

# Trip From Tibbiye-i Sahane to Mayo Clinic

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- Tibbiye-i Sahane (*current day Marmara University*) is the first medical school in Ottoman Empire and was founded by Sultan Mahmut II`nd on 14<sup>th</sup> March 1827



- **1880s**  
**The New Saint Marys Hospital Opens**



- This dedication gave its fruits over time and led to one of the finest medical institutions in the world with the highest standard of care in medicine, the Mayo Clinic Foundation



- Then carried on my studies in Mayo Clinic AZ
- There I learned how the passionate care of the patients makes them feel as in the warmth of their home in the middle of hot desert



- I moved back to North to Cleveland Clinic where I experienced the joy of the second life of lung transplant patients
- Learned the fine details of cardiac surgery in Case Western Reserve University Hospitals of Cleveland

- What was different for me when I went back home?
- I realized that there was a great number of young physicians who went through a similar experience like myself
- When I started as a thoracic surgeon in a brand new university hospital the great majority of my physician colleagues had some experience either in the USA or Europe

- This was not only in my institution
- There were many A class top-notch medical centers having a similar well credentialed medical staff under their roofs
- This was a group of very enthusiastic physicians in achieving the best of their specialties
- They were mentally, scientifically, and academically well-synchronized and harmonious with the rest of the world



Turkey had everything to be a major player in the international health care providers` arena

# Ways to Remain Competitive in Health Sector

- **Non-medical Factors**
  - ✓ Successful pre & post-op organization
  - ✓ Packaging of medical care with tourism/ “medical tourism”
  - ✓ Widely spoken English is required
  - ✓ EU standards implemented



## Best Way to Keep Your Position

- **Medical Factors**

- ✓ High quality
- ✓ Accreditation (32 of worldwide JCI Accredited Organizations are in Turkey)
- ✓ Modern facilities (hardware & software investments )
- ✓ Highly trained manpower
  - ✓ Shift away from pure medical practitioner to the clinician-scientist format



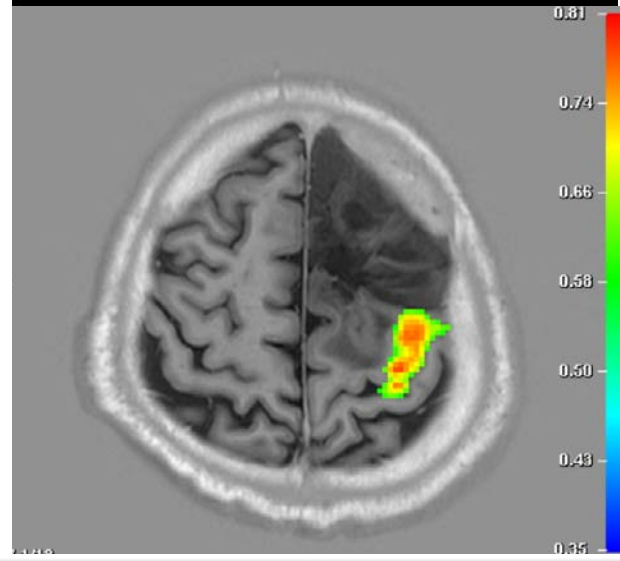
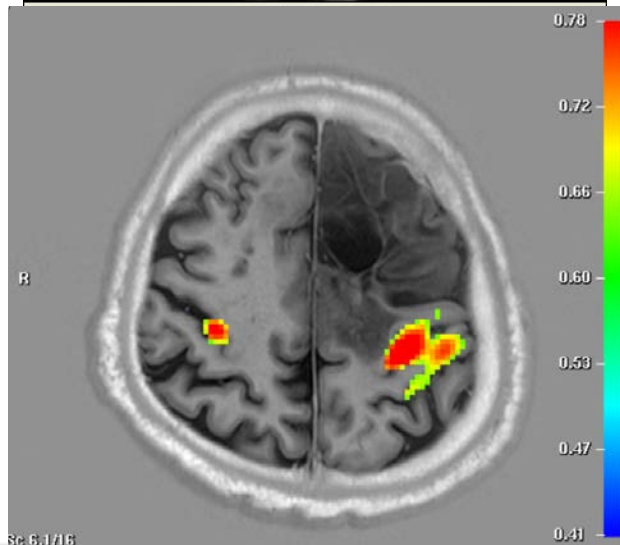
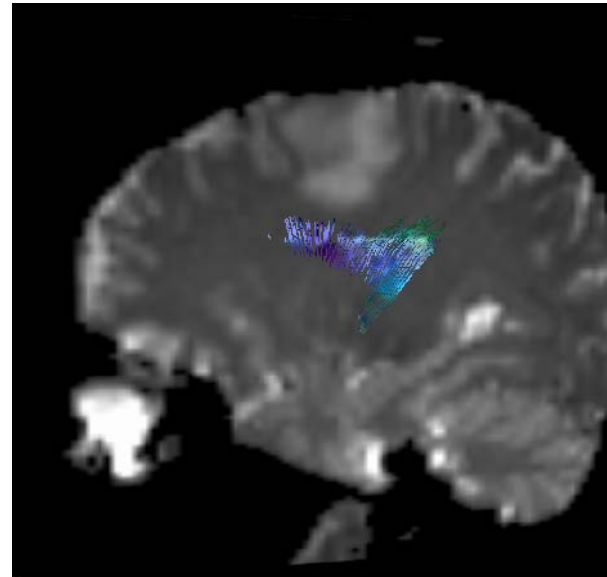
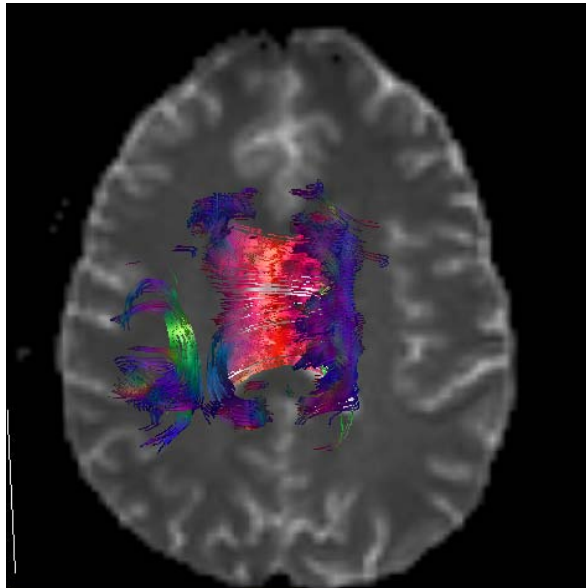
Organization Accredited  
by Joint Commission International

# Medical Quality

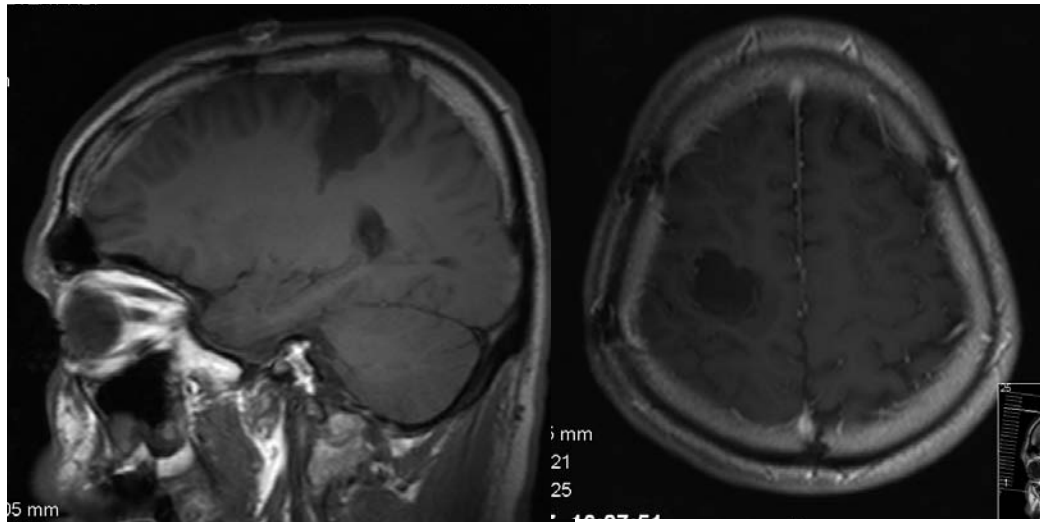
- Store electronic medical records (EMR)
- Full integration of all patient care areas from imaging to labs
- Detects drug-drug and drug-food interactions
- Enables telemedicine



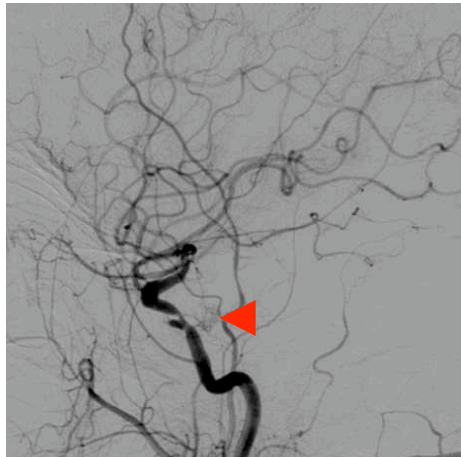
# 3T MRI-Tractography fMRI



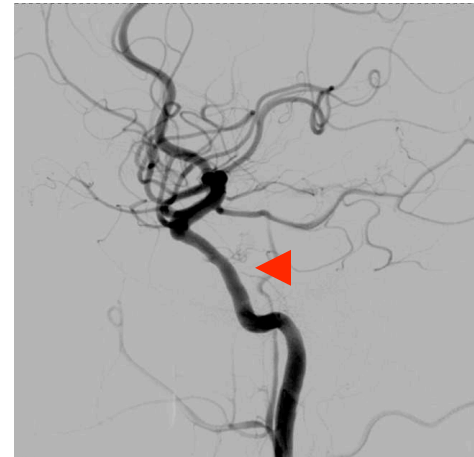
# NEUROLOGICAL SCIENCES



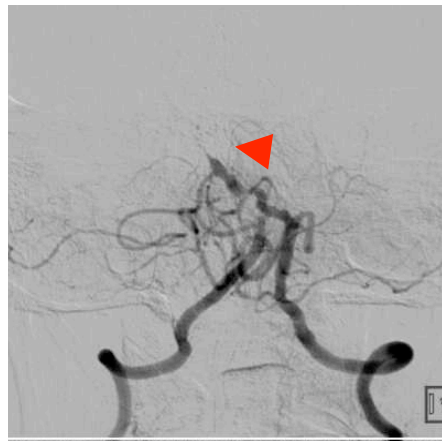
# STROKE CENTER



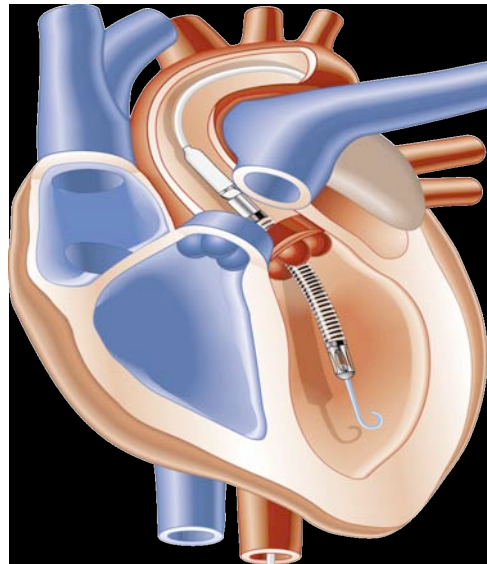
Vascular occlusion pretreatment



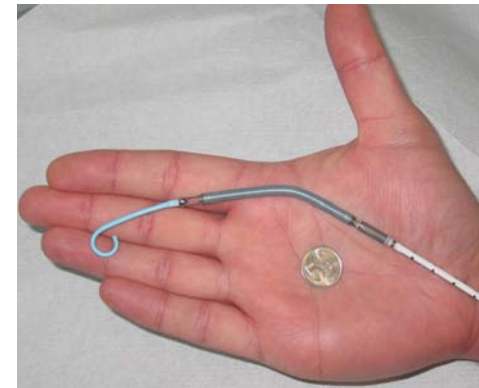
Vascular occlusion posttreatment



## Intravascular miniature left ventricular assist device “Impella Assisted Beating Heart CABG”



Impella Micropump





Permanent artificial heart pump operations are performed

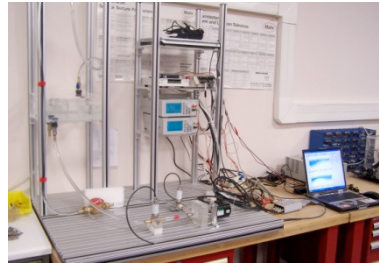


# Heart Turcica LVAD Development Cycle



## From Concept to the Prototype

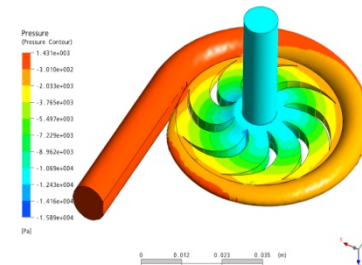
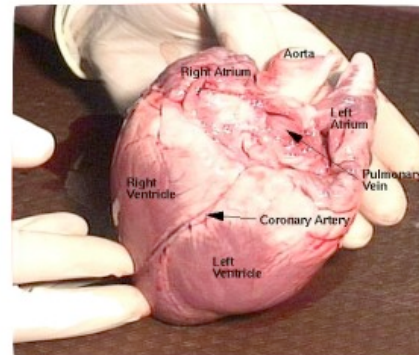
6. Performance Testing



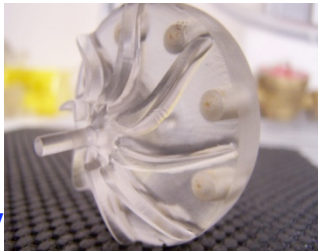
1. Computer Aided Design (CAD)



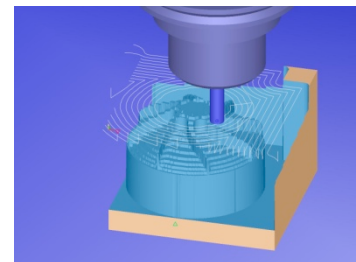
2. Computer Aided Engineering (CAE)



5. Prototype /  
Quality Control  
&  
Product  
Assembly



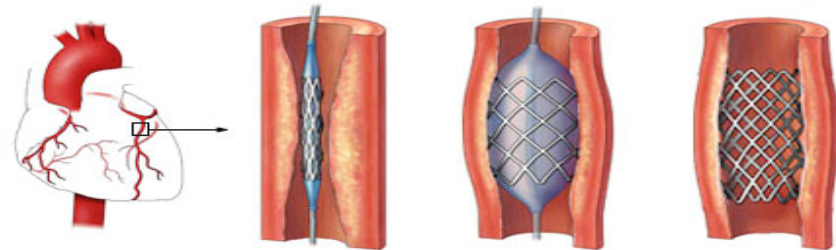
4. Manufacturing  
with CNC Machines



3. Computer Aided  
Manufacturing

## SANTEZ PROJECT BY CADIOLOGY

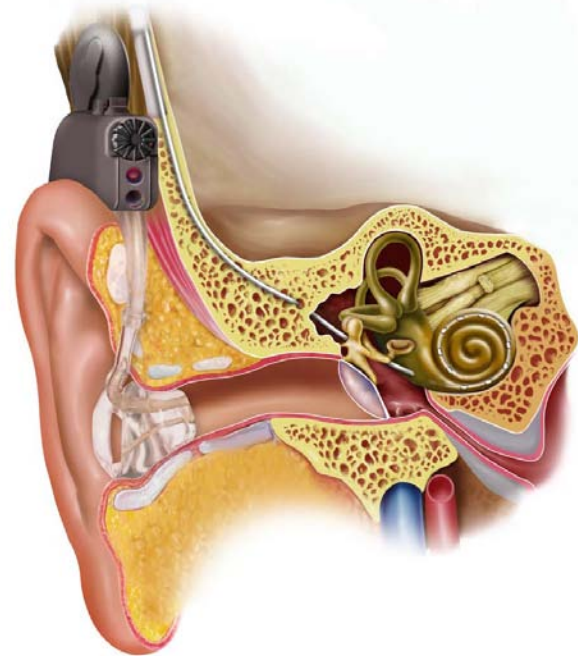
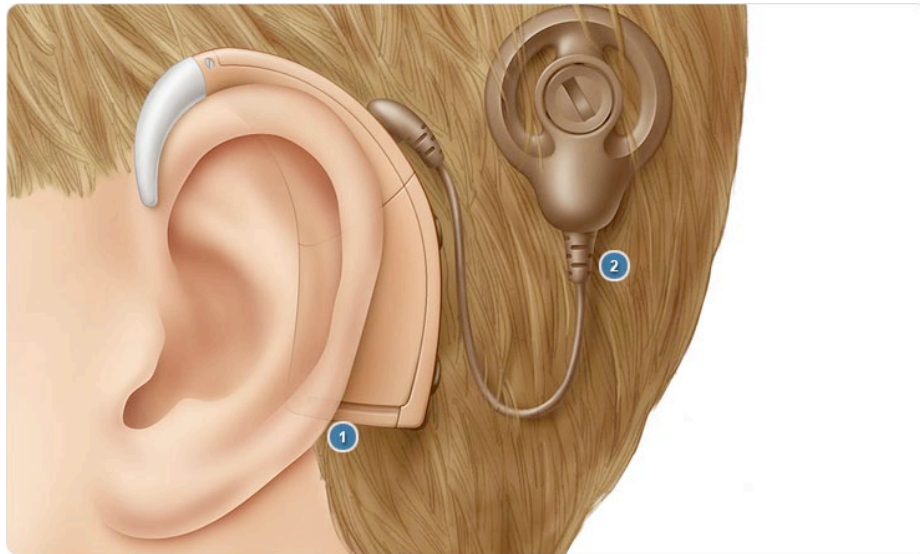
- Purpose: Biodegradable and drug releasing cardiac stent formation out of polymers
- Contributors:
  - Cardiology
  - Genetic engineering
  - Chemistry engineering



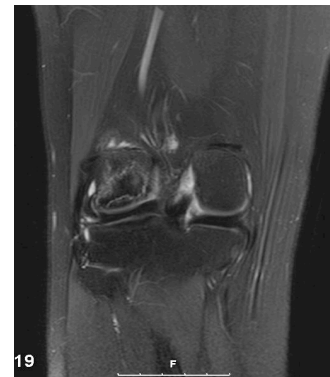
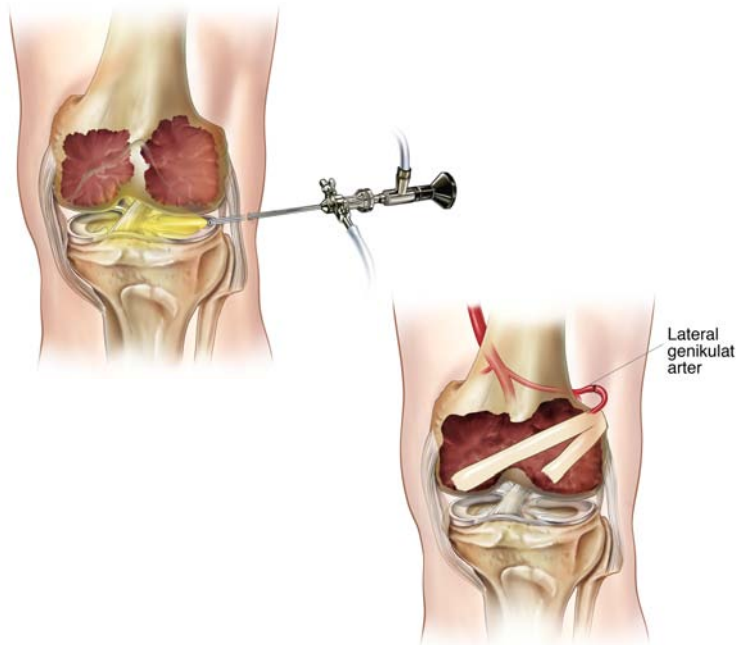
And a stent producing domestic company

Project budget: 780,000 TL

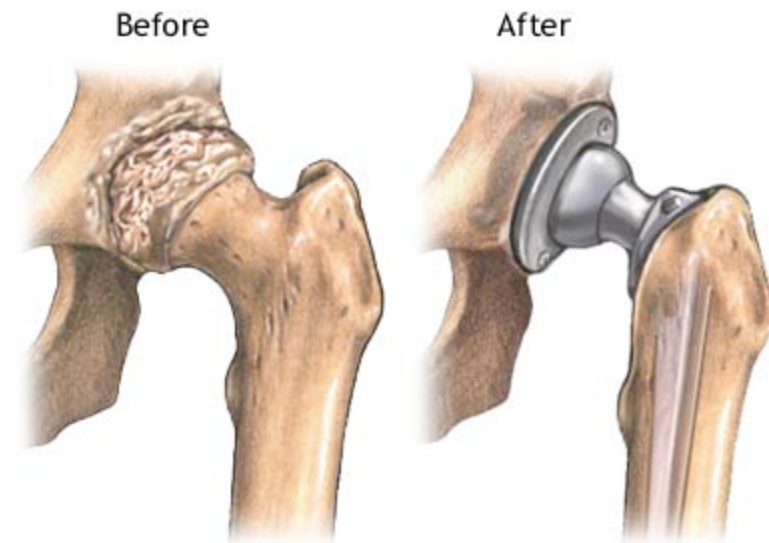
# COCHLEAR IMPLANT PROJECT



## AUTOLOGOUS CHONDROCYTE TRANSPLANTATION



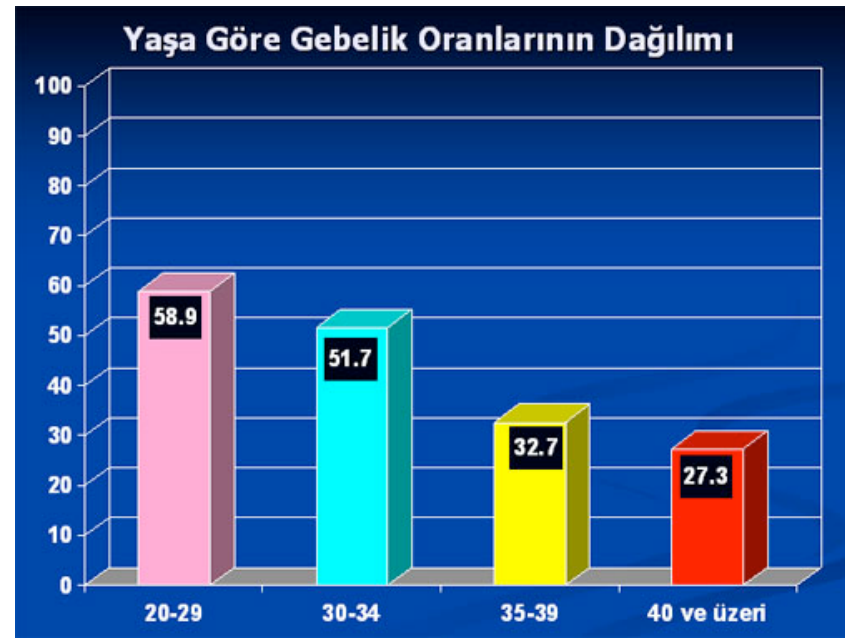
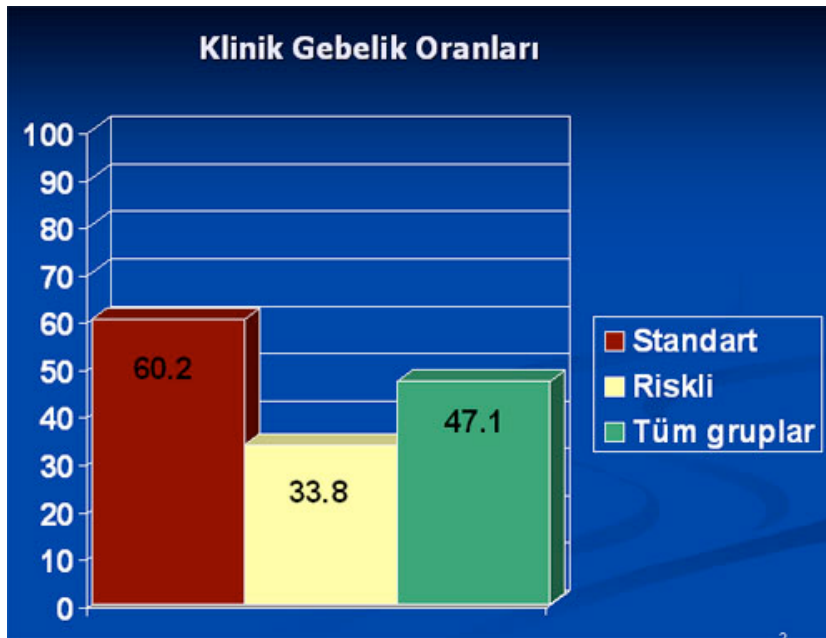
## HIP AND KNEE JOINT REPLACEMENTS



## ESTHETIC AND PLASTIC SURGERY



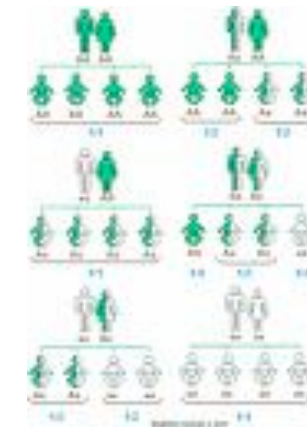
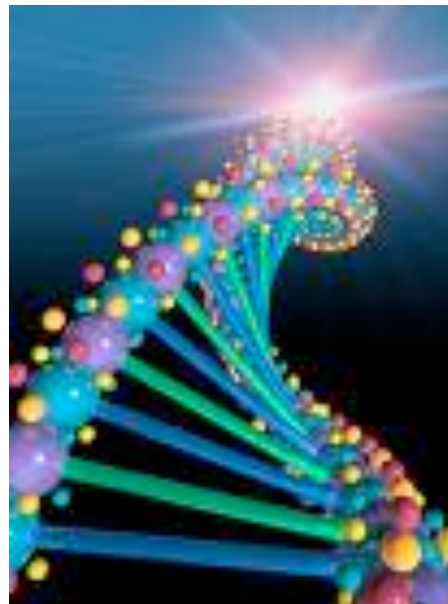
# IVF



Success Rates: Embryology lab data (2006-2007)



# MEDICAL GENETIC LABORATORY



Utilizing latest advancements and research in reaching to new frontiers  
in Cancer Genetics

## Why Turkey

- To offer non-medical services such as logistics arrangements and hospitality services, airport pick-up services, even spa
  - E.g. South Africa promoting their medical safaris*
- So Turkey is very competitive in this area and has a lot to offer from rich historical sites to unique natural beauties

# Medical Destination Turkey

## ❖ Why Turkey ?

- **Medical Services with the highest technology**
- **32 of all JCI Accredited Organizations are in Turkey**
- **Doctors with extreme know-how and experience.**
- **World-known Turkish hospitality**
- **Highly qualified logistic services (hotels, transfers and tours) as Turkey is a popular touristic destination.**
- **Istanbul is one of the most exciting cities of the world: history, natural beauties and its bicontinental location.**
- **Many legal, security and healthcare EU standards have already been implemented and in effect**
- **Similar competitive prices of far-east at shorter distance**



Leander Tower, Istanbul