

TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



WILL HE SUCCEED IN REPAIRING IT? ROLE OF ANAESTHESIOLOGIST

Dr. Trompeo A.C.
Anesthesia and Critical Care Department
Service of Cardiovascular Anaesthesia
University of Turin.



TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



Intraoperative: Anaesthesiological Management

- One Lung Ventilation
- Vein Cannulation
- Aortic clamping technique choice
 - Endoclamp 65
 - Transthoracic (Chitwood clamp)
- TOE analysis
 - Heart/mitral valve repair feasibility
 - cannulation/aortic clamp
 - post-repair mitral/tricuspid valve assessment
- NIRS cerebral oxymetry
- Post operative pain: different point of view

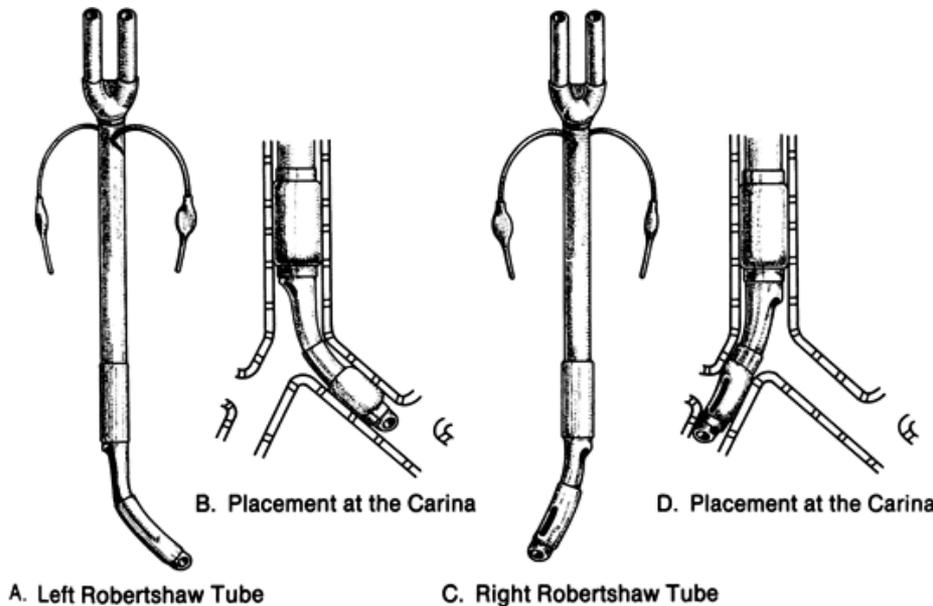
TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



OLV

Endotracheal intubation with a double lumen tube to allow single lung ventilation with collapse of the right lung during operation

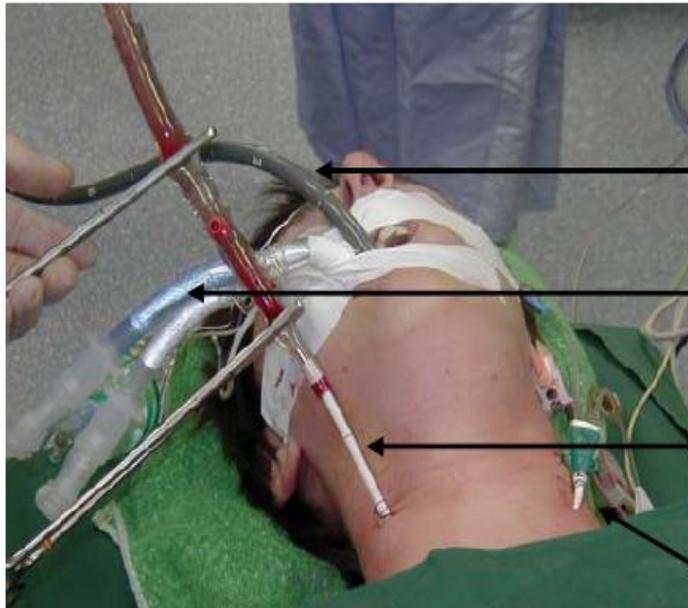


TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



VEIN CANNULATION



TEE probe

Double lumen
endotracheal tube

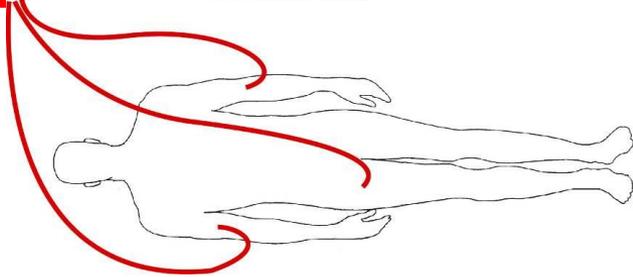
Cannula in the
right jugular vein

CVP line in the left
jugular vein

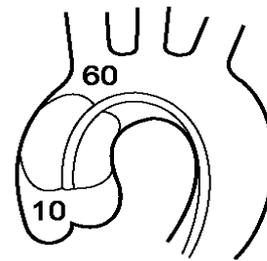


TURIN,
October
25th-27th
 2018
 Starhotels
 Majestic

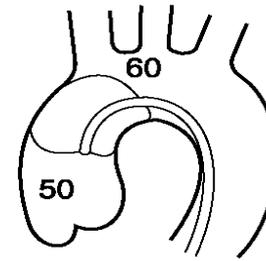
GIORNATE CARDIOLOGICHE TORINESI



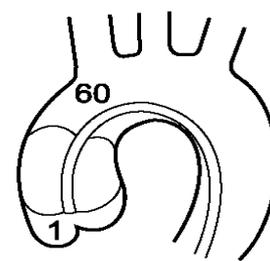
EndoClamp™ : Monitoring the Pressure Differential Across the Balloon



A. CLAMPING



B. ANTEGRADE
 CARDIOPLEGIA
 DELIVERY

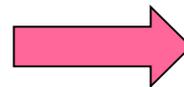


C. AORTIC
 ROOT
 VENTING

Main problems:

- Inflation volume depending on ascending aorta
- Balloon dislodgment: Sodium nitroprusside objective PP 60mmHg
- Aortic plaques/dissection

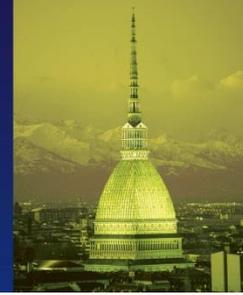
Monitor both radial artery to check balloon dislodgement



TEE ascending aorta diameter
 aortic LA 120°
 Descending Aorta SA

TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



Postoperative:

- 1) REDUCTIONS IN THE DURATION OF MECHANICAL VENTILATION WITH MINIMALLY INVASIVE APPROACHES
- 2) CPB AND CROSSCLAMP TIMES ARE LONGER WITH MI-MVR, BUT THERE IS NO EVIDENCE THAT THIS TRANSLATES INTO INCREASED MORBIDITY OR MORTALITY COMPLICATIONS
- 3) DECREASE OF POSTOPERATIVE ATRIAL FIBRILLATION CAN LEAD TO SEVERAL UNDESIRED OUTCOMES INCLUDING
 - THROMBOEMBOLIC EVENTS
 - PROLONGED HOSPITAL LENGTHS OF STAY
 - INCREASED
 - CASE COSTS.
- 4) STROKE AND DISSECTIONS

TURIN,
October
25th-27th
2018
Starhotels
Majestic

GIORNATE CARDIOLOGICHE TORINESI



TEAMWORK IS THE KEY TO SUCCESS

THANKS
FOR THE ATTENTION