



HSCT Tunisia Summary Report

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4th WBMT, 15-17 January 2017, Riyadh, Saudi Arabia



Geographic area of the country

North Africa

Surface: 163 610 km²

Tunisia: Total population and per capita income



Total population	11 million people
The minimum guaranteed interprofessional wage	170 USD
Average income per capita / year	2660 USD
GNP per capita	3800 USD
Life expectancy at birth	75 Years

Transplant Centers and Type of Transplant Performed



- **National Center of Stem Cell Transplantation (CNGMO)**
 - Allogeneic + Autologous SCT
 - 1998
- **Aziza Othmana Hospital**
 - 2009 (Autologous SCT)
- **Military Hospital**
 - 2010 (Autologous SCT)

Type and Total Number of HSCT per year

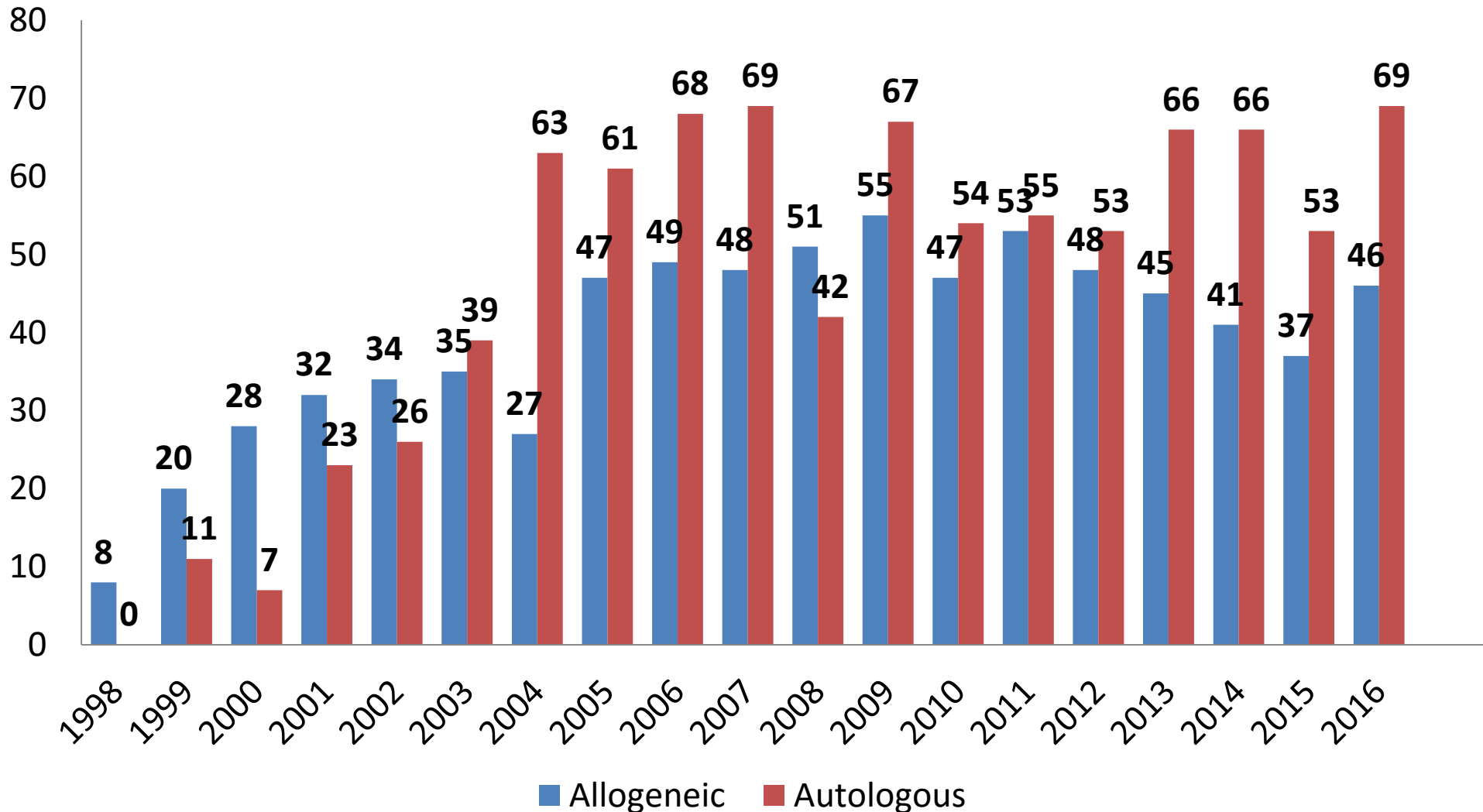
- **Allogeneic SCT (Sibling donor) : 45 - 50**
- **Autologous PSCT: 110 -120**
 - 60 (CNGMO)
 - 50 (HAO)
 - 3 (Military Hospital)

CENTRE NATIONAL DE GREFFE DE MOELLE OSSEUSE (CNGMO) HEMATOLOGY AND STEM CELL DEPARTMENT

- **First Allogeneic HSCT : February 1998**
- **Our team**
 - **7 Adult Hematologists**
 - **35 Nurses**
- **Number of beds: 19**
 - **9 Laminar air flow rooms**
 - **10 Conventional rooms**

Haematopoietic SCT in CNGMO (n= 1643)

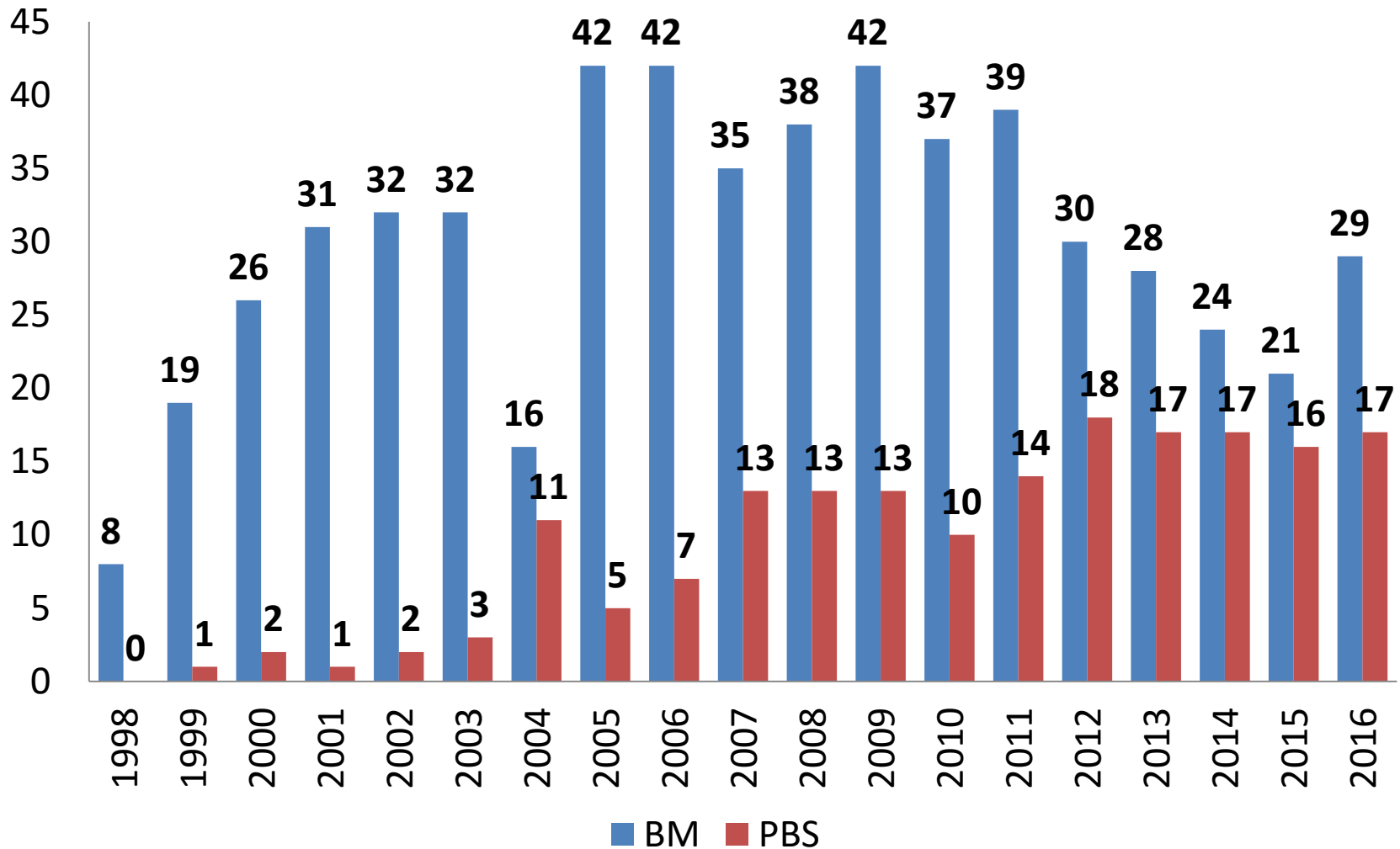
Allogeneic (n=751) Autologous (n=892)



Allogeneic HSCT (n=751)

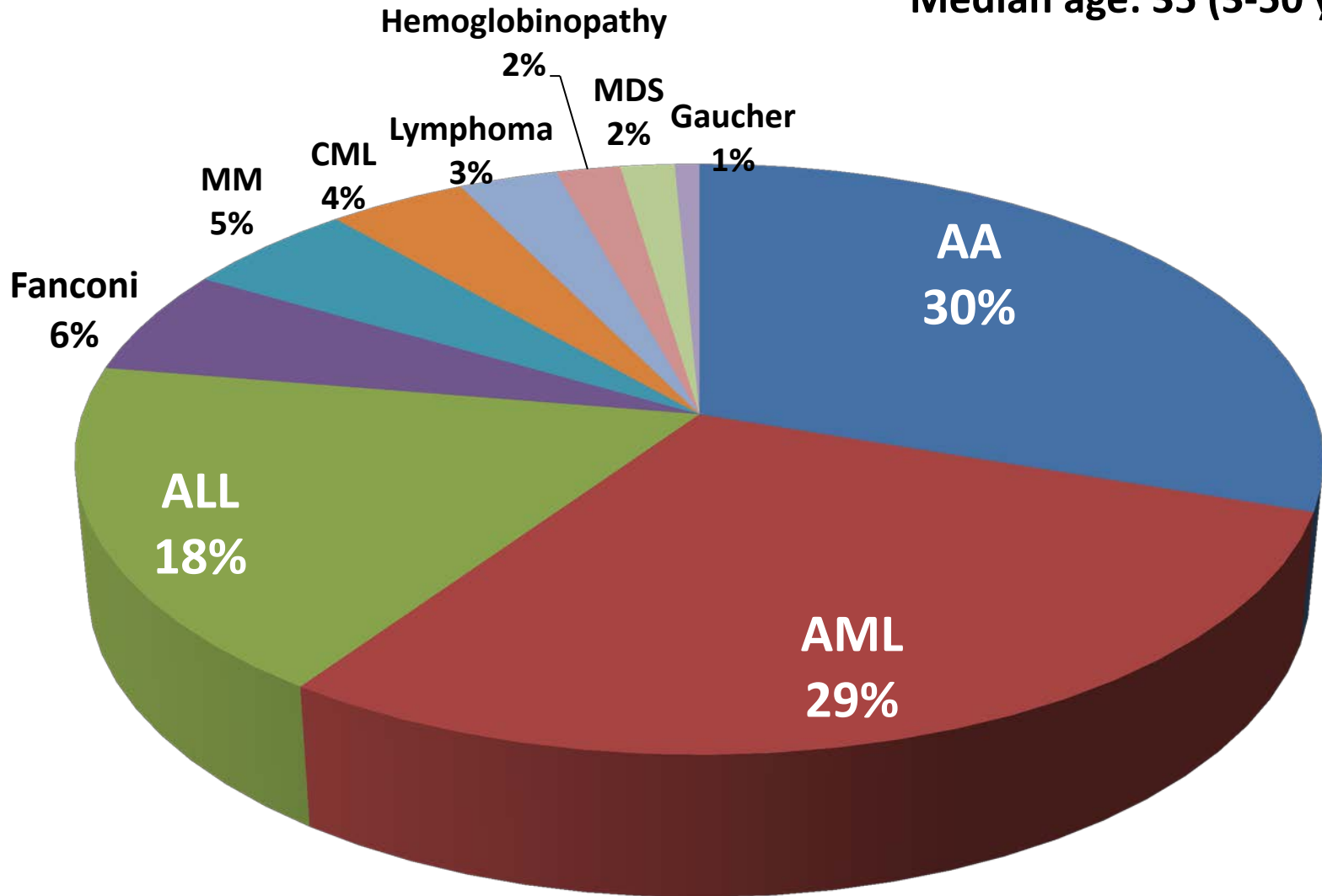
BM (n= 571; 76%)

PBSC (n= 180; 24%)



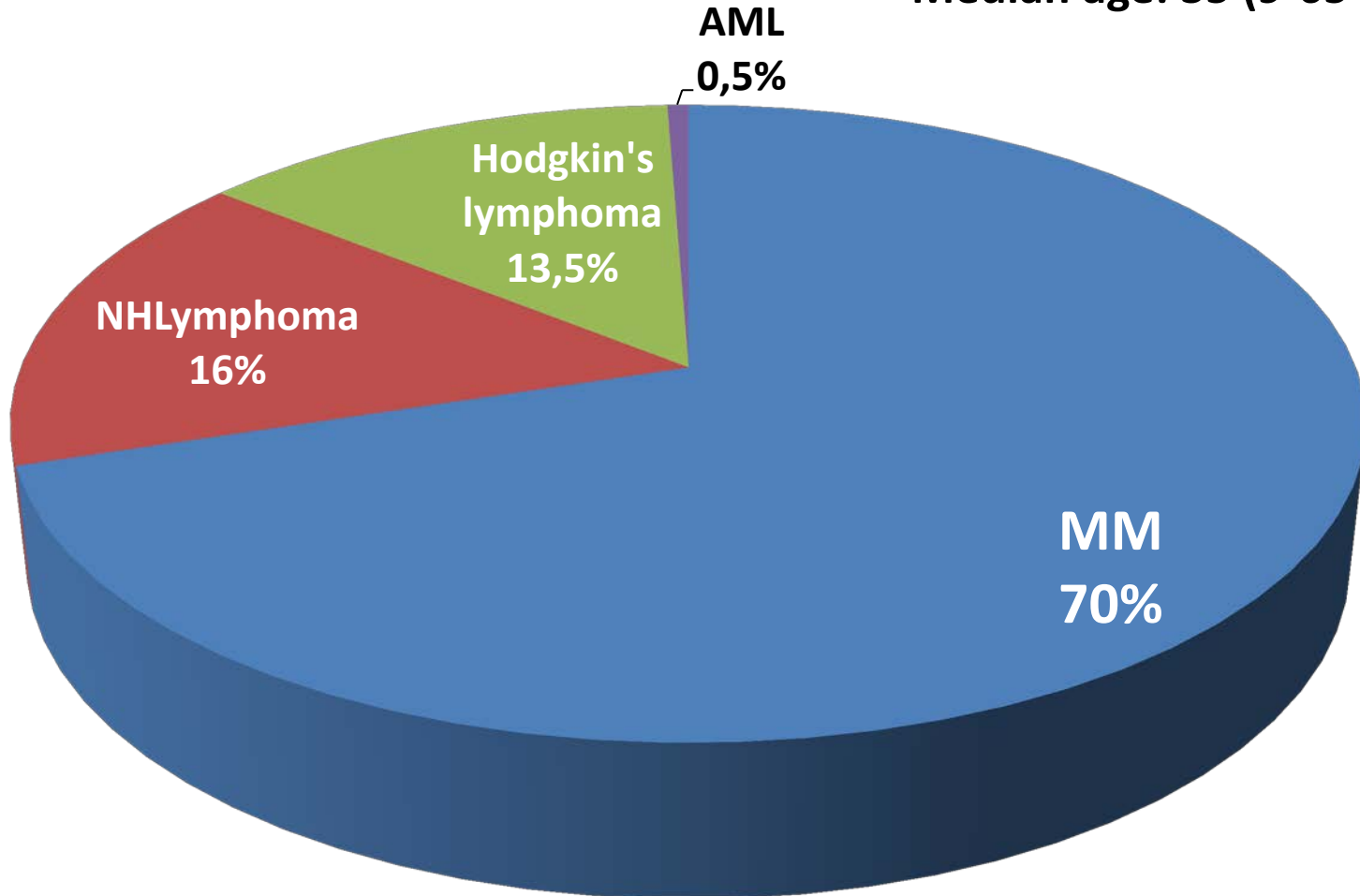
Indications for Allogeneic HSCT (n=751)

Median age: 35 (3-50 years)



Indications for Autologous PBSC (n=892)

Median age: 35 (9-65 years)



Special Observation Regarding Allogeneic HSCT

- Myeloablative conditioning regimen+++
- Age ≤ **50 years**
- High frequency of :
 - **Acquired Aplastic Anemia (30%)**
 - **Inherited Bone Marrow Failure (6%)**
- **Acute GVHD: 25% (27% of refractory forms)**
- **Pre-transplant aspergillosis requiring secondary prophylaxis: 20%**
- **Fongemia: 3,4% (c parapsilosis +++)**

Actual Cost Of Transplantation



	Real cost (USD)	Reimbursement (USD)
Allogeneic	80 000	34 000
Autologous	25 000	17 000

- **Type of coverage for HSCT**
 - National Health Insurance Fund (80%)
 - CNGMO budget (20%)

Factors hampering the increase of transplant activity

- **Limited number of:**
 - **Centers performing stem cell transplantation**
 - **Beds /Paramedical staff at CNGMO**
- **Limited capacity of cellular therapy unit**
- **The increasing national cost of the transplant**
- **Limited access to TBI**
- **Drugs not available: Thiotepea**

Futur

- **Haploidentical SCT**
- **Reduced intensity conditioning for patients >50 years**
- **Electronic Medical Records**
- **Data and quality management**

Conclusion

- **Relatively High level of activity**
- **Limited resources**
- **Financial and logistical difficulties**
- **National and International Support**

Acknowledgment

- Pr Tarek BEN OTHMAN
- Pr Saloua Ladeb
- Pr Ag. Lamia Torjemane
- Pr Ag. Amel Lakhel
- Dr Nour Ben Abdeljelil
- Dr Dorra Belloumi
- CNGMO Medical and Paramedical staff

