

Coronary Artery Surgery 2004

Coronary Artery Surgery Results 2004

The Japanese Association for Coronary Artery Surgery

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Coronary Artery Surgery 2004

CABG in 2004

Total CABG : 13,633

Isolated CABG : 11,939

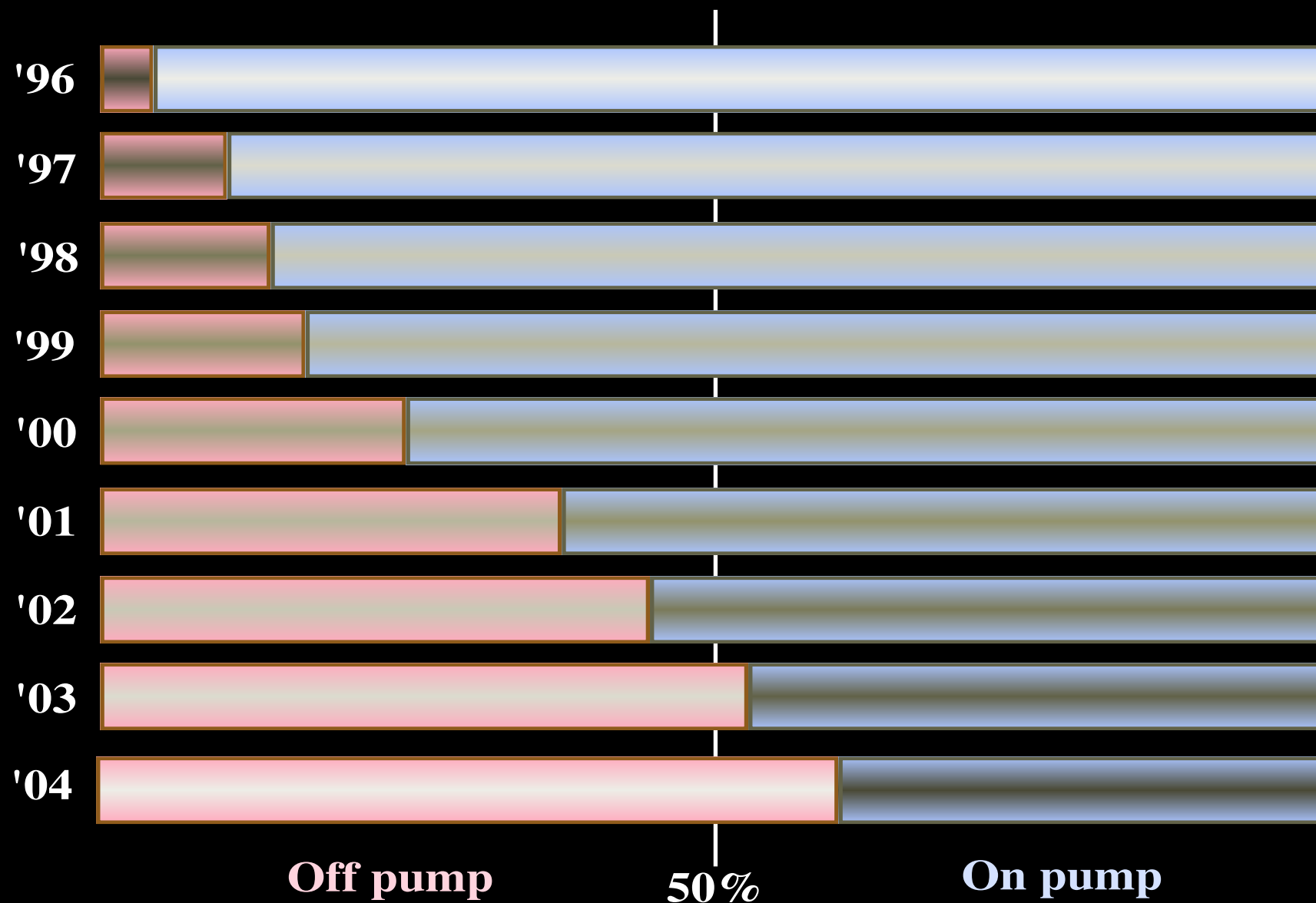
Initial elective CABG : 10,116

Off Pump CABG : 6,276

On Pump CABG : 3,840

Coronary Artery Surgery 2004

Off pump CABG vs on pump CABG



Coronary Artery Surgery 2004

Initial elective CABG

On pump (arrest) 3,392 (33.5%)

On pump (beating) 448 (4.4%)

Off pump (total) 6,276 (62.0%)

Off pump (complete) 6,039 (59.6%)

Conversion (off → on) 237 (2.3%)

3.8%

Total 10,116



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Mortality of initial elective CABG

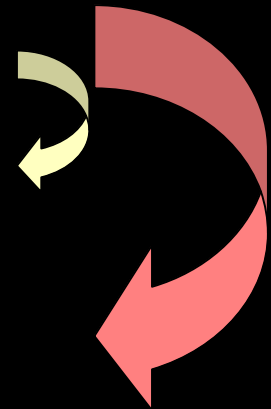
On pump (arrest) 0.97%

On pump (beating) 2.46%

Off pump (total) 0.97%

Off pump (complete) 0.88%

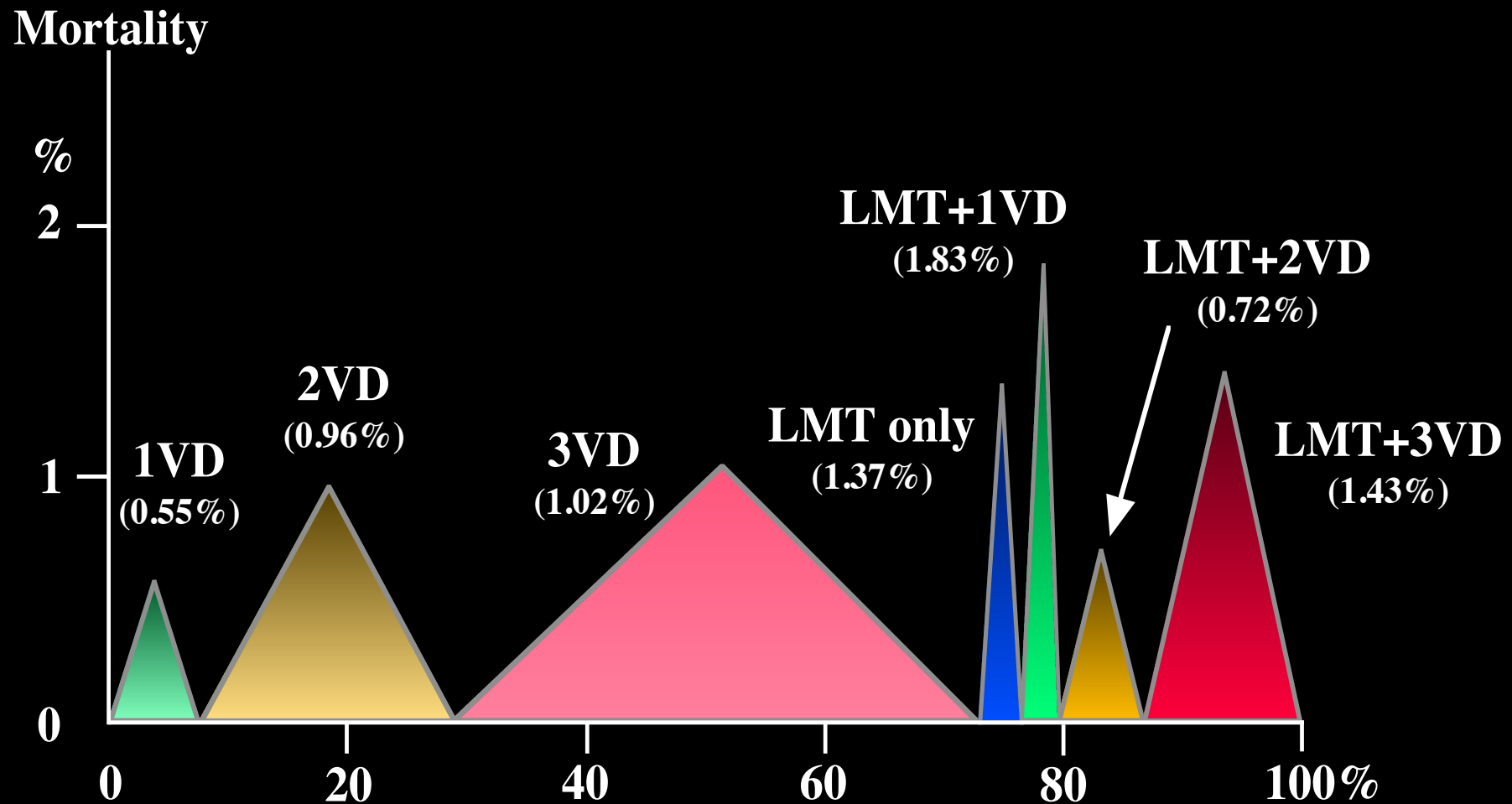
Conversion (off → on) 3.38%



Total 1.04%

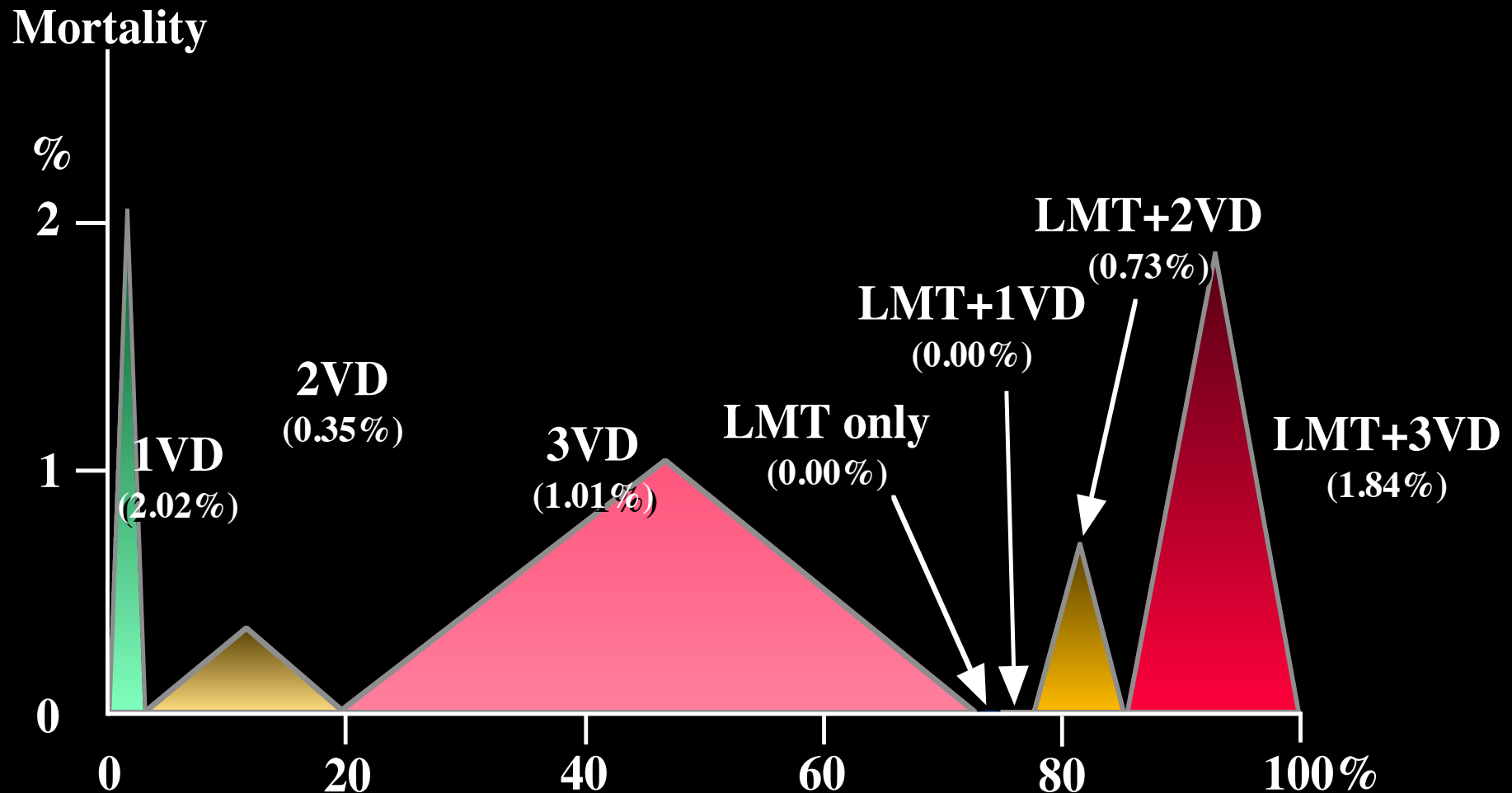
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Outcome according to number of diseased vessels
(10,116 initial elective CABG : mortality 1.04%)



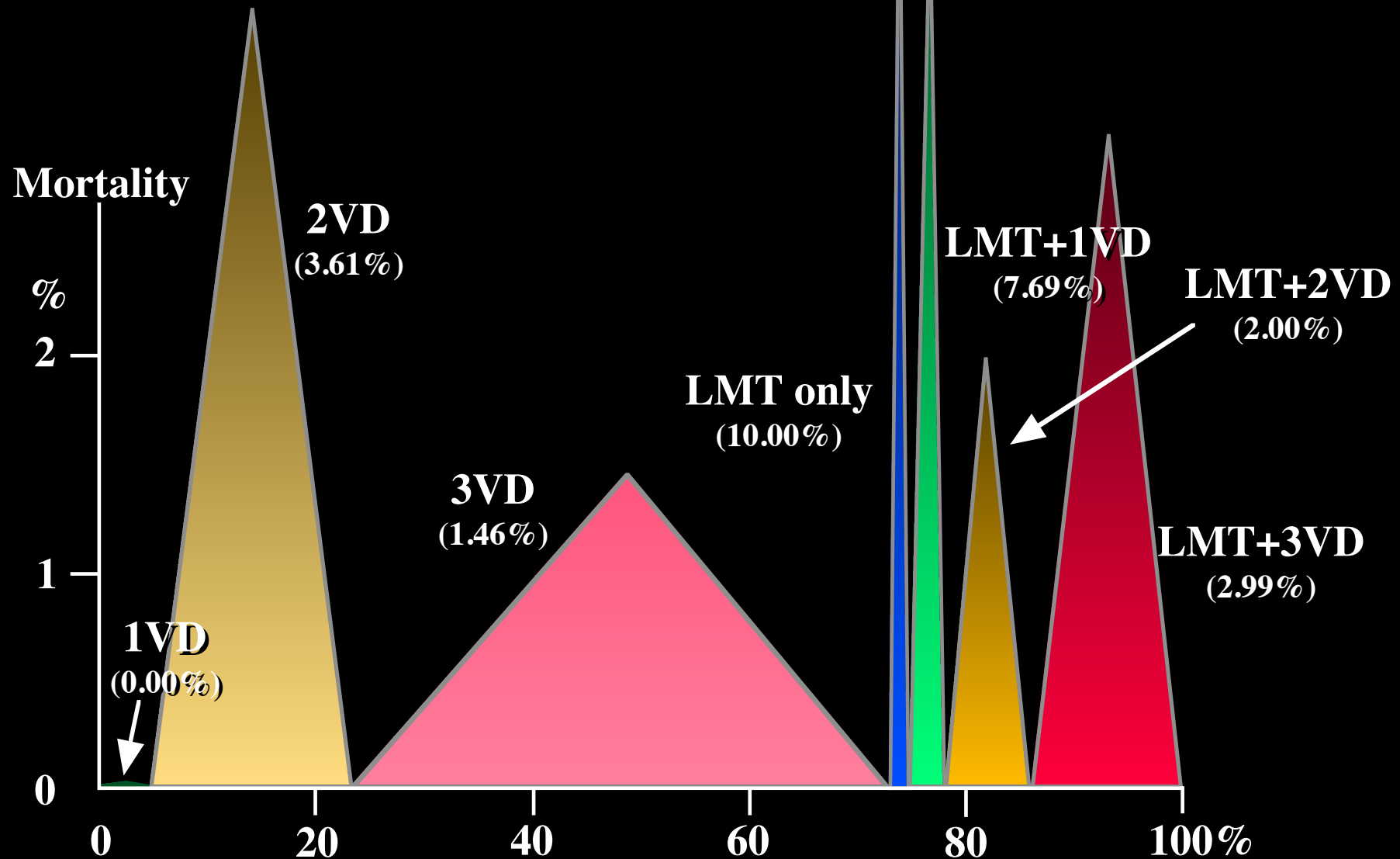
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**Outcome according to number of diseased vessels
(3,392 on pump CABG (arrest): mortality 0.97%)**



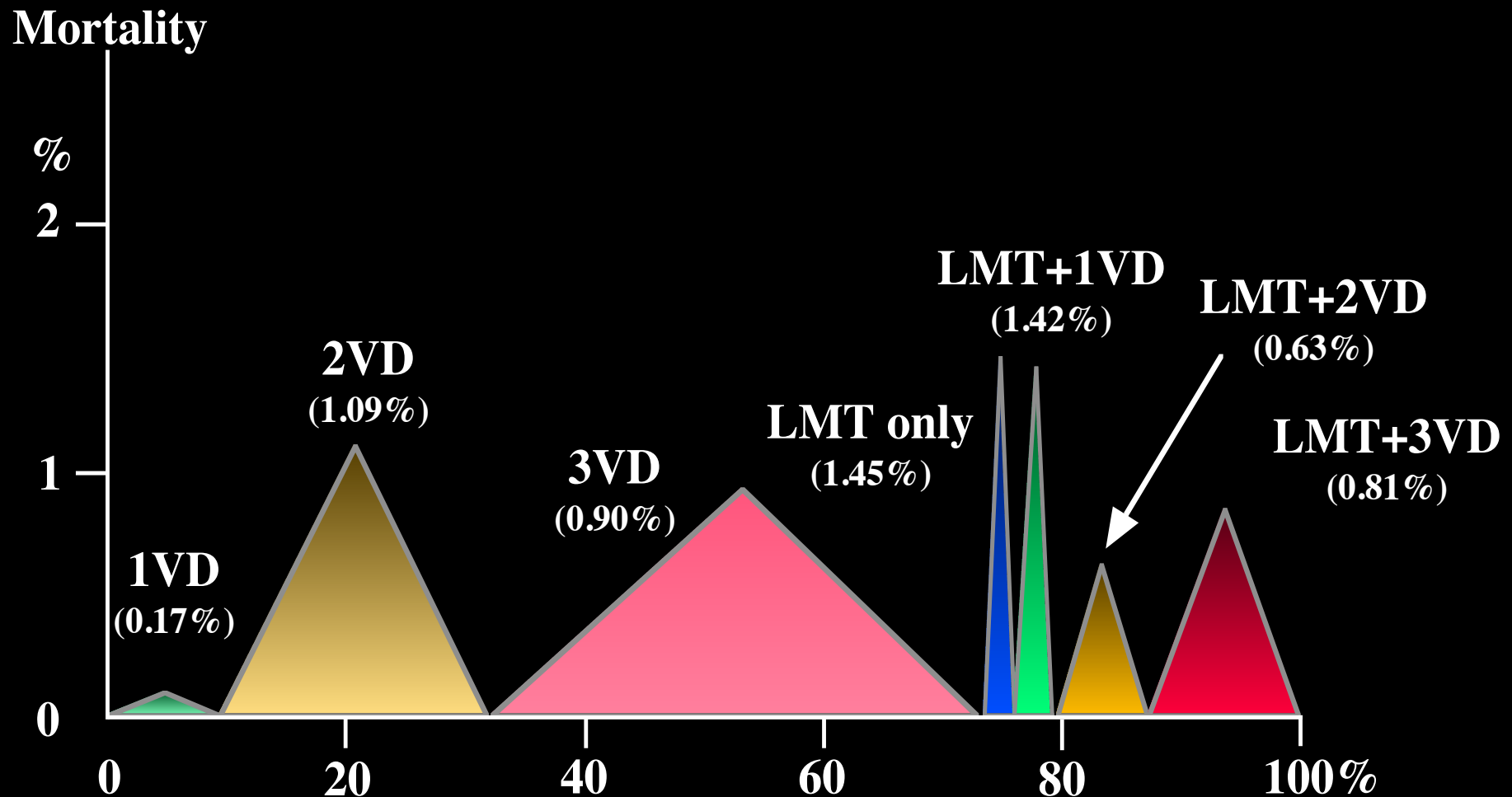
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Outcome according to number of diseased vessels
(448 on pump CABG (beating): mortality 2.46%)



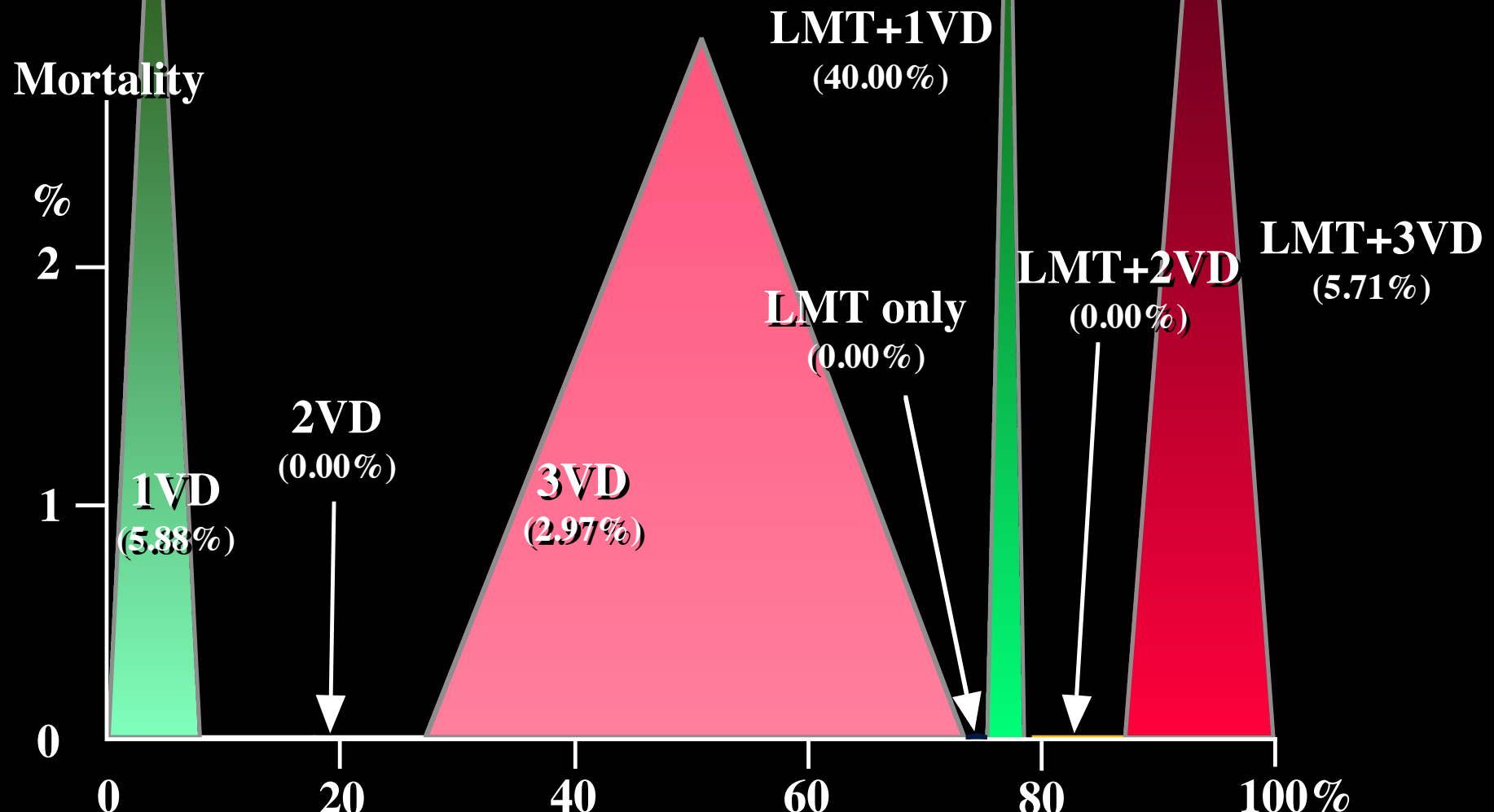
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Outcome according to number of diseased vessels
(6,039 off pump CABG (complete) : mortality 0.88%)



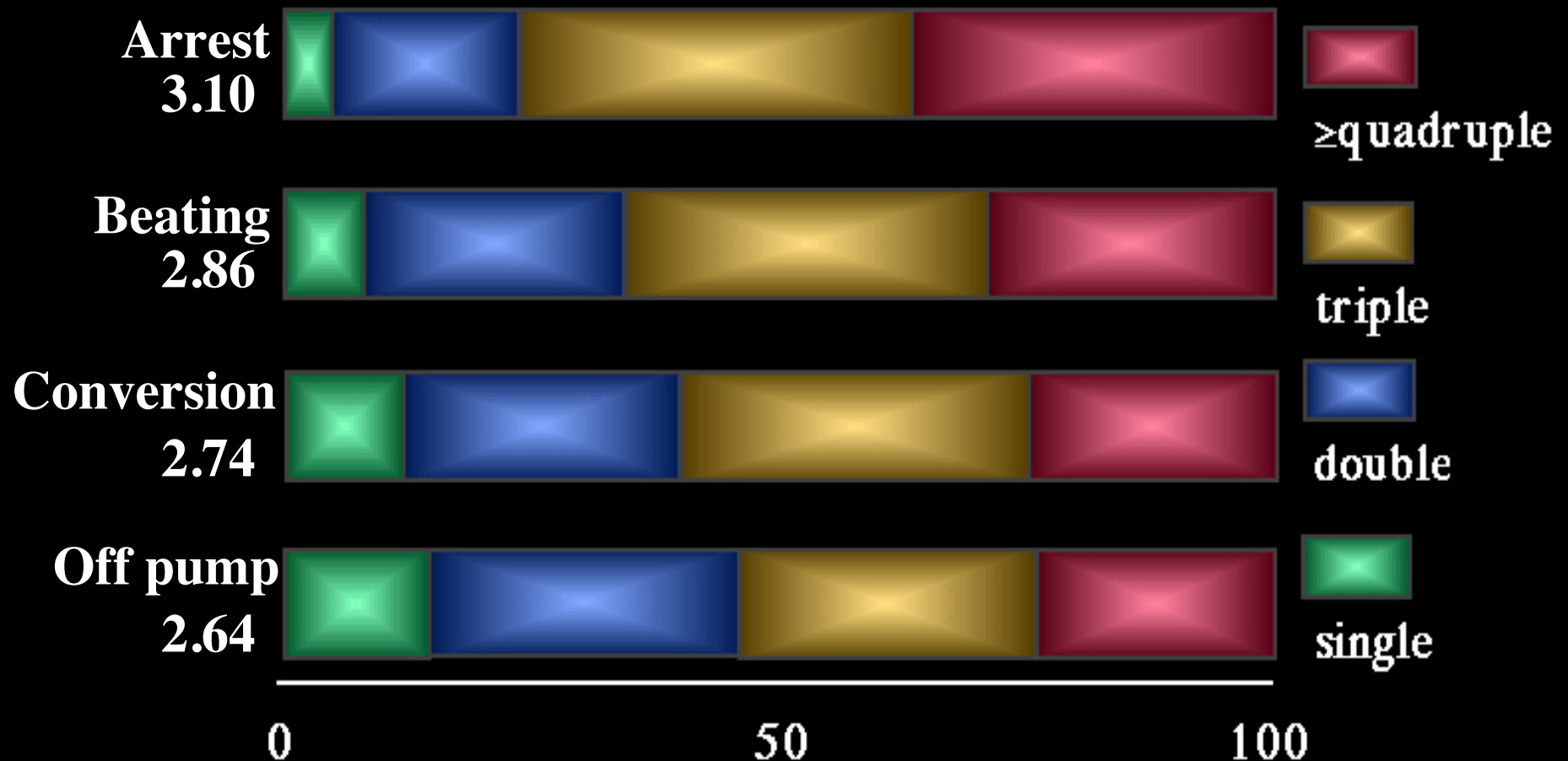
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Outcome according to number of diseased vessels
(237 conversion CABG : mortality 3.38%)



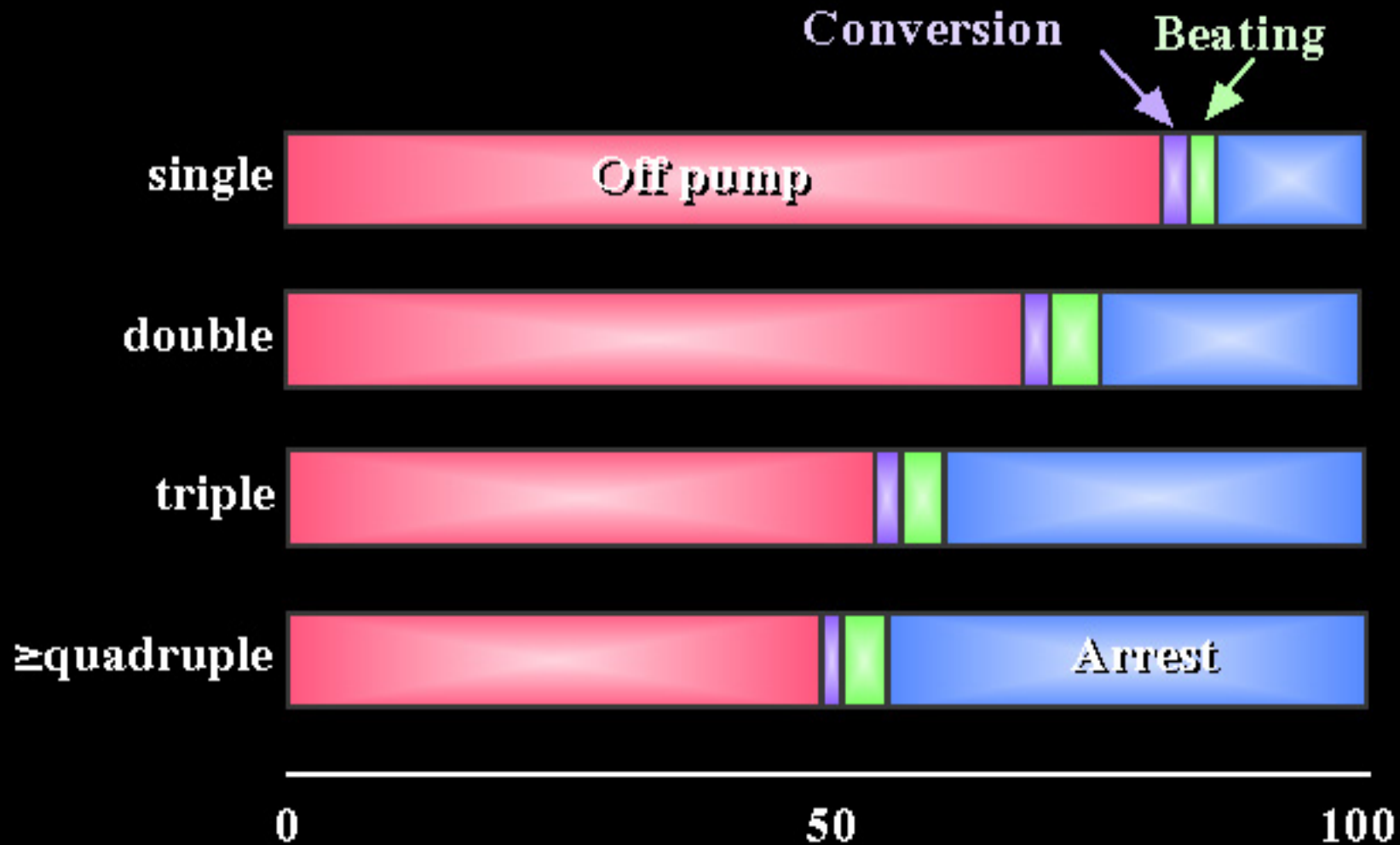
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Number of grafts in initial elective CABG
(mean number of grafts : 2.81)



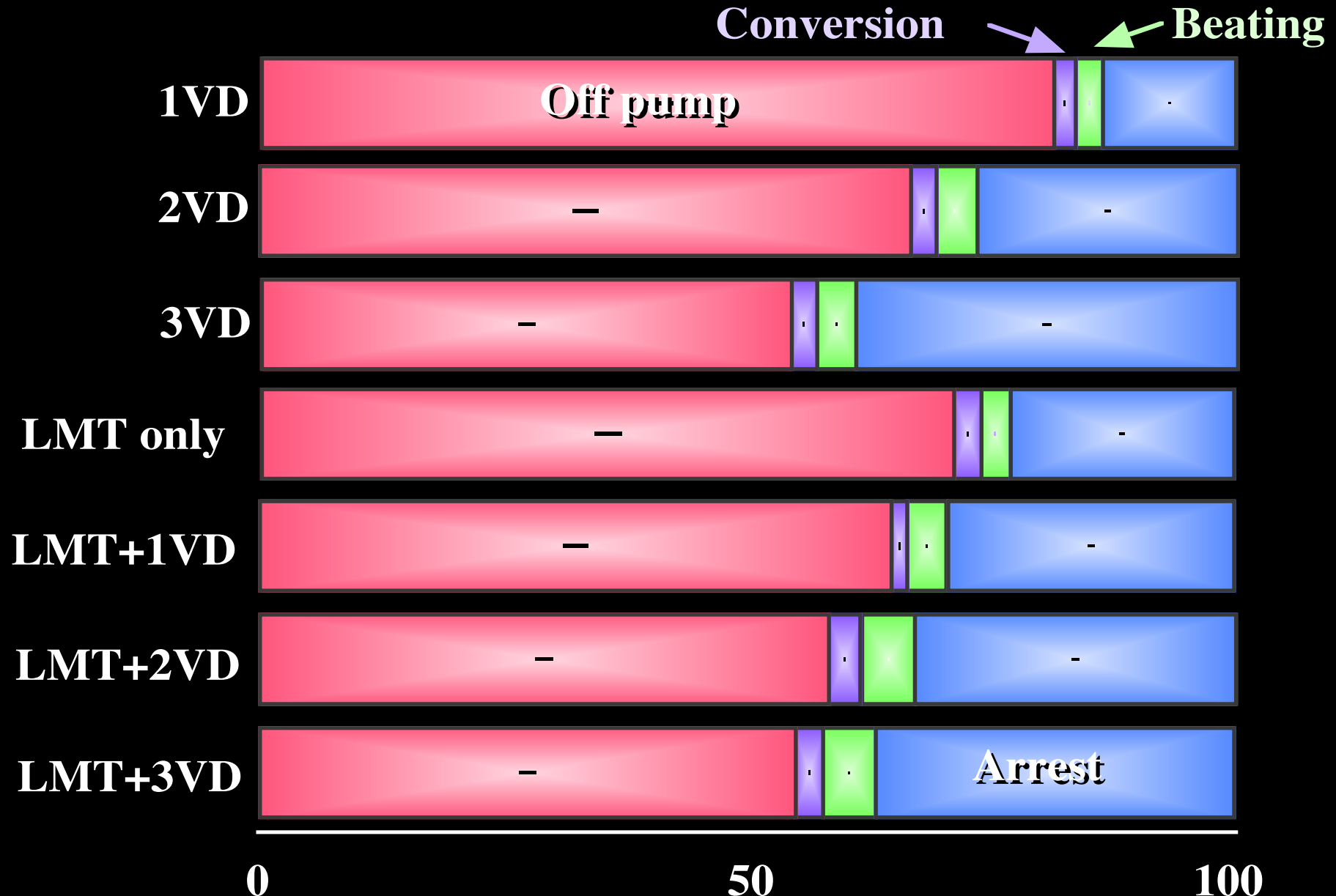
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Off pump CABG vs on-pump CABG



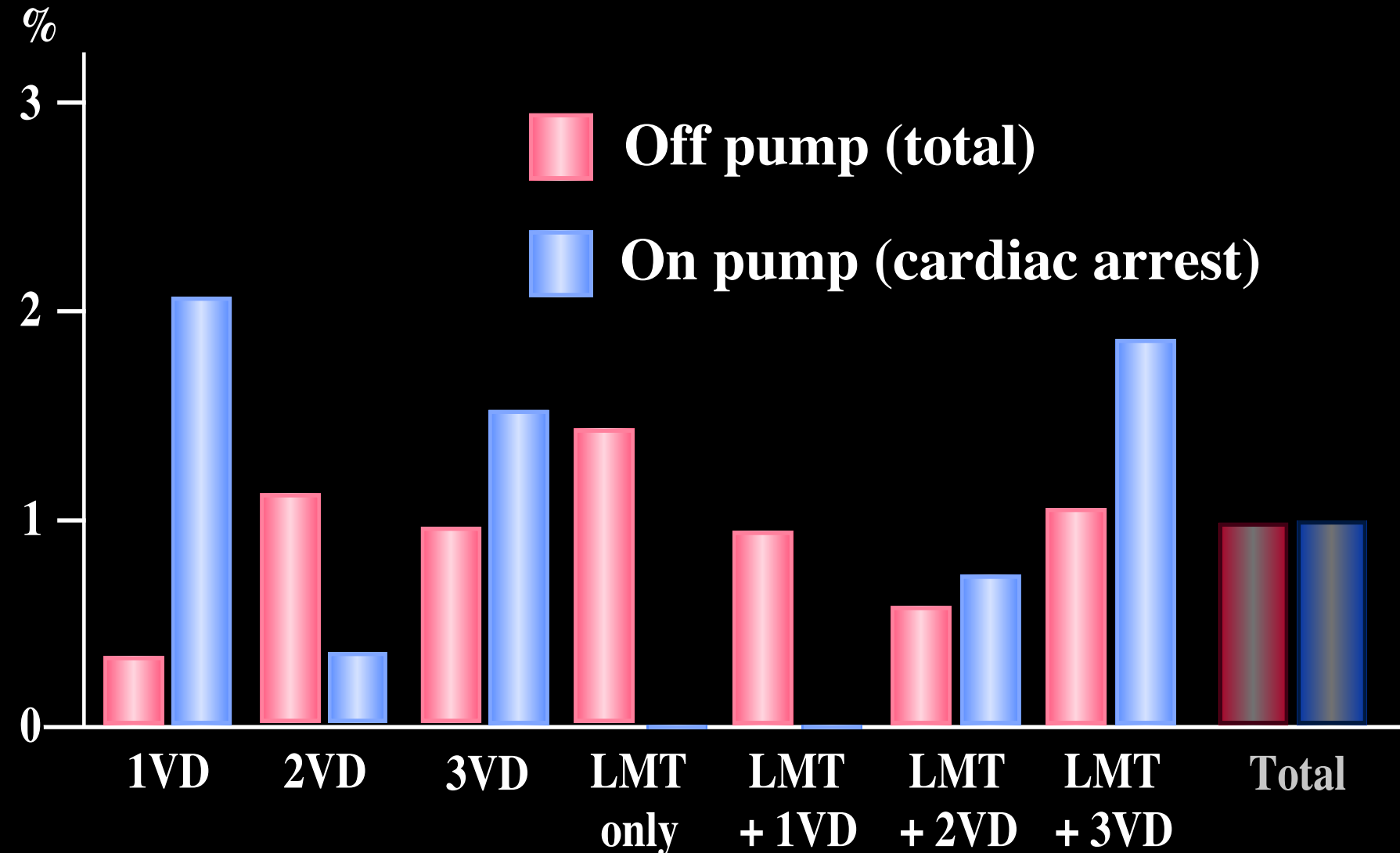
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CABG according to number of diseased vessels



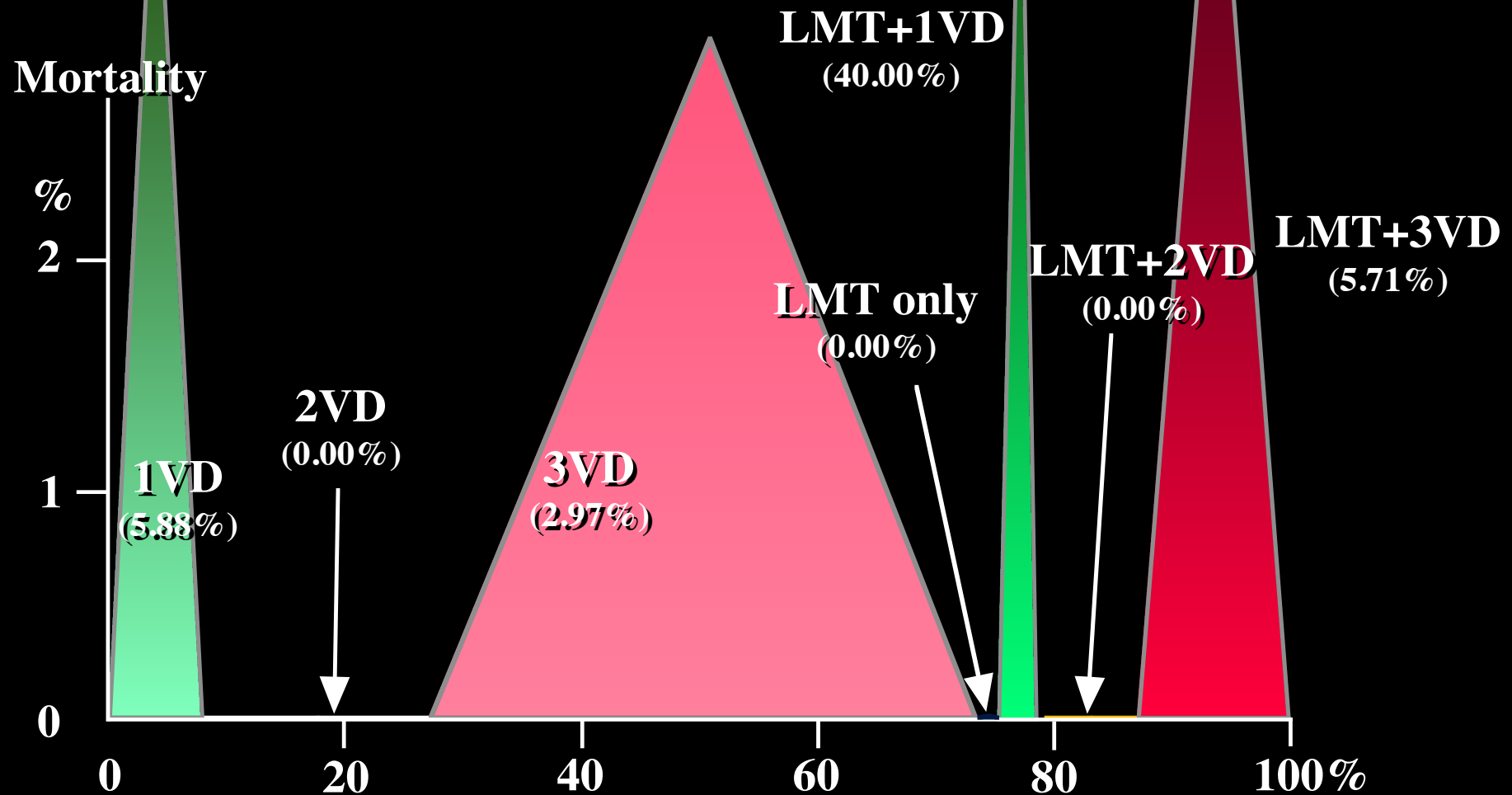
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Operative mortality by number of diseased vessels (Off pump CABG vs On-pump CABG)



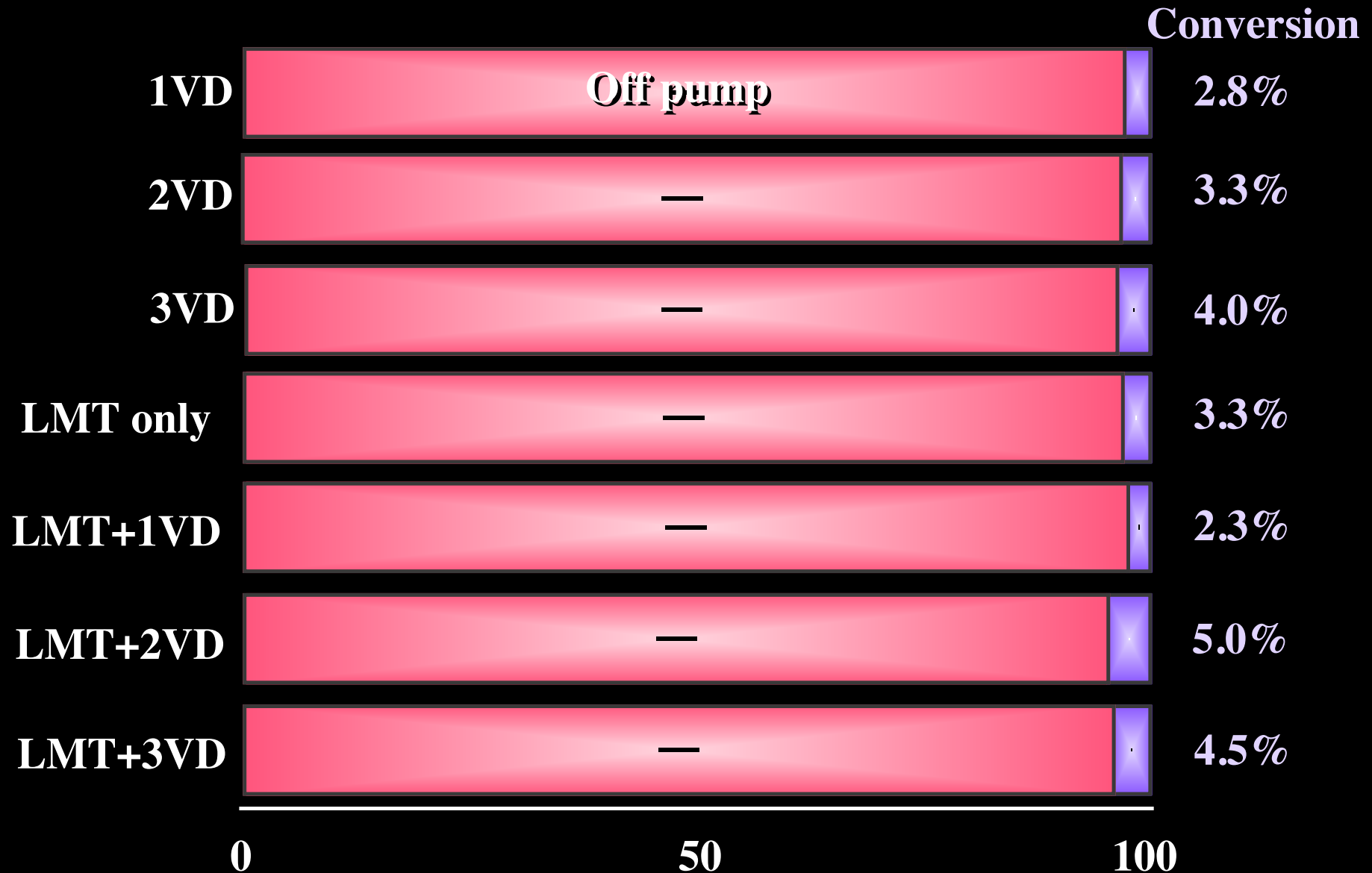
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Outcome according to number of diseased vessels
(237 conversion CABG : mortality 3.38%)



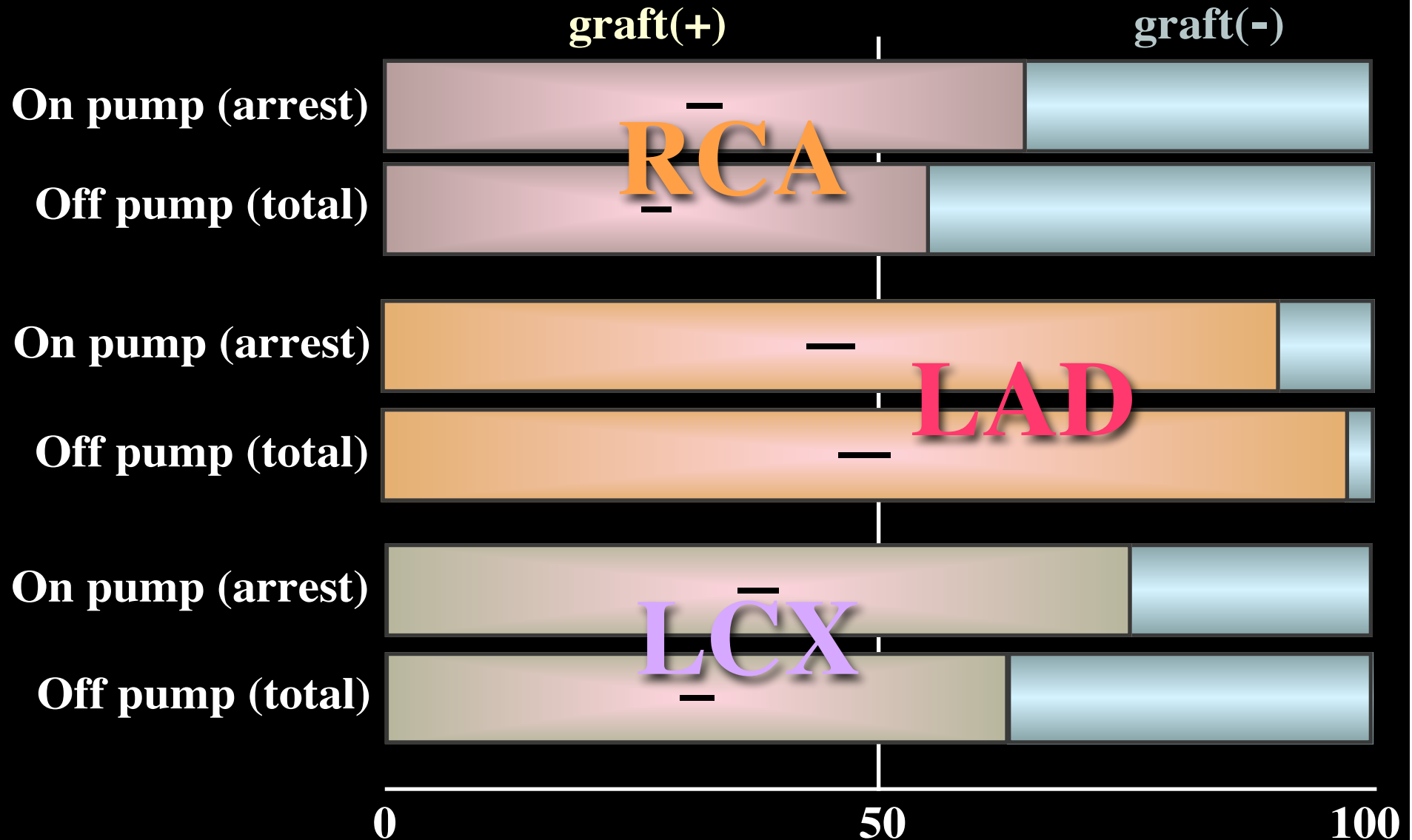
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Conversion (from off pump to on pump)



Coronary Artery Surgery 2004

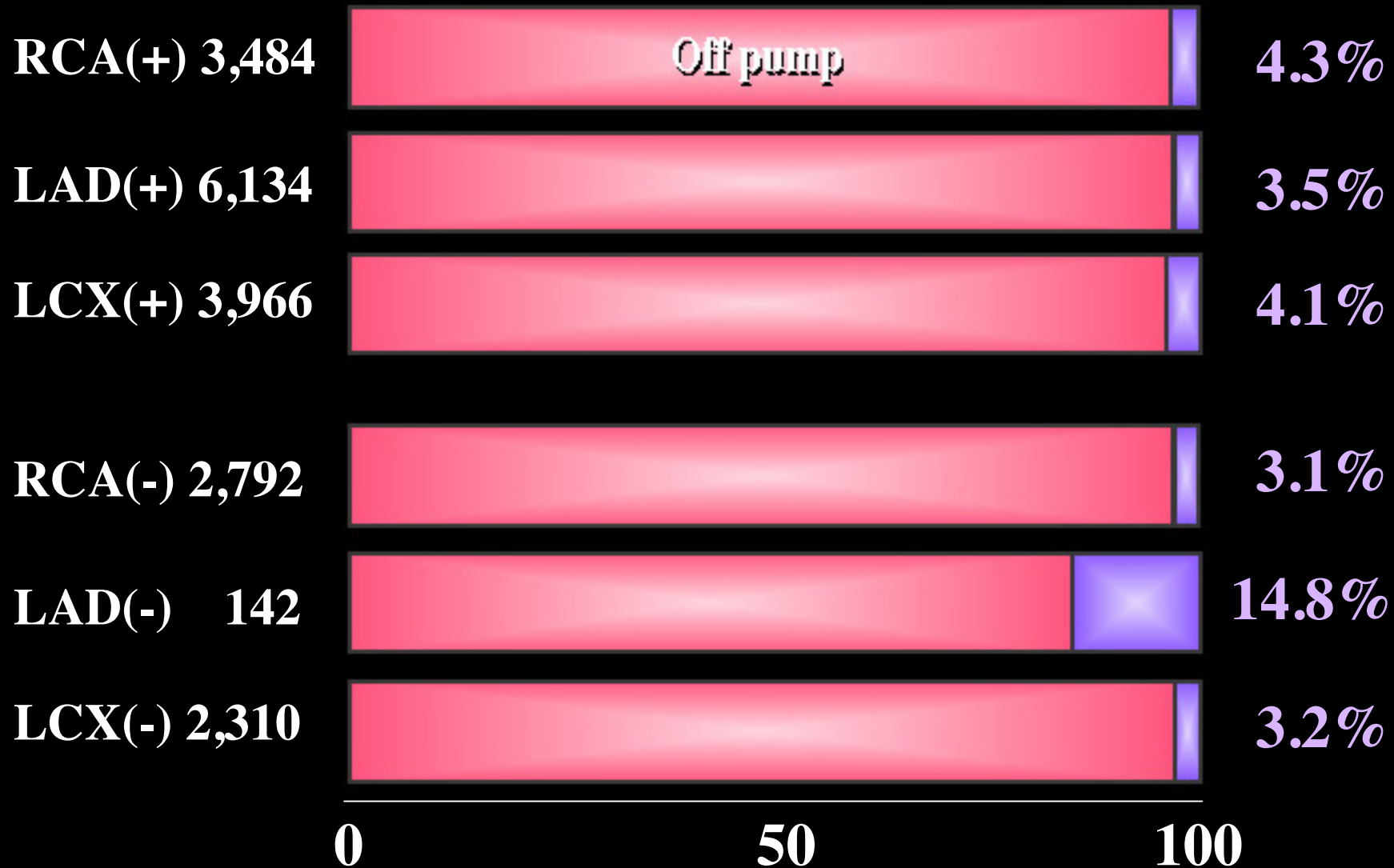
On pump CABG vs off pump CABG



Coronary Artery Surgery 2004

Conversion (from off pump to on pump)

Conversion

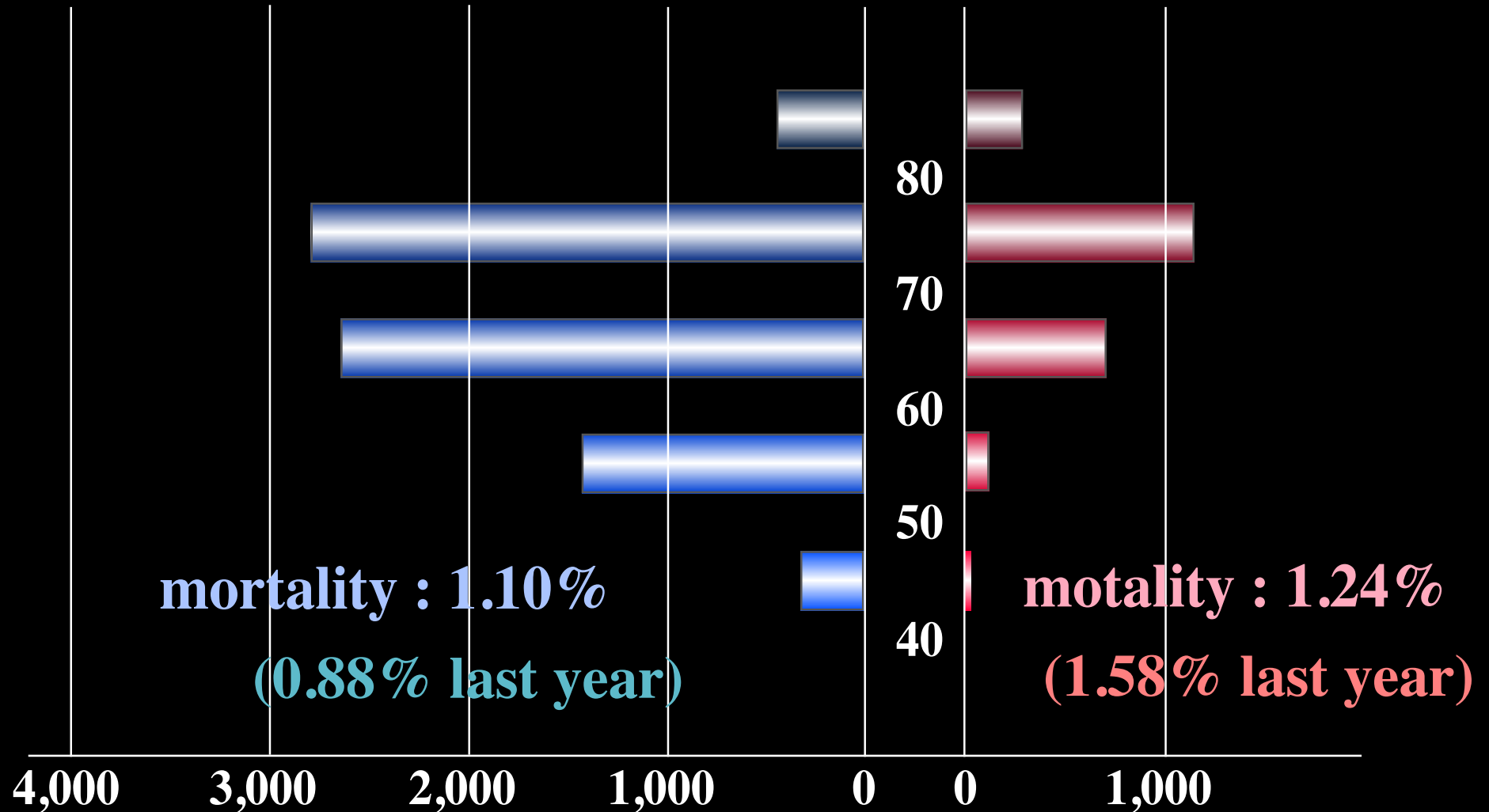


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Age distribution according to gender (initial elective CABG)

male : 75.9%

female : 24.1%



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Mortality according to age (initial elective CABG)

Mortality

%

5

0

30

40

50

60

70

80

years

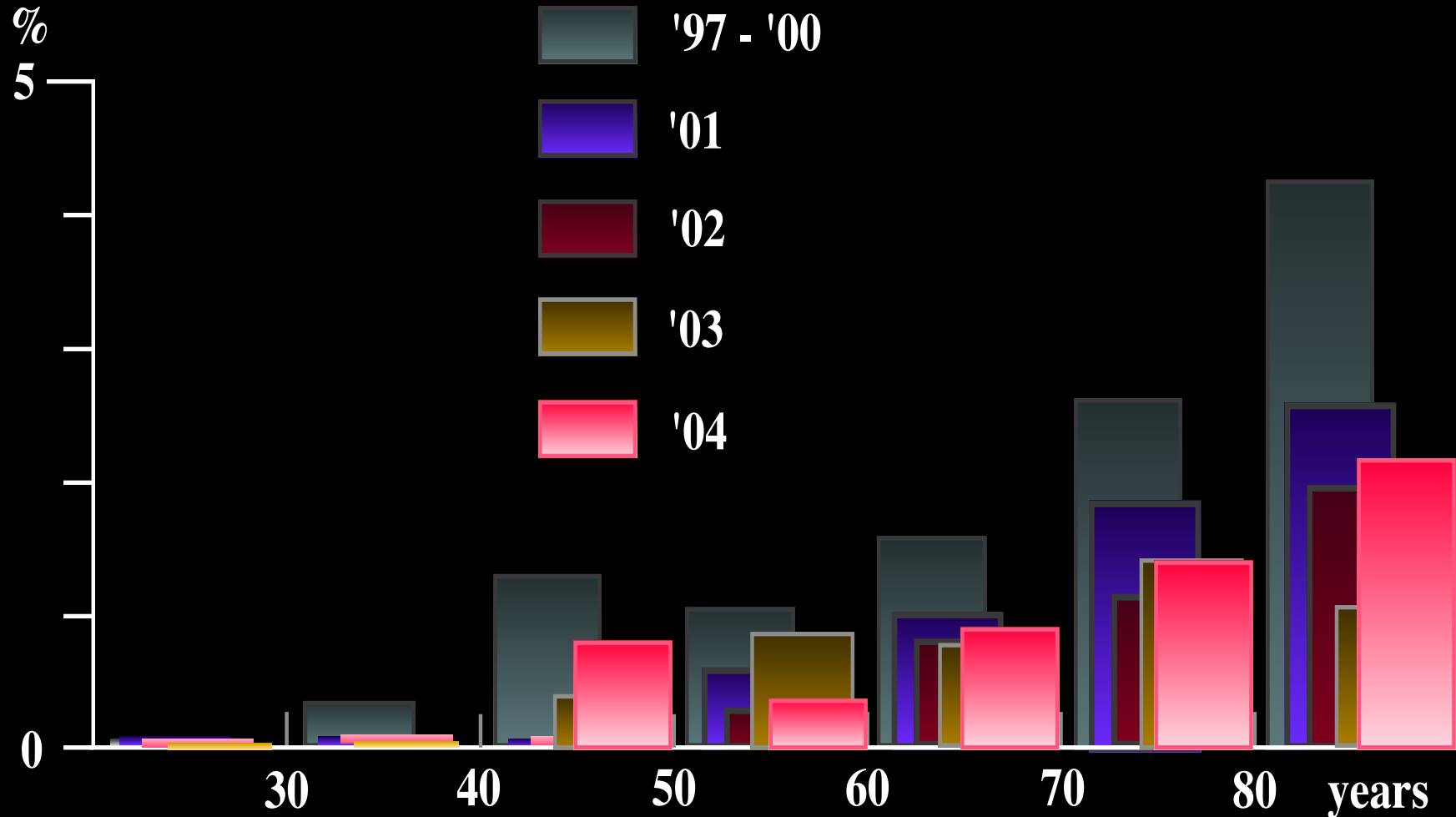
'97 - '00

'01

'02

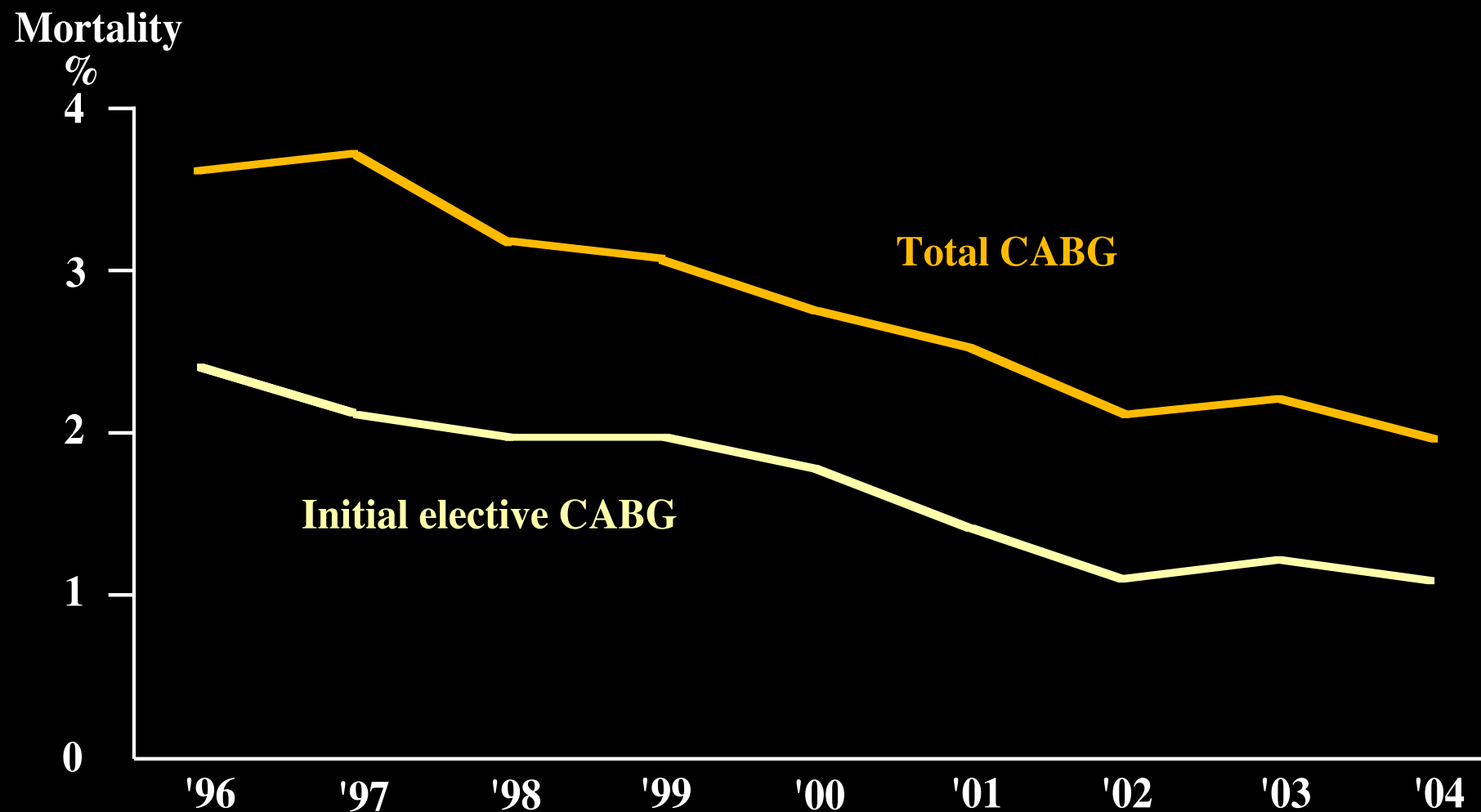
'03

'04



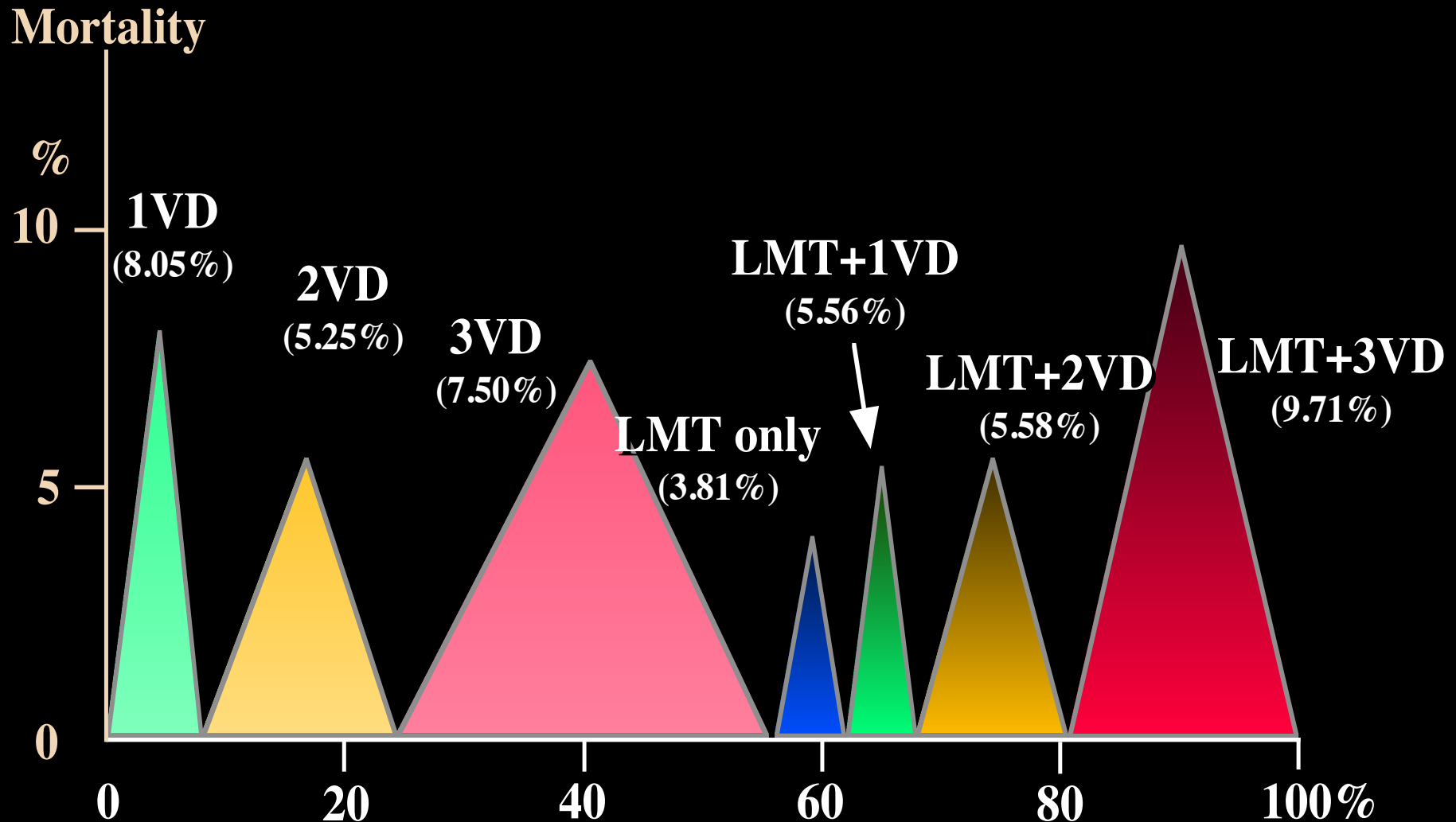
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Changes in mortality of CABG



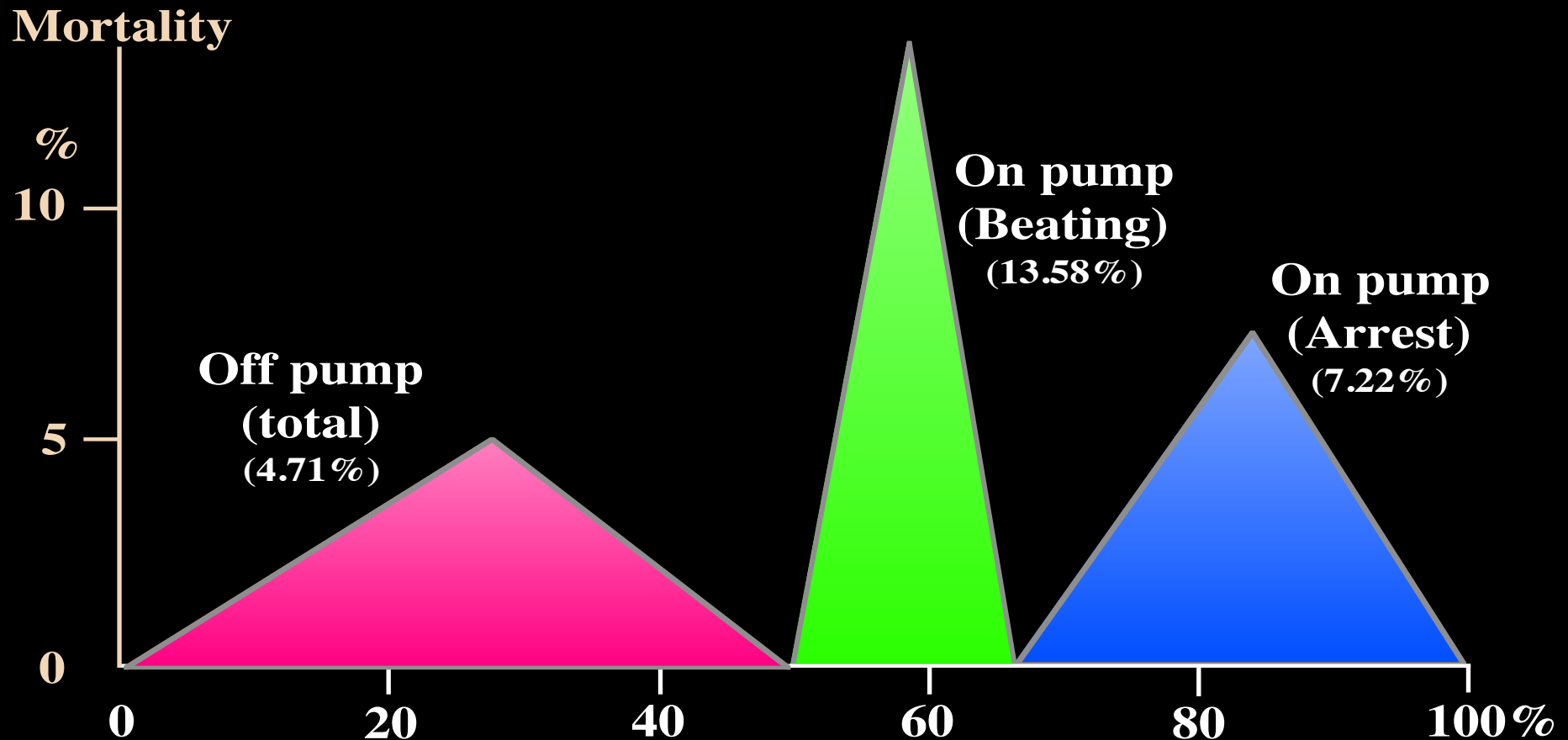
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**Outcome according to number of diseased vessels
(1,823 CABG except initial elective CABG : 7.02%)**



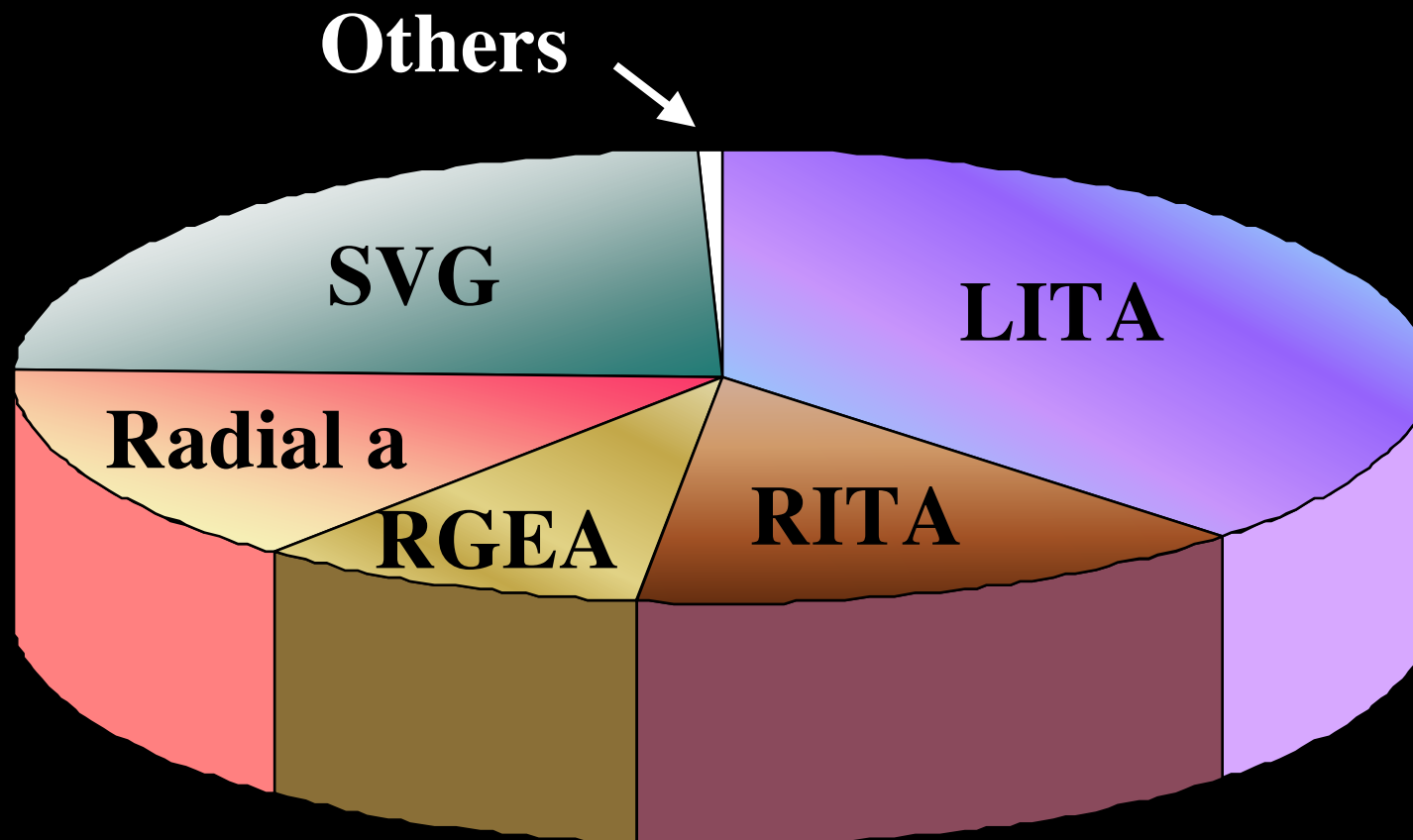
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**Outcome according to the operation method
(1,823 CABG except initial elective CABG : 7.02%)**



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Graft selection



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Case

Off pump CABG	154
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On pump (arrest)	107
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On pump (beating)	6
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Off pump CABG (154 institutions)

RCA (4PD)		LAD (7)		OM(12)	
RGEA	—	RITA	—	LITA	30
RGEA	—	LITA	—	RITA	20
RGEA	—	LITA	—	Radial	26
Radial	—	RITA	—	LITA	14

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On pump (arrest) CABG (107 institutions)

RCA (4PD)		LAD (7)		OM(12)	
SVG	—	LITA	—	SVG	27
SVG	—	LITA	—	Radial	19
SVG	—	LITA	—	RITA	10
Radial	—	RITA	—	LITA	6

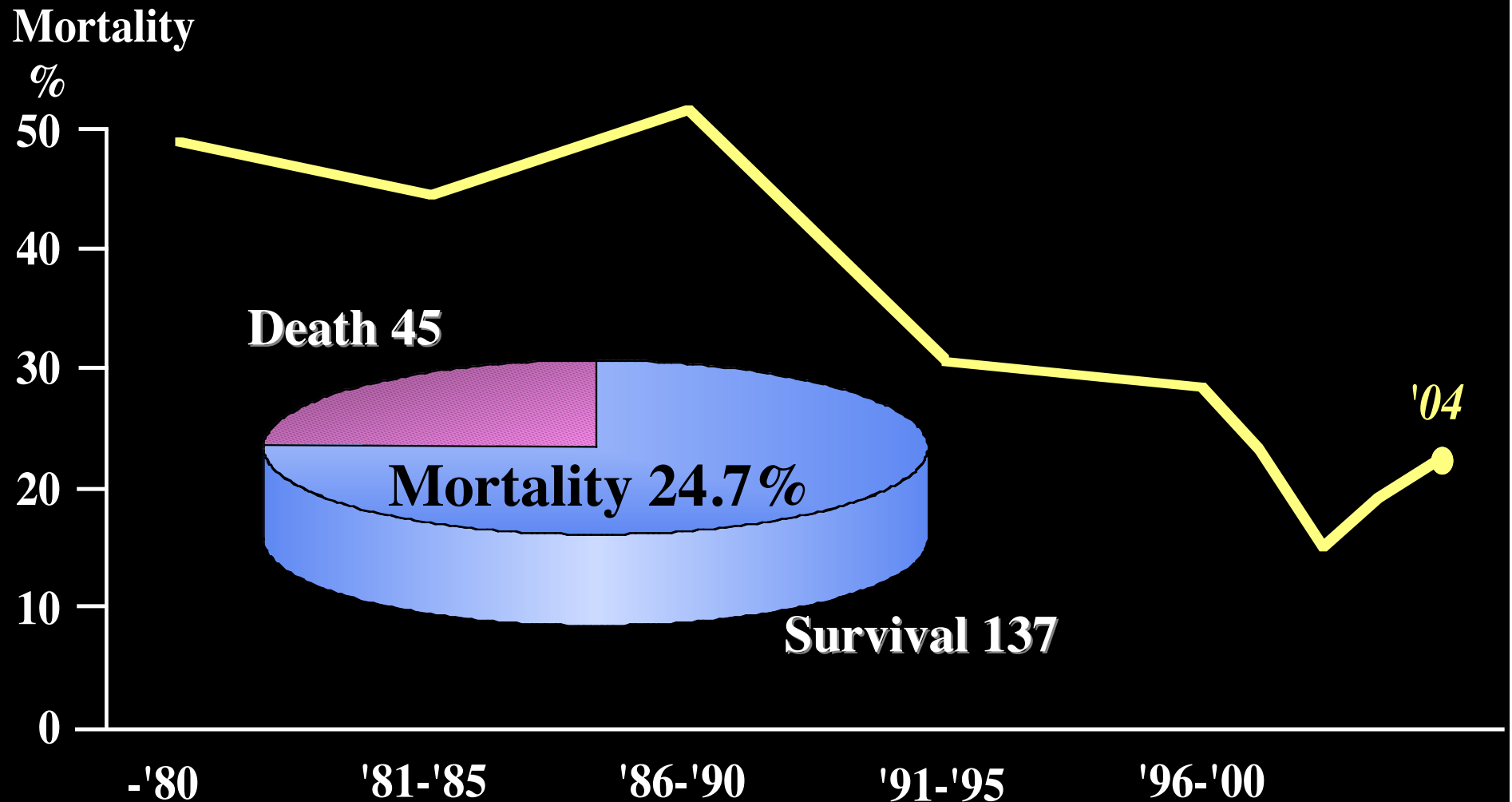
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On pump (beating) CABG (6 institutions)

RCA (4PD)		LAD (7)		OM(12)	
SVG	3	LITA	6	Radial	3
RGEA	2			SVG	2
Radial	1			RITA	1

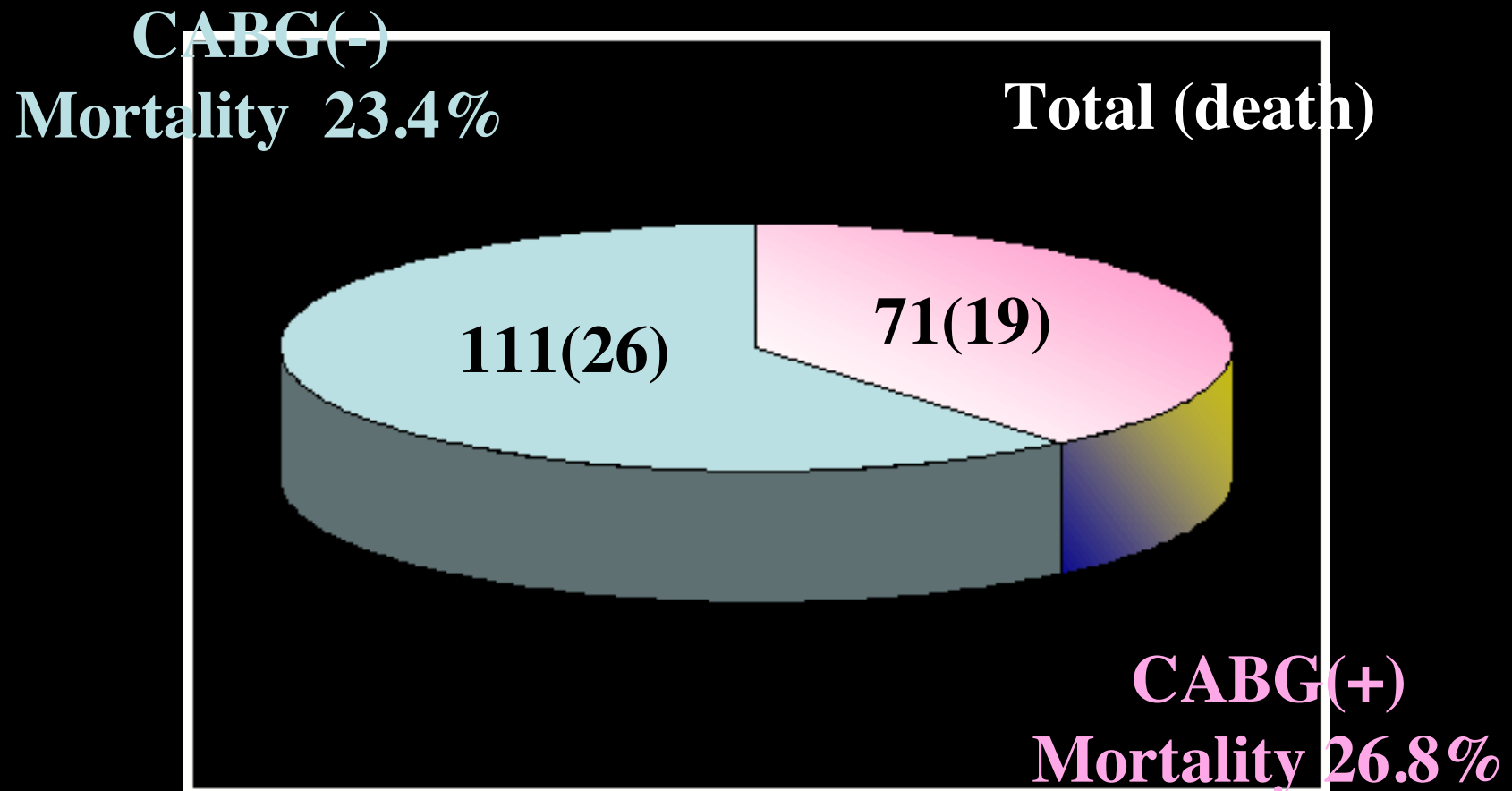
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Changes in mortality for ventricular septal perforation



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Ventricular septal perforation
Mortality 24.7%



Coronary Artery Surgery 2004

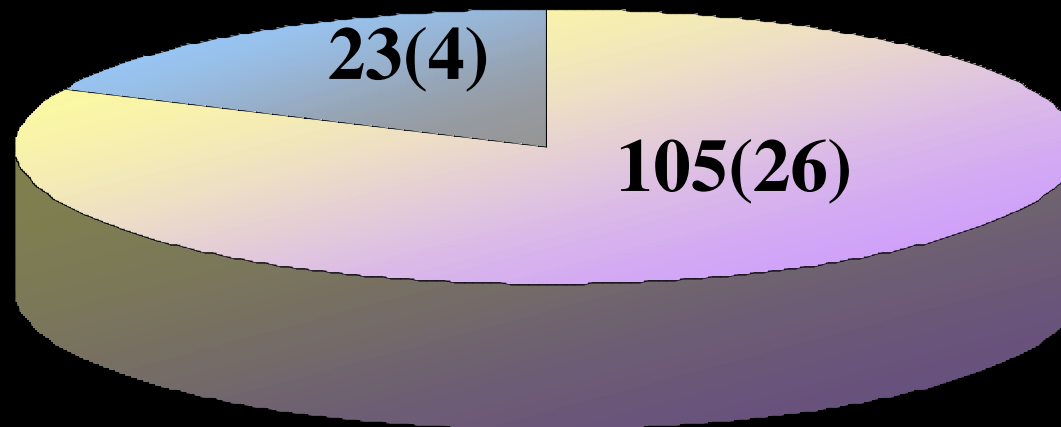
Operative method for **anterior** VSP

Mortality 23.4%

Patch closure (Dagget)

Mortality 17.4%

Total (death)



Infarction exclusion (Komeda-David)

Mortality 24.8%

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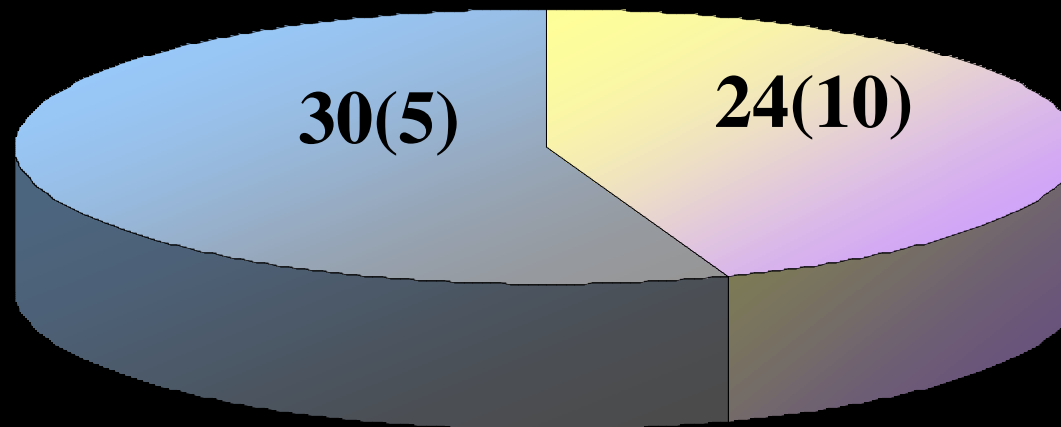
Operative method for **posterior** VSP

Mortality 27.8%

Patch closure (Dagget)

Mortality 16.7%

Total (death)



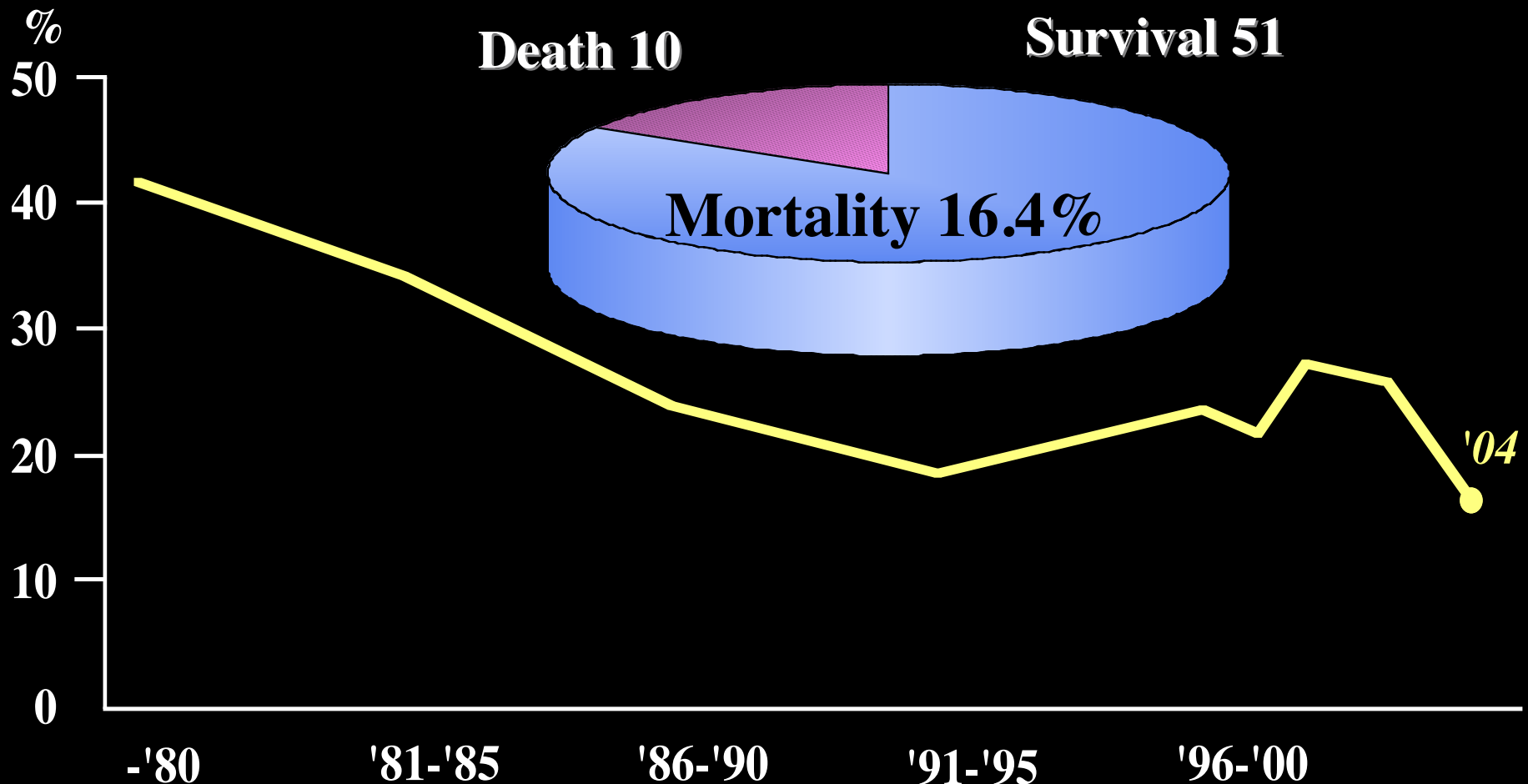
Infarction exclusion (Komeda-David)

Mortality 41.7%

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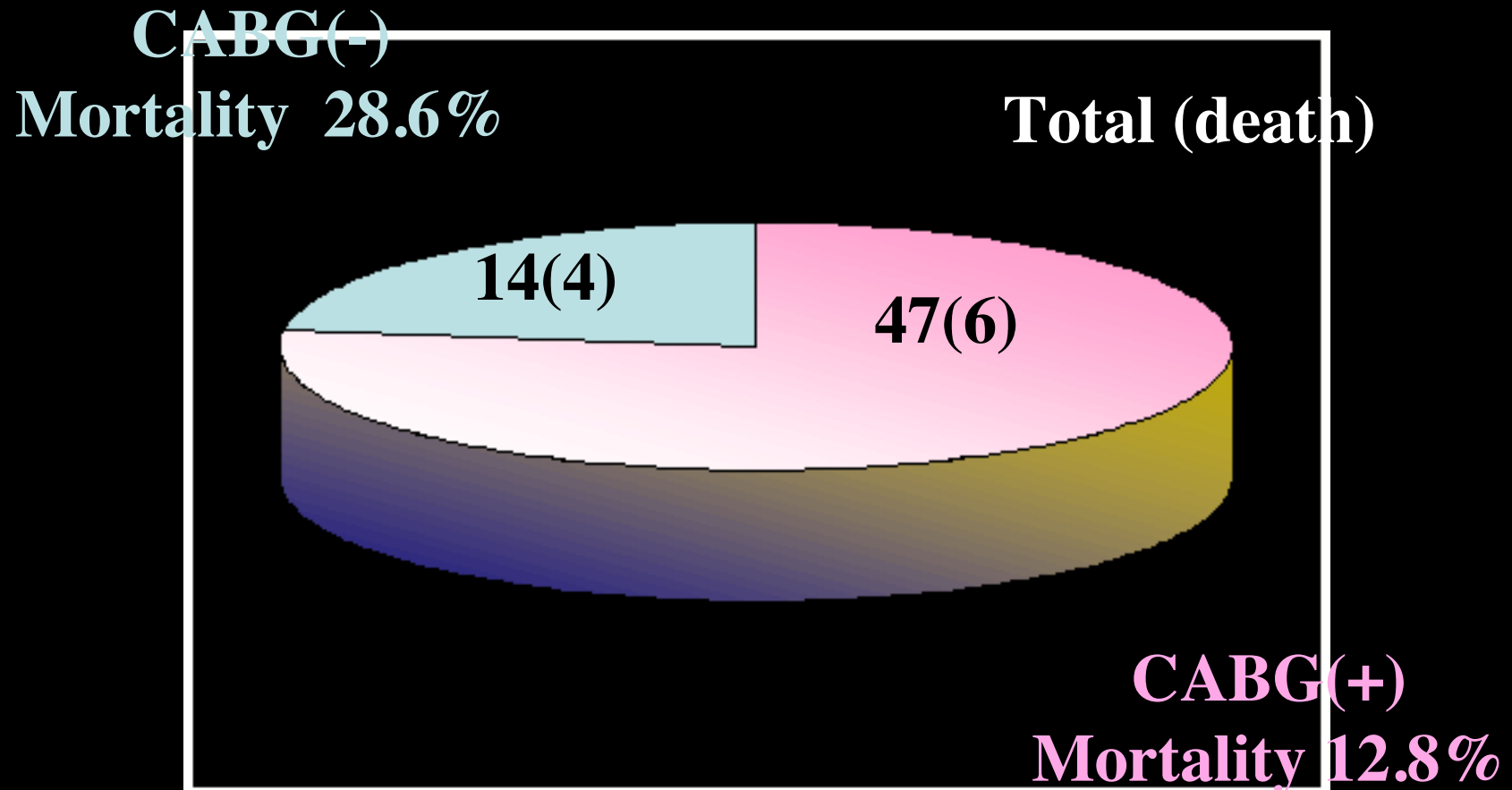
Changes in mortality for LV papillary muscle rupture

Mortality



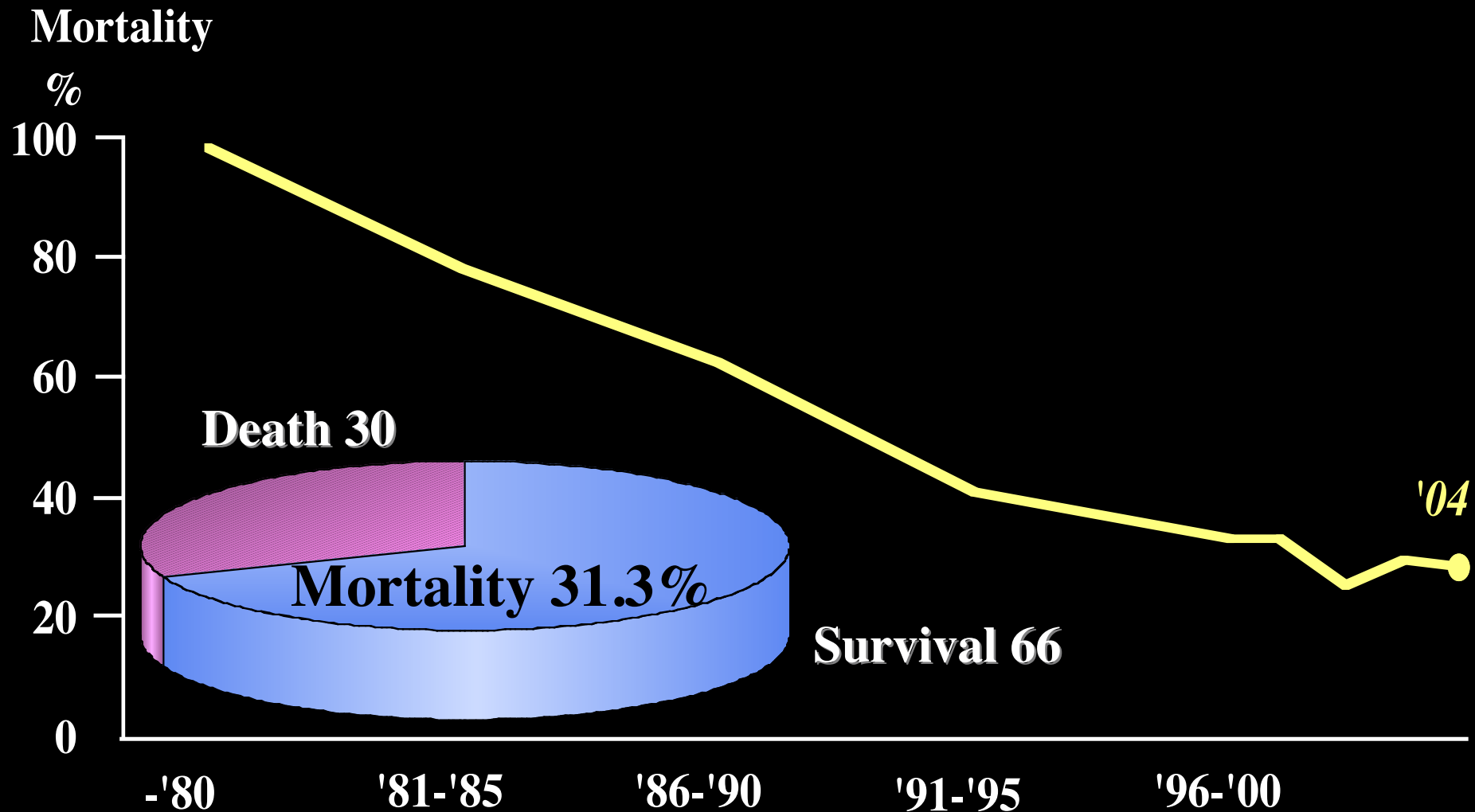
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Left ventricular papillary muscle rupture
Mortality 16.4%



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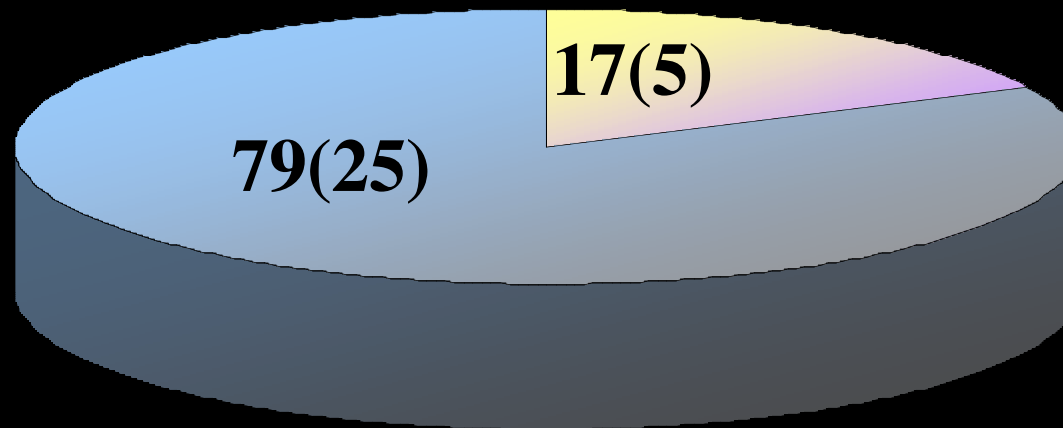
Changes in mortality for cardiac rupture



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Cardiac rupture
Mortality 31.3%

CABG(+)
Mortality 29.4%



CABG(-)
Mortality 31.7%

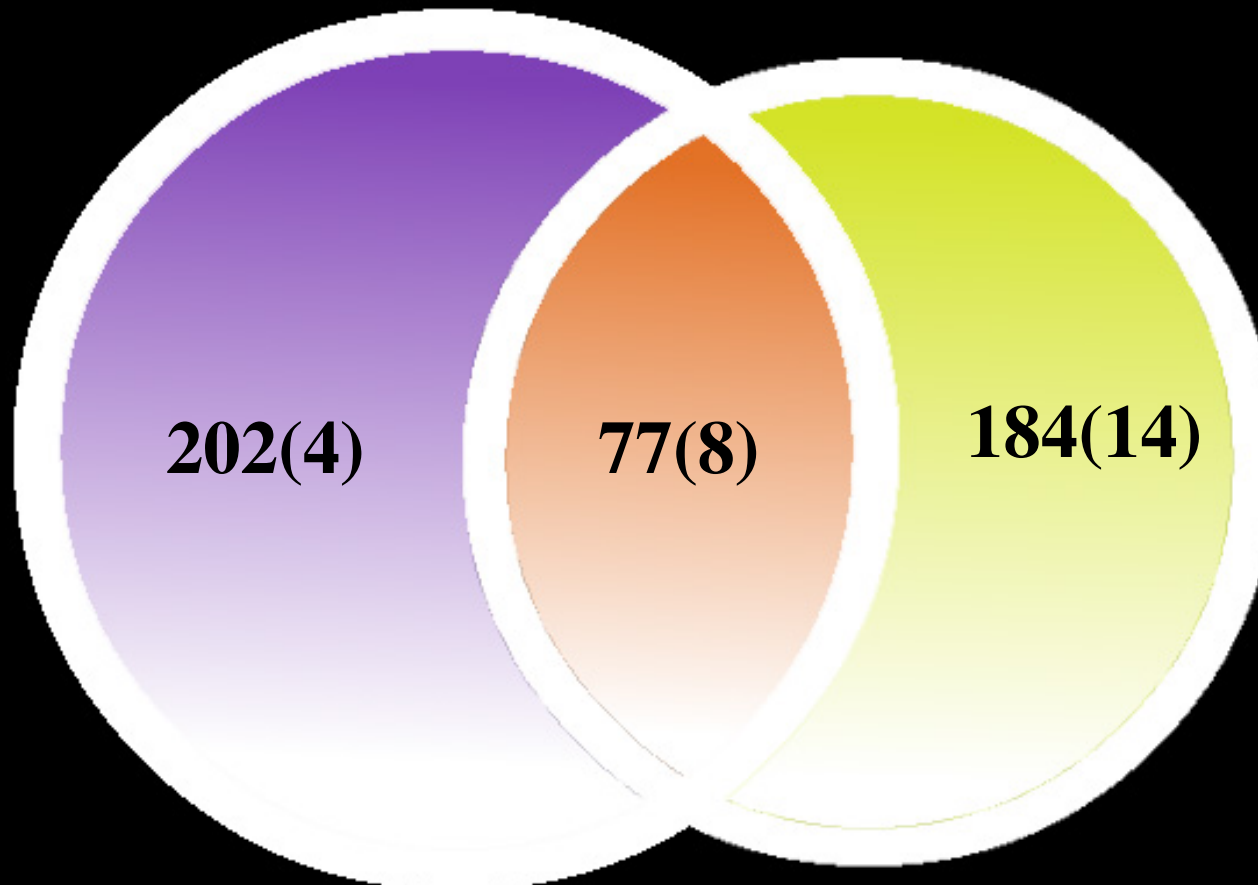
Total (death)

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Left ventricular aneurysm & ischemic MR

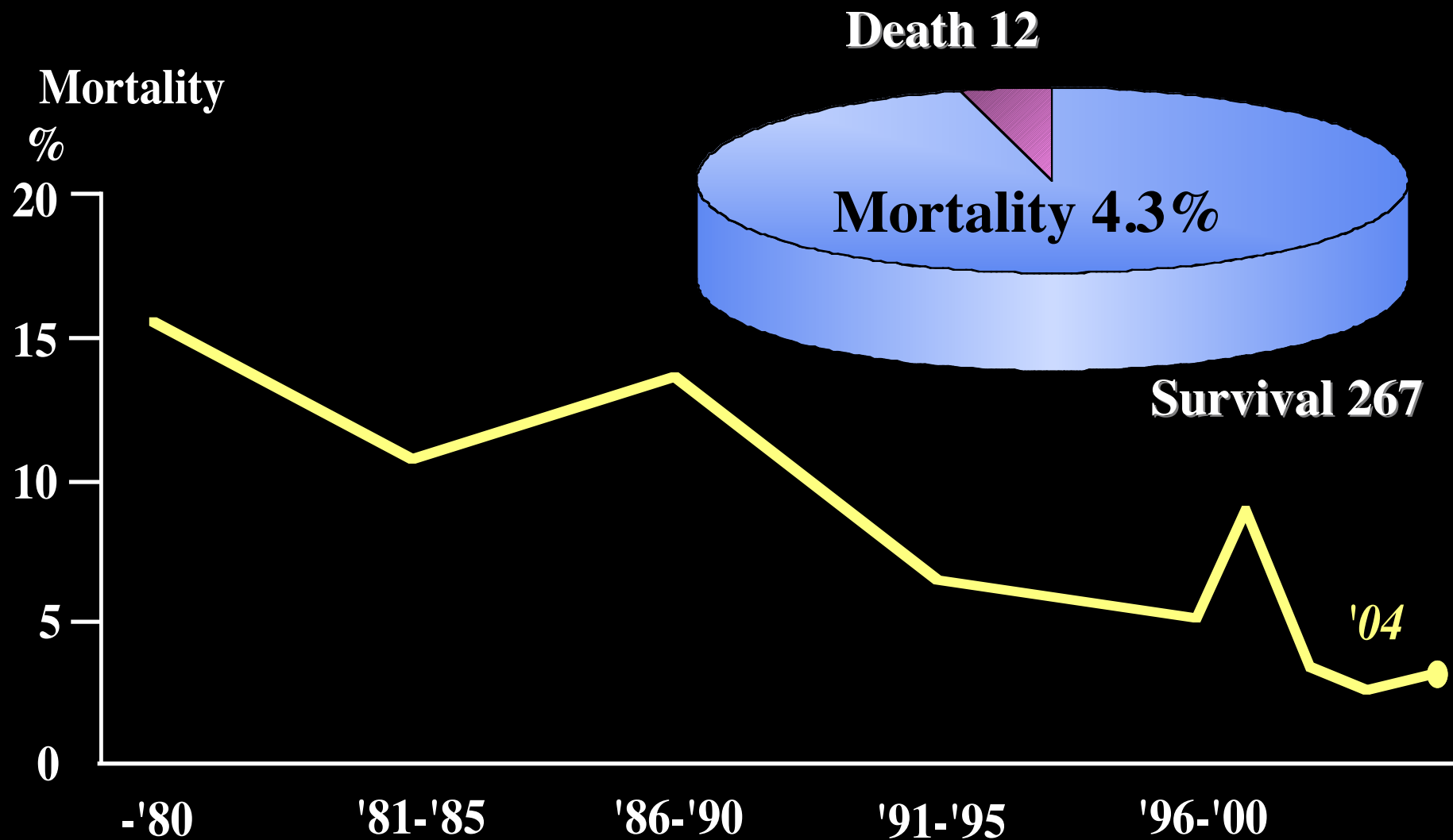
LV aneurysm

Ischemic MR



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Changes in mortality for left ventricular aneurysm

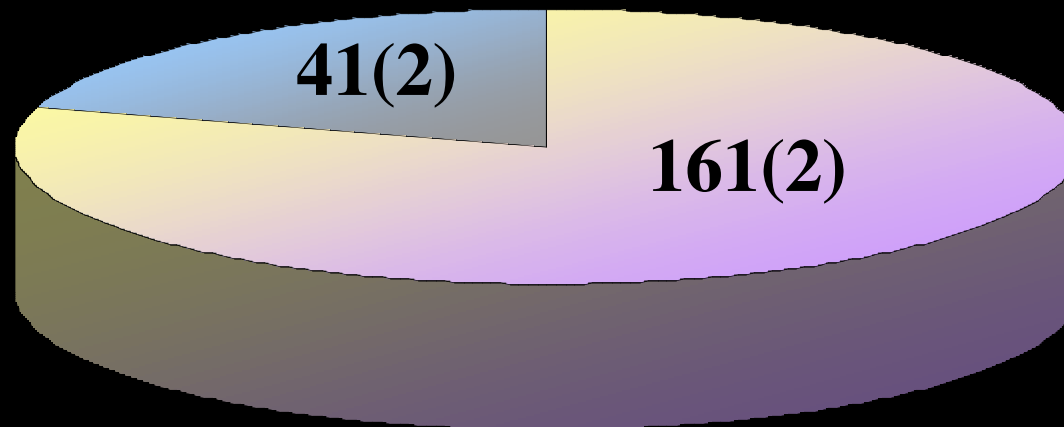


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Left ventricular aneurysm
Mortality 2.0%

CABG(-)
Mortality 4.9%

Total (death)



CABG(+)
Mortality 1.2%

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Ischemic mitral regurgitation
Mortality 7.6%

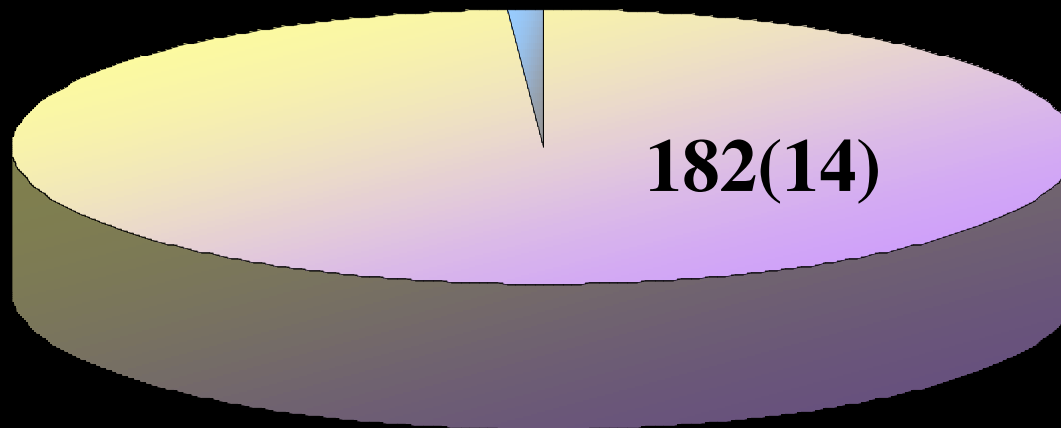
CABG(-)
Mortality 0.0%

Total (death)

2(0)

182(14)

CABG(+)
Mortality 7.7%

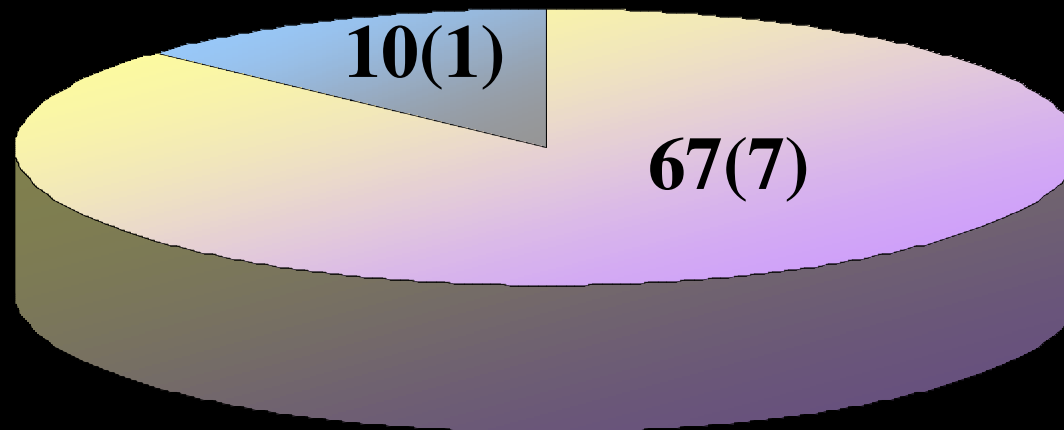


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LV aneurysm & ischemic MR
Mortality 10.4%

CABG(-)
Mortality 10.0%

Total (death)



CABG(+)
Mortality 10.5%

ご協力有り難うございました