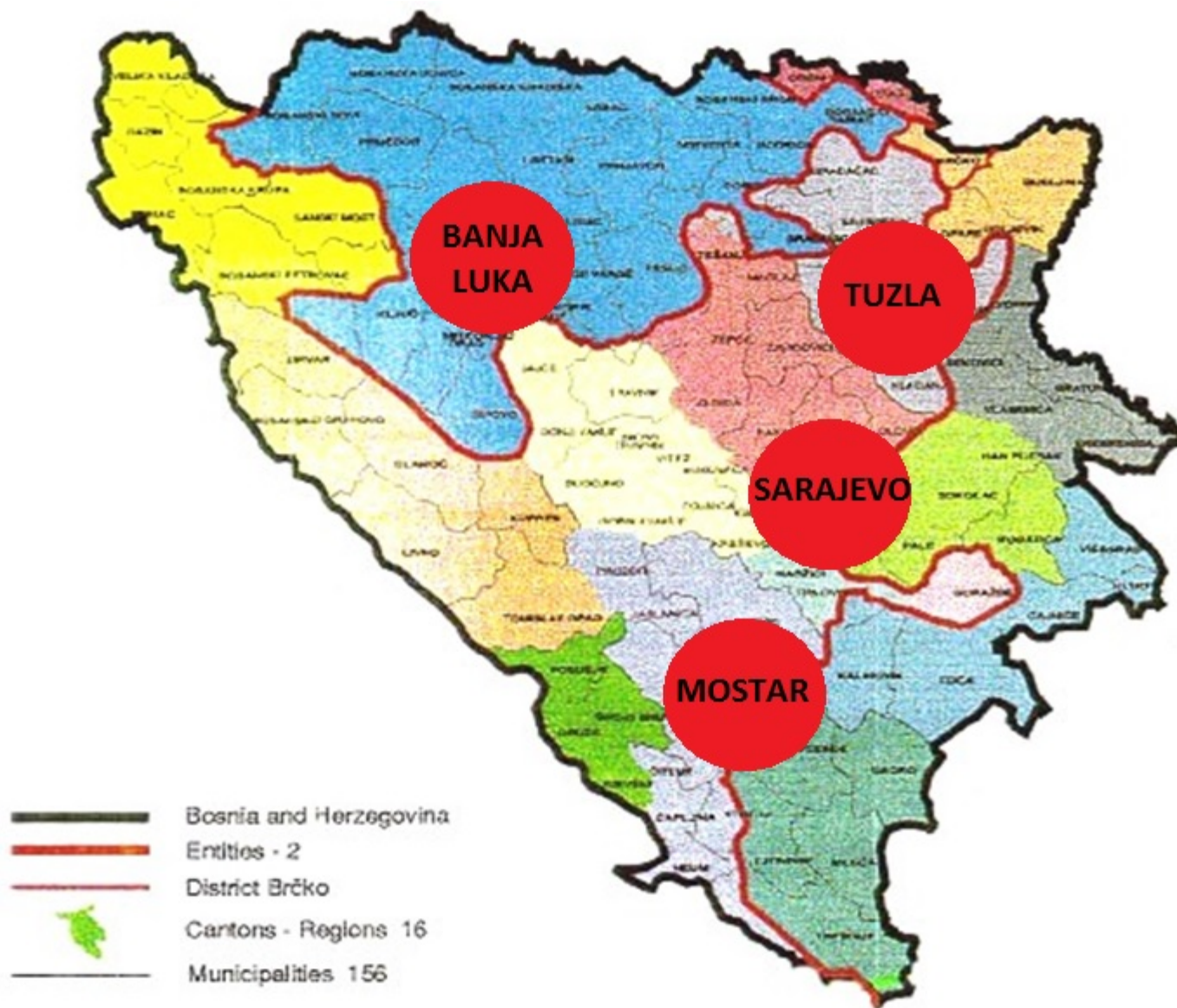
B-H SFL achievements end targets

	2012	2015	Targets (2017?)
STEMI /MIL	159	338	600
PPCI/STEMI	19%	41%	75%



SFL 2014-2015. First results!

- Increased number of PPCI procedures ,
41%STEMIs, 338/mil
- Established 24/7 sistem in 4 PCI centers
- Increasing numbers of PPCI procedures despite
many limitations factors





Unmet medical needs and barriers

Pre hospital phase

- **Patients delays in recognising MI symptoms**
- **Transport delays due to the bad transport connections**
- **Primary care and emergency units AMI education**

In hospital phase

- **Lack of well trained stuff in PCI units**
- **Lack of nights and weekends shifts for PCI emergency teams**
- **Reimbursement issues – limited number of PCI procedures**



Action plan to overcome unmet medical needs and barriers

Pre hospital phase

- **Public campaign and patient awareness programs**
- **Transportation facilities investments**
- **CME for STEMI guidelines and investments in better equipment**

In hospital phase

- **Trainings of PCI units staff**
- **Established more PCI units available 24/7**
- **Established special program for PCI procedures**



Bosnia and Herzegovina strategy 2016.

Improve delivery and pts. access to PCI procedures in order to reduce mortality of ACS patients

**Further developing
of national SFL
structure**

**National SFL AMI
register**

**Public campaign
–raising
awareness of AMI
symptoms**

**CME education
for GPs and PCI
stuff**

**Further
developing of
regional PCI
network**

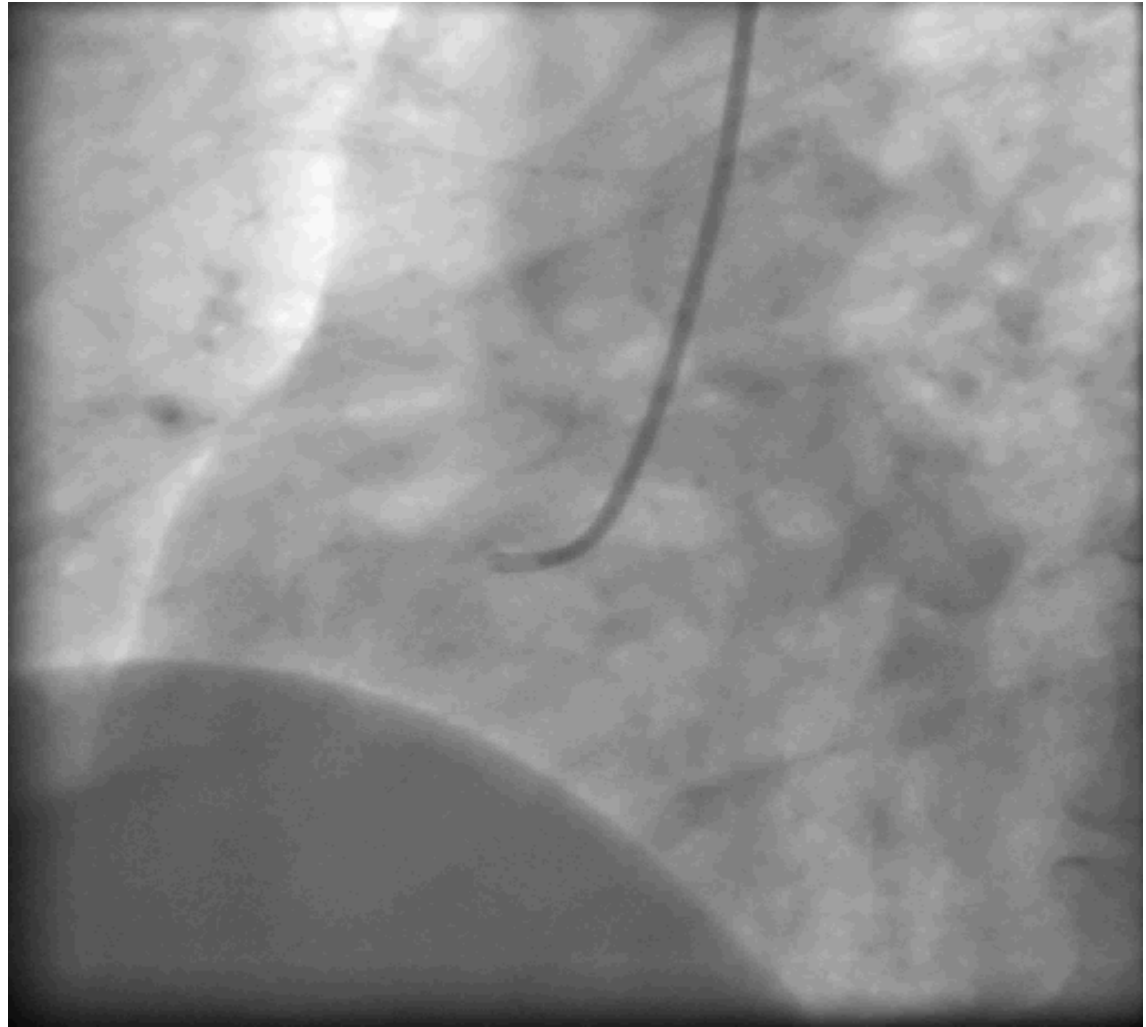
**Establish National
Fund for AMI
treatment in BiH.**

61,y. M
STEMI,
LAD 100%,

Premedication:

Clopidogrel 100mg
Aspirin 300 mg
Enoxiparin 80mg

PPCI ,
DES 3,5-21mm
F/up OK



Baseline angiogram



**59 y . m.
NSTEMI**

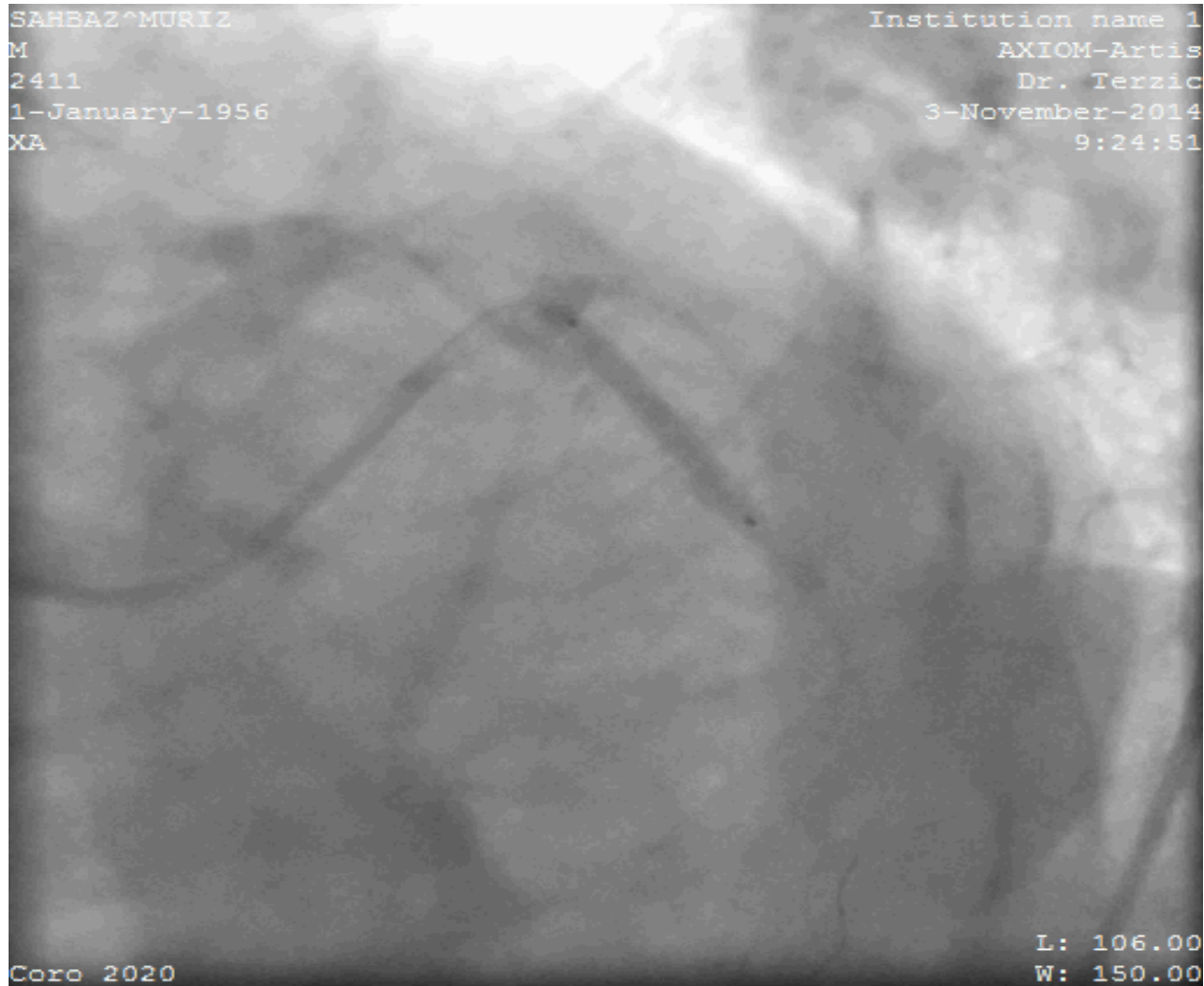
**CX 95% prox.
LAD 70%mid**

PCI-Cx





Stent implantation Cx - LAD dissection



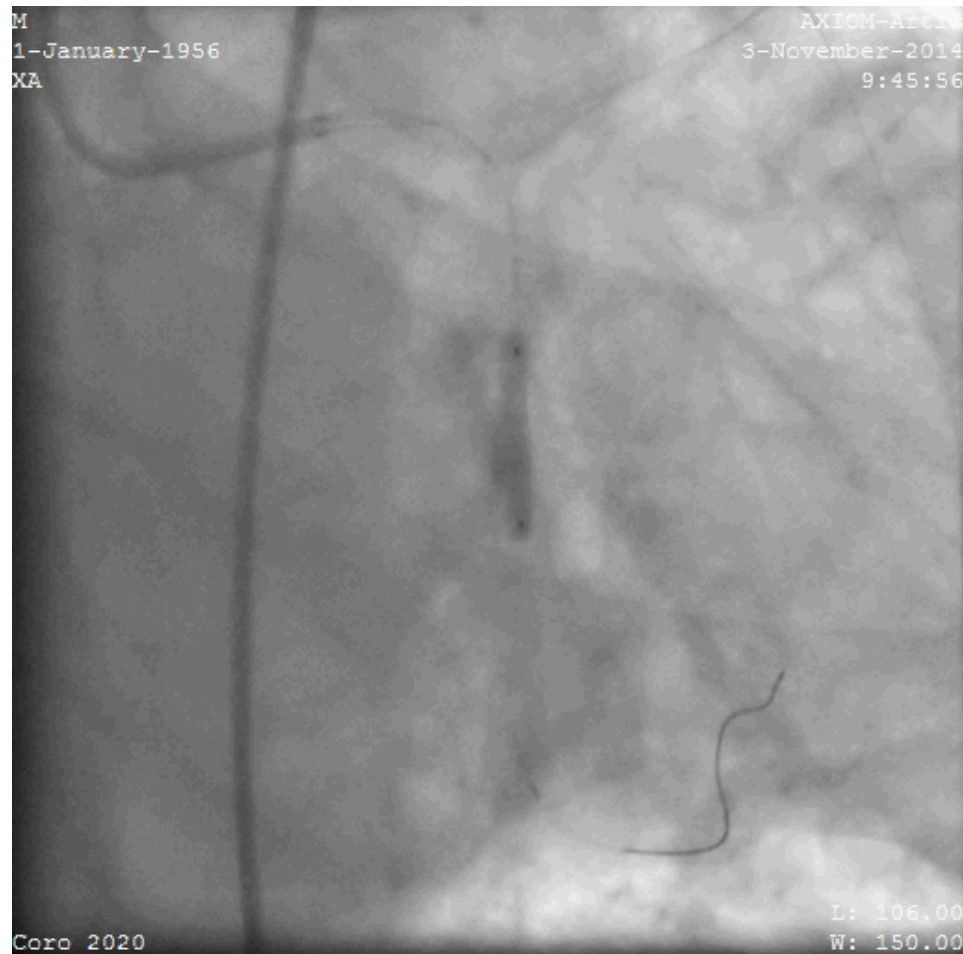


Stent implantation in LAD





Second stent impl. In Cx





Final angiogram



Working Together. Saving Lives



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**Thank for your
attention!**