

HSCT in Egypt

An overview

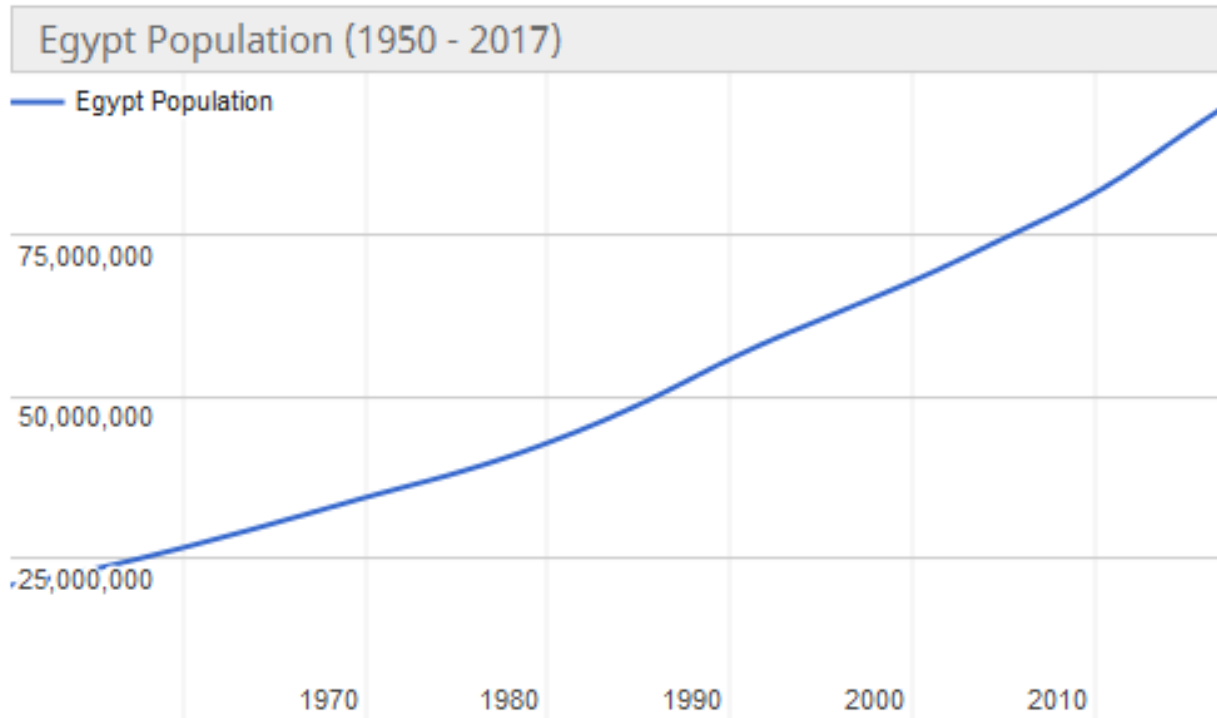
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Population

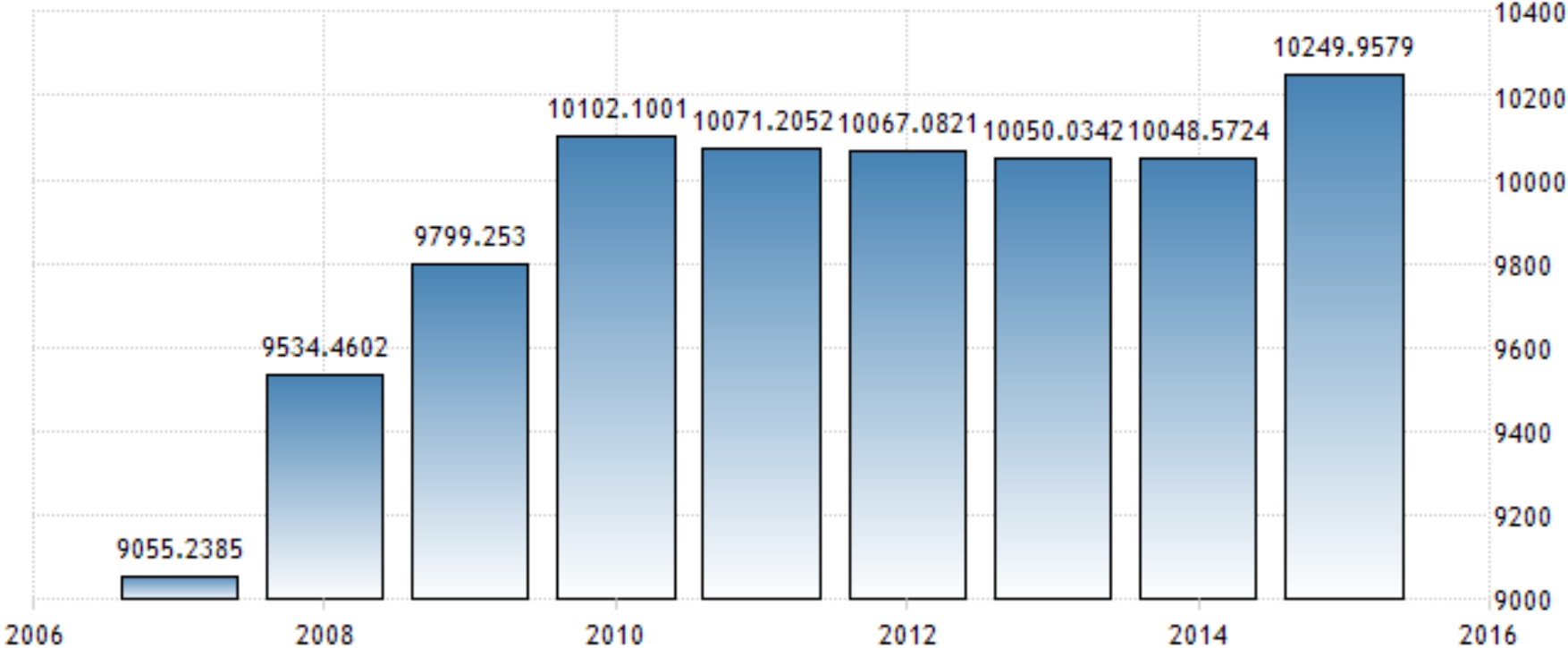
Egypt Population (LIVE)

94,363,817



GDP per Capita PPP

EGYPT GDP PER CAPITA PPP



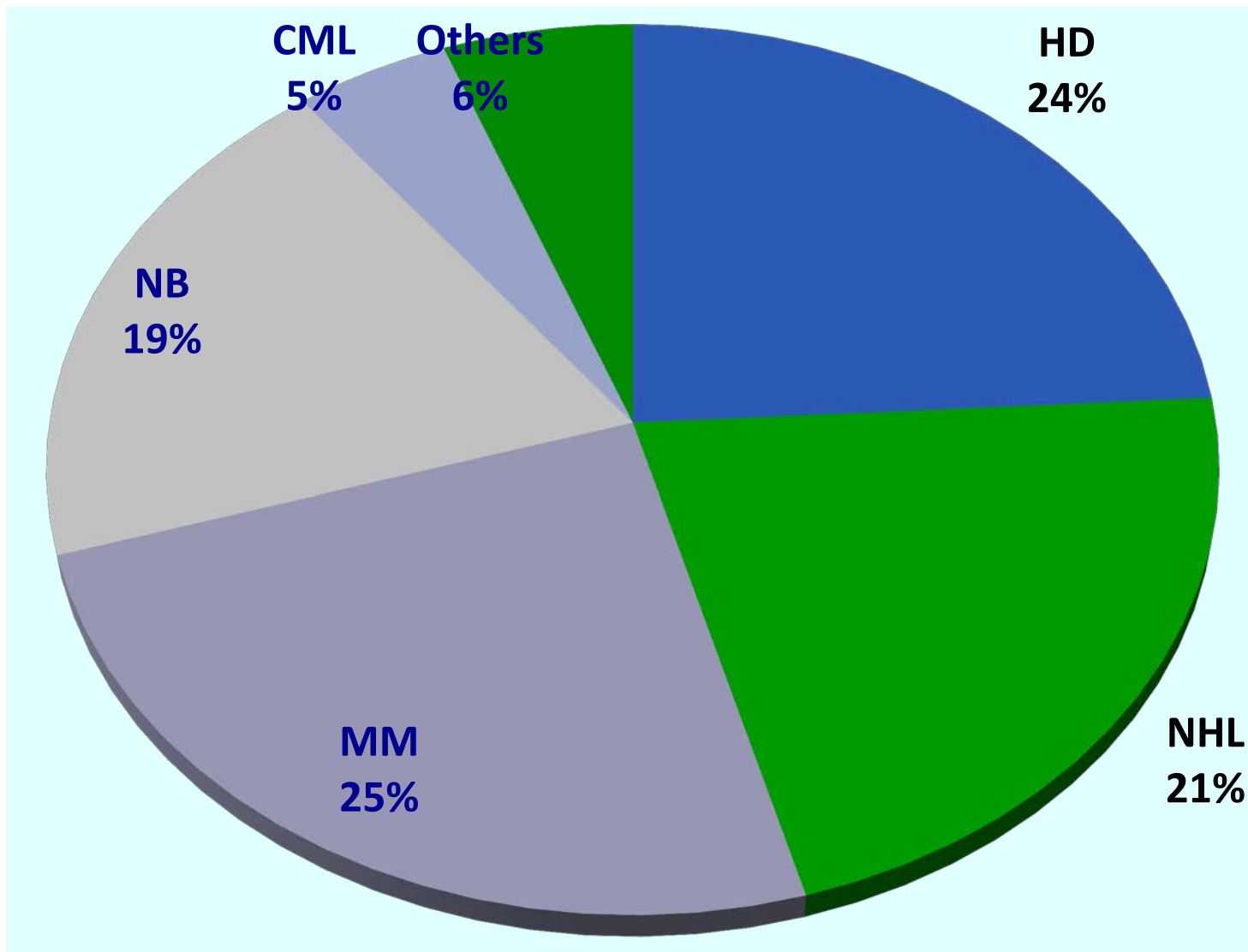
HSCT Centers

- The very first HSCT was done in 1988
- The program started in Nasser Institute in 1997
- Now; 10 centers:
 - Cairo: 5
 - Military centers: 2
 - Alexandria: 1
 - Upper Egypt: 1
 - Tanta: 1

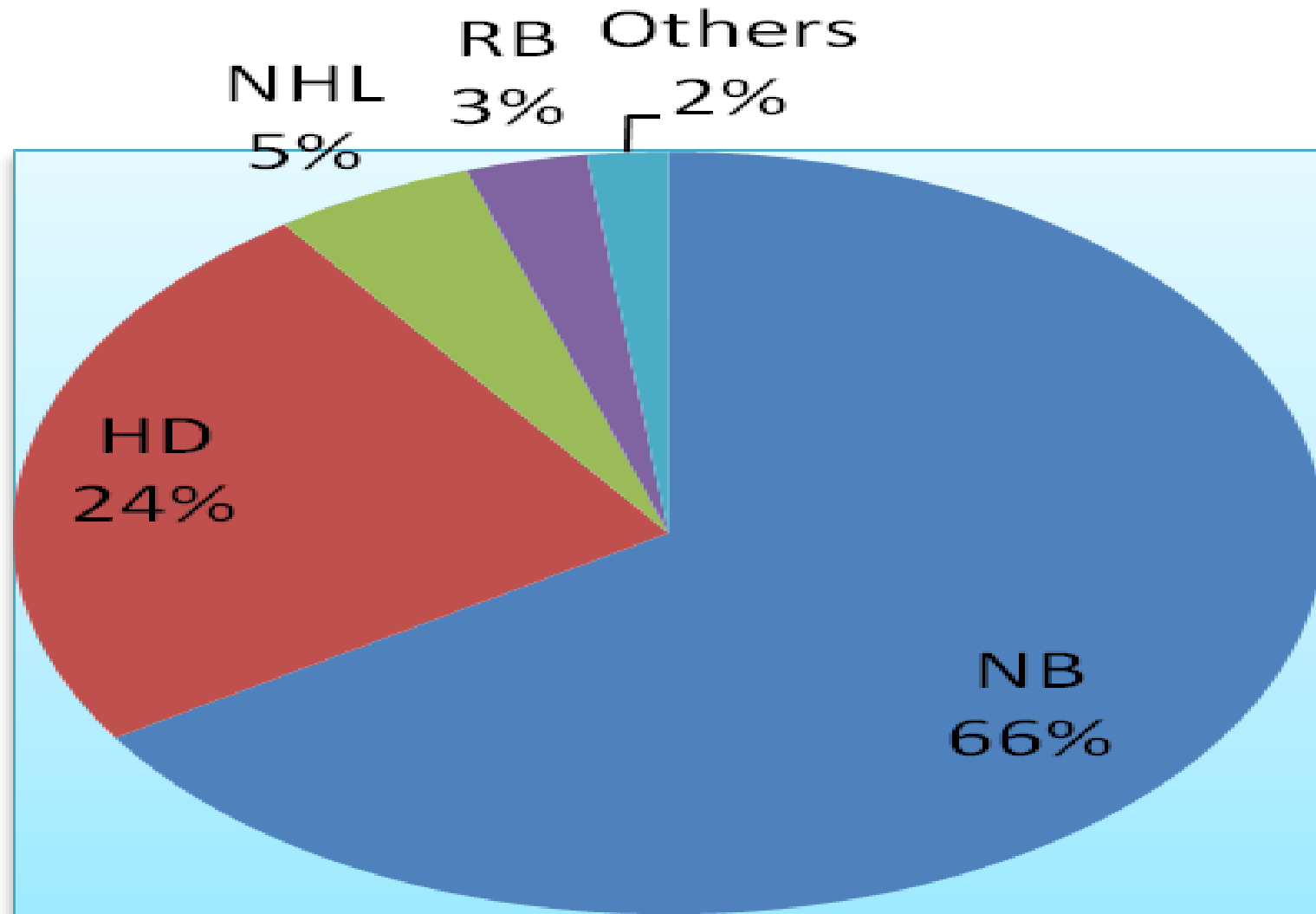
Numbers per year

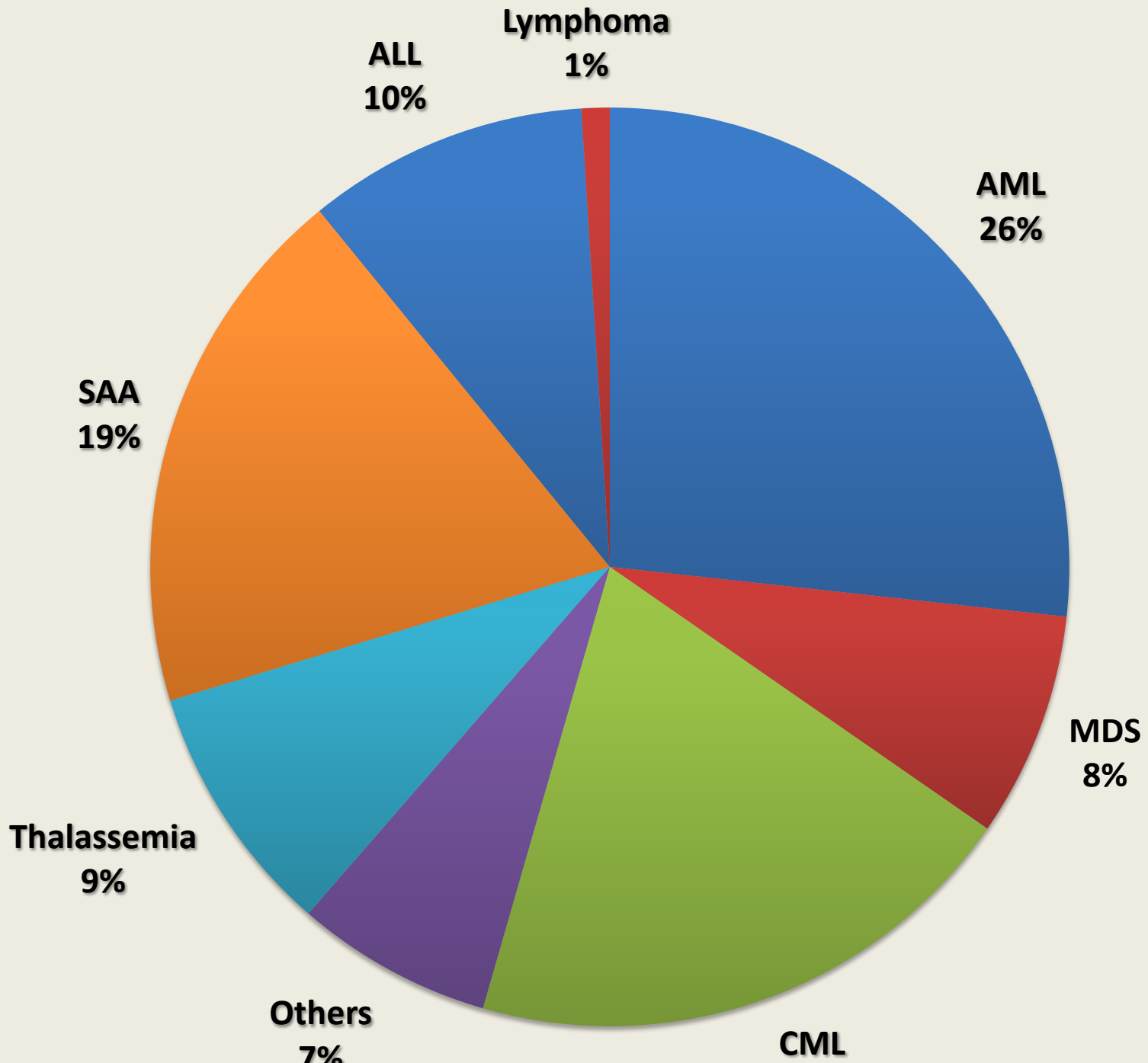
		Pop.	Centers	Transplants per year	Rate/ million
Egypt		90 m	10	580	6.4
France		57.6 m	45	2454	42.6
UK		57 m	46	1736	30.1
Italy		58 m	54	2115	36.7
Germany		81 m	54	2400	29.6

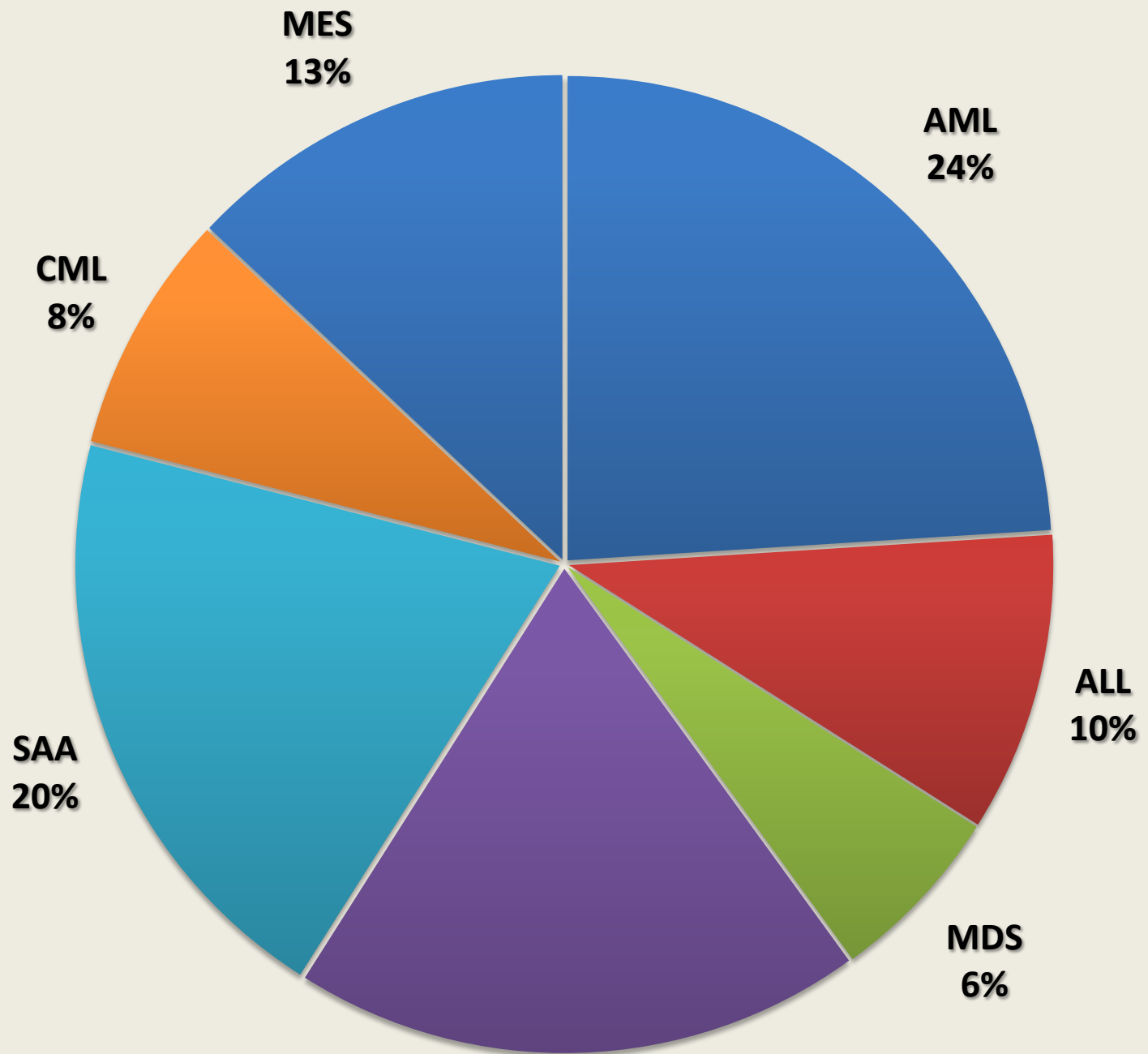
Autologous HSCT / All population



Autologous HSCT / Pediatrics







Donor Source

- Matched Related Donors (40% chance)
- Few cord related transplants
- Few Cord unrelated (cost is a limitation)
- Recently, haploidentical program is evolving

Stem Cell Source

According to the treating centre; for instance

- **At Nasser Institute:**

Mainly adults

Peripheral blood

- **At CCHE – 57357:**

Pediatric only

Bone marrow (less incidence of cGvHD)

Challenges

Donor issues

- No HLA registry
- No cord blood bank
- Lack of matched unrelated donor transplants (only 40% of patients have an HLA-identical siblings)
- Haploidentical transplant is currently evolving

Challenges

Socioeconomic problems

- Cost of sophisticated molecular techniques & new drugs
- Cost of one transplant processes:
 - 15,000 – 20,000 USD in Egypt
 - 200,000 – 350,000 USD in Europe & North America
- Post-transplant follow-up Dropout

Observations

- Egypt is considered one of the countries with high prevalence of HCV
- Facts:
 - Overall prevalence of HCV is ~15 – 20%
 - HCV-PCR positive in ~ 8%
 - HBcAb positive in ~ 25%
 - HBsAg carriers in ~ 3%

International Registries

Some centers are reporting to some registries

- CIBMTR
- EBMT

Quality Management

Some institutions had been internationally accredited

- JCI (Joint Commission International)
- CIQAP (Continuous Improvement and Qualifying for Accreditation Project)

Thank

you

