



**A. De Gasperis Cardiac
Surgery Department
Niguarda Hospital - Milan**

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**EUROPEAN WEEK FOR THE PUBLIC HEALTH
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**The “A. De Gasperis” Cardiothoracic
Surgery Unit at Milan Niguarda Hospital
(Italy)**

⦿ performing Cardiac Surgery since the
1960s

⦿ symbolizes the Historical National
Landmark for Cardiologists and Cardiac
Surgeons Having Performed the

**First Italian Cardiopulmonary Bypass in
1956 and the First European Implant of
Valve Prosthesis in 1963**

The Cardiac Surgery Division

**within a large Department with the state of
art of different dedicated Wards**

**(General and Transplant Cardiology,
Paediatric Cardiology, Electrophysiology,
Cath lab, Thoracic Surgery, Vascular
Surgery, 4 operating rooms, 22 dedicated
ICU beds)**

**is busy with around 1200 cases
performed annually**

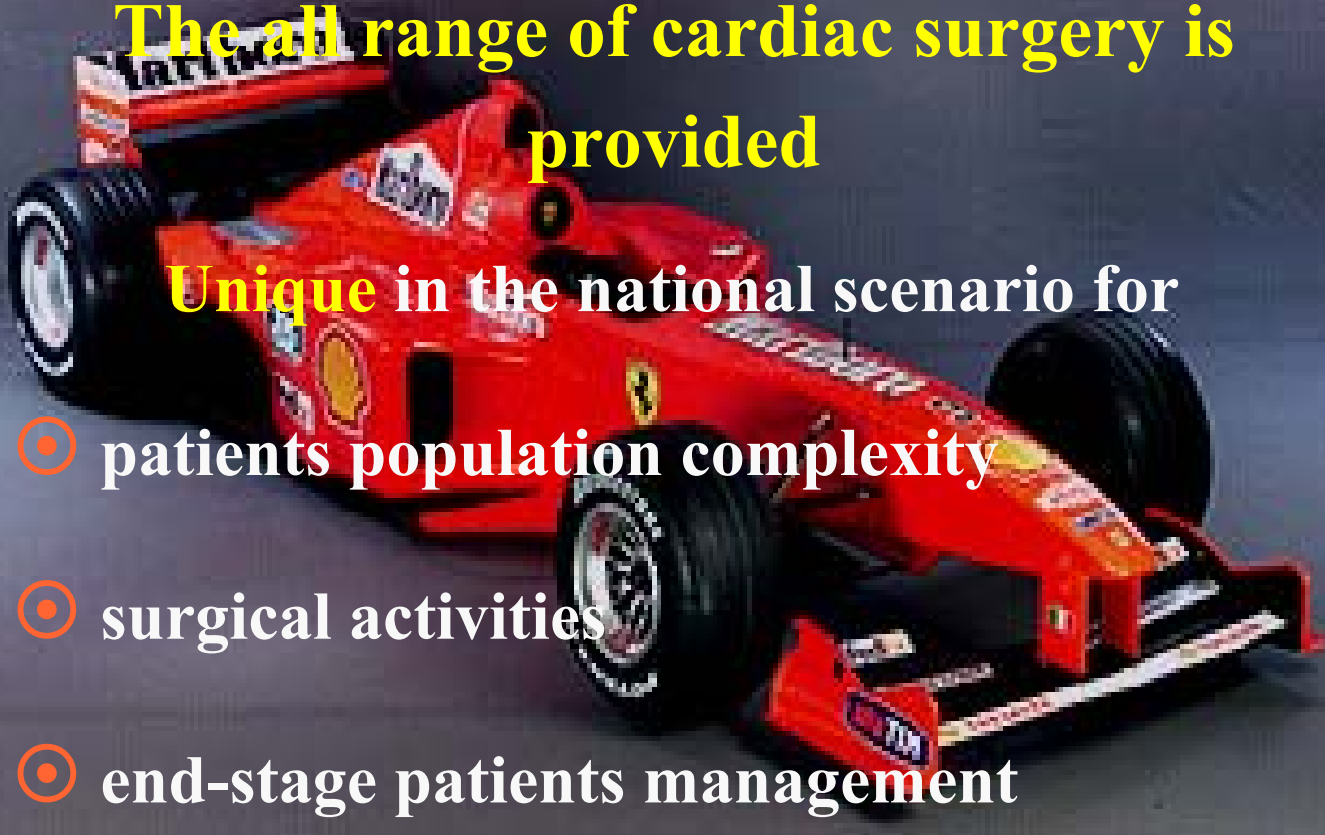
(adult and paediatric cardiac surgery)

“A. De Gasperis” Cardiothoracic Surgery

The all range of cardiac surgery is provided

Unique in the national scenario for

- **patients population complexity**
- **surgical activities**
- **end-stage patients management**

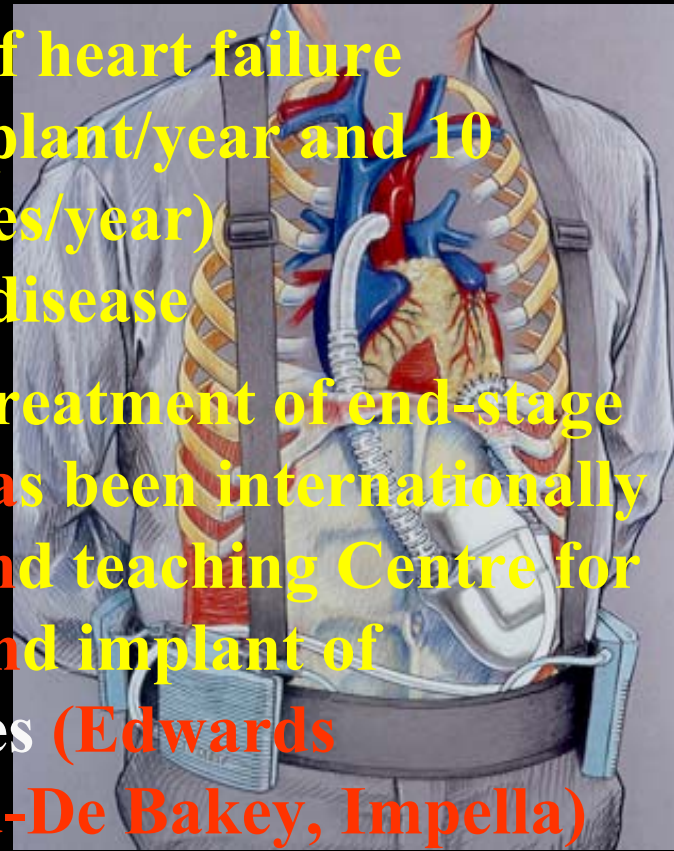


“A. De Gasperis” Cardiothoracic Surgery

Traditional and strong interests

- ◎ **surgical treatment of heart failure (around 50 heart transplant/year and 10 ventricular assist devices/year)**
- ◎ **surgery of valvular disease**

In the area of surgical treatment of end-stage heart failure the Unit has been internationally recognised as leading and teaching Centre for heart transplantation and implant of ventricular assist devices (Edwards Lifesciences, MicroMed-De Bakey, Impella)



“A. De Gasperis” Cardiothoracic Surgery

- there is also an active National Heart Research Centre (CNR)(GISSI study)**
- we contribute data to the Italian Society of Cardiac Surgery and to the Registry of International Society of Heart and Lung Transplantation**

U.K. NHS recently approval as unique Cardiac Surgery Unit in Italy to operate on British patients

Expression of interest

Research and clinical studies regarding heart failure:

- **Epidemiological assessment, cost and clinical use of mechanical assist device in a subgroup of patients with end-stage heart disease**
- **Experimental study on animal implant of staminal cells within a model of heart failure**

Expression of interest

Research and clinical studies regarding heart failure:

- **Clinical study on efficacy of use of myoblasty and Acorn device in patients with ischemic cardiomyopathy**
- **Clinical and experimental study on combined implant of steminal cells or myoblasty and clembutarol.**
- **Clinical assessment of biventricular pacing in patients with heart failure undergoing cardiac surgery**

Expression of interest

Research and clinical studies regarding aortic disease:

- Clinical study on genetic pattern of patients with aortic disease
- Prognosis of patients undergoing cardiac surgery for type A aortic dissection
- Clinical study of mitral valve disease evolution in patients with Marfan syndrome

Expression of interest

Research and clinical studies regarding valve diseases:

- **Study on patients with mismatch for small mitral prosthesis (size 23-25 mm)**
- **Experimental study on hystological changes in animals undergoing pulmonary replacement with bioprosthesis after (or not) the use of statine**

Expression of interest

Research and clinical studies regarding ischemic heart diseases:

- **Prospective multicentric study on results of medical and surgical coronary revascularization (cost, hospital admissions, events)**