

The Euro CTO Club – Aims, Objectives and Data Collected

Nicolaus Reifart

Bad Soden

Germany

*EuroCto Club
Founding Meeting*

Paris 14.12.2006

Success 2006



Joachim Büttner

Gerald Werner

Dariusz Dudek

Jaques Koolen

Hans Bonnier

George Sianos

Nicolaus Reifart

Alfredo Galassi

2006.12.14

Goals

Promote angioplasty for treatment of CTO in Europe

- Exchange experience among the most experienced;
- Study technologies and strategies,
- Draw information from an own registry,
- Issue "state of the art" recommendations.
- Teaching courses

AIM

highlight :

- *misconceptions in clinical indications,*
- *outdated technical choices,*
- *inadequacies in operator training, performance and centre qualification*
- *impair the success rates made possible with contemporary techniques*

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European perspective in the recanalisation of Chronic Total Occlusions (CTO): consensus document from the EuroCTO Club

Carlo Di Mario^{1*}, MD, PhD, FRCP, FESC; Gerald S. Werner², MD, PhD, FESC; Georgios Sianos³, MD, PhD, FESC; Alfredo R. Galassi⁴, MD, FESC; Joachim Büttner⁵, MD, PhD, FESC; Dariusz Dudek⁶, MD, PhD, FESC; Bernard Chevalier⁷, MD; Thierry Lefevre⁸, MD, FESC; Joachim Schofer⁹, MD, PhD; Jacques Koolen¹⁰, MD, PhD, FESC; Horst Sievert¹¹, MD, PhD, FESC; Bernhard Reimers¹², MD, FESC; Jean Fajadet¹³, MD, FESC; Antonio Colombo¹⁴, MD, FESC; Anthony Gershlick¹⁵, MD, FRCP, FESC; Patrick W. Serruys³, MD, PhD, FESC; Nicolaus Reifart¹⁶, MD, PhD, FESC for the EuroCTO Club

1. Royal Brompton Hospital and Imperial College, London, United Kingdom; 2. Klinikum Darmstadt, Darmstadt, Germany; 3. Thoraxcentre, Erasmus, Medical Center, Rotterdam, The Netherlands; 4. Ospedale Ferrarotto, University of Catania, Catania, Italy; 5. Heart Centre, Bad Krozingen, Germany; 6. Jagellonian University, Cracow, Poland; 7. Centre Cardiologique du Nord, Saint-Denis, France; 8. Institut Hospitalier Jacques Cartier, Massy, France; 9. Hamburg University Cardiovascular Center, MVZ Prof. Mathey, Prof. Schofer GmbH, Hamburg, Germany; 10. Catharina Ziekenhuis, Eindhoven, The Netherlands; 11. Frankfurt, Germany; 12. Ospedale di Mirano, Venice, Italy; 13. Toulouse, France; 14. Centro Cuore Columbus and San Raffaele Hospital, Milan, Italy; 15. Univ. of Leicester, Leicester, United Kingdom; 16. Bad Soden, Germany

CTO DEFINITION

*TIMI 0 flow and angiographic
or clinical evidence of an
occlusion duration \geq 3 months*

EuroCTO Club: Consensus Document

TRAINING AND CENTRE/OPERATOR COMPETENCY

- *how to select appropriately patients for CTO treatment*
- *experience to avoid common mistakes in recanalisation*
- *2 years of training appear sufficient to work as independent primary operator,*

EuroCTO Club: Consensus Document

- *Complex CTOs require at least experience of 200 CTO cases*
- *Minimal number of 50 CTOs per year to maintain skills*
- *Limited number of CTO-operators and --centres with selection based on workload and audited success and complication rates.*

Stepwise Approach to CTO Training

Level 2: Easy CTO (operator experience >500 PCI including acute and recent occlusions) *estimated success 80-90 %*

Occlusion Age 3- 6 months

Stump, Straight RCA or LAD, Short (< 10 mm)

No diffuse disease

Distal vessel diameter well visible (orthograde or retrograde)

No major bridging collaterals

Stepwise Approach to CTO Training

Level 3 Moderate difficult CTO (operator experience >1000 PCI including 100 class II CTO)

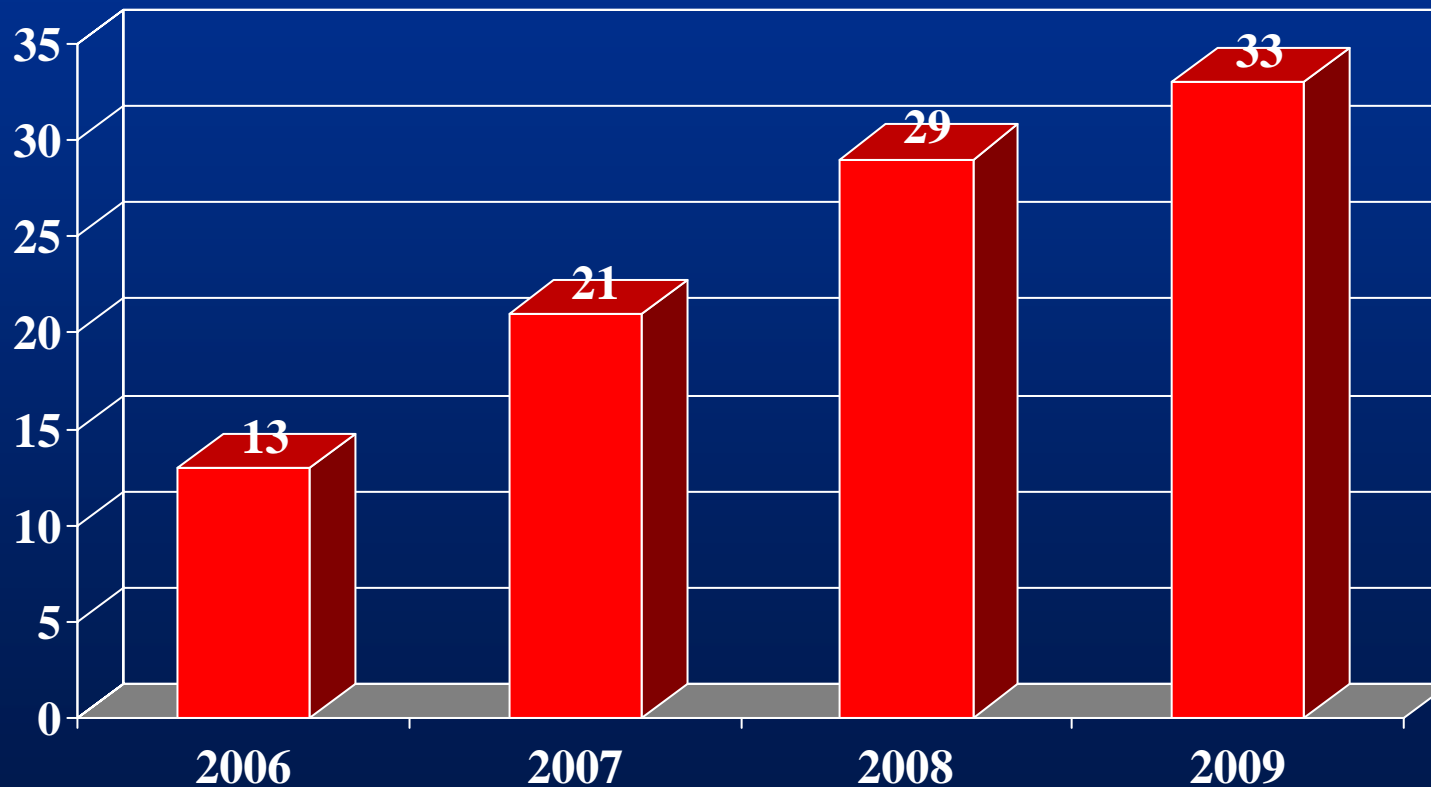
- >12 months, LCX Occlusion
- Moderate tortuosity, Length 10-20 mm
- Moderate calcification
- Strong bridging collaterals (caput medusae)
- Patient age > 80 years or extensive peripheral disease

Stepwise Approach to CTO Training

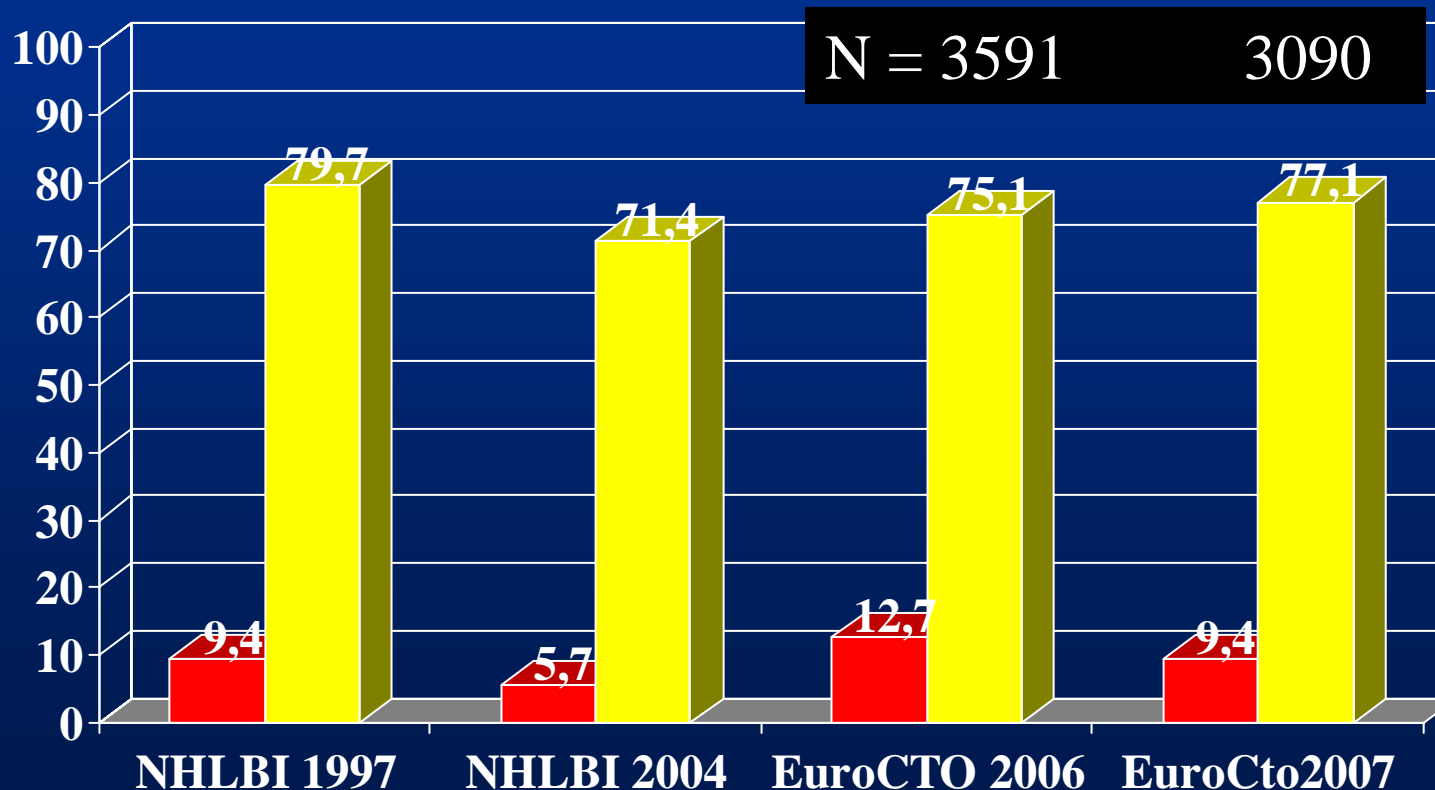
Level 4 Difficult CTO (operator experience 2500
PCI including 100 moderate severe occlusions)
estimated success 50-70%

- Occlusion age \gg 12 months
- Ostial occlusion without stump
- Occlusion at origin of sidebranch
- Length $>$ 20 mm
- Occlusion in bend $>$ 60 degr or 2x $>$ 45 degr
- Severe, diffuse calcification

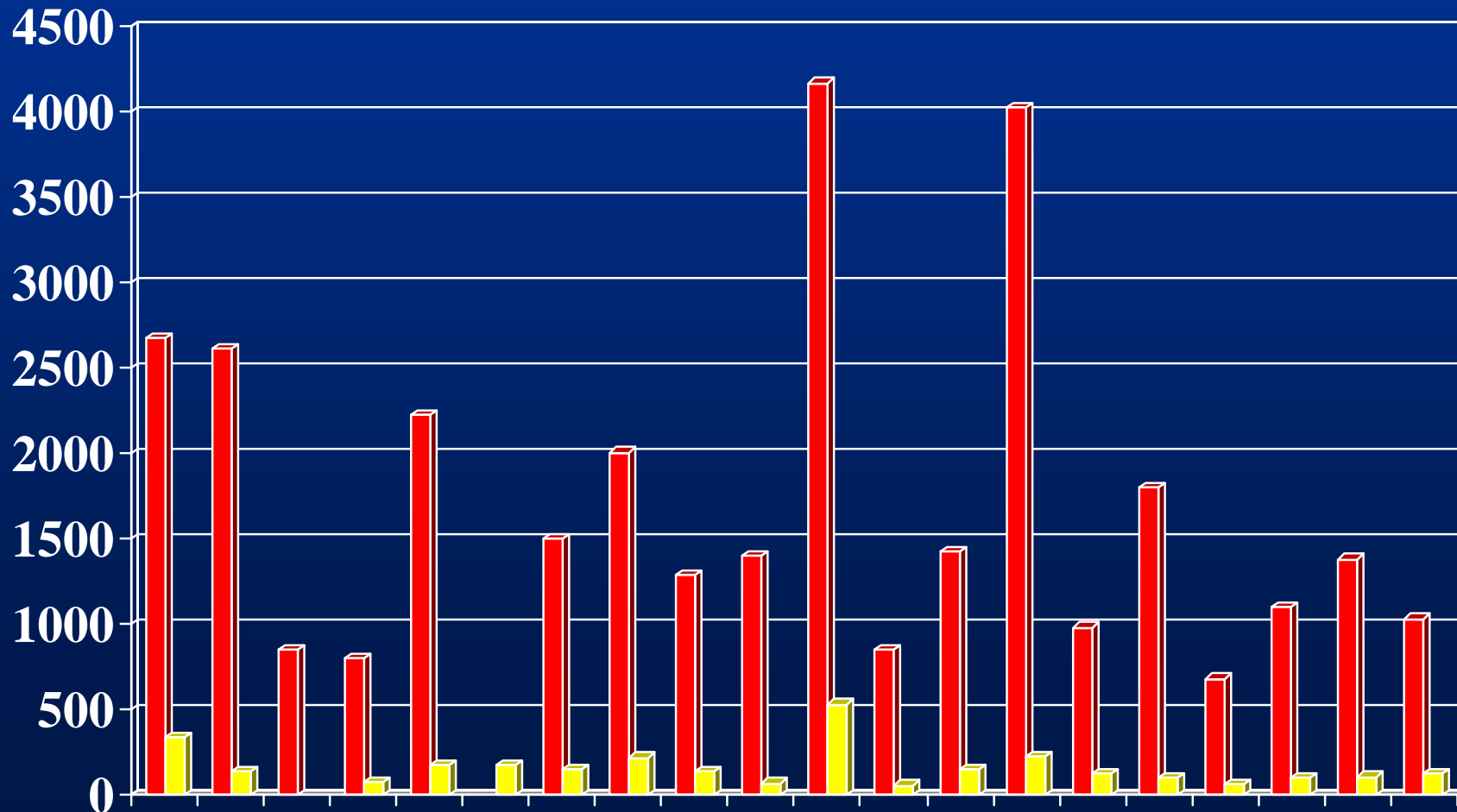
Euro CTO Club membership



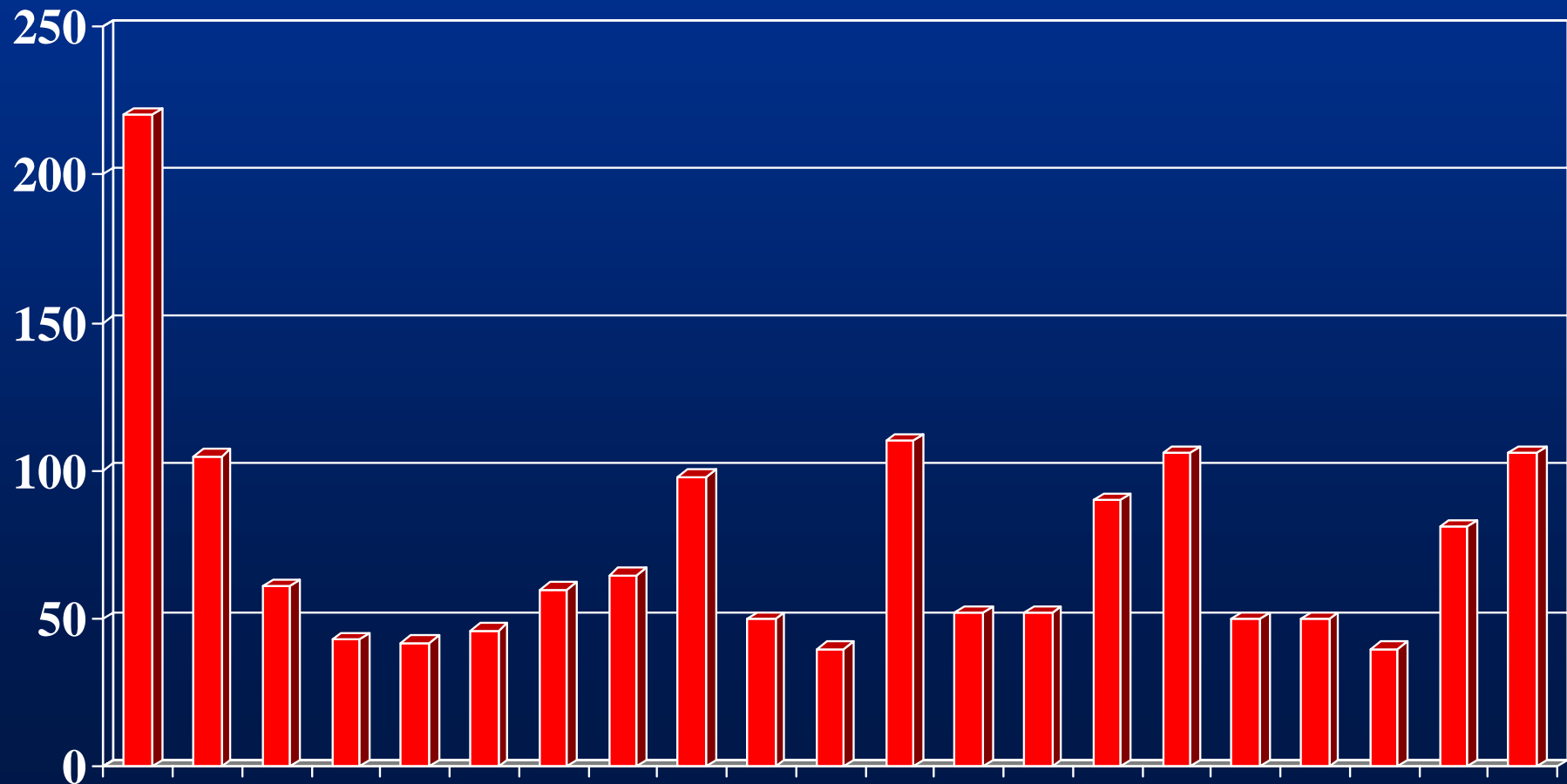
Attempted CTOs of all PCIs (Institution) and Success (personal)



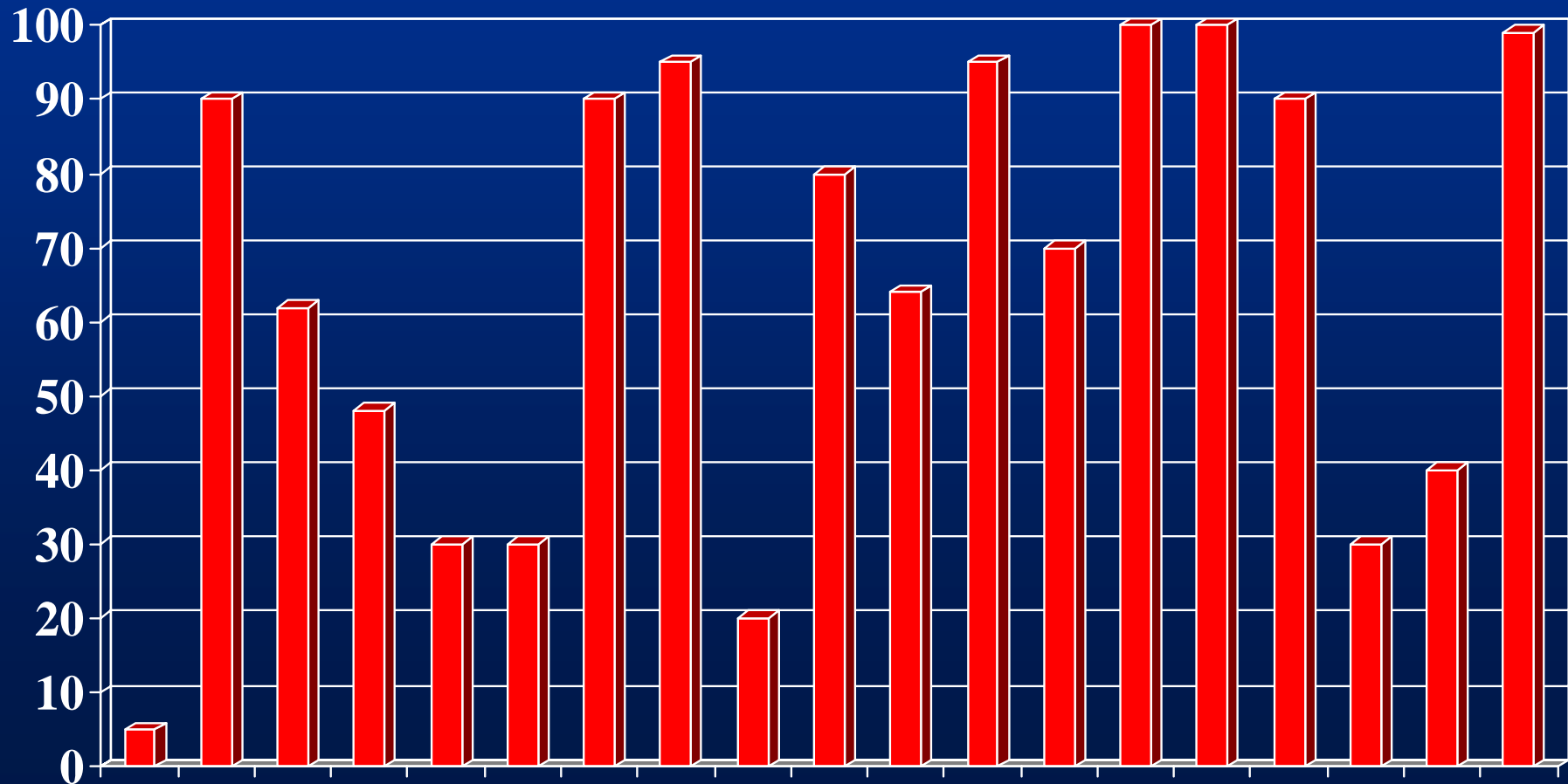
2007: 21 Centers PCI: 32801
CTO: 3090 (9.4%)



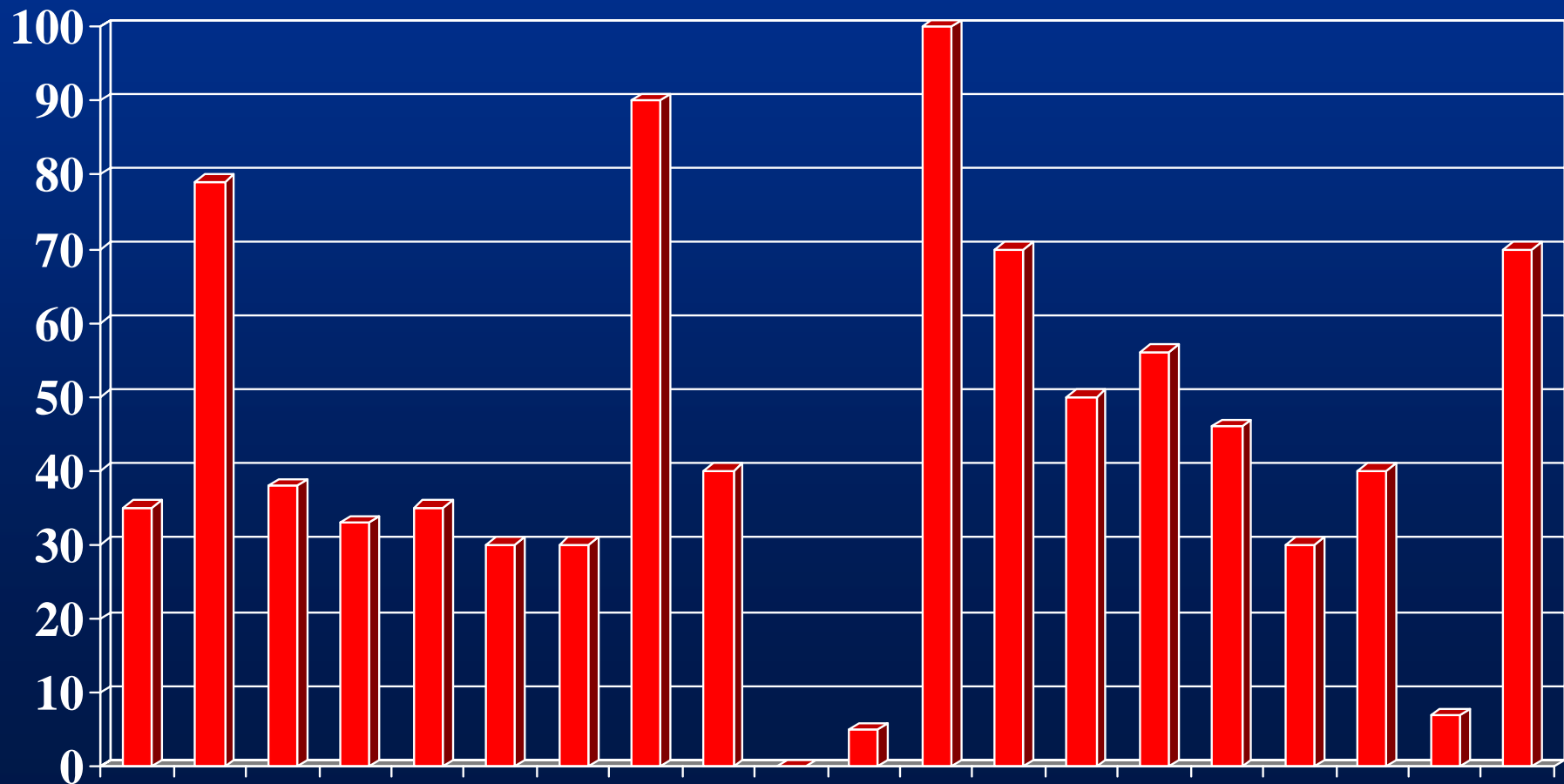
Personal CTO Experience 2007: 1567 mean /operator 75



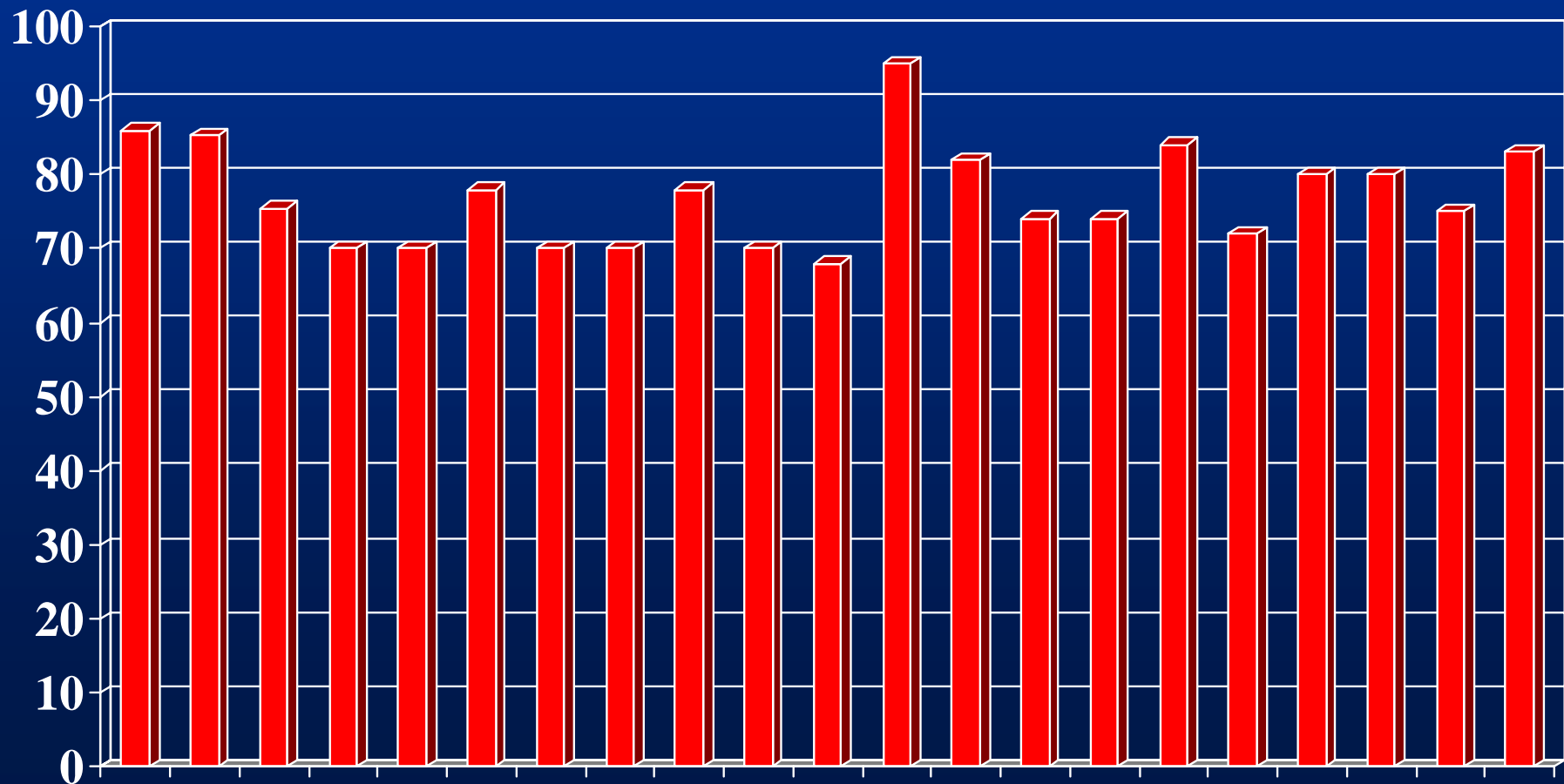
2007 OTW to begin with 65 %



Contralateral injection 2007: 44.2%

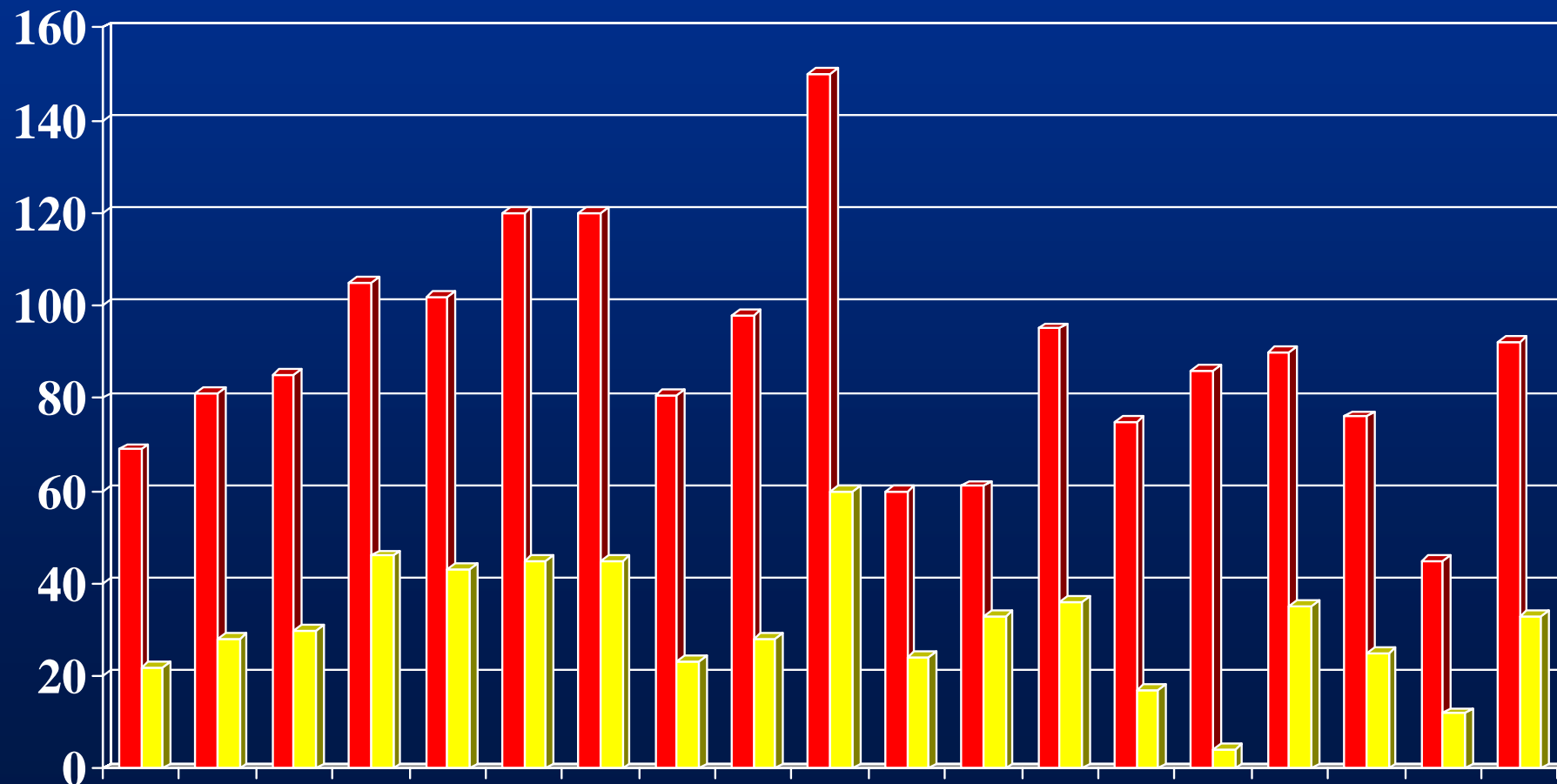


Success 2007 77.1 %



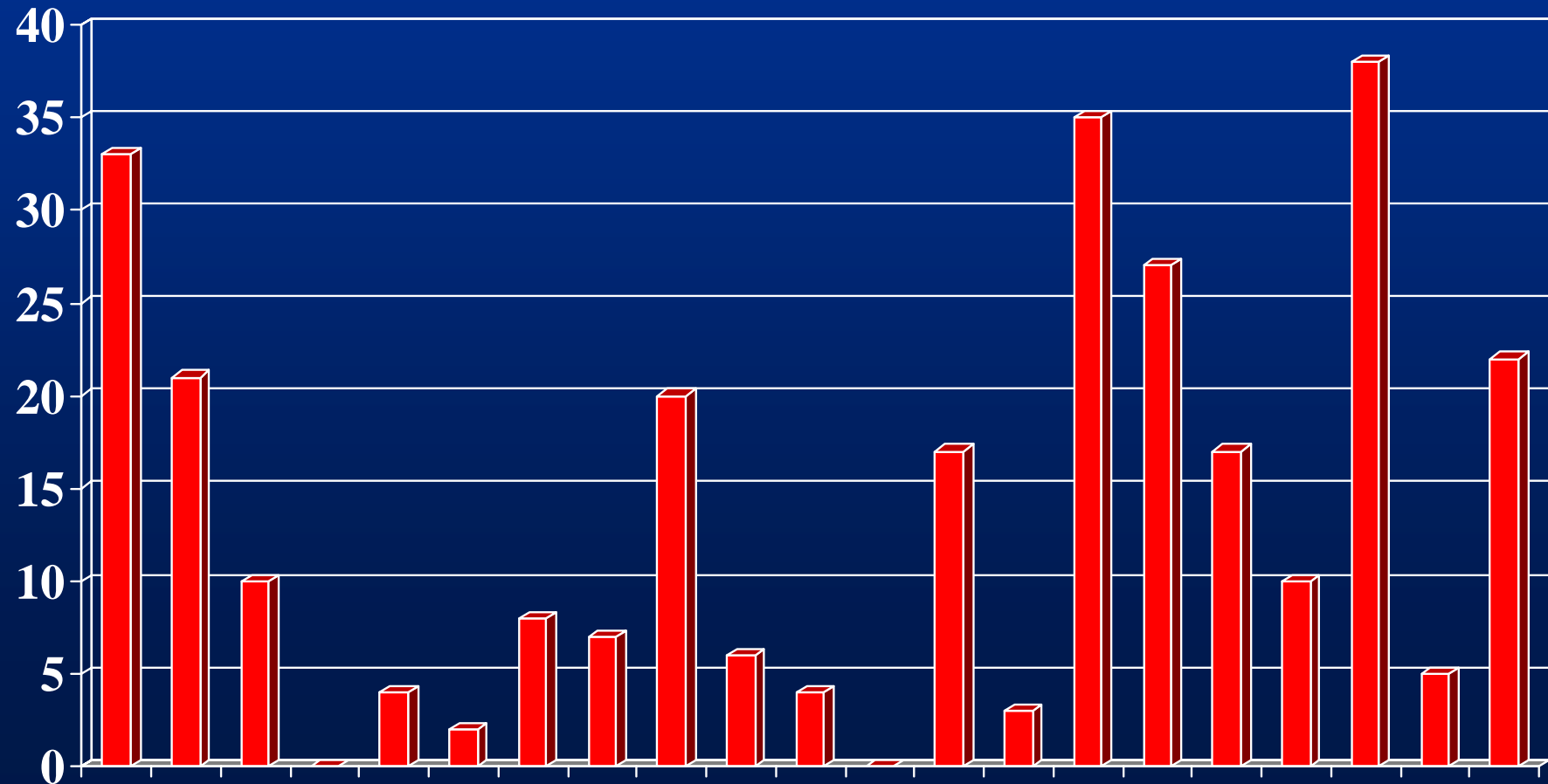
Procedure and X-ray time 2007

88,9 min / 33,4 min



Retrograde Cases 2007

289 cases



European experience with the retrograde approach for the recanalisation of coronary artery chronic total occlusions. A report on behalf of the EuroCTO club

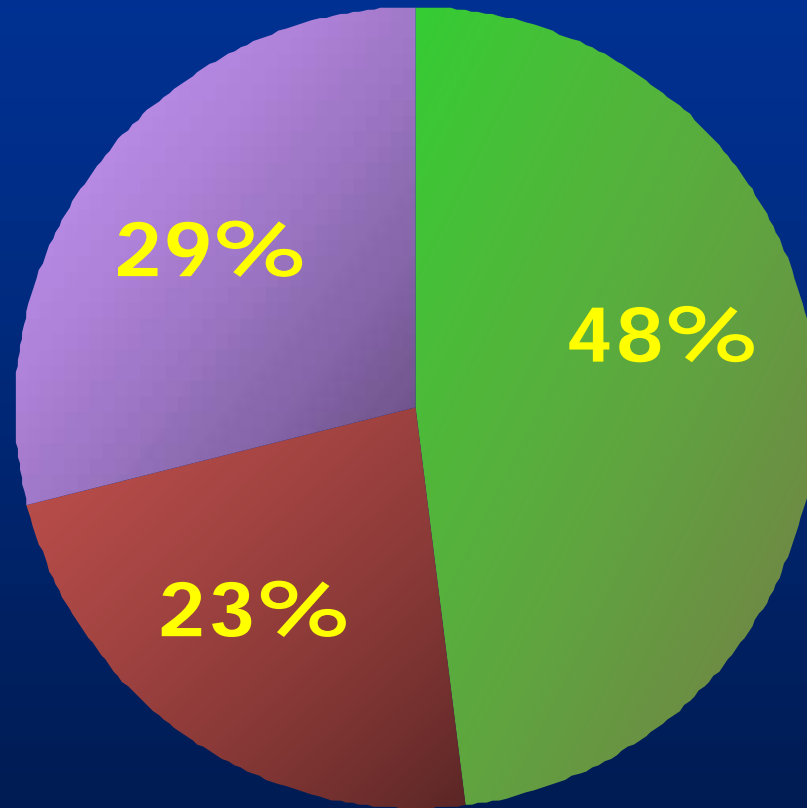
**Georgios Sianos^{1*}, Peter Barlis^{1,2}, Carlo Di Mario², Michail I. Papafaklis¹, Joachim Büttner³,
Alfredo R Galassi⁴, Joachim Schofer⁵, Gerald Werner⁶, Thierry Lefevre⁷, Yves Louvard⁷,
Patrick W Serruys¹, Nicolaus Reifart⁸**

1. Erasmus MC, Thoraxcenter, Rotterdam, The Netherlands; 2. Royal Brompton Hospital and Imperial College, London, United Kingdom; 3. Heart Centre, Bad Krozingen, Germany; 4. Ospedale Ferrarotto, University of Catania, Catania, Italy; 5. Hamburg University Cardiovascular Center, Hamburg, Germany; 6. Klinikum Darmstadt, Darmstadt, Germany; 7. Institut Cardiovasculaire Paris Sud, Massy, Paris, France; 8. Main Taunus Heart Institute, Bad Soden, Germany

Introduction

- 175 consecutive patients treated at 7 European Centers
- CTO defined as > 3 month occlusion duration and TIMI grade 0 flow within the occlusion
- All data prospectively collected and entered into a centralised database for analysis

Treatment Strategy

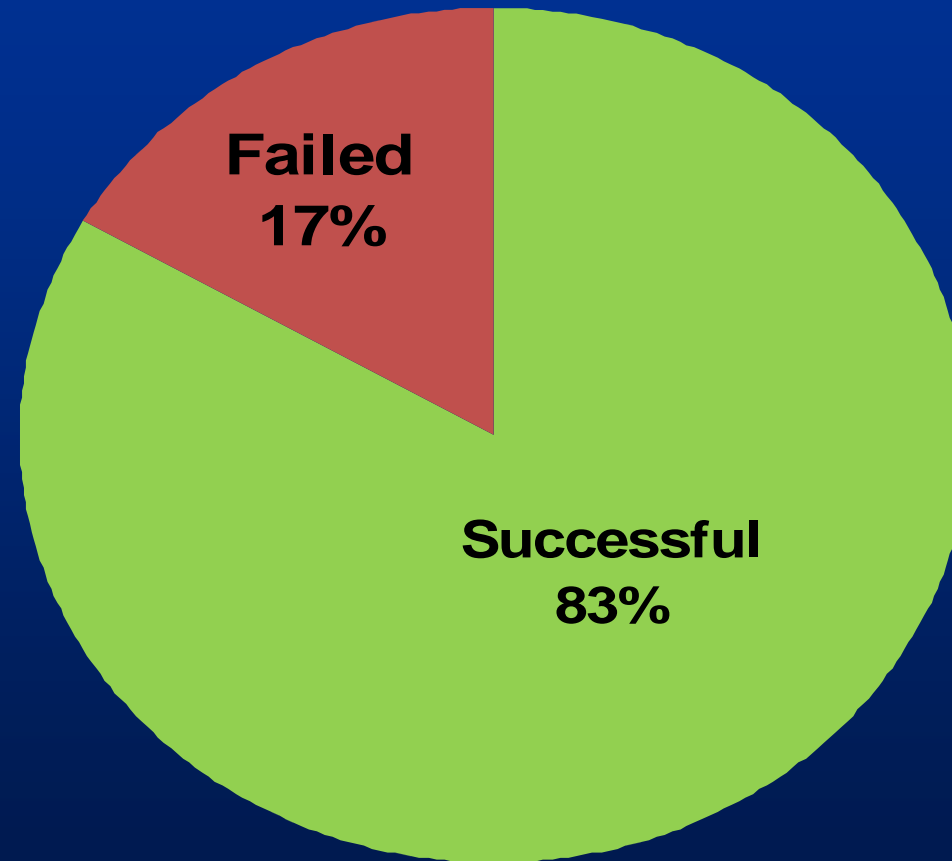


■ Primary

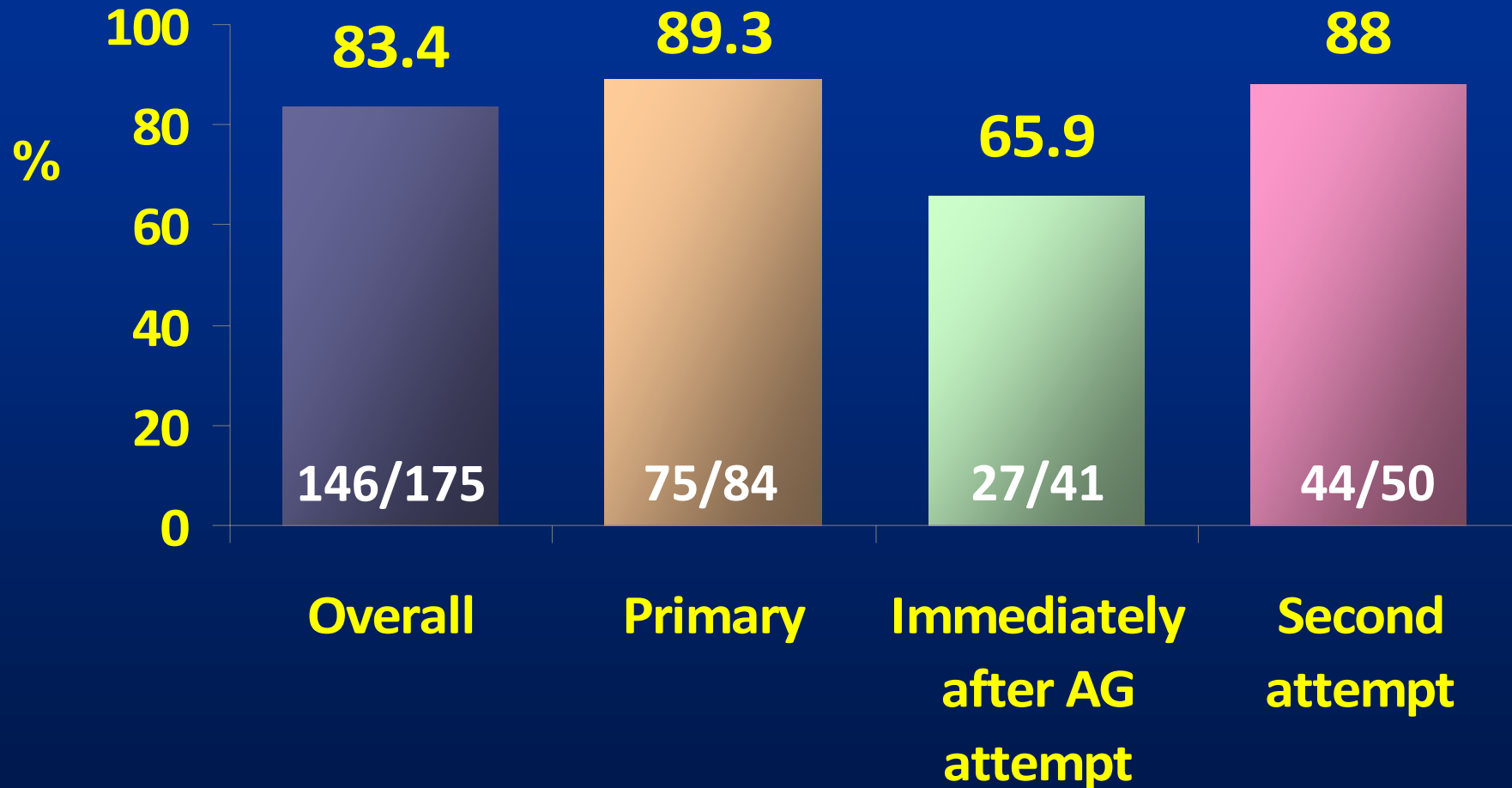
■ Immediately after antegrade failure

■ Second attempt after antegrade failure

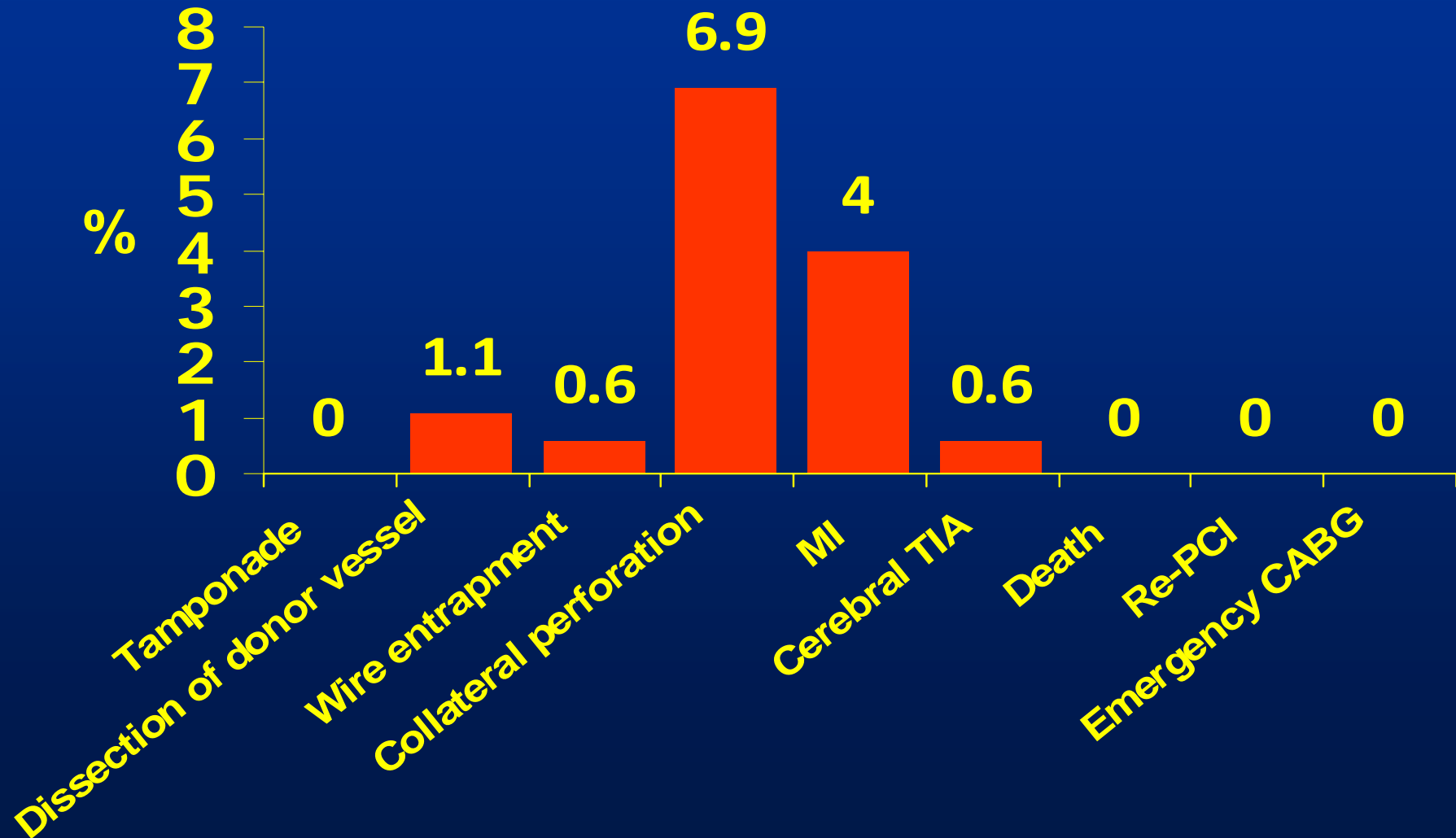
Overall Success



Overall success rates per strategy



Procedural and in-hospital outcomes



EuroCTO-club: Conclusions

- *In Europe CTO is most often left to medical therapy or CABG*
- *Europeans like to make everything simple, 6 French, radial, Monorail:*
- *Its mandatory to consider bilateral injection, OTW balloons, dedicated wires, parallel wire, IVUS guidance and retrograde approach*

EuroCTO-club: Conclusions

There is a Lack of adequate training for complex CTOs in Europe

- *Education, coaching, data collection, proposal of guidelines and research studies is the mission of the European CTO Club*

Taormina







Preliminary Program



THE EXPERTS "LIVE"
WORKSHOP 2009

www.eurocto.eu

Executive Board

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Darmstadt, Germany

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AHEPA University Hospital
Thessaloniki, Greece

Hans Bonnier
University Hospital Brussel
Brussel, Belgium



- 150 international participants

- State of the art lectures (Europe, Japan, USA)

- Highly teaching taped cases from the club-members

- A lot of discussion