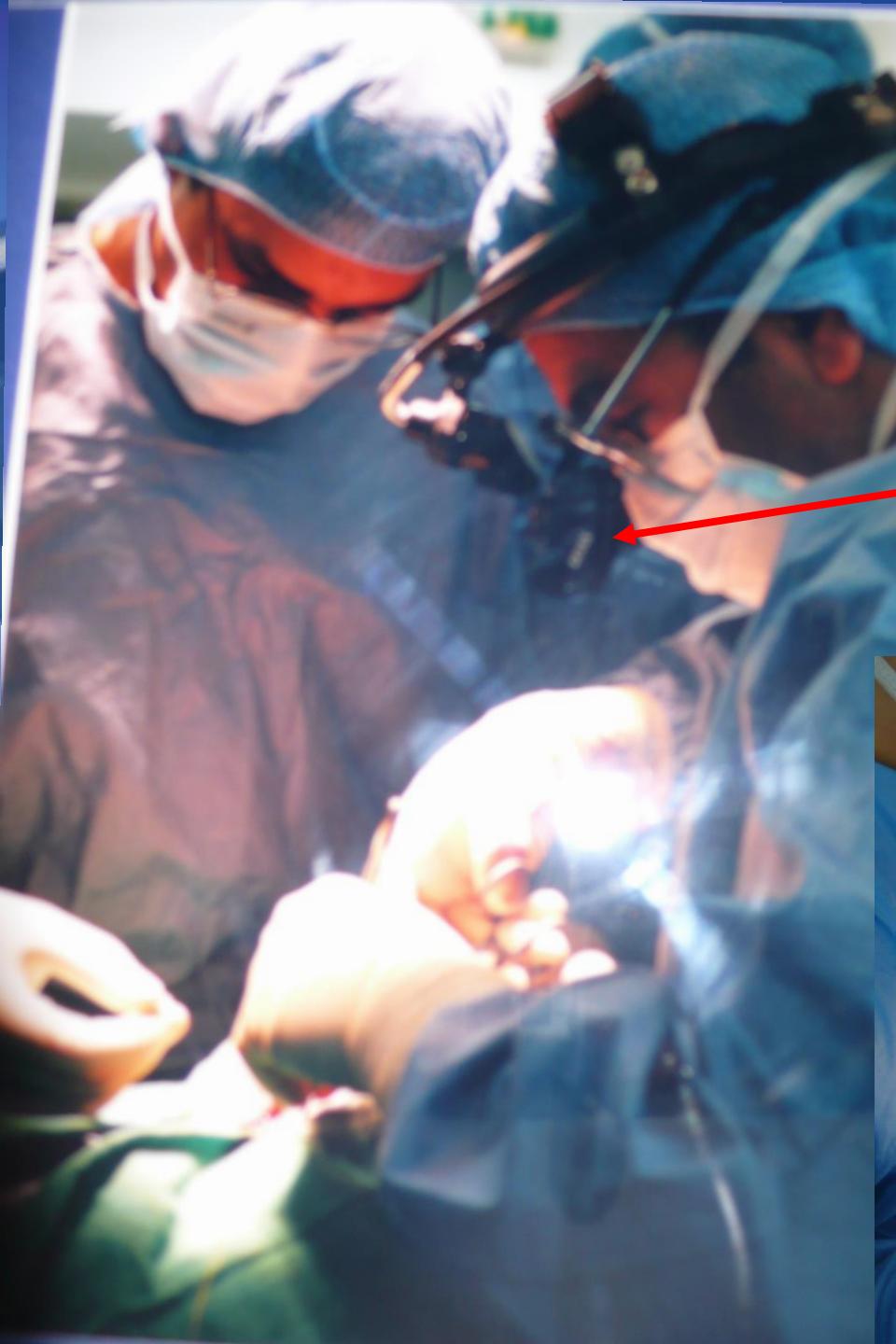


Cardiac Surgery Today

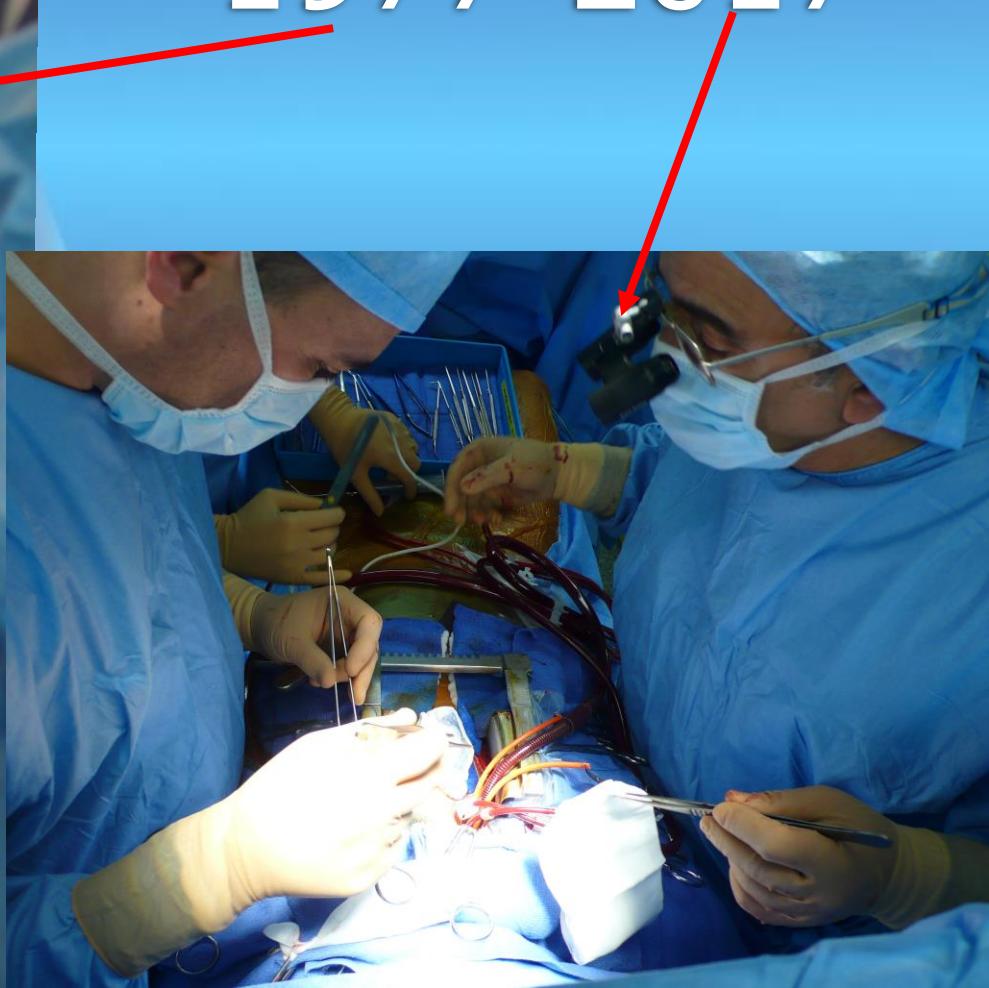
Cercle du Cœur
2017

Décembre -5- 2017

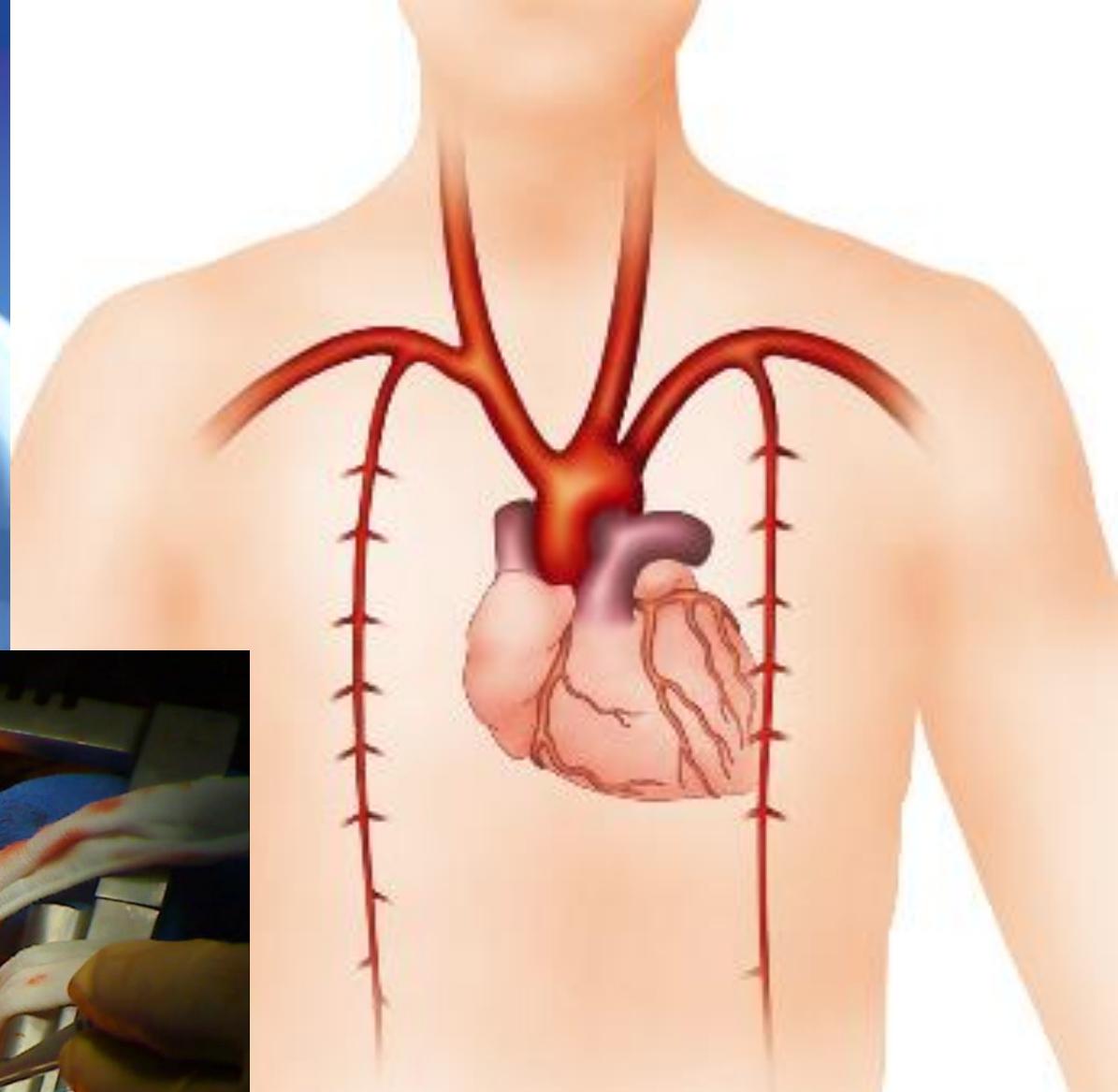
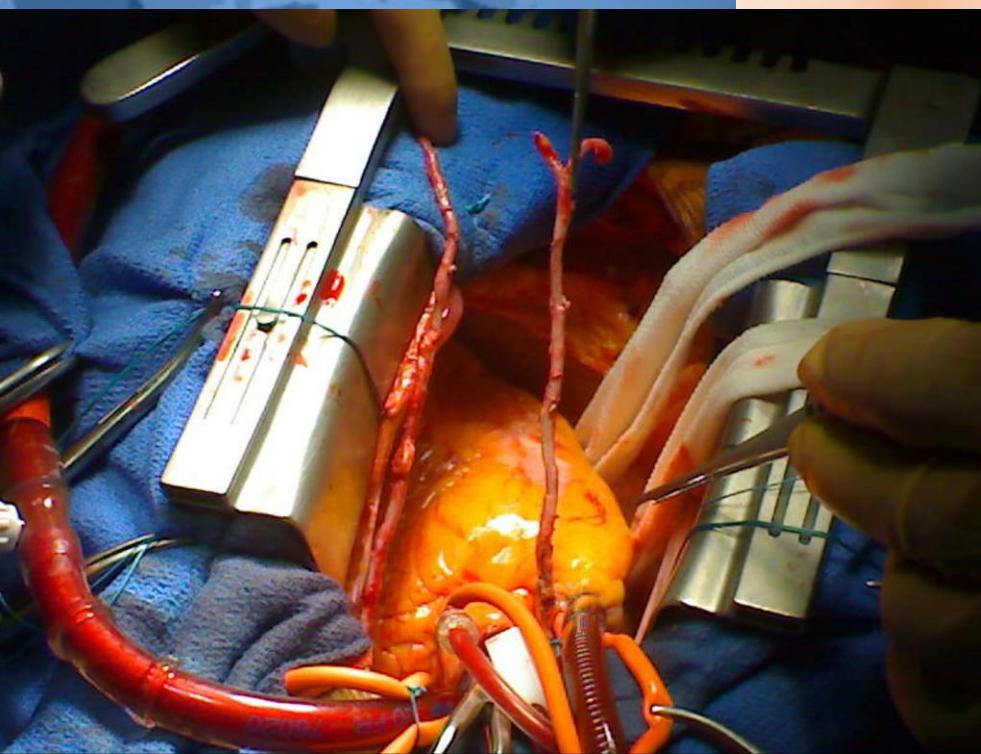
*Wassim Khoury -
American Hospital of Paris*



Progress ?
1977-2017



Cardiac Surgery Today



Cardiac Surgery Today

Progress ?

?

Cardiac Surgery Today

Progress ?

YES

Cardiac surgery today

Progress ?

Technic :

Aortic Valve:

Mitral Valve

Minimally invasive approach

TAVI, Sutures
Mitraclip , VIV

pts management:

Cardiology

Anesthesiology

Bypass

MEC

Post operatif course (ICU)

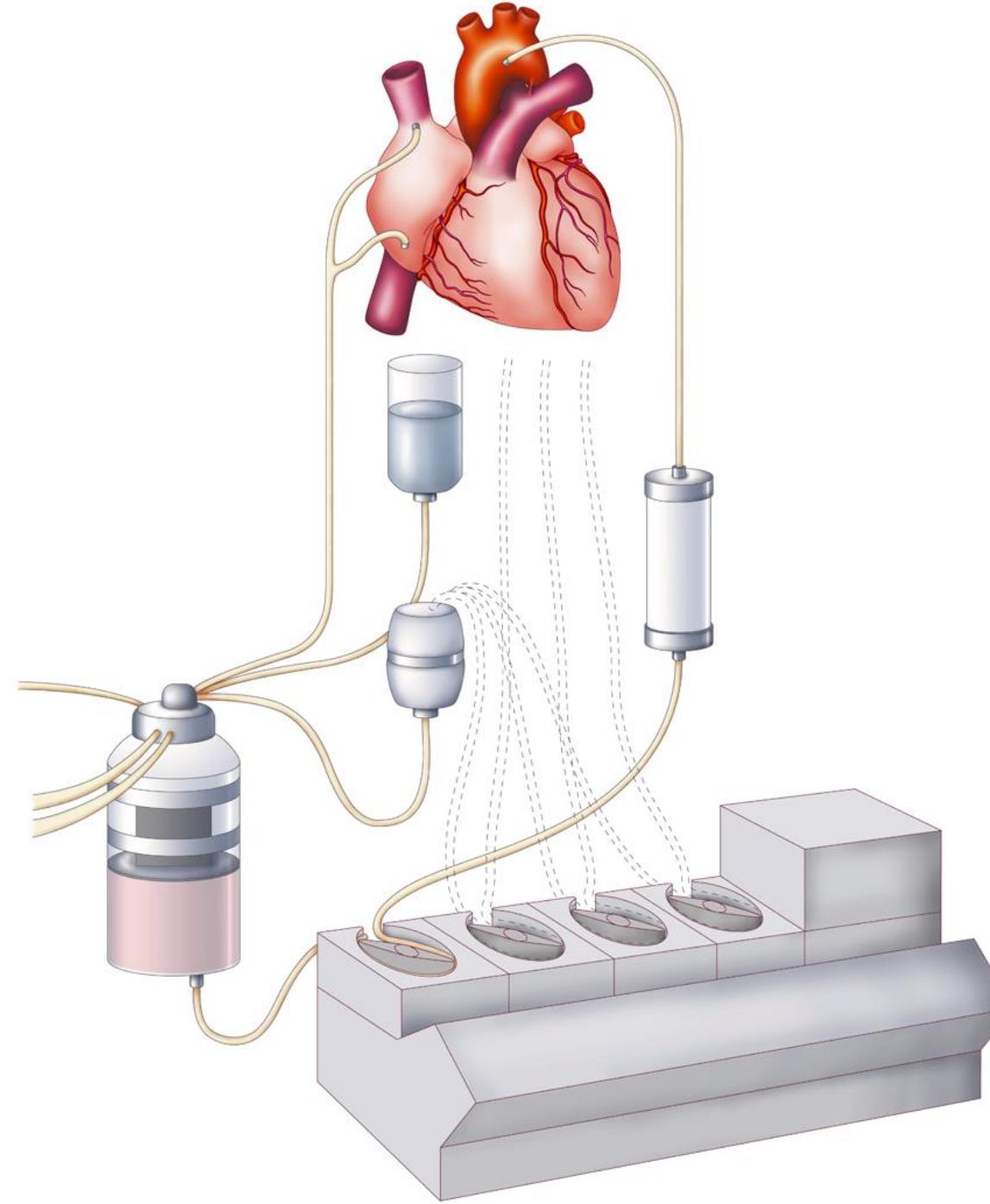
Cardiac Surgery Today

Cardiology
patient selection & preparation

*Diabetes Mellitus
arrhythmia
AHT
statines,...
ACEI*

Vascular & respiratory investigations

Extra Corporal Circulation



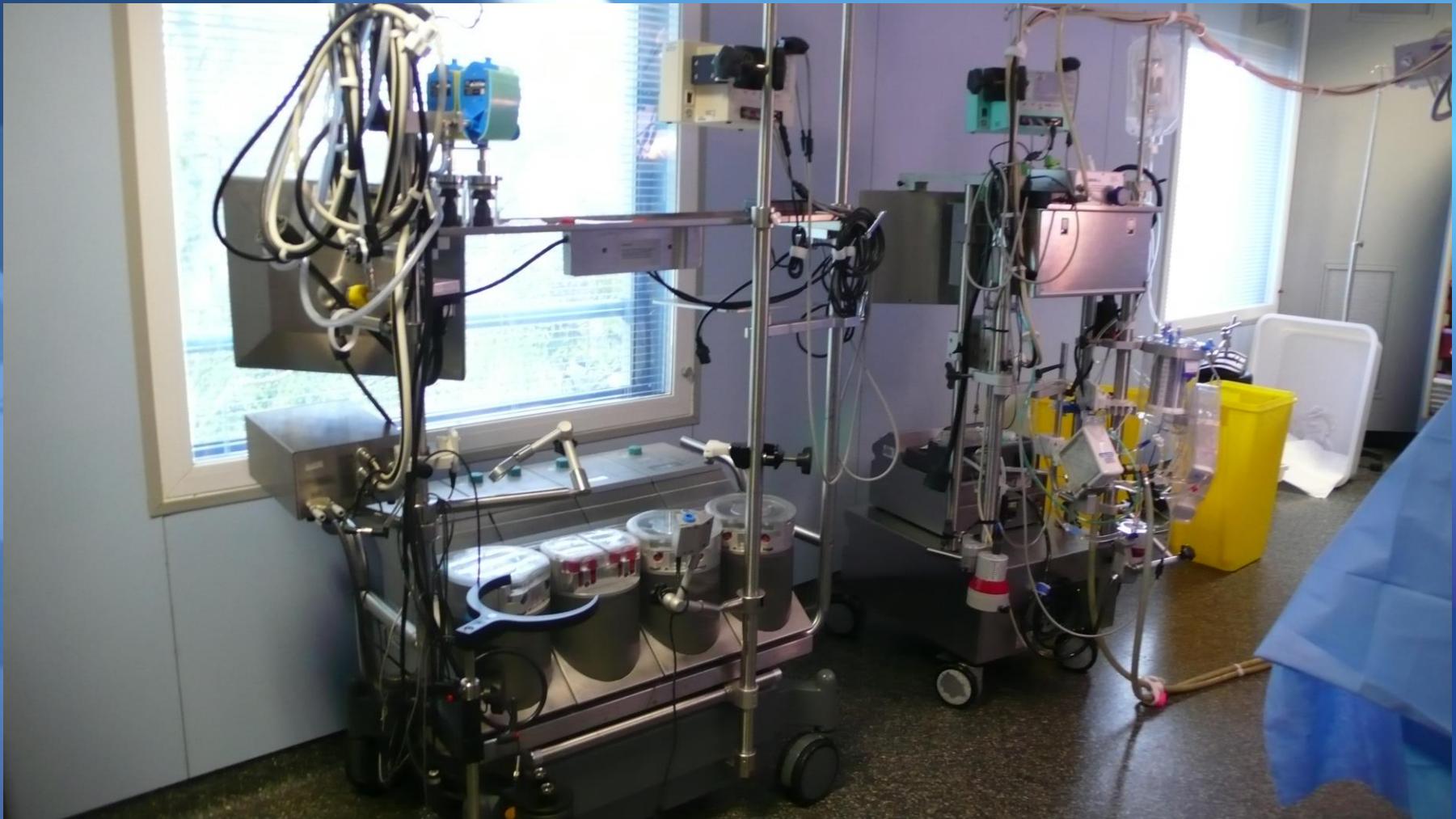
Extra Corporal Circulation:



Cardiac Surgery Today

Pump off ???

pump off ? versus "MEC"
mini extracorporeal circulation
Normothermy +++





Cardiac Surgery Today

Normothermy





Cardiac Surgery Today

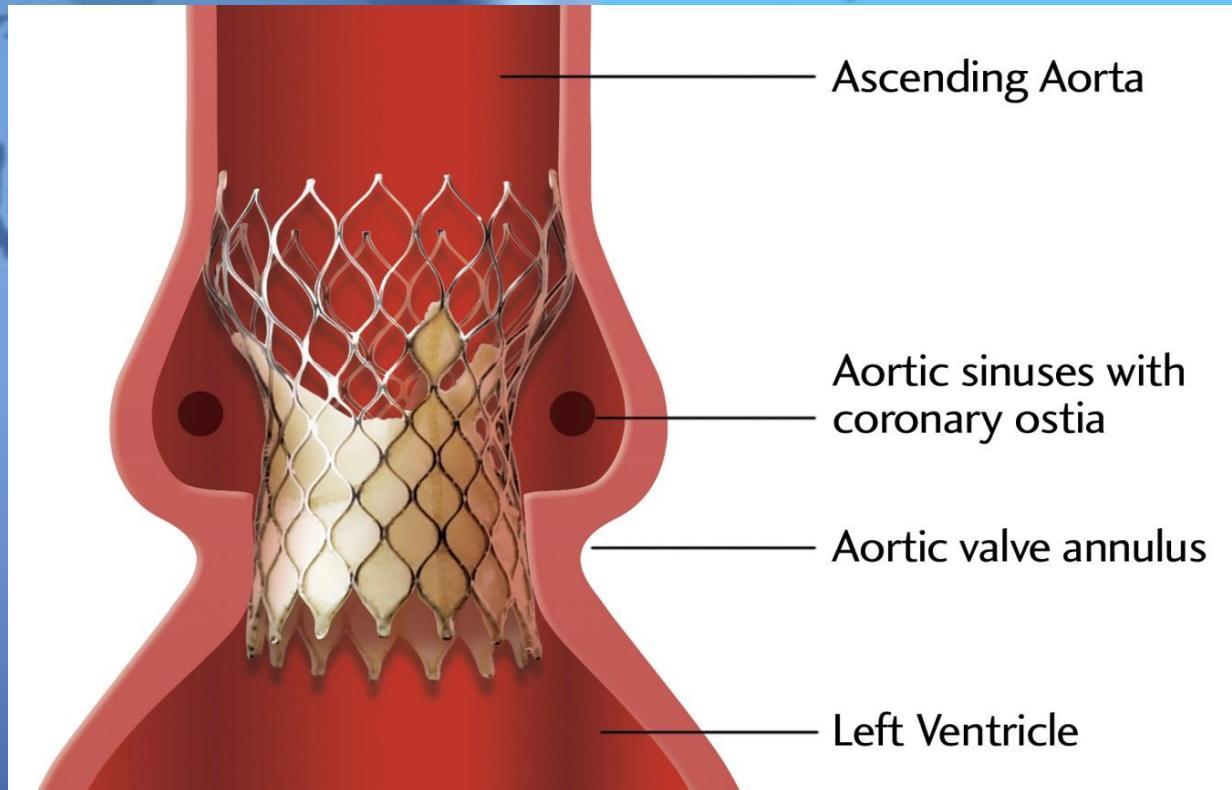
CARDIAC VALVES



Cardiac Surgery Today

TAVI

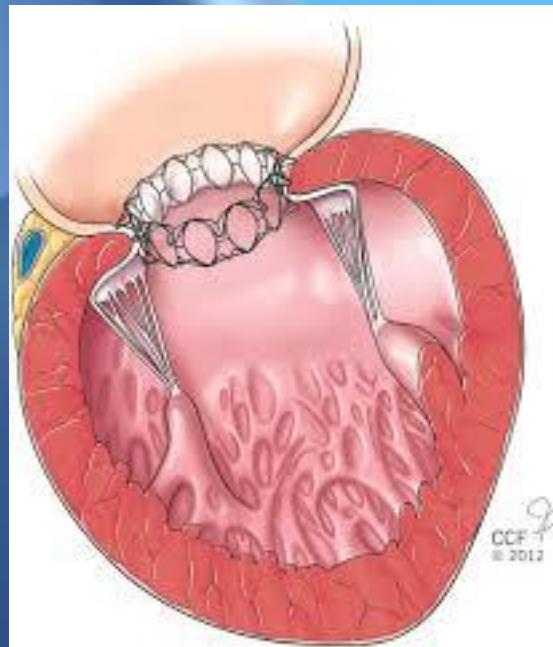
Trans Arterial Valve Implantation



Cardiac Surgery Today

TMVI

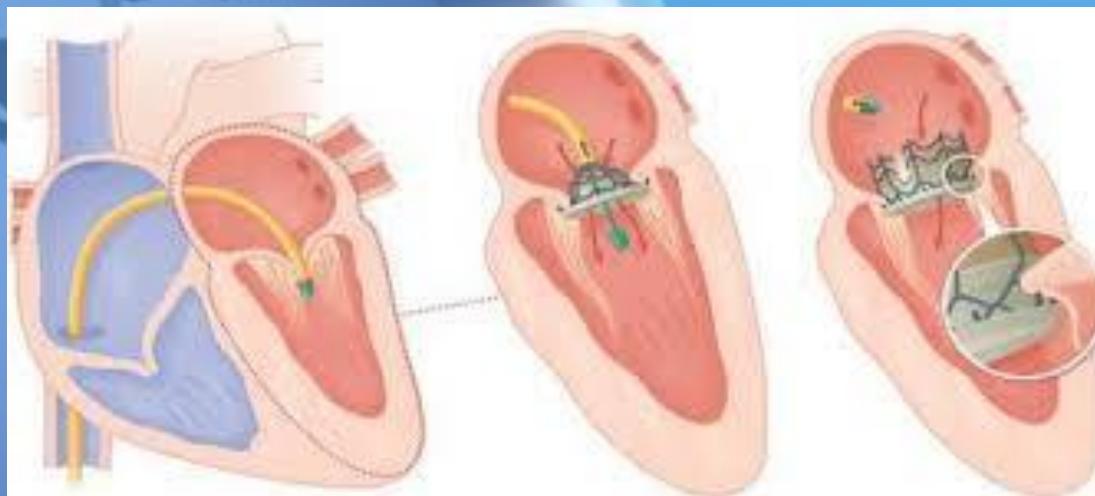
TransCatheter Mitral Valve Implantation



Cardiac Surgery Today

TMVI

Transcatheter Mitral Valve Implantation



Cardiac Surgery Today

TMVI

Transcatheter Mitral Valve Implantation



Figure 3. Important steps in Fortis valve implantation. Leaflet capture: the paddles are seen outside both leaflets. Closing the paddles results in trapping the leaflets between the paddles and the body of the valve (A). Release of the atrial flange is achieved by pushing the nose cone forward (B). Valve deployment: once the paddles are closed and the atrial flange released, the valve is deployed by unsheathing the ventricular body (C).

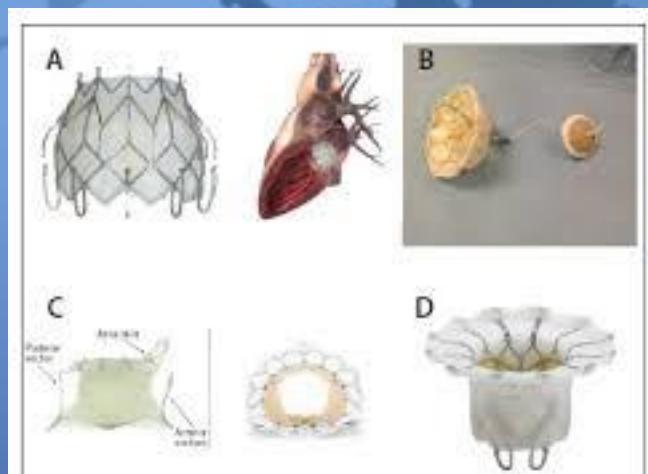
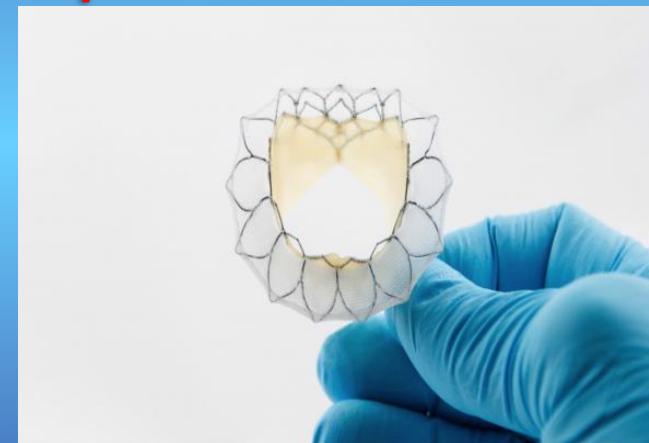
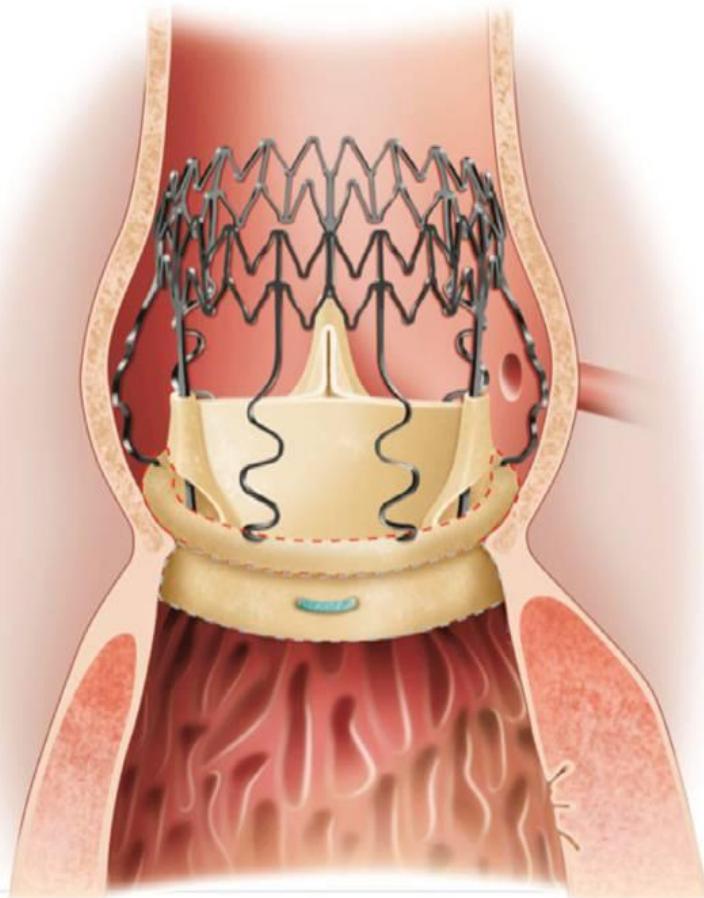


Figure 2. The first-generation CardiAQ valve (A), Tendyne valve (B), Tiara valve (C), Fortis valve (D).



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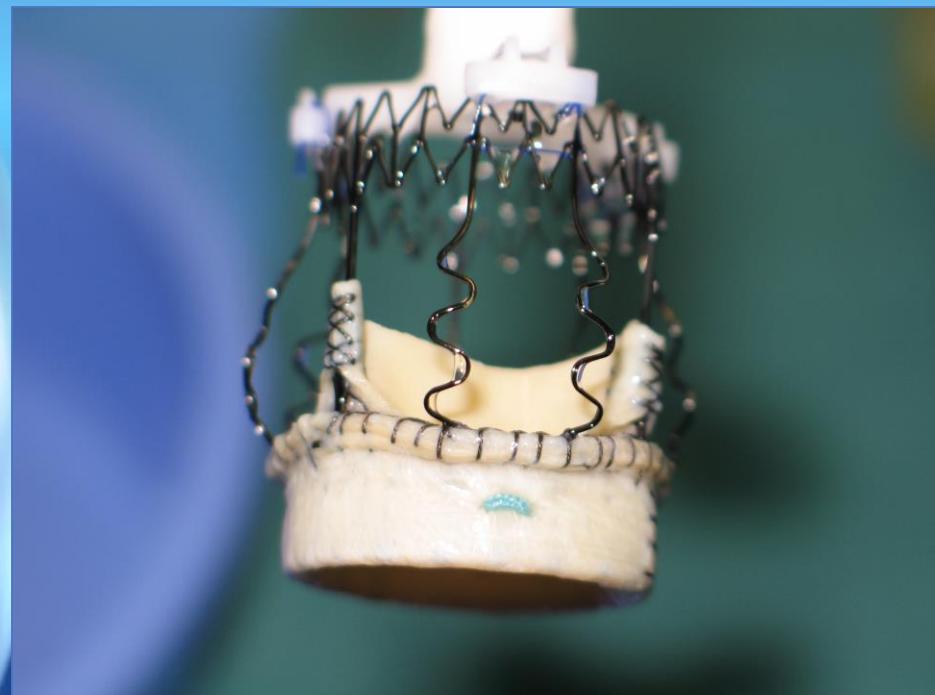
Sutureless Valves

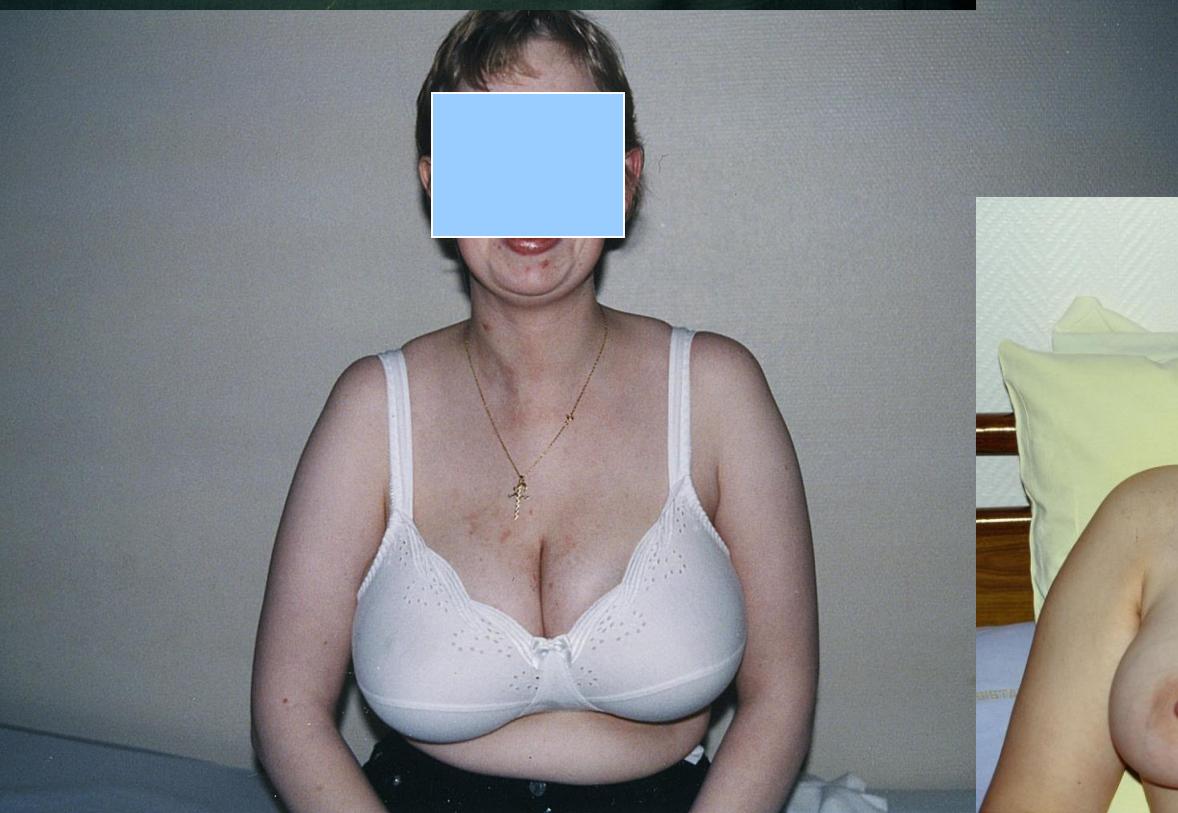
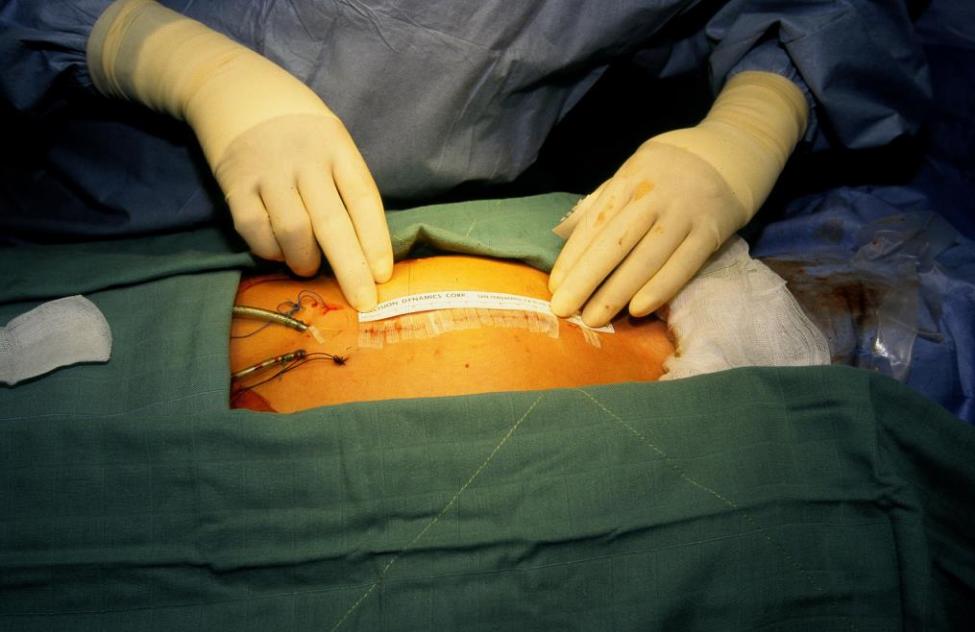


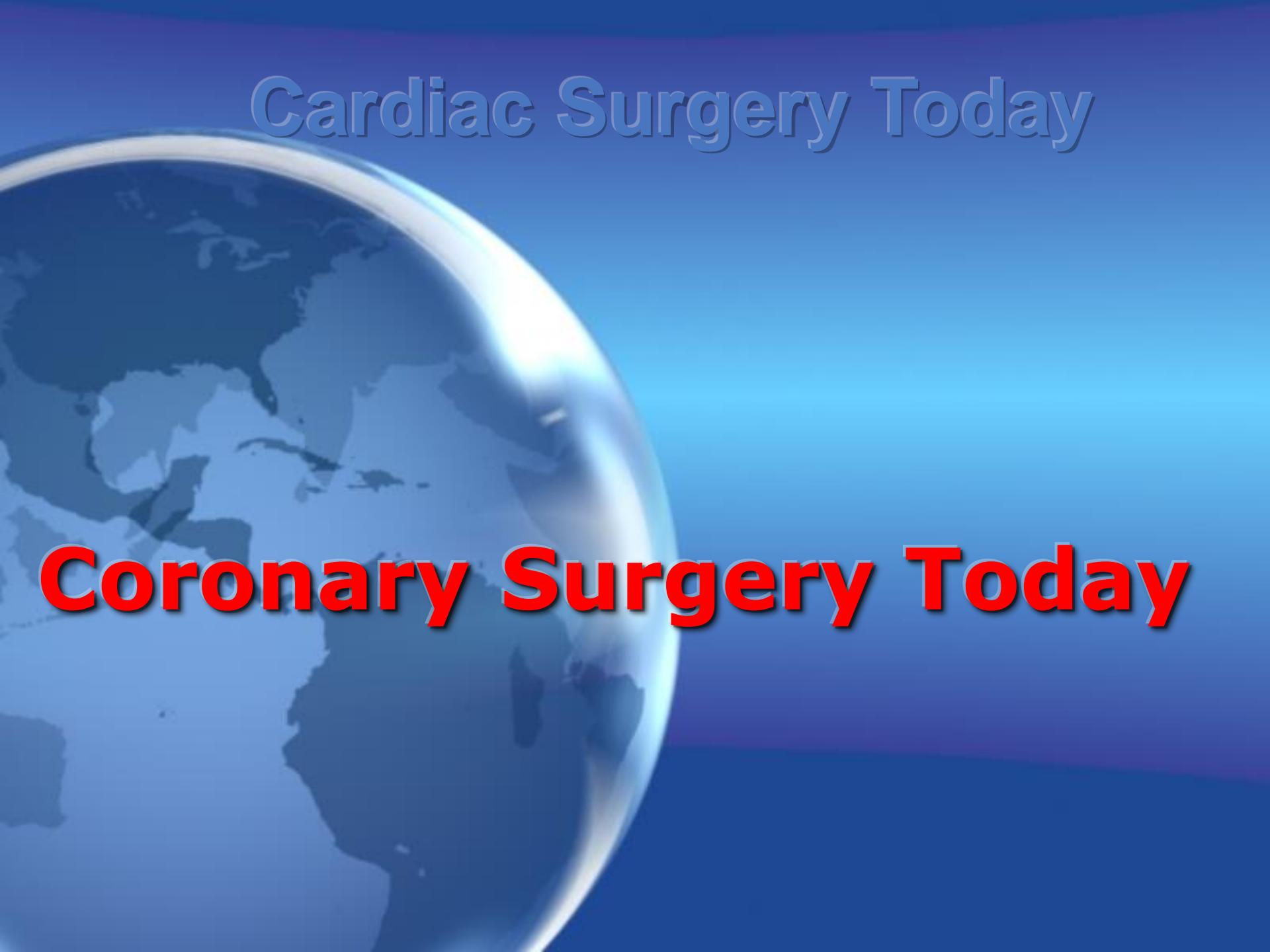
Cardiac Surgery Today

Sutureless Valves

Perceval







Cardiac Surgery Today

Coronary Surgery Today

Cardiac Surgery Today

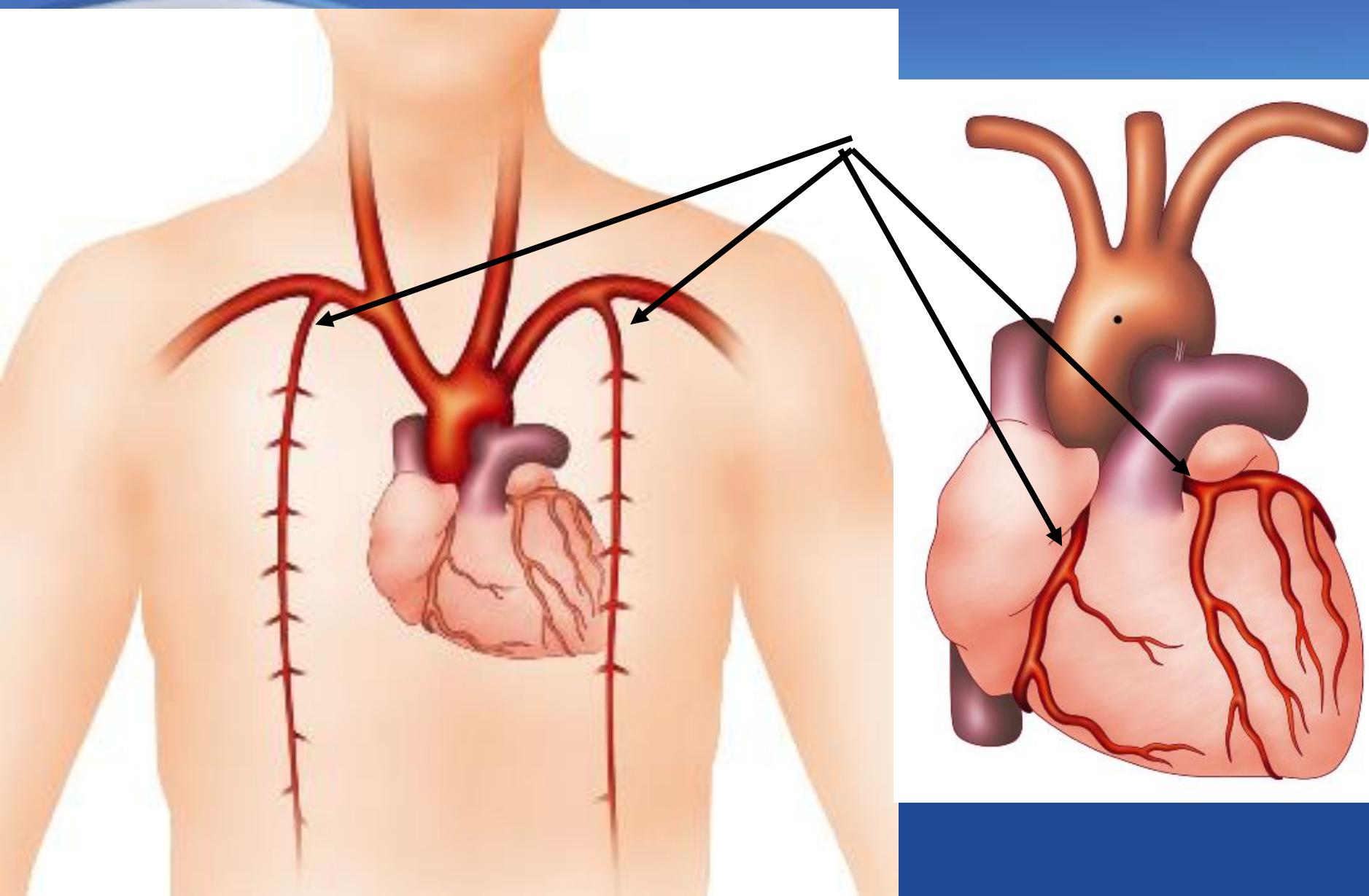
Coronary surgery today

"Anatomic Revascularisation"

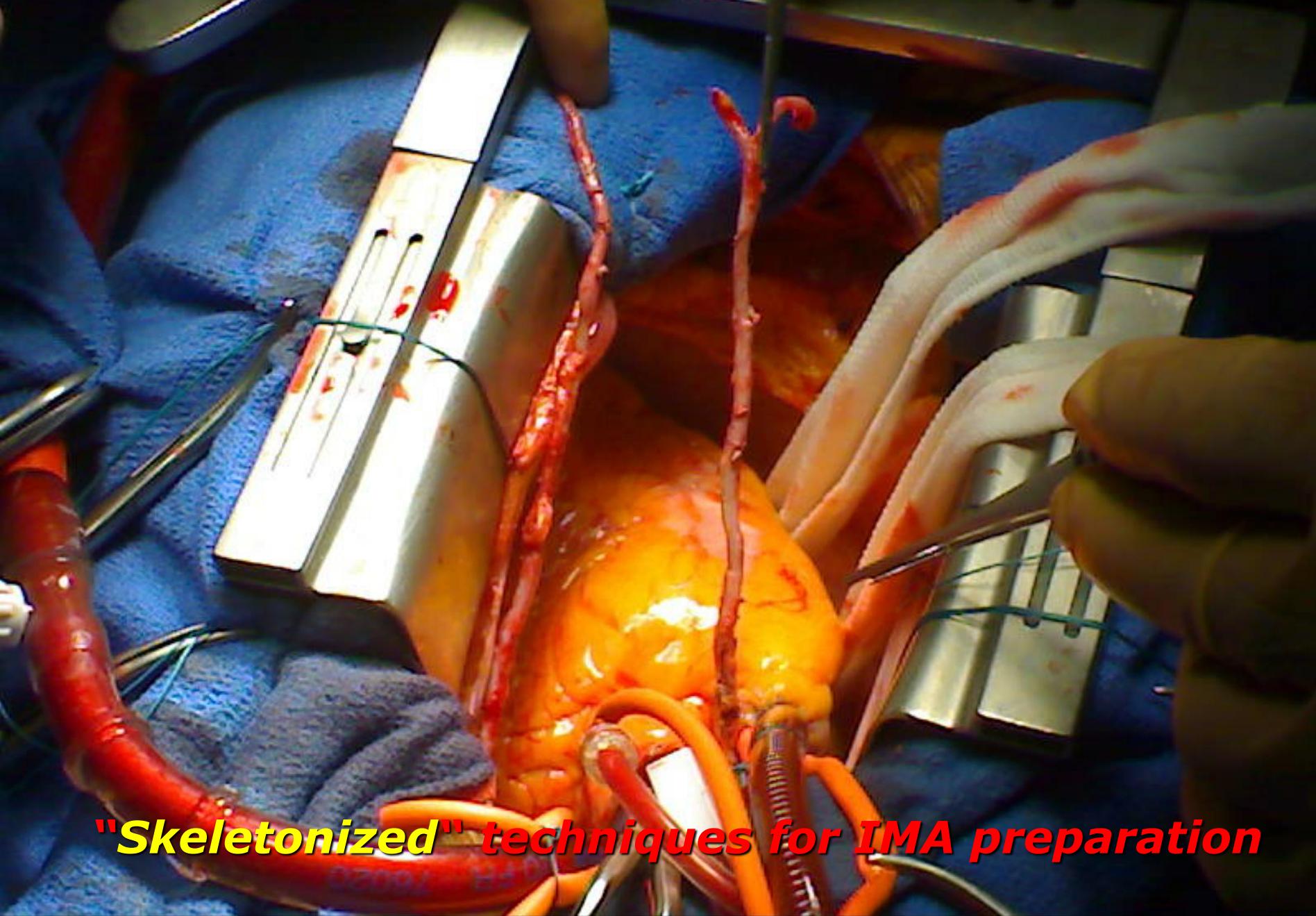
W.khoury, F.funck,G.Dambrin

Americcain Hospital of Paris ,CMC ParlyII

"Anatomic Revascularisation"

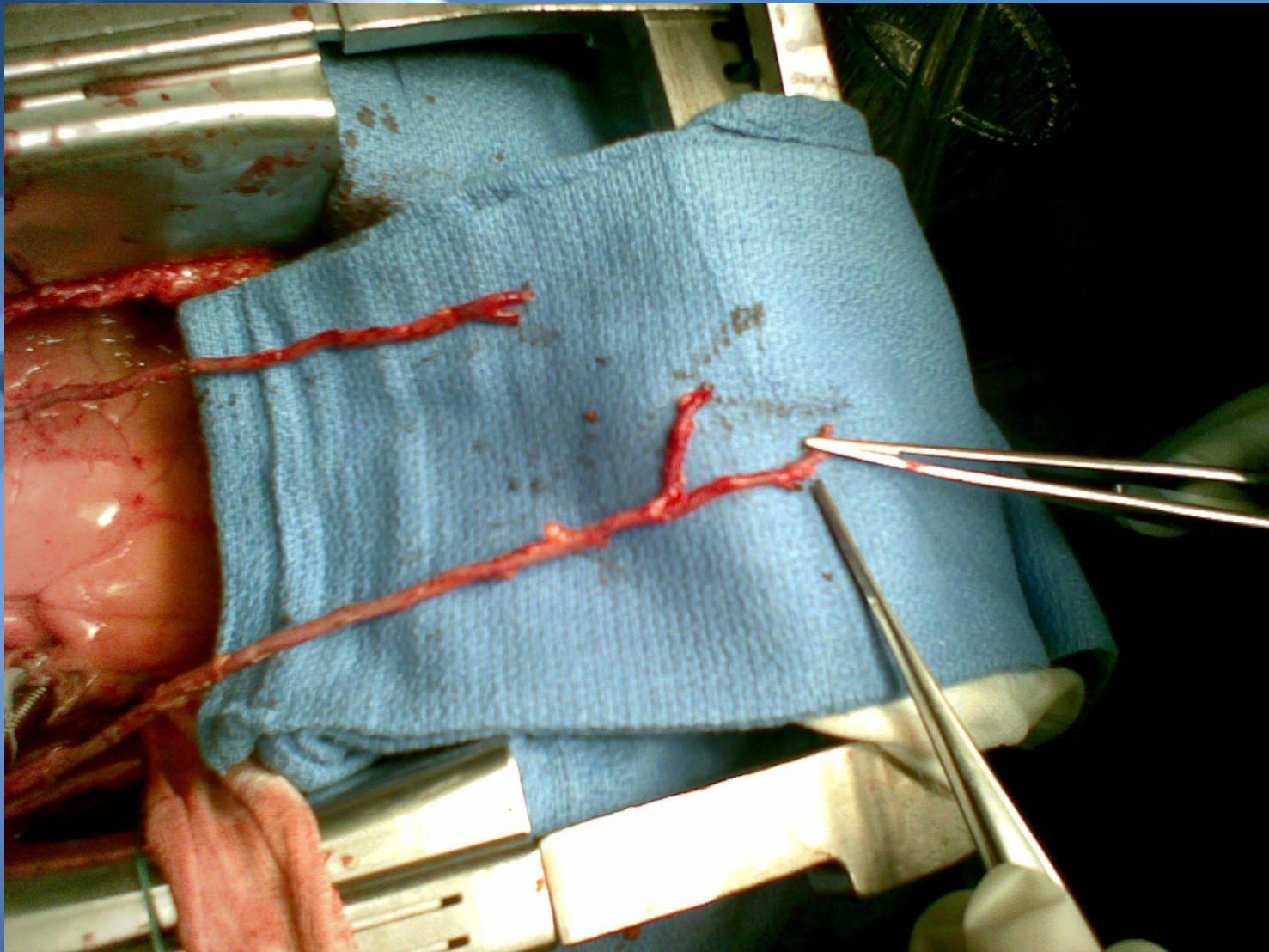


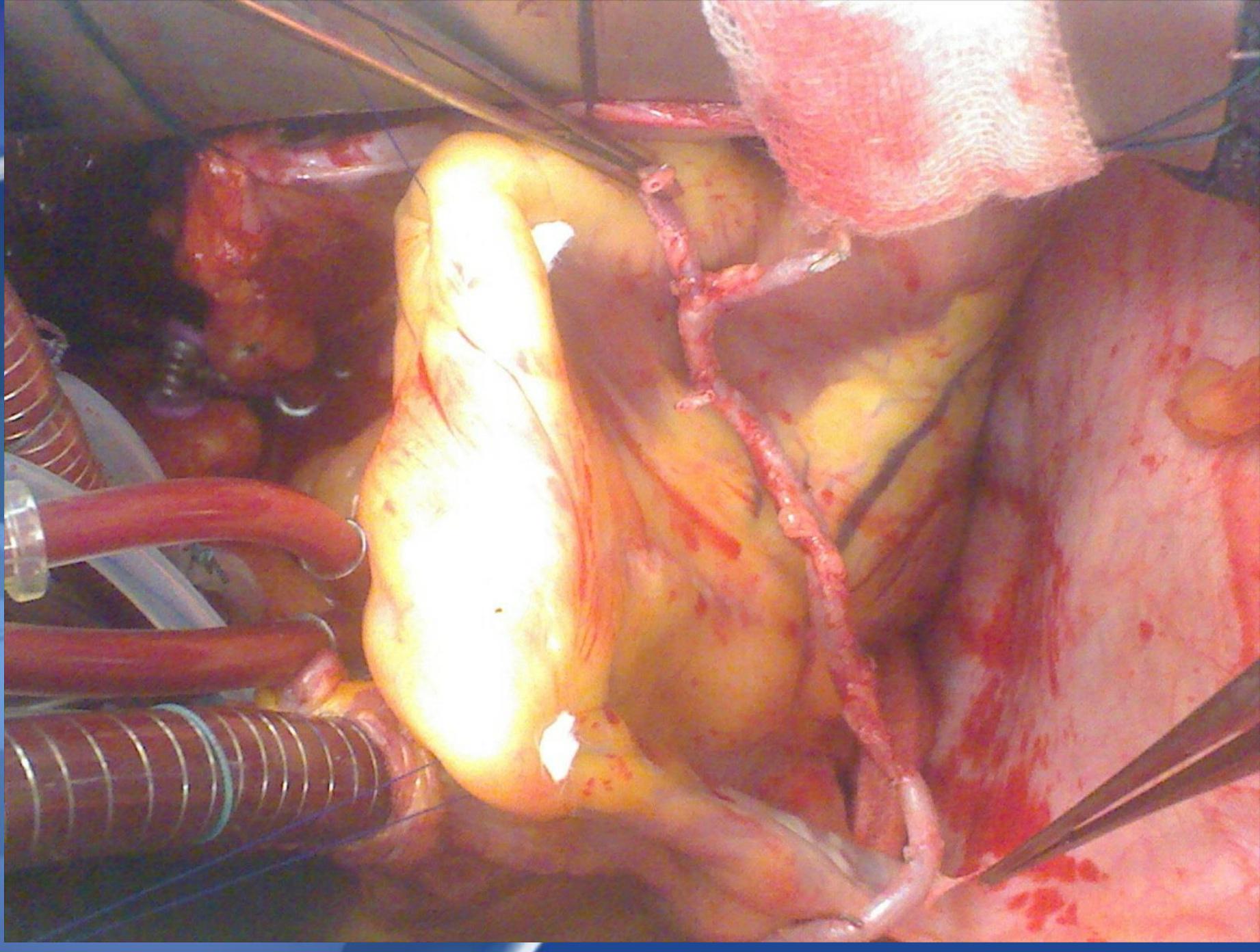
"Anatomic Revascularisation"



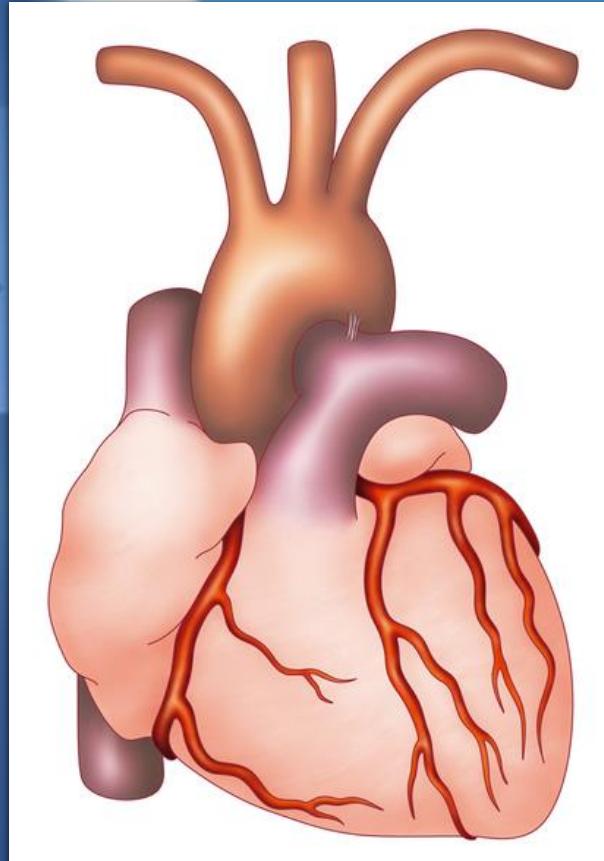
"Skeletonized" techniques for IMA preparation

"Anatomic Revascularisation"

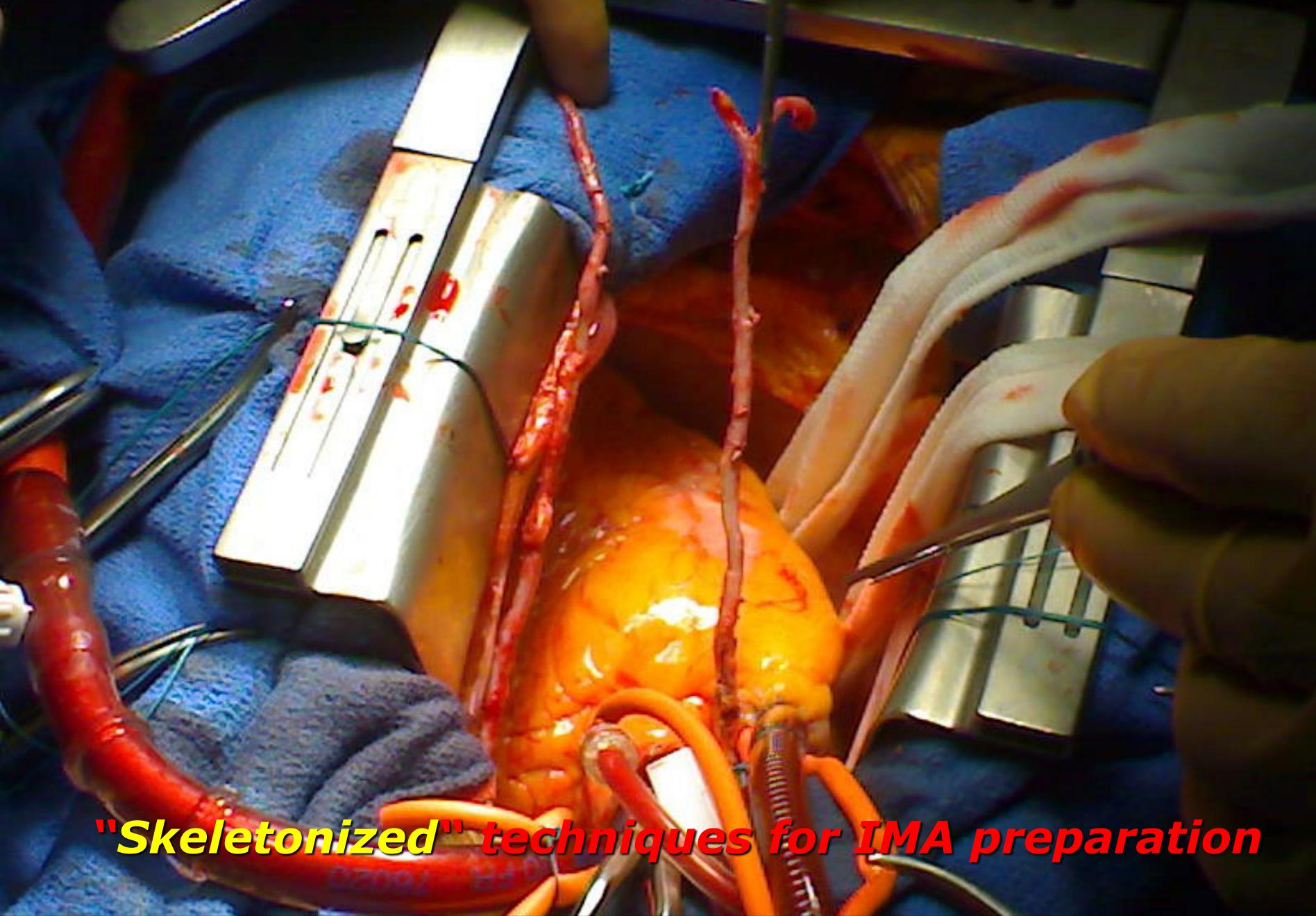




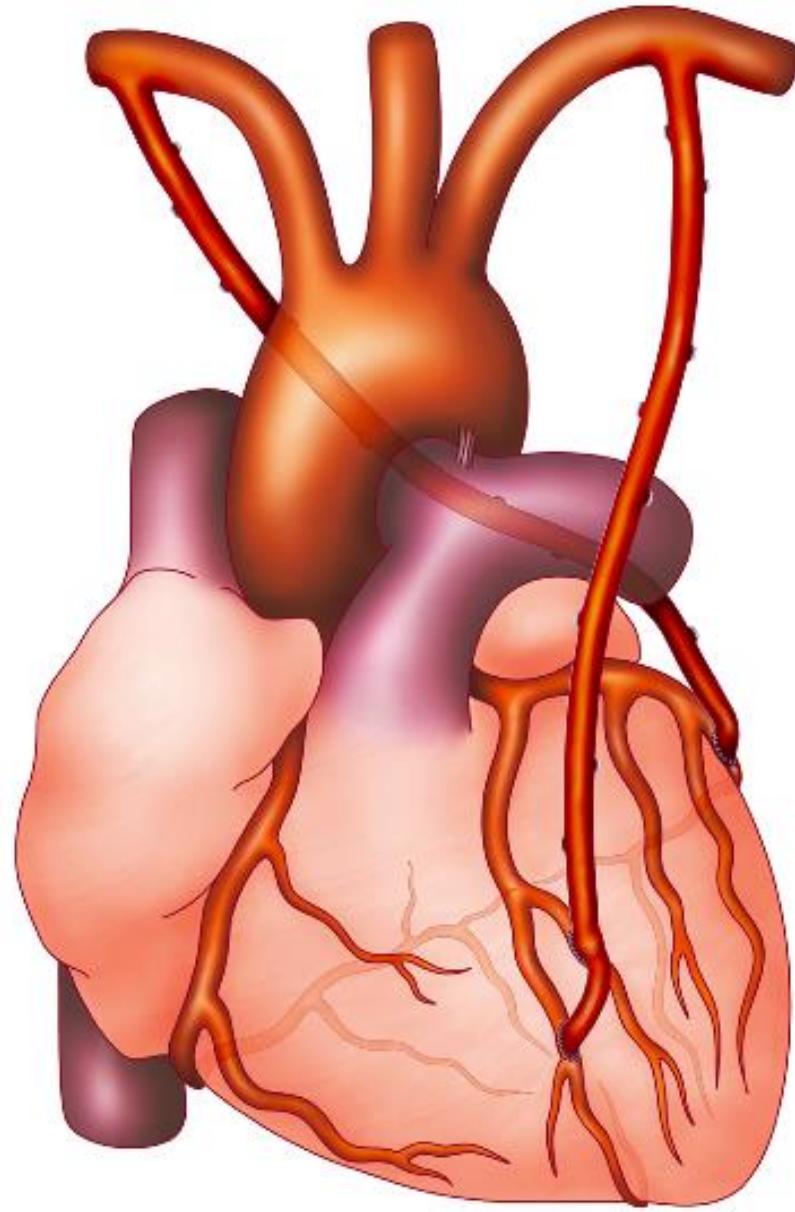
Coronary surgery today



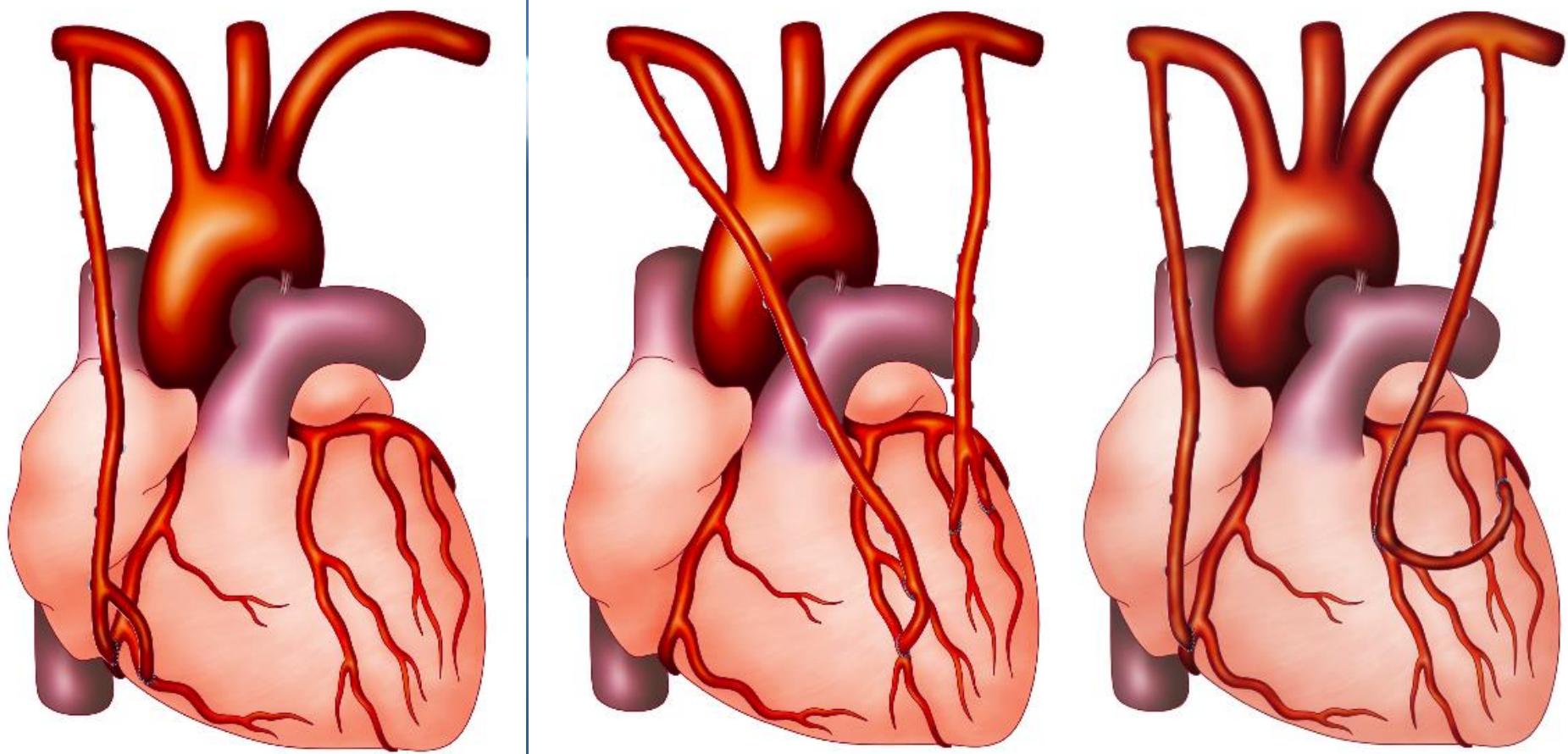
"Anatomic Revascularisation"



"Skeletonized" techniques for IMA preparation



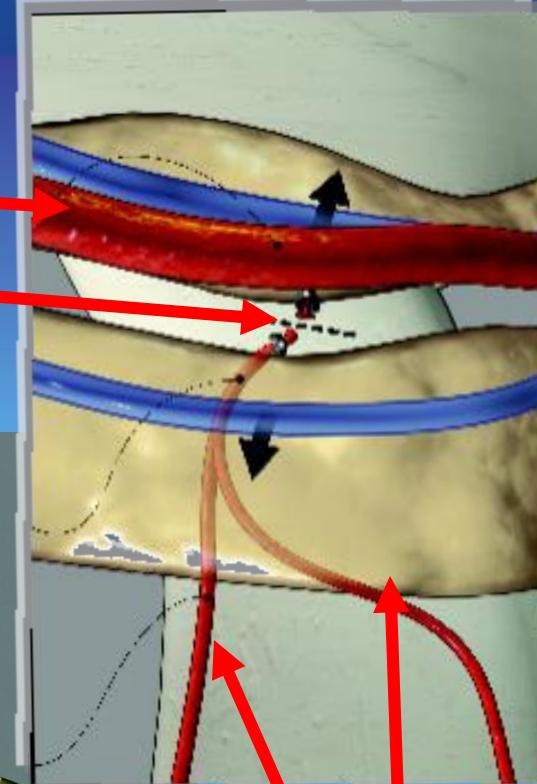
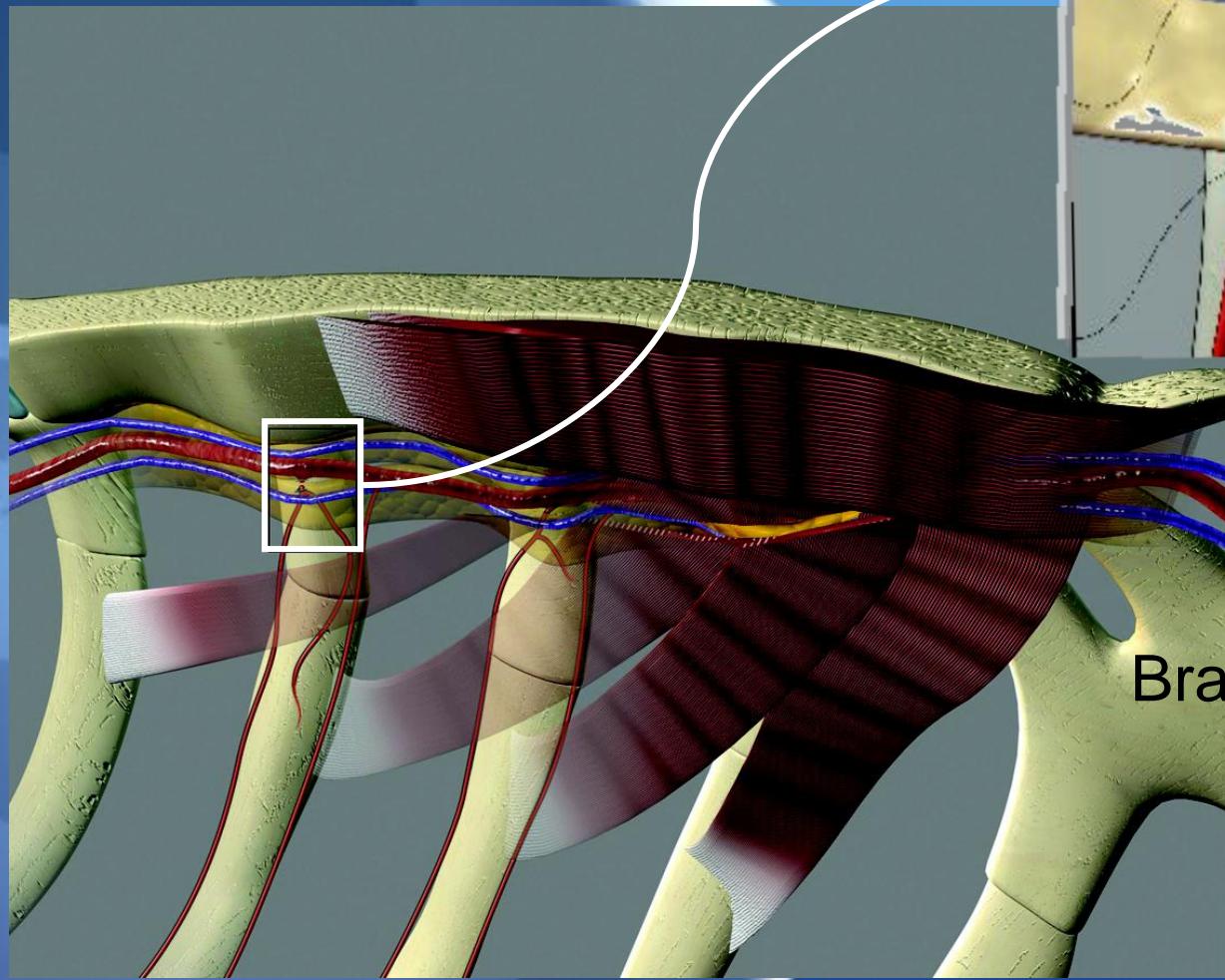
"Anatomic Revascularisation"



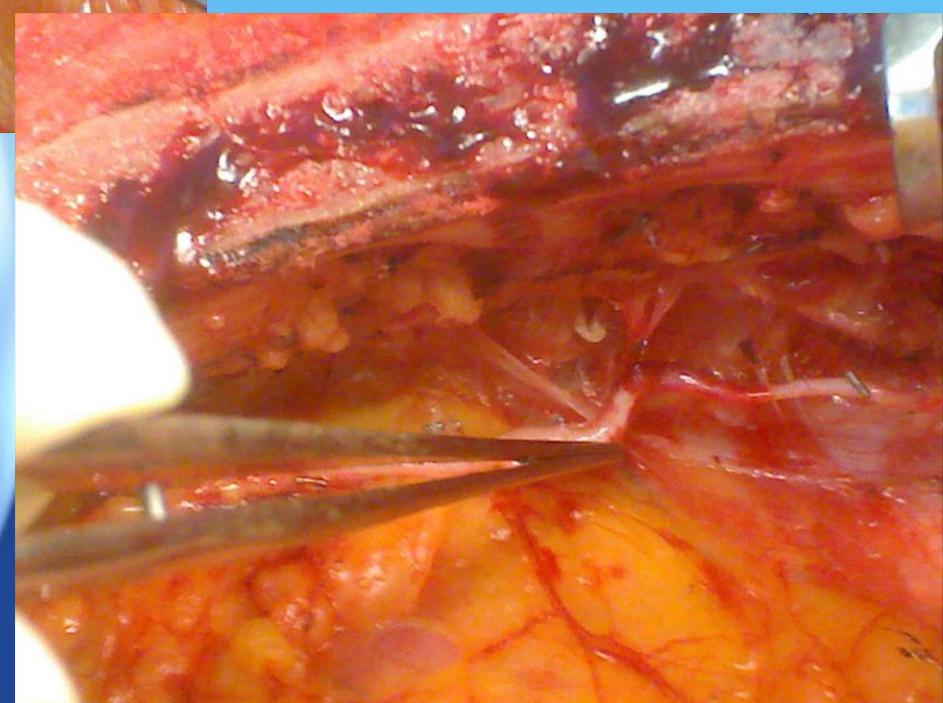
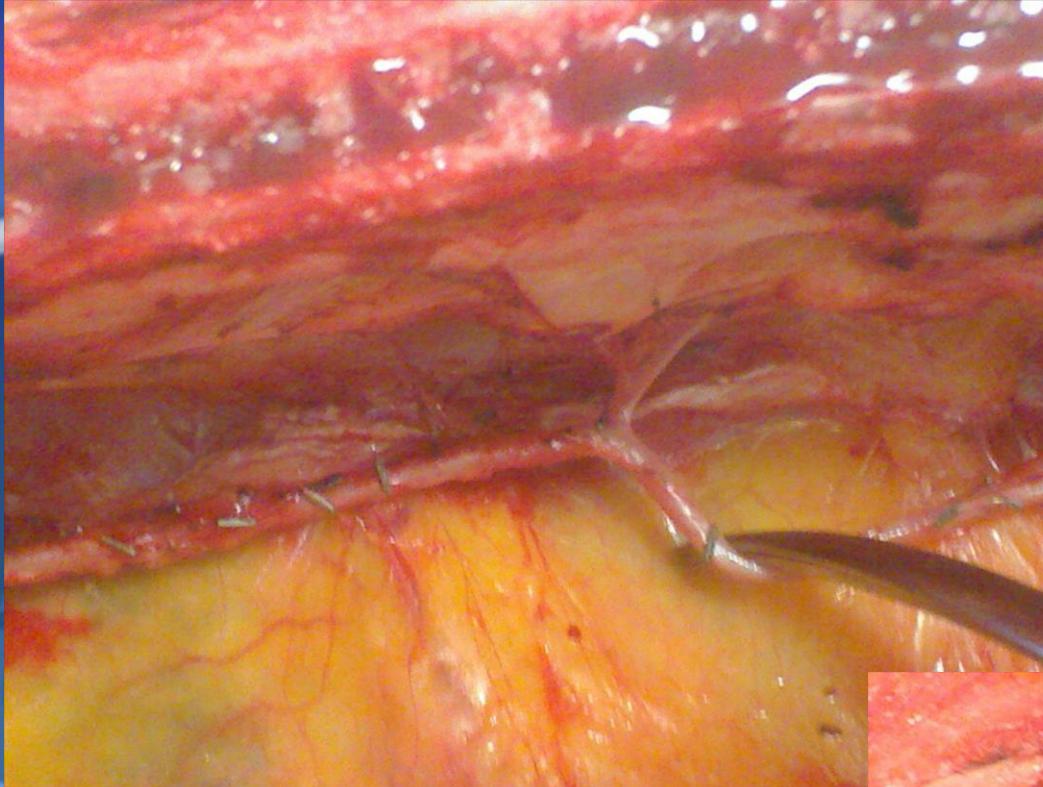
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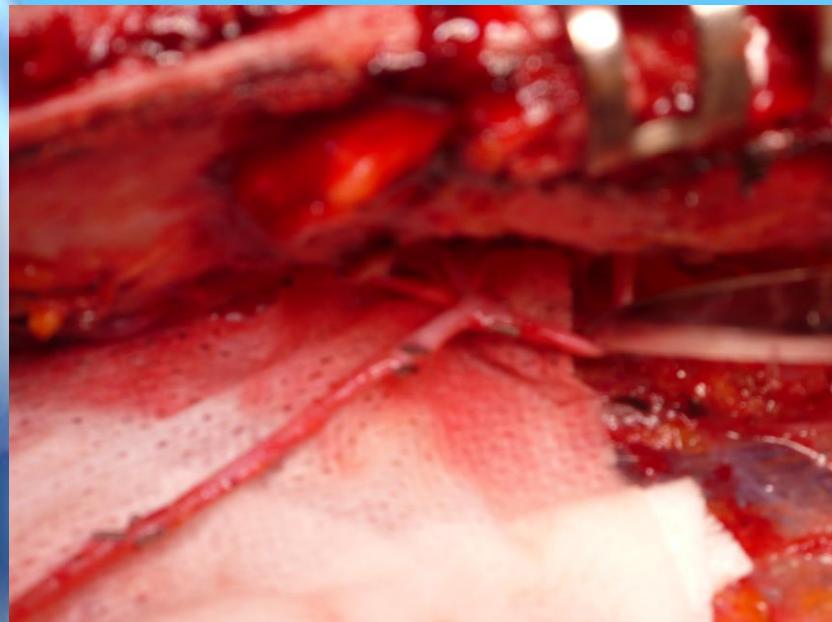
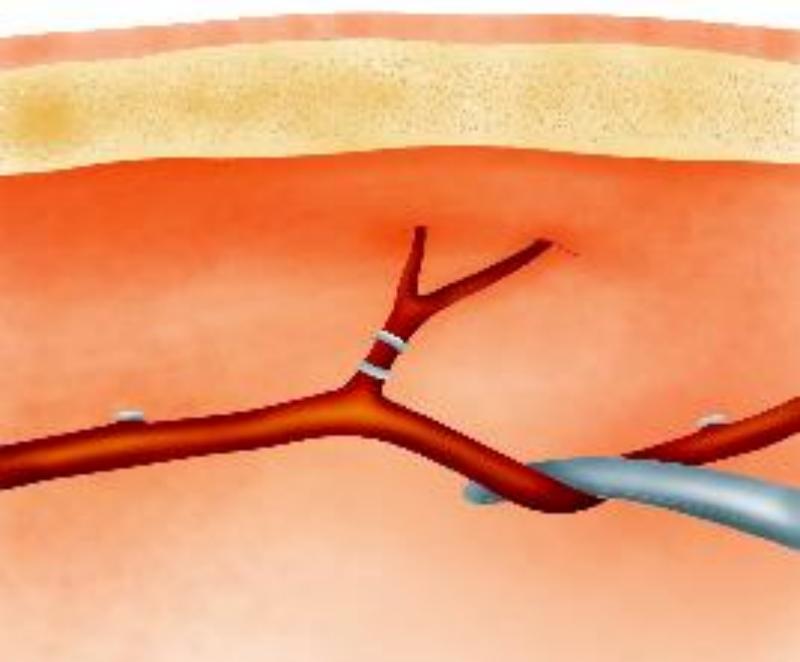
IMA

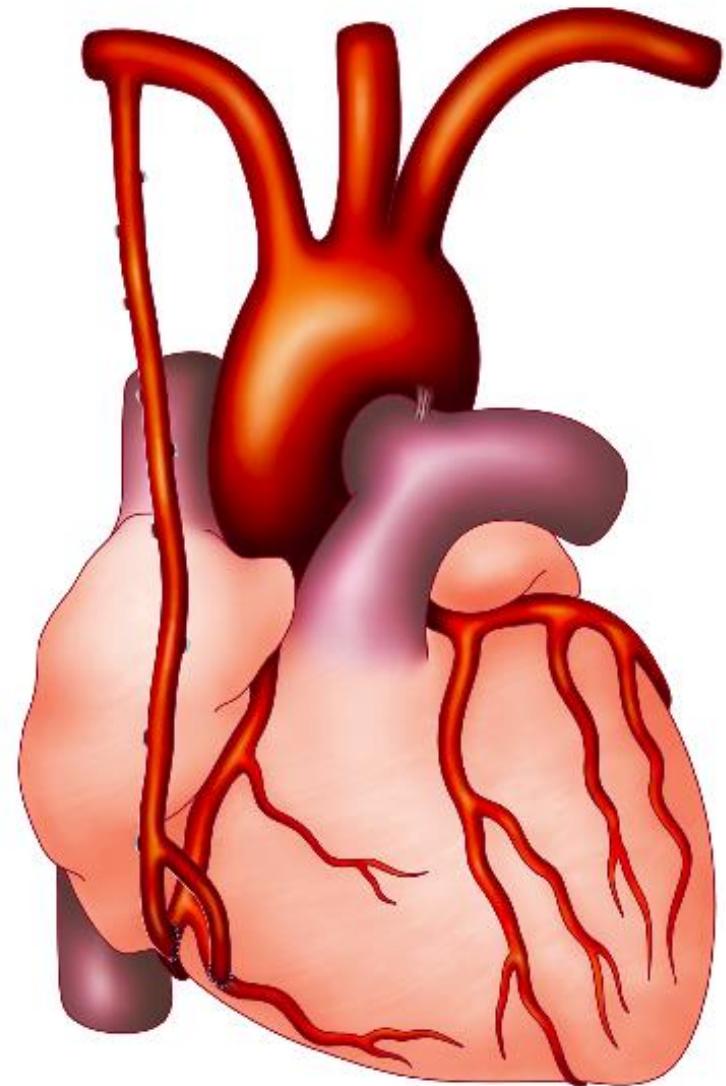
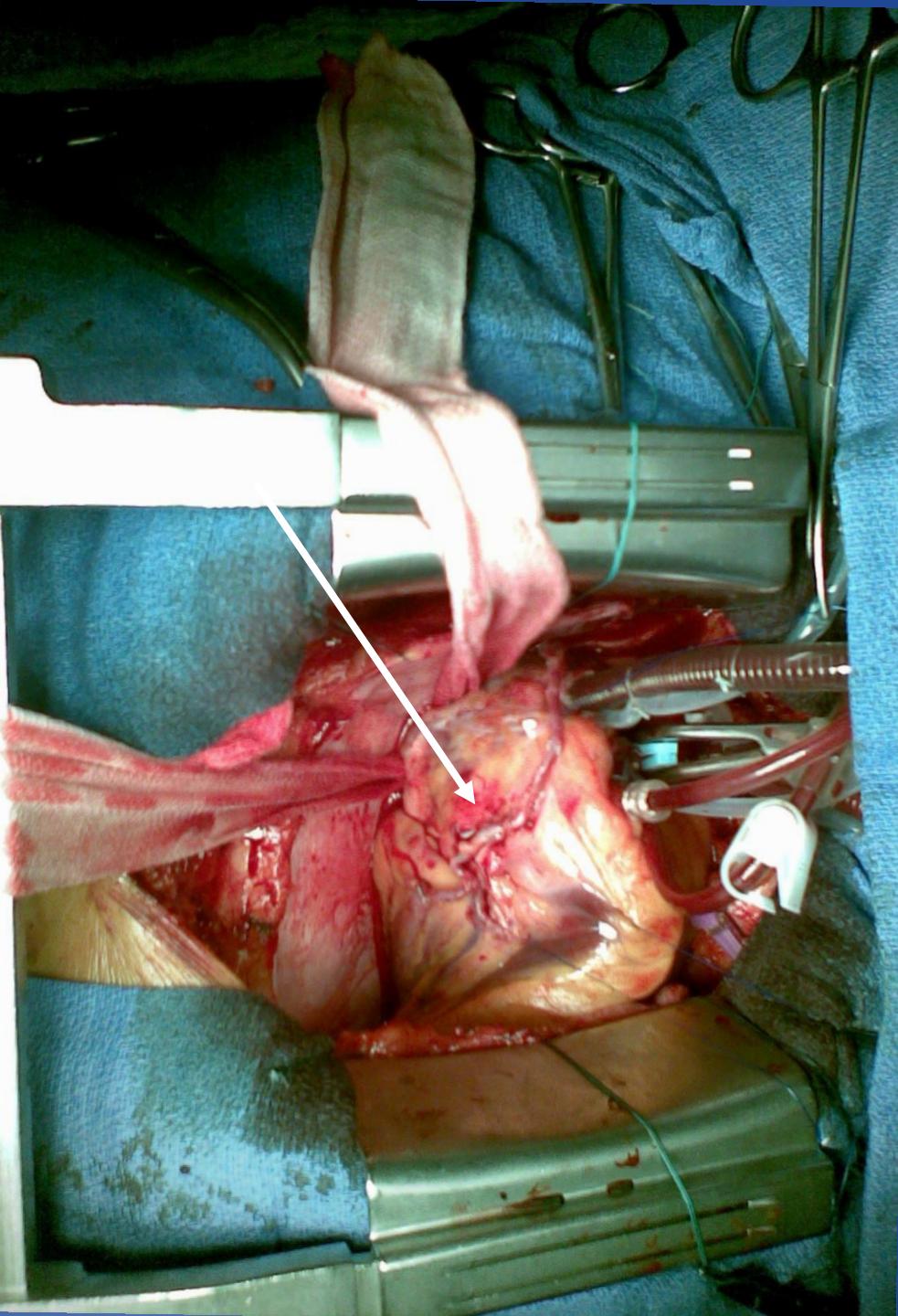
Tronc commun

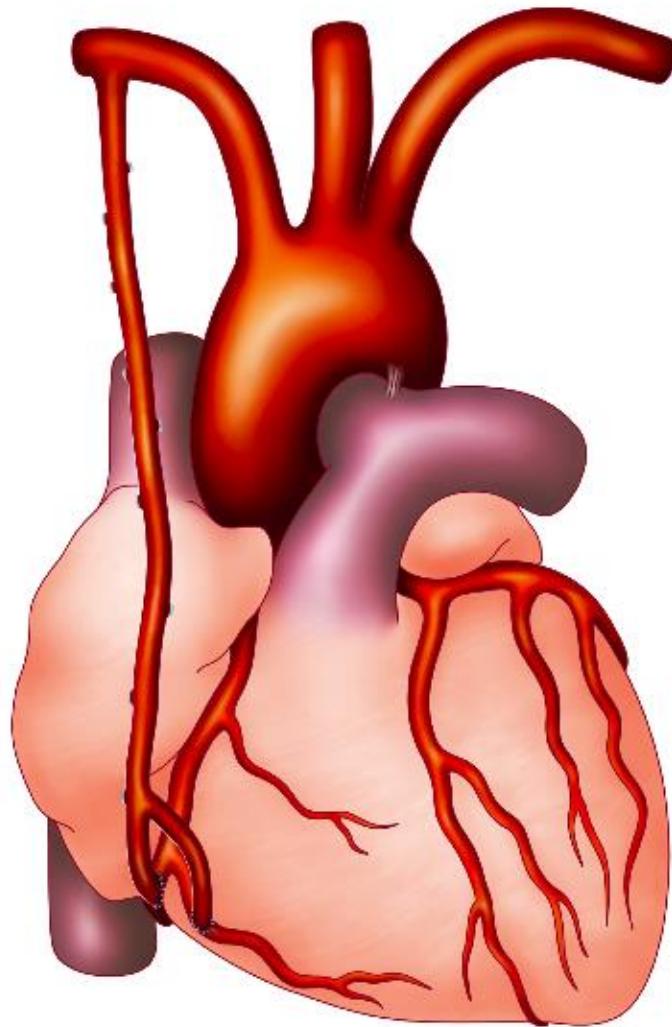
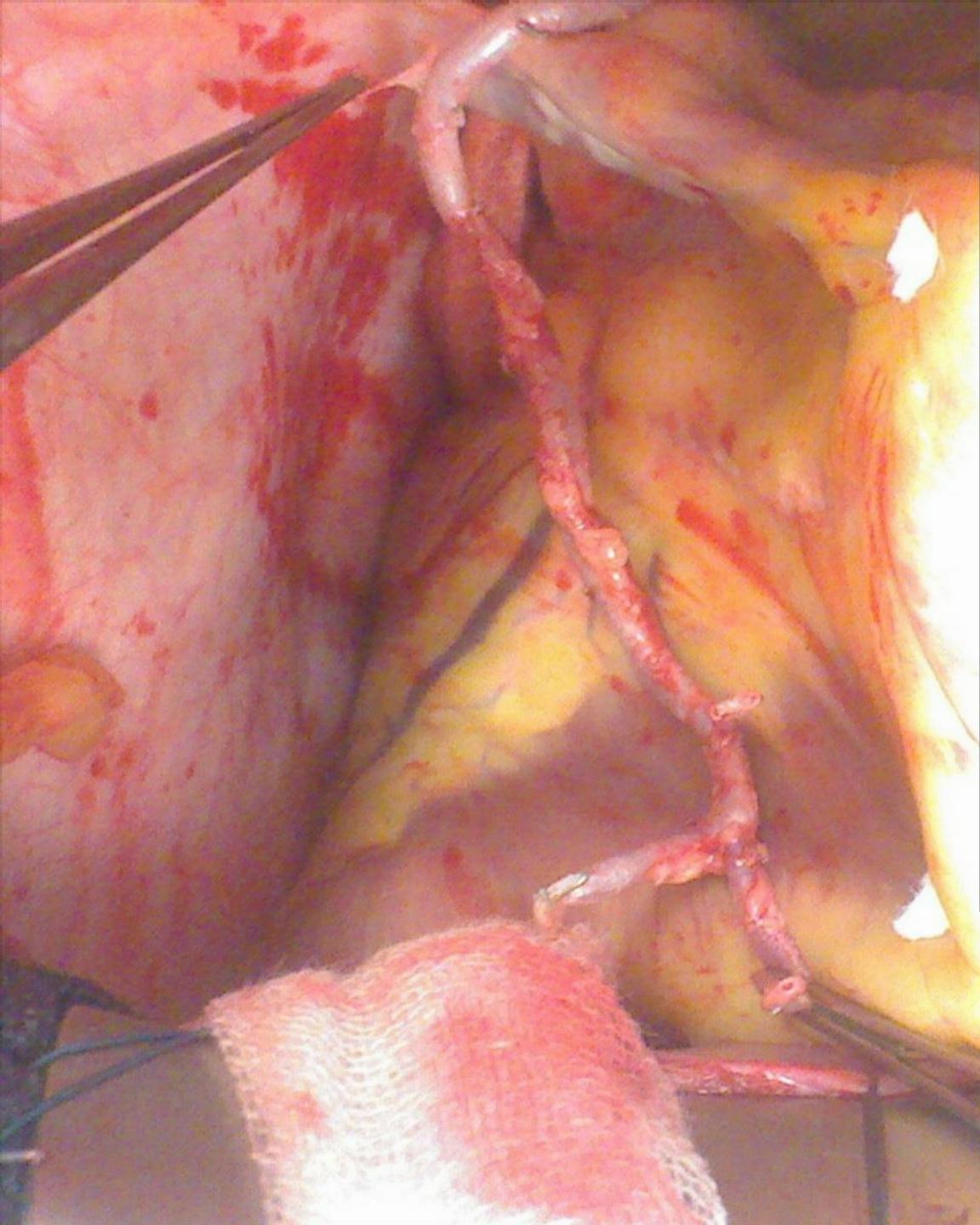


Branches intercostales



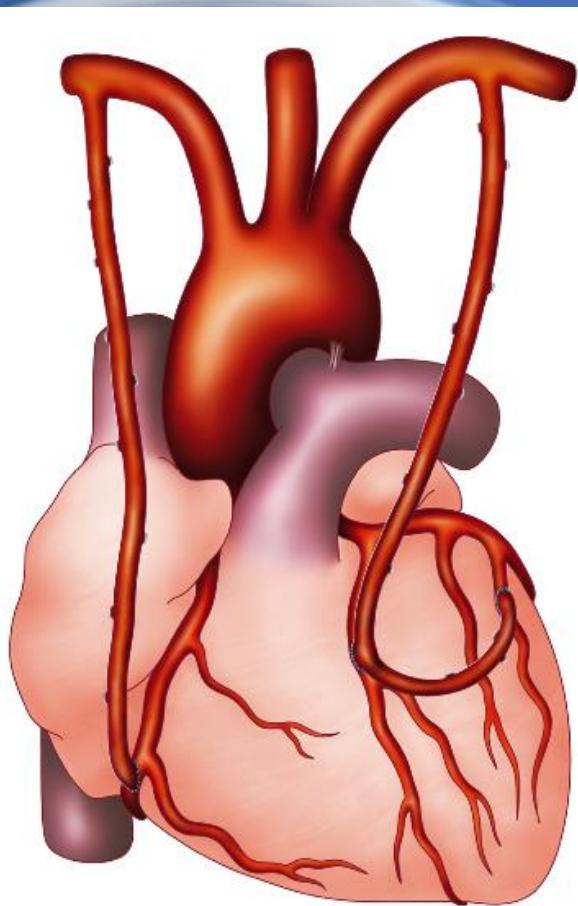


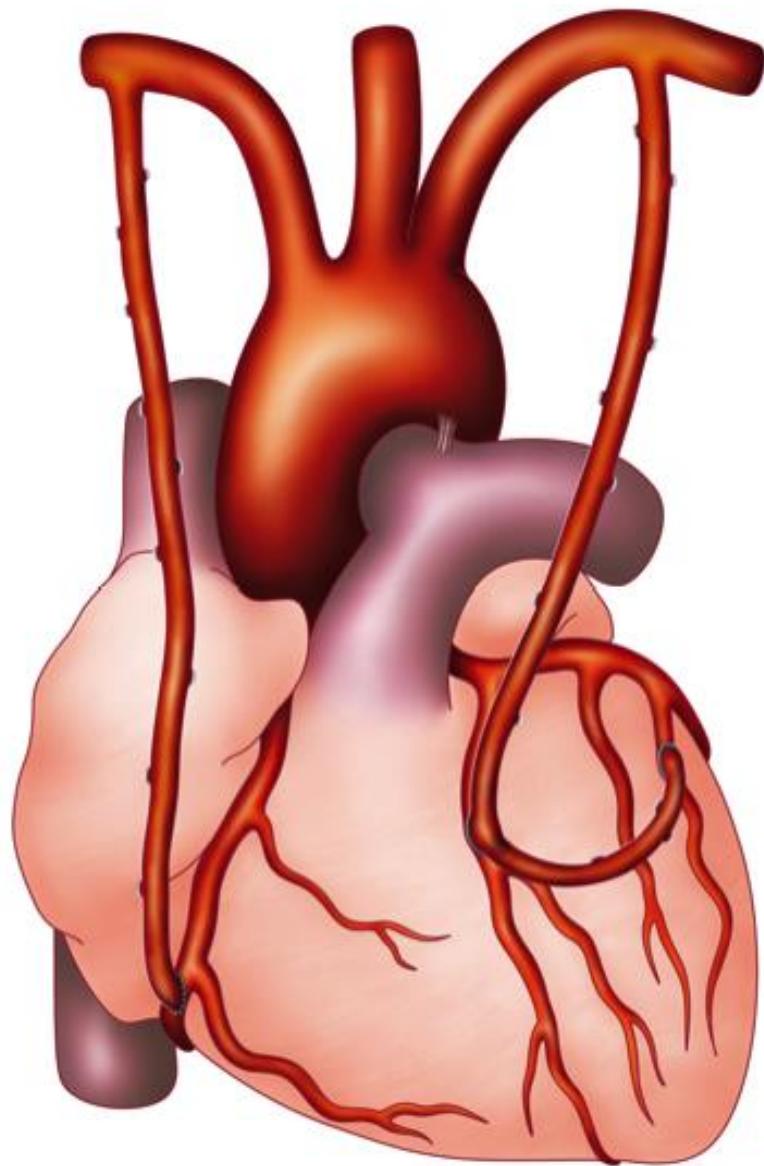




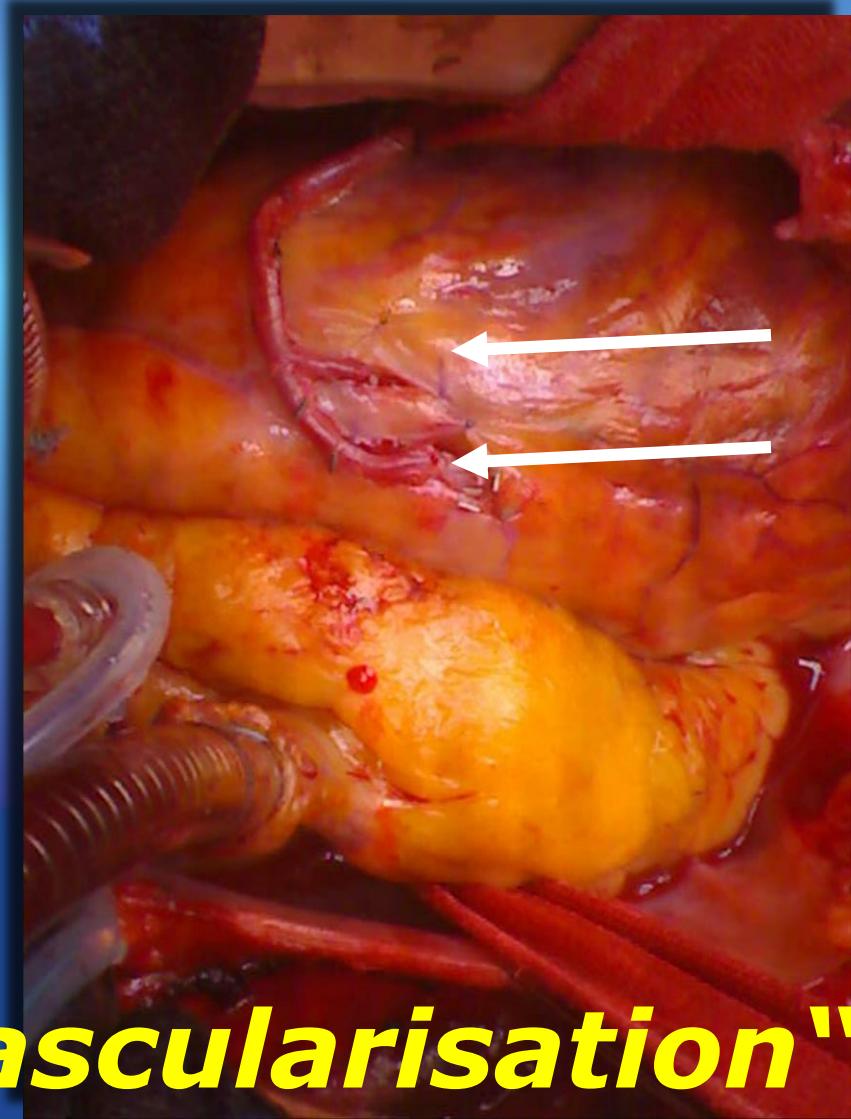
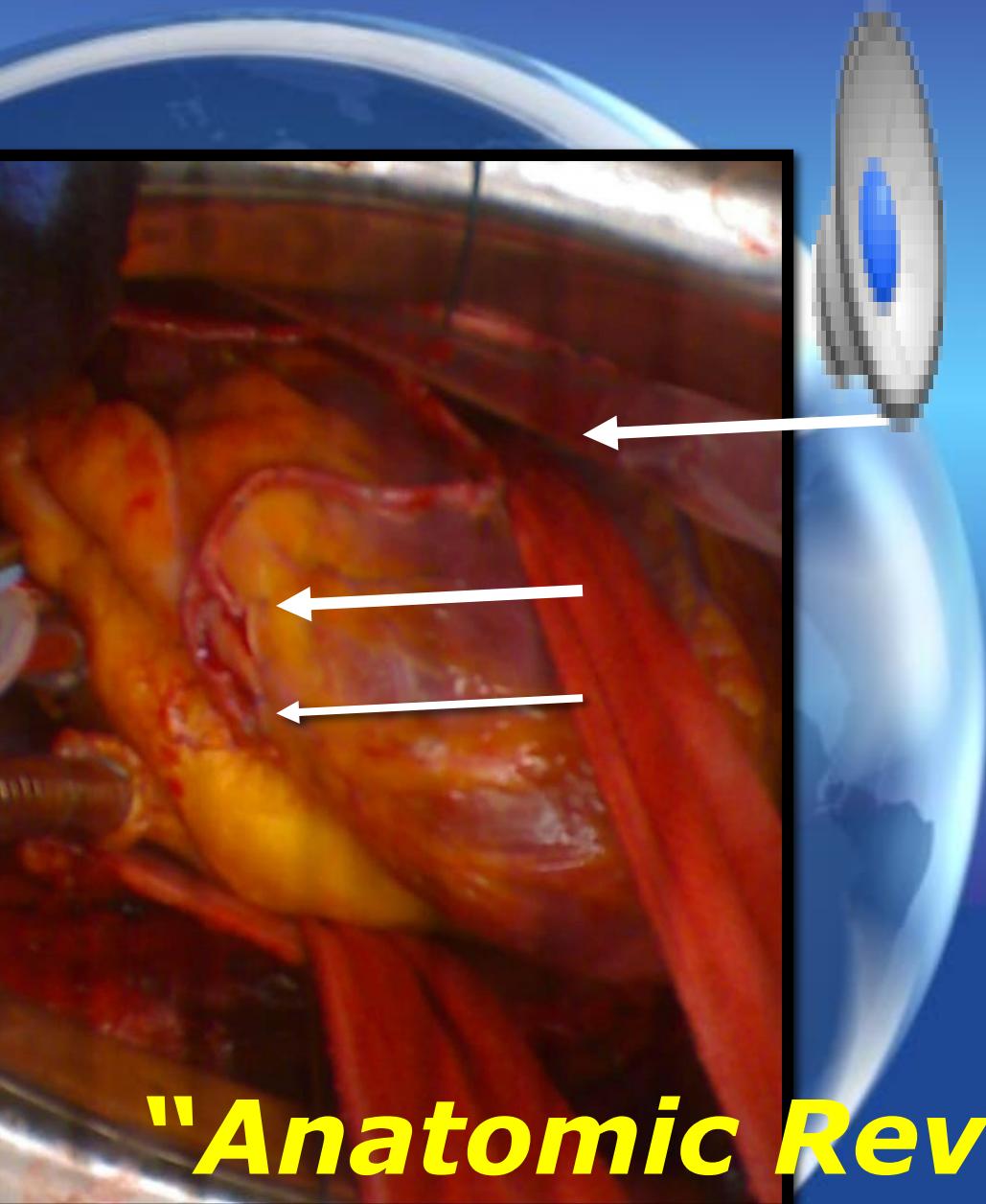
"Anatomic Revascularisation"

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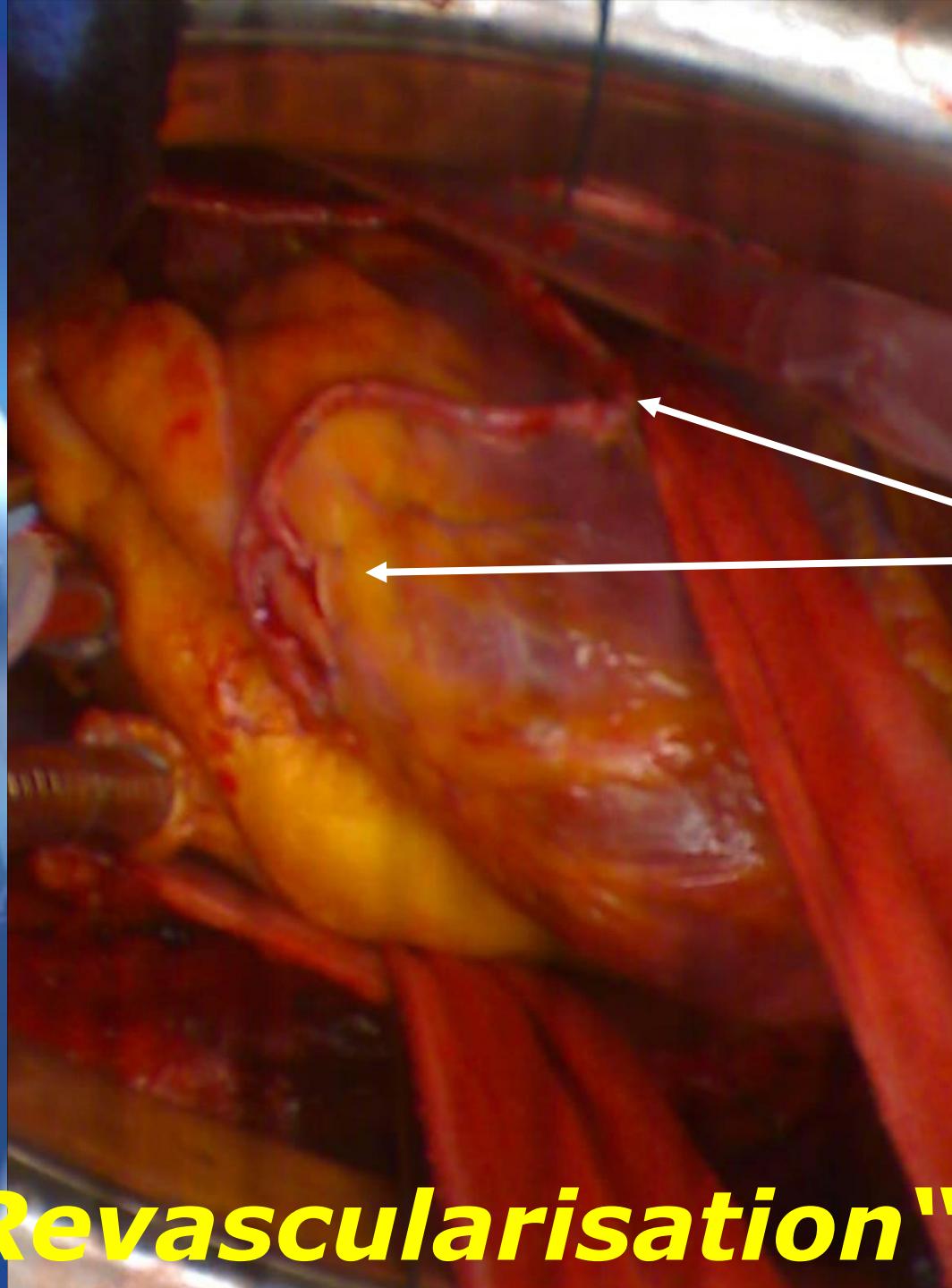




"Anatomic Revascularisation"

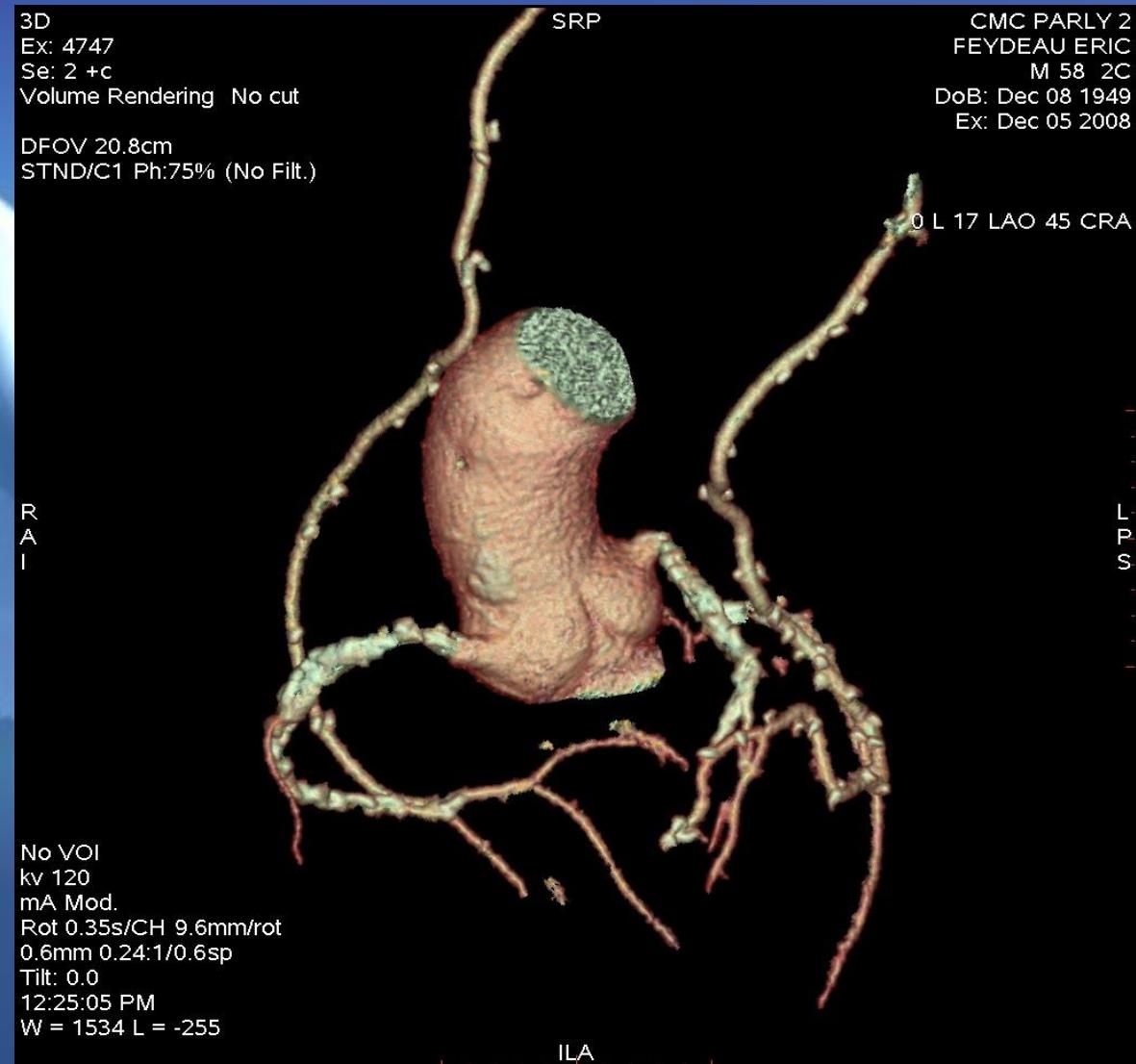


"Anatomic Revascularisation"



"Anatomic Revascularisation"

"Anatomic Revascularisation"



Gregoire Dambrin - CMC Parly II

"Anatomic Revascularisation"

SD

Ex: 4747

Se: 2 +c

Volume Rendering No cut

SRA

CMC PARLY 2

FEYDEAU ERIC

M 58 2C

DoB: Dec 08 1949

Ex: Dec 05 2008

DFOV 20.8cm

STND/C1 Ph:75% (No Filt.)

0 L 142 LAO 27 CRA

A
L
S

P
R
I



Coronaries

No VOI

kv 120

mA Mod.

Rot 0.35s/CH 9.6mm/rot

0.6mm 0.24:1/0.6sp

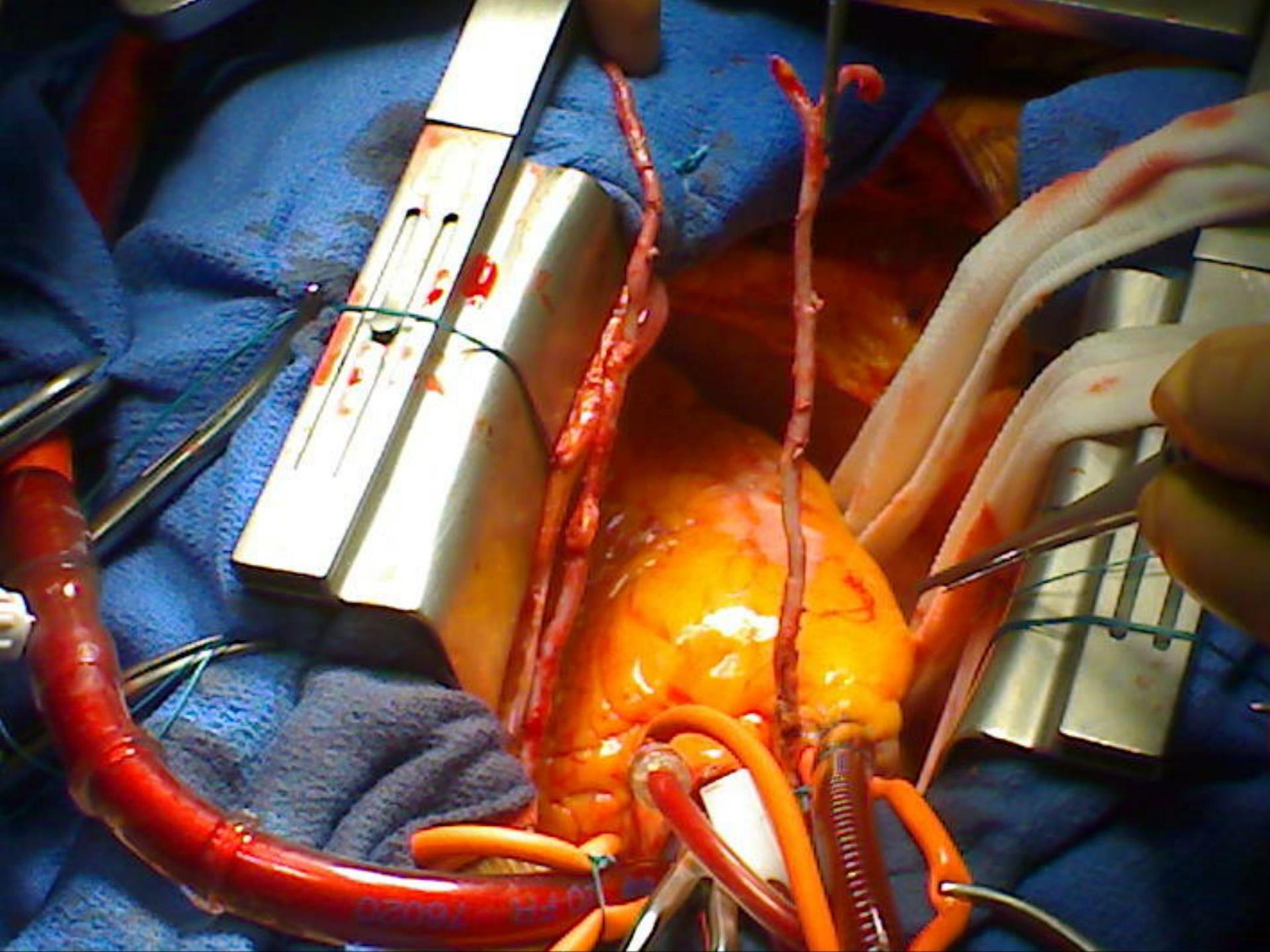
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12:25:05 PM

W = 1534 L = -255

ILP

Gregoire Dambrin - CMC Parly II



conclusion

~~robbot~~

~~Pump off~~

~~Grafts : radial~~

~~gastro epiploic~~

Bima skeletonized
+/- stenting

Venous

versus

stenting ?