Morocco Activity Report

Current Status and Prospects

The 4th WBM T Workshop
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University Hospital Ibn Rochd, Casablanca
Moroccan Population _ 2014

- **Demography**: 33.8 millions
- **Population Growth**: 1.07%
  - < 30 y-o: 65.5% (37% < 15y)
  - > 60 y-o: 10%
- **Illiteracy**: 40%
- **Life expectancy at birth**: 74.8 years
- **GNP per capita**: 1350 $
Morocco Health features

- Health / GNP: 5.3% (6.4% in Tunisia)
- Medical expenditure: 40 $ (per capita & per year)
- < 25000 physicians
- Access to health care: Health insurance for 65% of the population (AMO, RAMED programs)
- Seven medical schools: Rabat, Casablanca, Marrakech, Fes and Oujda, 2 private in Casablanca and Rabat
Morocco/ Hematology & Pediatric Oncology

- **Academic National society:**
  - Moroccan Society of Hematology (SMH)
  - Moroccan Society of Hematology and Pediatric Oncology (SMHOP)


- No national registry for transplant

- Affiliation to the EMBMT registry
Casablanca

- 5 millions inhabitants
- Economic capital
- Two medical schools (1 private)
- Department of Hematology (1980)
Bone Marrow Transplant Unit:
- 2004
- 4 beds
- Autologous
BMT In Morocco

- Cryobiology units (in blood bank)
- Training in France: Nurses and Physicians
- Activity was possible with support of NGO
- Autologous done in private facilities (3 units)
- Legislative efforts (2013) – Law 16-98
- Five units in 3 university hospitals (Casablanca, Rabat and Marrakech)
Autologous SCT: Casablanca Annual Recruitment
## Morocco /HSCT Activity

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<tbody>
<tr>
<td><strong>Auto (N)</strong></td>
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<td></td>
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<tr>
<td>non cryopreserved</td>
<td>247</td>
<td>24</td>
<td>10</td>
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<tr>
<td>Myeloma (%)</td>
<td>140 (57)</td>
<td>21 (88)</td>
<td>3</td>
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<tr>
<td>NHL (%)</td>
<td>38 (15)</td>
<td>1</td>
<td>1</td>
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<tr>
<td>HL (%)</td>
<td>66 (27)</td>
<td>1</td>
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<tr>
<td>Neuroblastoma (%)</td>
<td>3 (1)</td>
<td>1</td>
<td>5</td>
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<tr>
<td><strong>Allo (N)</strong></td>
<td></td>
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<tr>
<td>Aplastic anemia</td>
<td>2</td>
<td>13</td>
<td>-</td>
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<tr>
<td>ALL</td>
<td>-</td>
<td>5</td>
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<tr>
<td>AML</td>
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<tr>
<td>CML</td>
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<td>B Thalassemia</td>
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<td>3</td>
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<td>PID</td>
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Non Cryopreserved HSCT

- Increased the offer to patients,
- Improvement of the treatment and outcome of patients with multiple myeloma
  - 64 cases, 2014-15
  - OS 83.5%
  - PFS/24 months 65.9%
  - TRM at 100 days 4.68%
- Activity need to be accredited
Morocco: Challenges and Perspectives

- Centers dedicated to Bone Marrow transplant
- Important needs for benign and malignant diseases
- Sustainable training programs, locally
  Support of the international experts +++
- Availability of drugs and avoid shortage
- Access to HLA phenotyping, still costly +++
- Blood products
- National Registry: better traçability, follow up
- Accreditation of non cryopreserved HSCT
Conclusion

- Feasible and should go Faster
- Necessary to offer to the Moroccan patients an optimal panel of choice to be cured
- Improvement of the technical platform and the quality of care / Availability of drugs
- Reduce the cost of treatment
- Accreditation (non cryopreserved HSCT)
Acknowledgments

- **Hematology Pediatric Oncology Service** (Pr Said Benchekroun)
  Hôpital du 20 Août – CHU Ibn Roch Casablanca

- **Hematology Laboratory** – CHU Ibn Rochd – Casablanca
  (Dr Bouchra Oukache)

- **Cytogenetic Laboratory Hda**
  Casablanca  (Dr Nazha Hda)

- **Institut National d’ Hygiene – Laboratoire de Cytometrie en flux** (Pr Rajaa El Aouad - Dr Fatima Bachir)

- **Microbiology Laboratory** (Pr Khalid Zerouali)

- **Centre Régional de transfusion Sanguine** (Dr Bouisk)

- **Mycology Laboratory** (Pr Maha Soussi)

- **Pr W. El Khattabi** (Pneumology), **Pr N. Moussali** (Radiology), **Pr H. Nassik** (ICU),

- **Laboratoire de Biologie Moléculaire- FMPC** (Pr Sellama Nadifi)

- **Unit of Hematology, Pediatric Oncology- CHU Ibn Sina** (Pr Mohammed Khattab)

- **Infection Control Comity** (Pr Barrou)

- **Lalla Salma Foundation**

- **Agir Foundation**

- **Patients and their families**
May 17, 2016. Allo transplant for patient 31 y-o with aplastic anemia