



האיגוד הישראלי לכירורגית לב וחזה
THE ISRAEL SOCIETY OF CARDIOTHORACIC SURGERY

האיגוד הקרדיולוגי בישראל
ISRAEL HEART SOCIETY



The 60th International Conference of the Israel Heart Society
in association with the Israel Society of Cardiothoracic Surgery

22-23 April 2013, ICC International Convention Center, Jerusalem

Contemporary Trends in Treatment of STEMI

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DISCLOSURES

None

Background

The treatment of patients with STEMI has undergone dramatic changes over the past decade due to the results of large scale clinical trials which have shown the effectiveness of several modalities including:

1. Short door to balloon time
2. Radial approach
3. Anti-platelet loading
4. Aspiration thrombectomy
5. DES use.

Aims

The objectives of this study were to describe contemporary, as well as changing, in the use of these modalities in STEMI patients from a large data base registry.

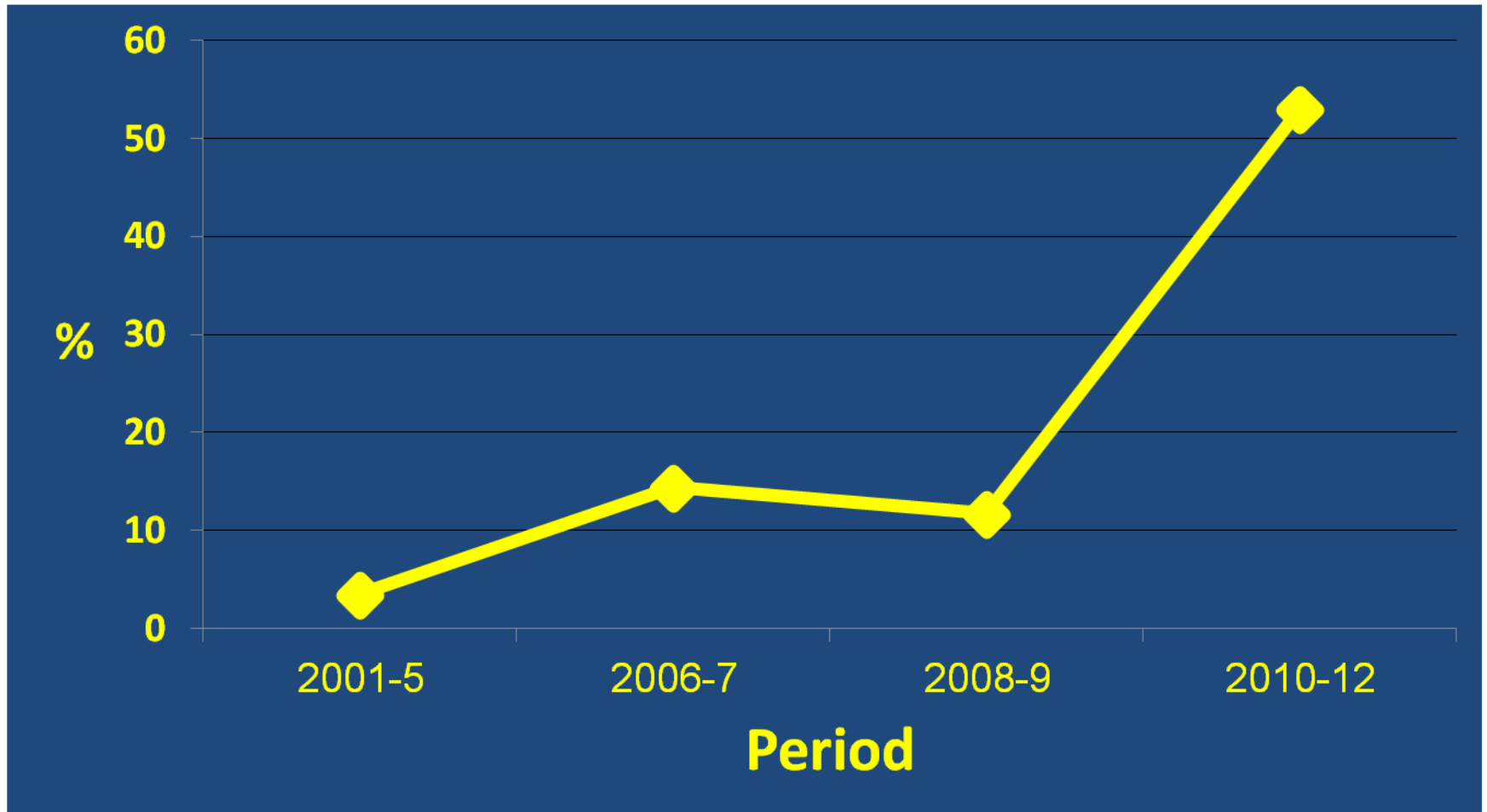
Methods

- **Prospective registry of all STEMI pts undergoing Emergency PCI starting 1/2001.**
- **Pts included with STEMI treated with primary PCI within 12 hours of symptom onset.**
- **Excluding pts presenting with cardiogenic shock.**
- **Detailed Clinical and Angiographic data are collected.**
- **In-hospital and long term follow-up: out-patients clinic & phone call.**
- **All end points confirmed.**
- **Patients were grouped into four periods:
2001-2005; 2006-2007; 2008-2009; 2010-2012.**

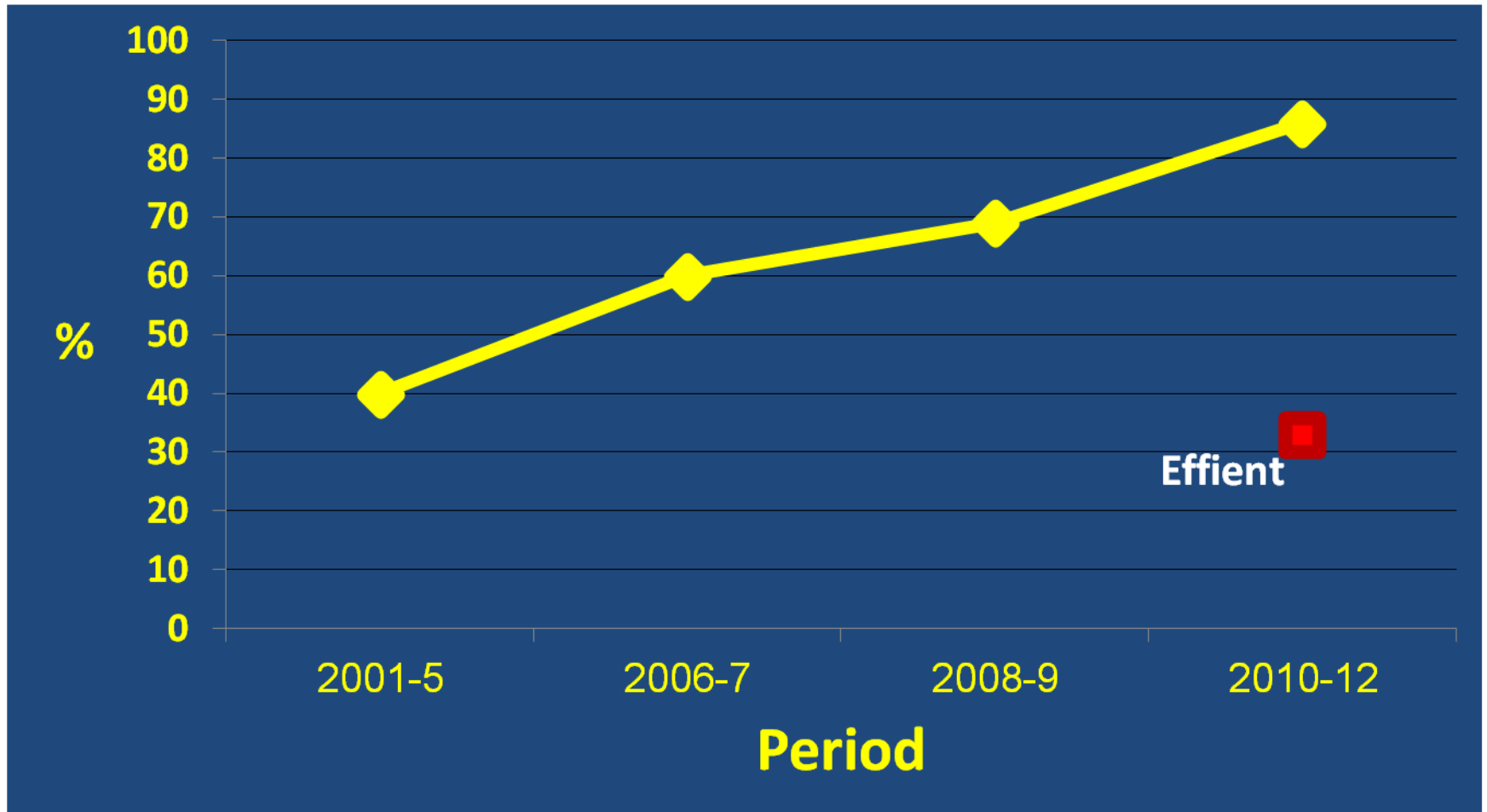
Results

	2001-2005 N=770	2006-2007 N=383	2008-2009 N=366	2010-2012 N=416	P Value
Age	61±13	60±12	61±13	61±13	0.5
Male	78%	85%	81%	84%	0.05
Anterior AMI	48%	47%	49%	40%	0.01
Door-Balloon [min]	102±120	90±92	108±120	90±78	0.2
Median [25-75%]	60[60-120]	60[60-120]	60[60-120]	60[36-120]	

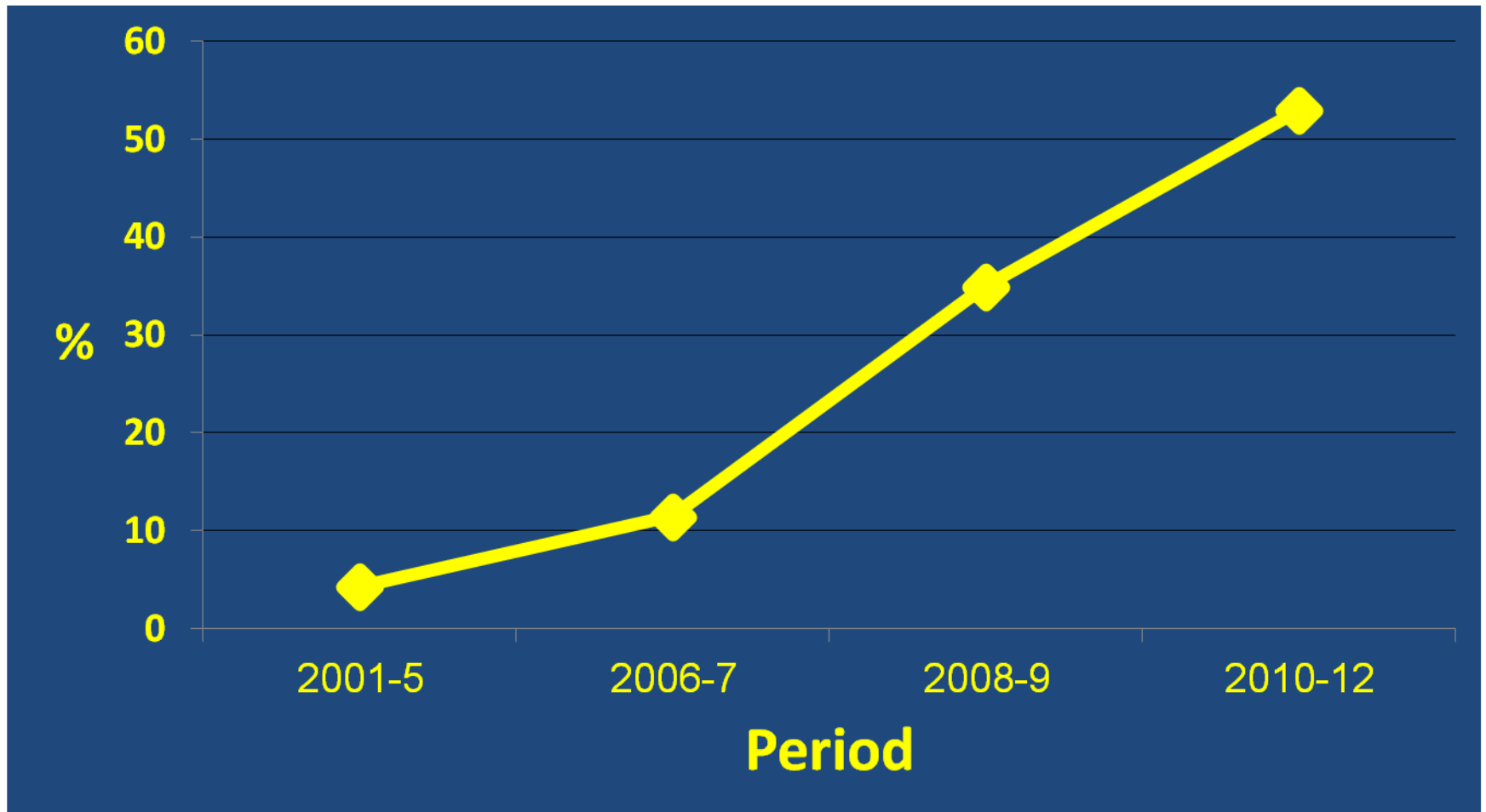
Radial approach



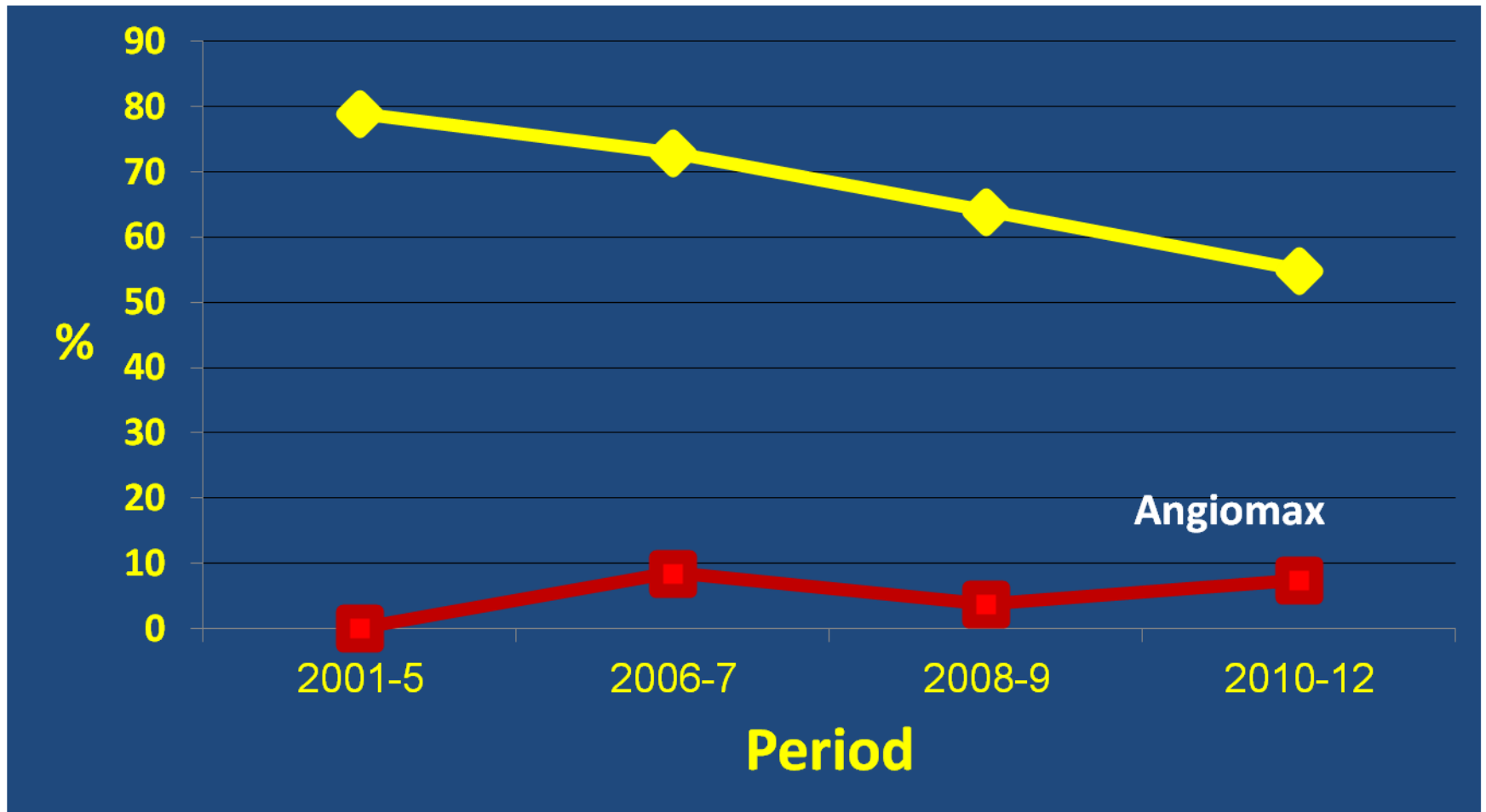
Anti-platelet loading



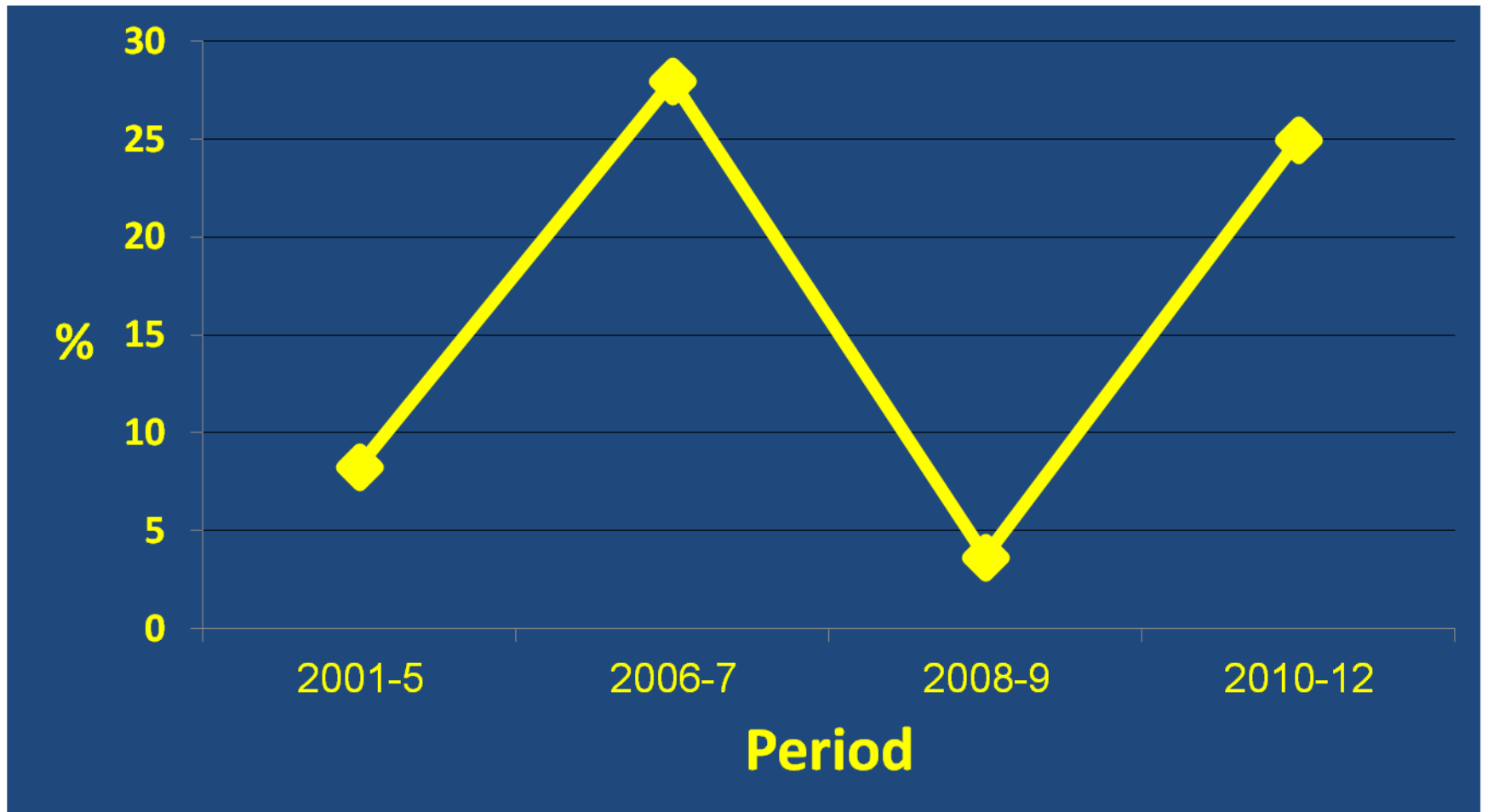
Aspiration thrombectomy



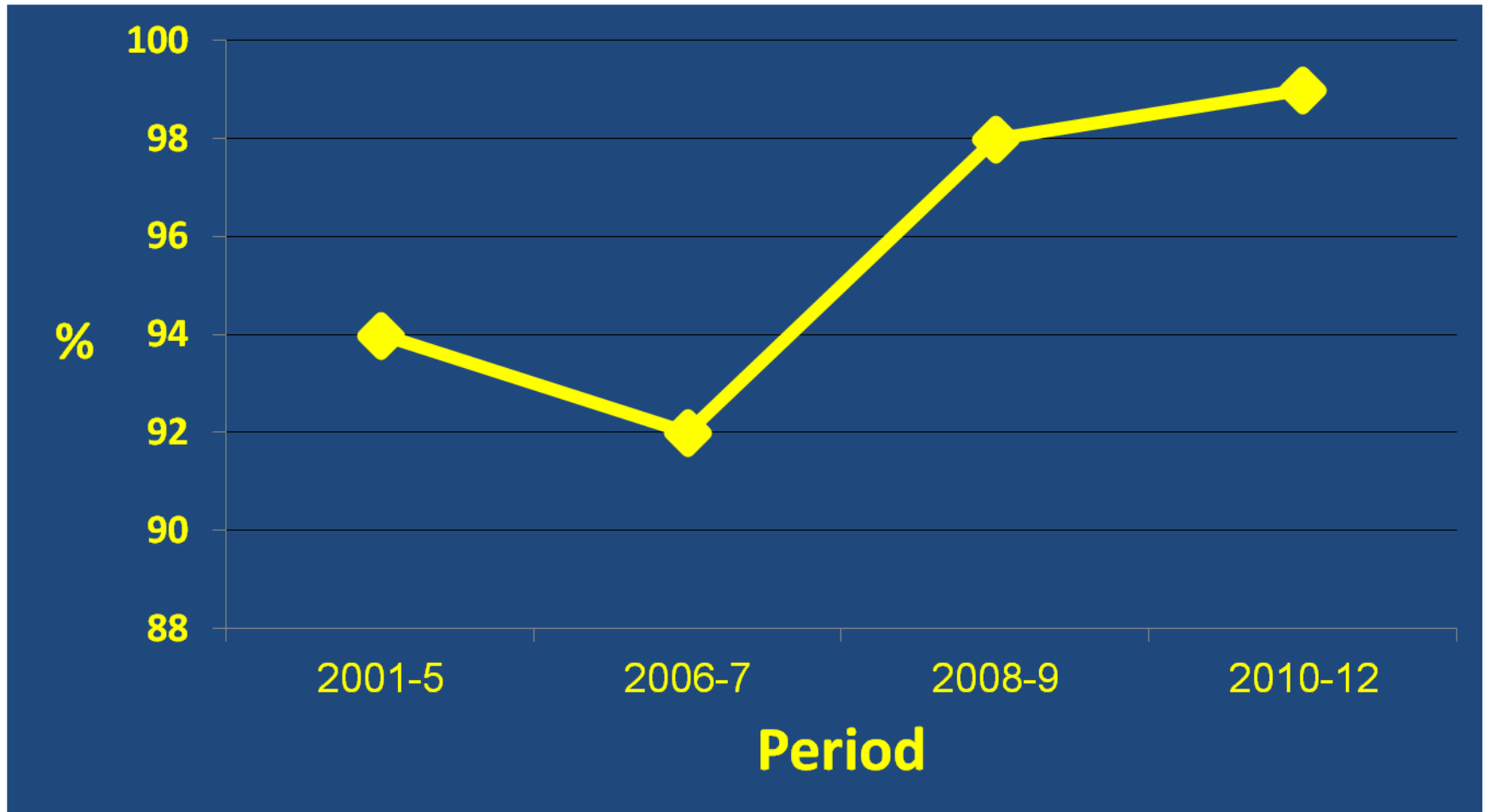
2B/3A Antagonist/Angiomax



DES use

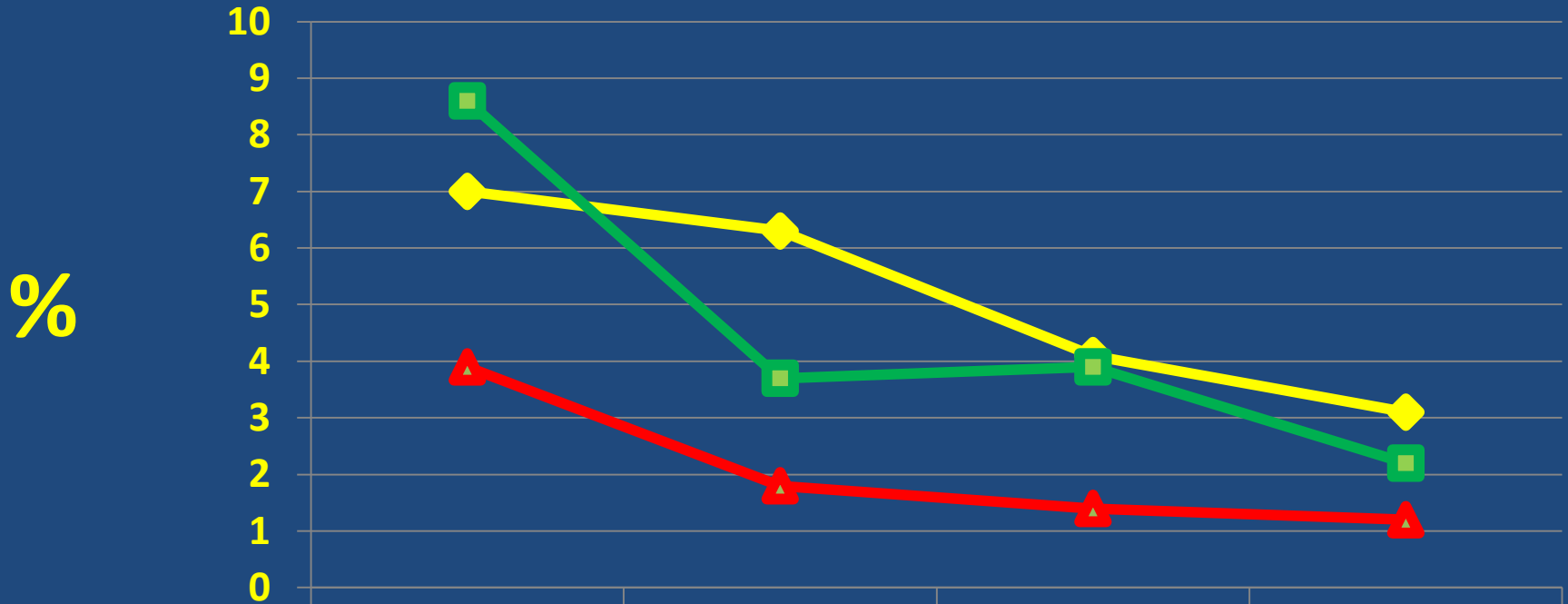


Successful PCI



One year outcomes

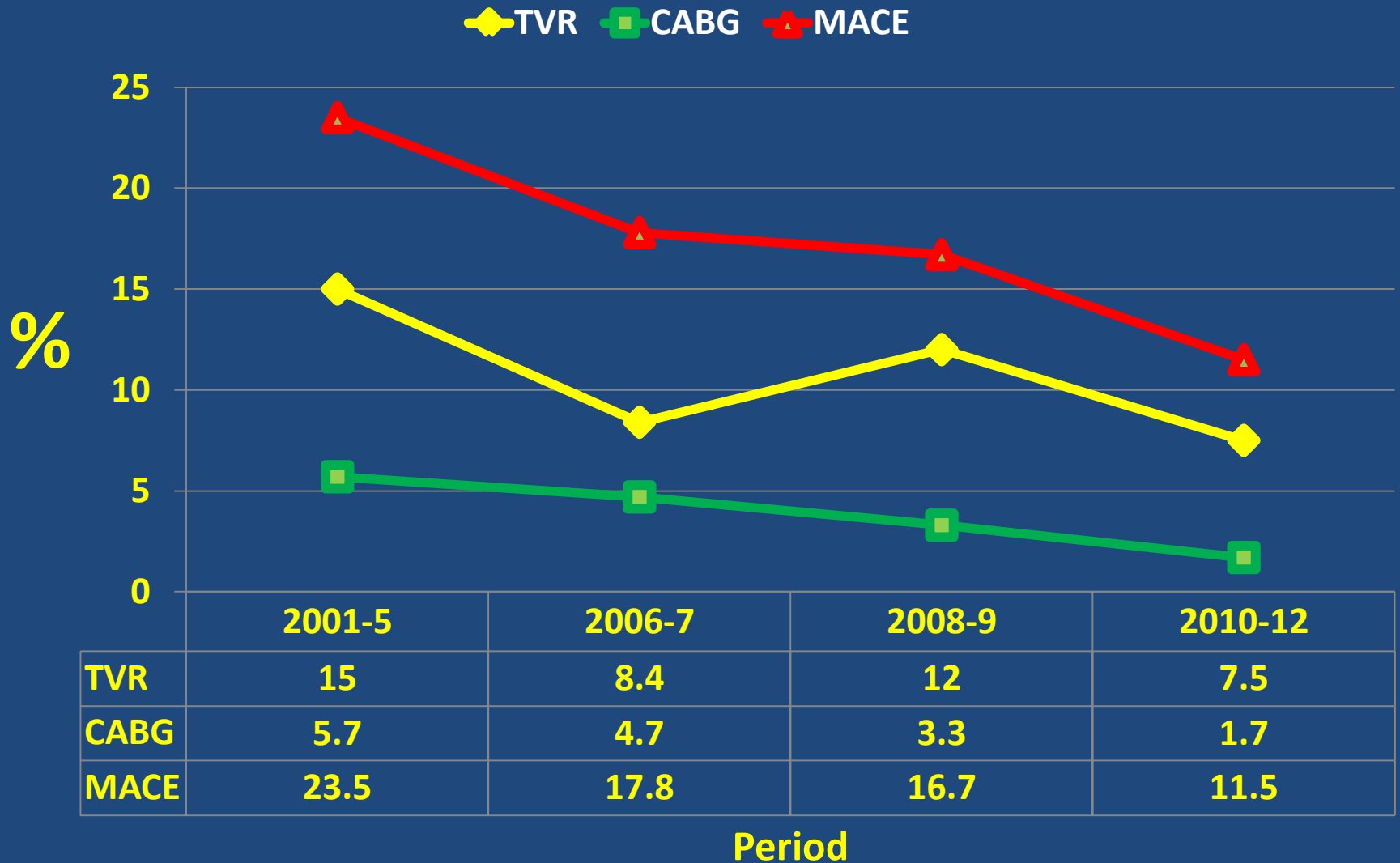
◆ Death ■ Re-MI ▲ Stent Thrombosis



	2001-5	2006-7	2008-9	2010-12
Death	7	6.3	4.1	3.1
Re-MI	8.6	3.7	3.9	2.2
Stent Thrombosis	3.9	1.8	1.4	1.2

Period

One year outcomes



Conclusion

The present results suggest:

- 1. Marked increases over time in the use of evidence-based therapies in patients hospitalized with STEMI.**
- 2. The improvement of clinical outcomes may be related to the implementations of these modalities.**