

Royaume du Maroc
Université Hassan II Aïn Chock
Faculté de Médecine et de Pharmacie
Casablanca



المملكة المغربية
جامعة الحسن الثاني - عين الشق
كلية الطب و الصيدلة
الدار البيضاء



Morocco Activity Report

Current Status and Prospects

The 4th WBMT Workshop
Riyahd_Saudi Arabia, January 15-16, 2017

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4th WBMT



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

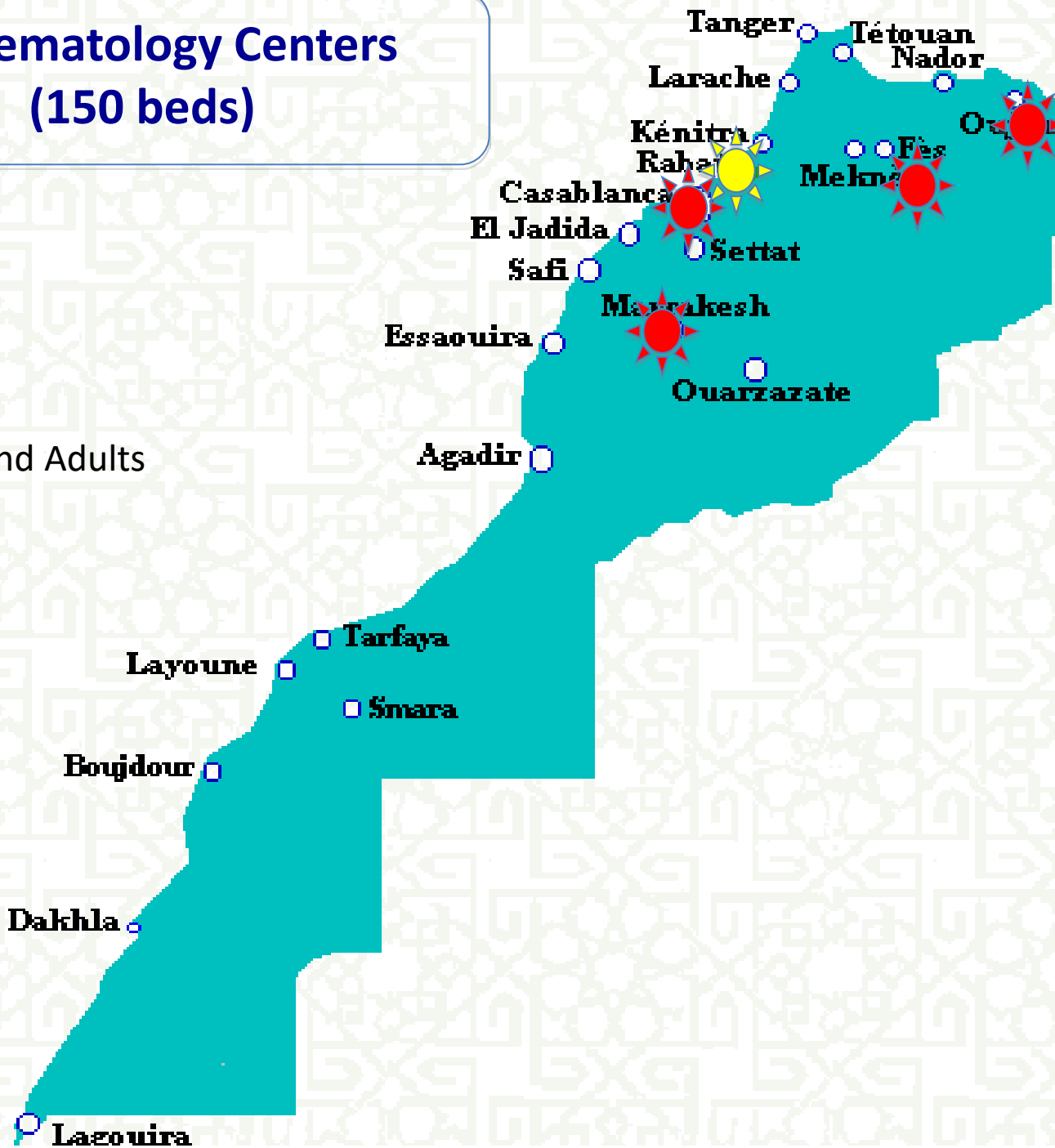
- Health / GNP 5.3% (6.4% in Tunisia)
- **Medical expenditure 40 \$**
(per capita & per year)
- < 25000 physicians
- **Access to health care**
Health insurance for 65% of the population
(AMO, RAMED programs)
- **Seven medical schools:** Rabat, Casablanca, Marrakech, Fes and Oujda, 2 private in Casablanca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

Public Hematology Centers (150 beds)



Pediatic and Adults

Pediatic



Morocco/ Hematology & Pediatric Oncology

- **Academic National society:**

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Moroccan Society of Hematology (SMH)

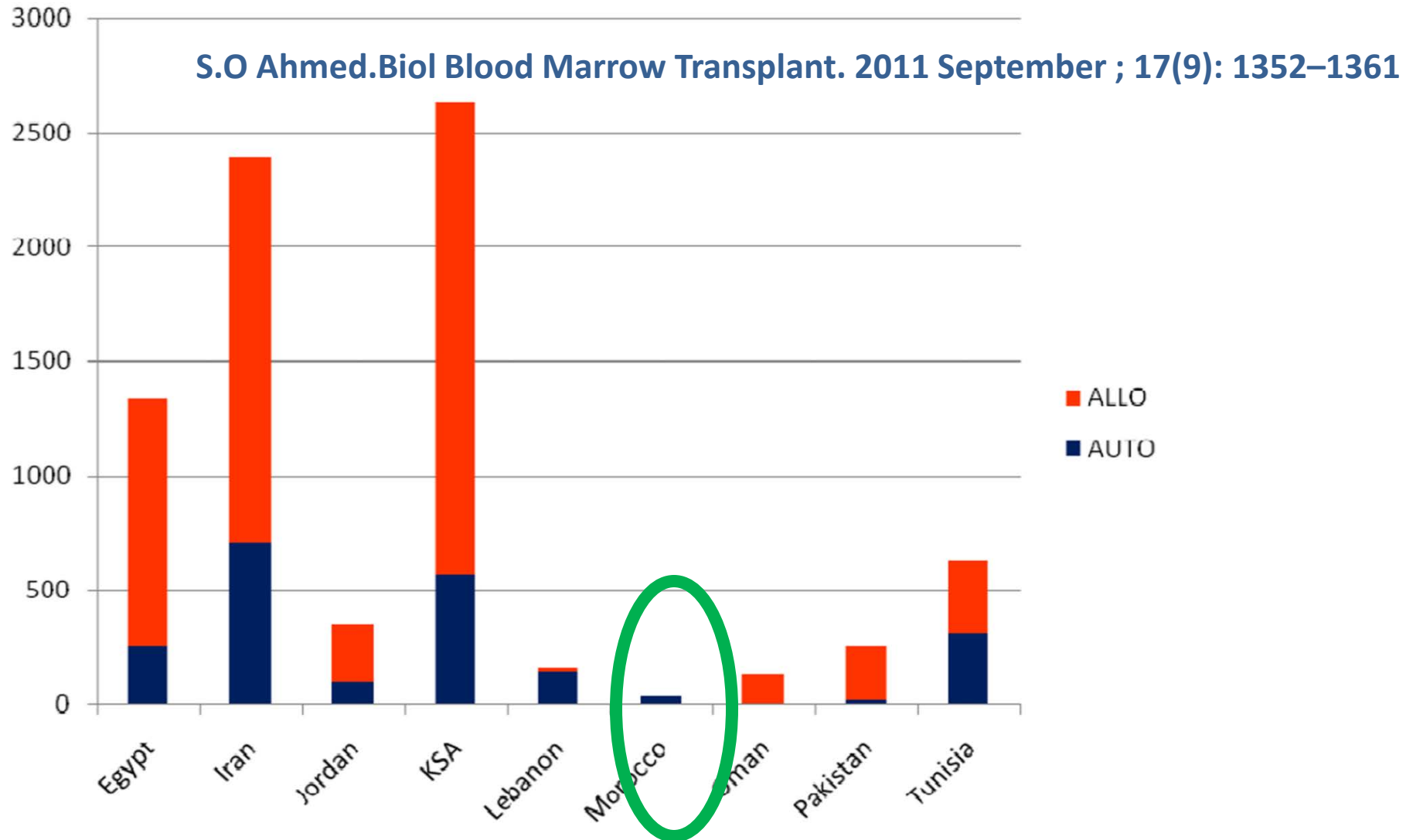


Moroccan Society of Hematology and Pediatric Oncology (SMHOP)



- Cancer registry of Casablanca (2004)
- No national registry for transplant
- Affiliation to the EMBMT registry

HSCT Activity in EM & North Africa 1984_2007



Casablanca



- **5 millions inhabitants**
- **Economic capital**
- **Two medical schools (1 private)**
- **Department of Hematology (1980)**

Bone Marrow Transplant Unit :

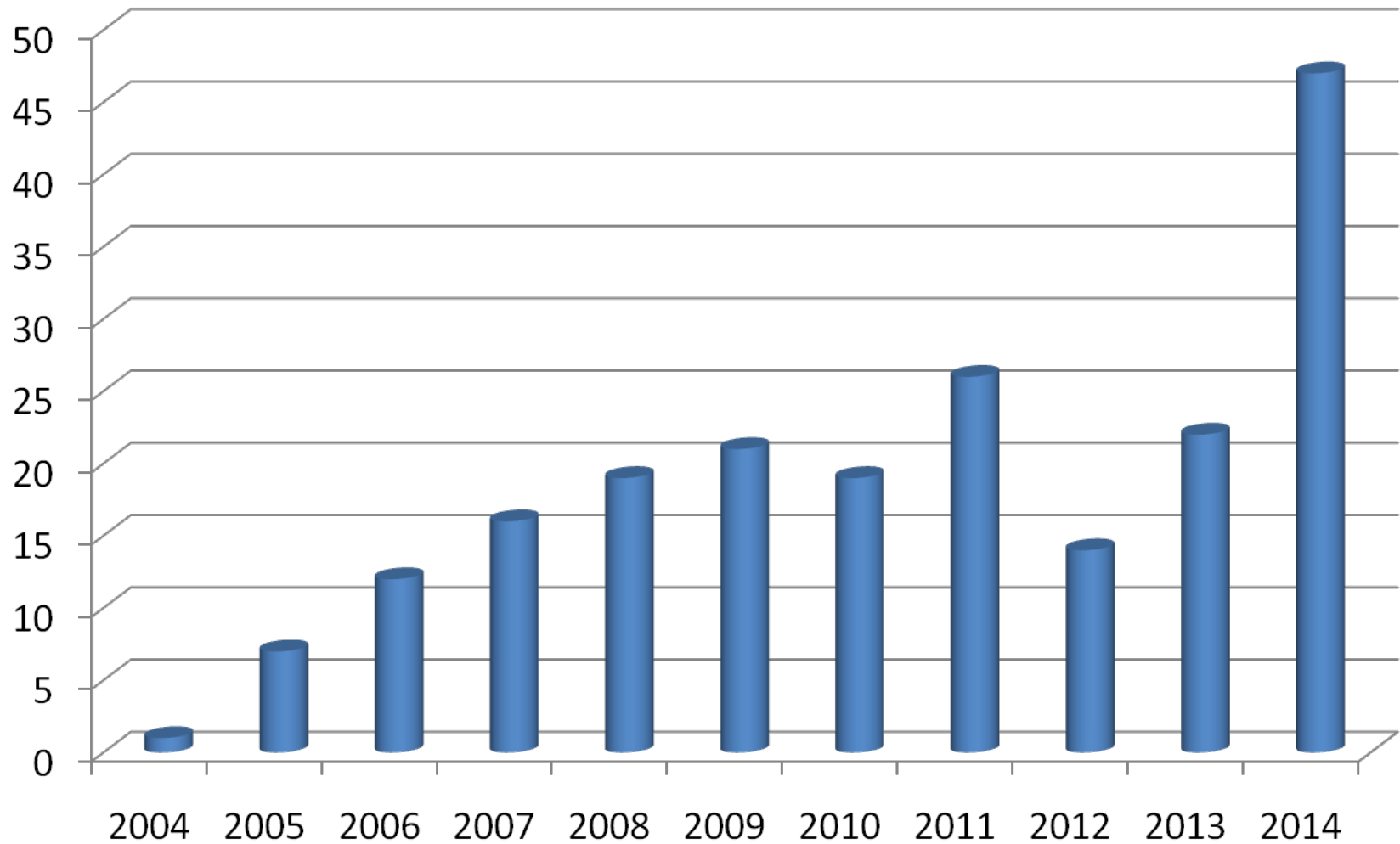
- 2004
- 4 beds
- Autologous



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

Activity	Casablanca (2004)	Marrakech (2012)	Rabat (2014)
Years	2004-15	2012-15	2014-15
Auto (N)	247	24	10
non cryopreserved	65	21	6
Myeloma (%)	140 (57)	21 (88)	3
NHL (%)	38 (15)	1	1
HL (%)	66 (27)	1	1
Neuroblastoma (%)	3 (1)	1	5
Allo (N)	2	13	-
Aplastic anemia	-	5	
ALL	-	1	
AML	-	1	
CML	-	1	
B Thalassemia	-	3	
PID	2	2	

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

- **F**easible and should go **F**aster
- **N**ecessary to offer to the Moroccan patients an optimal panel of choice to be cured
- **I**mprovement of the technical platform and the quality of care / **A**vailability of drugs
- **R**educe the cost of treatment
- **A**ccreditation (non cryopreserved HSCT)

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Casablanca (Dr Nazha Hda)
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- **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

