

National Adult Cardiac Surgical Register : Initial Collective Data of 6 Collaborating Centers ,for the year ; 2004-2005

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On behalf of the Egyptian Society of Cardio-Thoracic Surgery We are trying to present the crude Aggregate Anonymous Adult Cardiac Surgical data of 6 major operating Units in Egypt .

Although there are around 42 registered centers practicing cardio-thoracic surgery in Egypt ; as an initial step we succeeded to collect data from 6 centers only . We hope that the number of participating Centers will increase next years until we or somebody to follow reach the target of presenting a full recorded data for the total number of centers practicing adult cardiac surgery in Egypt.

The Collaborating Centers were (arranged in alphabetical order) :

1. Al Azhar University
2. Insurance 6 october hospital
3. Kasr El Aini Hospital
4. Maadi Military Hospital
5. Nasser Institute
6. National Heart Institute

Table 1. Centers in Egypt practicing cardiac surgery

Center	University NHI	Health Insurance	Military	private	other
No	17	8	3	12	2
Total No. = 42					

NHI= National Heart Institute.

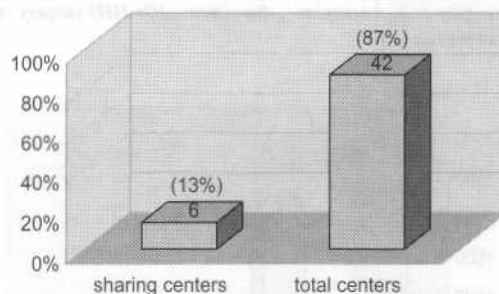


Fig 1. Number of Cardio-Thoracic centers who shared in the collective data collection for the year 2004-2005 from the total number of Centers practicing adult cardiac surgery in Egypt.

[Table 2.] shows the total number of cases done in the 6 sharing Centers with a total number of mortalities 247 (5.02%) which is a figure approaching the European and North American standards.

Table 2. Total No. of cases done in the six Main Sharing Centers

total	mortality	%
4919	247	5.02

Collective data provided from the above named 6 Centers is presented in [Table 3.] segregated according to type of surgery , without identification of separate Center Data . This policy was set by the Society Board

in order to encourage the remaining centers to come forwards with their data next time .

Table 3. Initial Collective Data of the 6 Contributing Centers

Item	Number of cases operated upon	Mortality	
		No	%
CABG	2713	118	4.3
Valve Surgery	2023	112	5.5
Complex Surgery	74	8	10.8
Other	109	9	8.2

Complex = combined surgery (e.g. Valve +CABG) Other = Thoracic Aorta surgery (e.g. Aneurysm , dissection...)Or IHD surgery (e.g. VSD , Aneurysm ...)

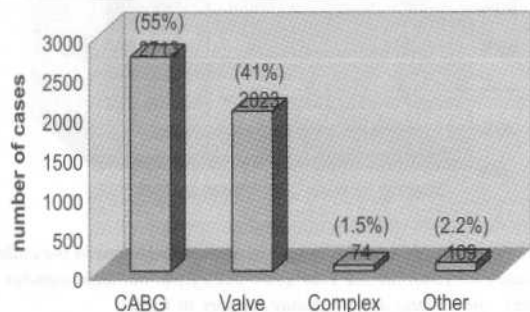


Fig2. Total number of adult cardiac cases performed in different types of surgery .

Valve Surgery

From the data gathered we tried to analyze the total number of cases performed in different types of surgery specially valvular and ischemic;

Table 4.Total Valve surgery

TOTAL	mortality	%
2023	112	5.5

[Table 4] shows the total number of valvular procedures

performed on adult patients while [Table 5.] divides them into separate categories according to the type of valvular surgery undertaken showing the total number of cases and mortality for each.

Table 5. Valvular Surgery

Item	No.	Mortality	
		No	%
Mitral valve repair	87	2	2.2
Mitral valve Replacement	989	56	5.6

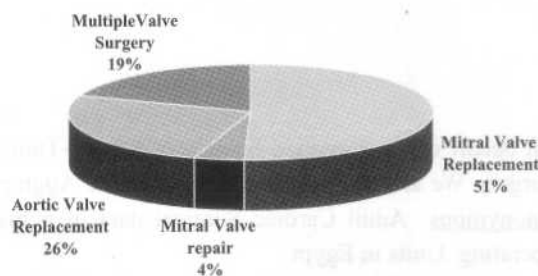


Fig3. Adult cardiac cases performed in according to the different type of valvular surgery undertaken

Coronary Artery Bypass Grafting

These collective data shows that the share of coronary artery surgery is now surpassing the valvular surgery which was at certain stage in Egypt the main portion of our work.

Still the Off-Pump Coronary surgery is far away from the western practice but yet has the coming years to evolve; may be in the next collective data collection.

Table 6. Total CABG cases done in six centers 2004-2005.

TOTAL	mortality	%
2713	118	4.3

Table 7.On-Pump versus Off-Pump Myocardial Revascularization

Item	Total Number	Mortality	
		No	%
On- Pump	2337	103	4.4
Off- Pump	376	15	3.9

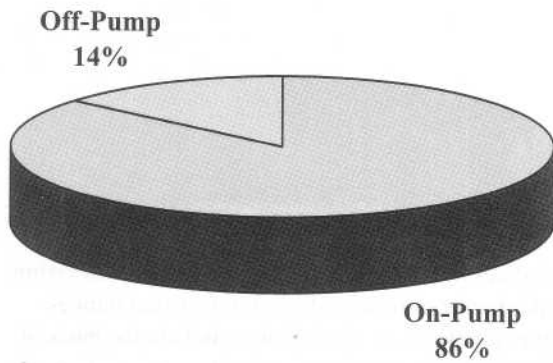


Fig4. On-Pump versus Off-Pump Myocardial Revascularization

Our main goal is to encourage the use of Unified Data registering sheet (suggested by the Society last year) ; Whether completed electronically or filled written on paper.

We hope to reach the day when all the Cardiac cases operated upon In Egypt are fully registered .

We will remain Anonymous Consultant and Center wise In order to encourage all the Egyptian Centers to come forwards with their data .Until we achieve that goal we will go step by step wishing next time that more centers are going to collaborate in this work.

Finally we are Aiming to have an Annual Vector of the Egyptian Cardiac Surgical Work , producing Data from all entries to be used for the basic aggregate and advanced statistical analysis .

As data collection and its statistical analysis remain the corner stone for any advancement in the field whether nationally or internationally ;I would like to introduce the next Statitics topic written in series by Dr Ahmed Hassouna ; who is trying to clarify some basic statistical tools needed for all the researchers and clinicians ..

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