

Distribution of Lymphomas in Mali (1996 – 2010)

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Lymphomas

What can we learn from Africa?
Institut Curie INCa/INCRT/AMCC
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Introduction

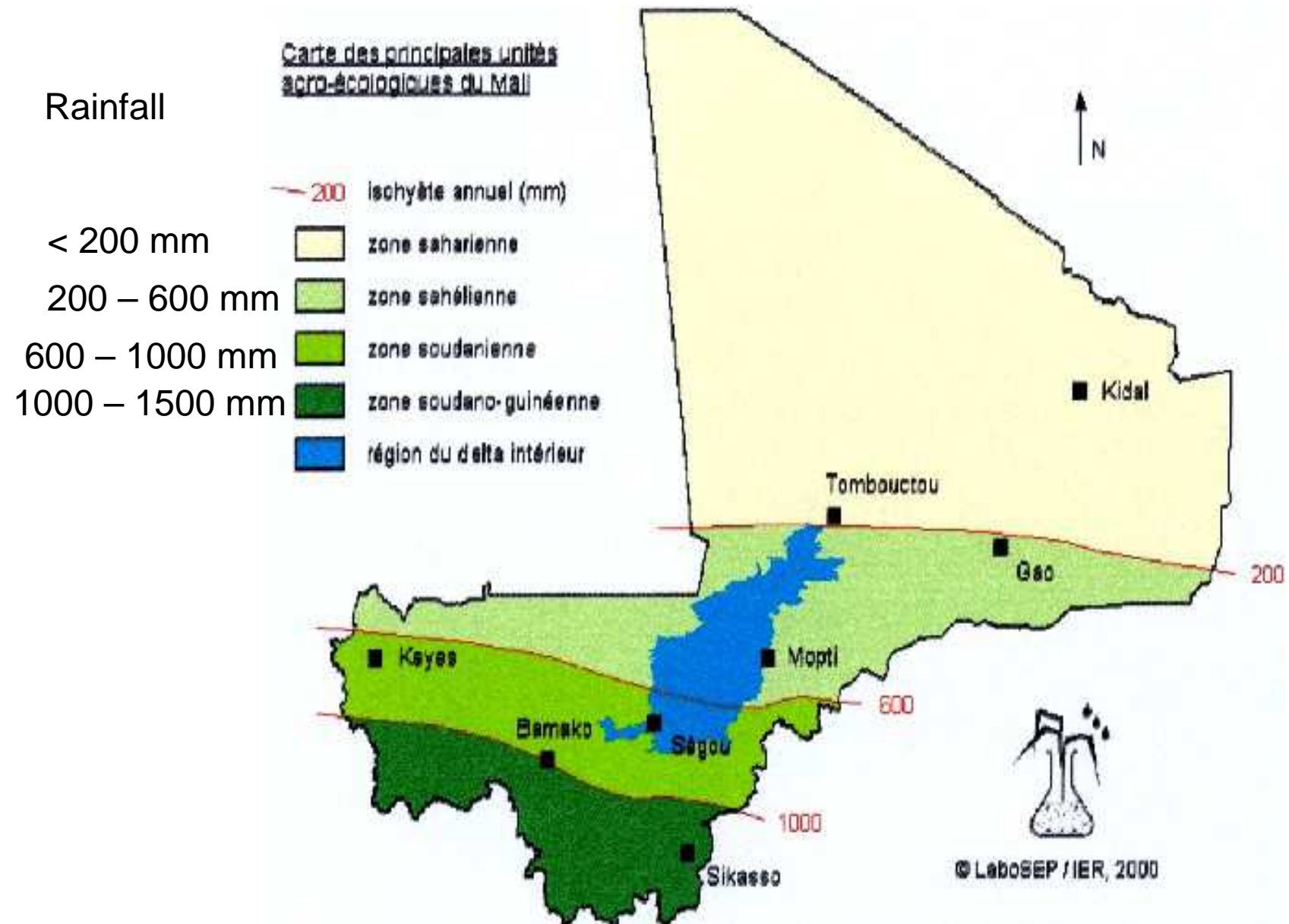
- **Steady increase of the incidence of lymphomas, particularly the Non Hodgkin Lymphomas (NHL) since several decades** (*Morton et al. Blood 2006*)
- **Malian data published at 2008** (*Diallo et al. Mali Medical 2008*) :
 - **Increased of NHL cases through height years (1996 – 2003) (x 2.32)**
 - **Specific epidemiological characteristics**
 - **Arise the question of particular risk factors**
 - **Need of better characterization of NHL (epidemiology, biology and risk factors).**

Some characteristics

- **West Africa**
 - 1 240 192 km²
 - 14 517 179 habitants
- **Birth per year:**
 - 280 000
- **PIB/habitant:**
 - 370 \$ in 2003
- **Populations under threshold of poverty :**
 - ☛ 64%



Climatic zones and rainfall



Clinical facilities for diagnosis and case management of lymphomas

- **Service d'Hématologie-oncologie médicale (HOM), CHU Point G, Bamako**
- **Unité d'oncologie pédiatrique, CHU Gabriel Touré, Bamako**
- **Dermatology Unit, CNAM, Bamako**

Technics for diagnosis

- **DONE**

- **For cytology**
 - **May Grun Wald Giemsa**
- **For histopatholy**
 - **Giemsa**
 - **HES**

- **NOT DONE**

- **Cytochemistry**
- **Immunohistochemistry**
- **Cytogenetic**
- **Molecular biology**

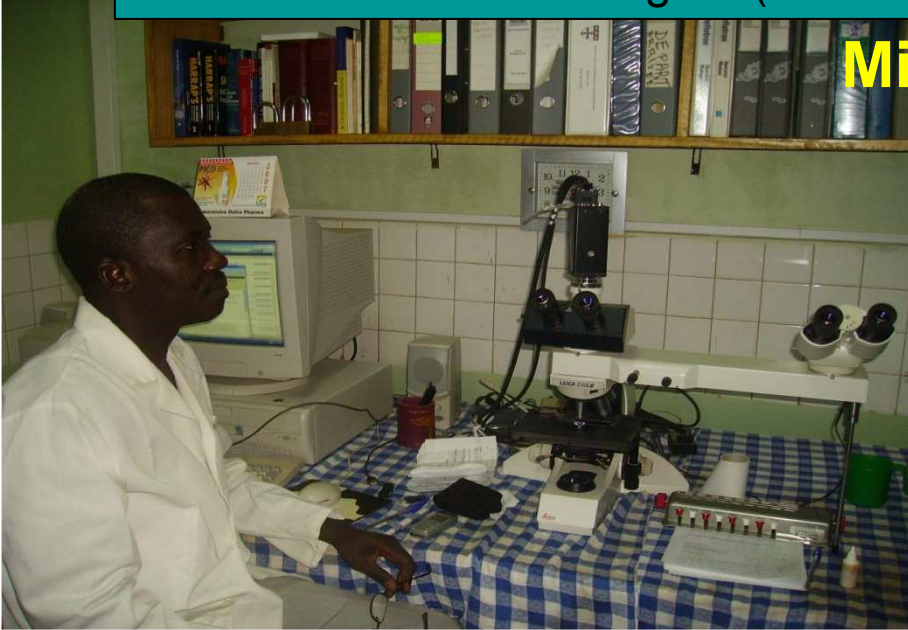
**HEMATHOLOGY UNIT
LABORATOIRE D'HEMATOLOGIE, FMPOS, BAMAKO, MALI**



**Équipements.
Technics room**



Collaboration CHU d'Angers (France) – Faculté de Médecine de Bamako (Mali)



**Microscopy
i-path**

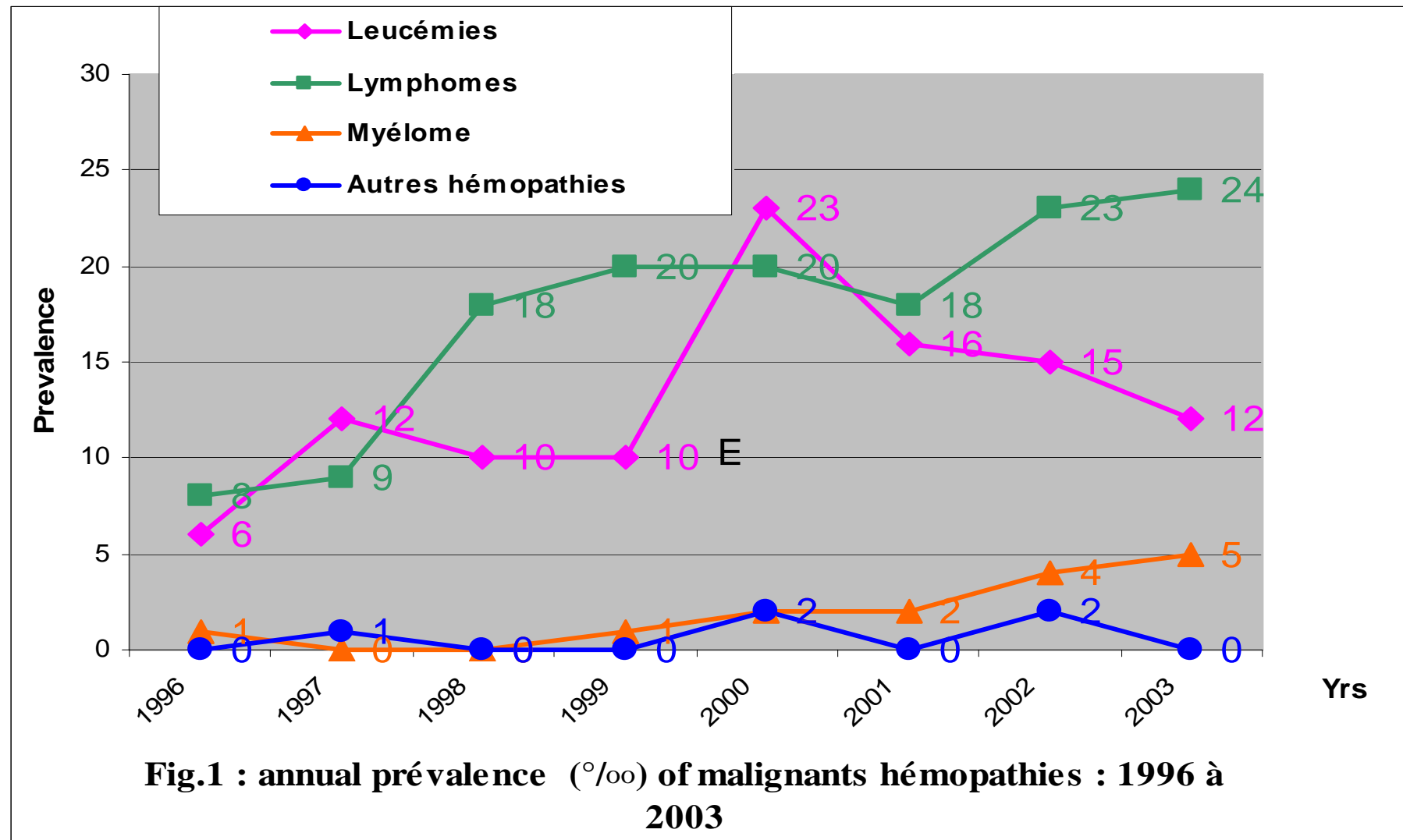


Service d'Hématologie-oncologie médicale (HOM),

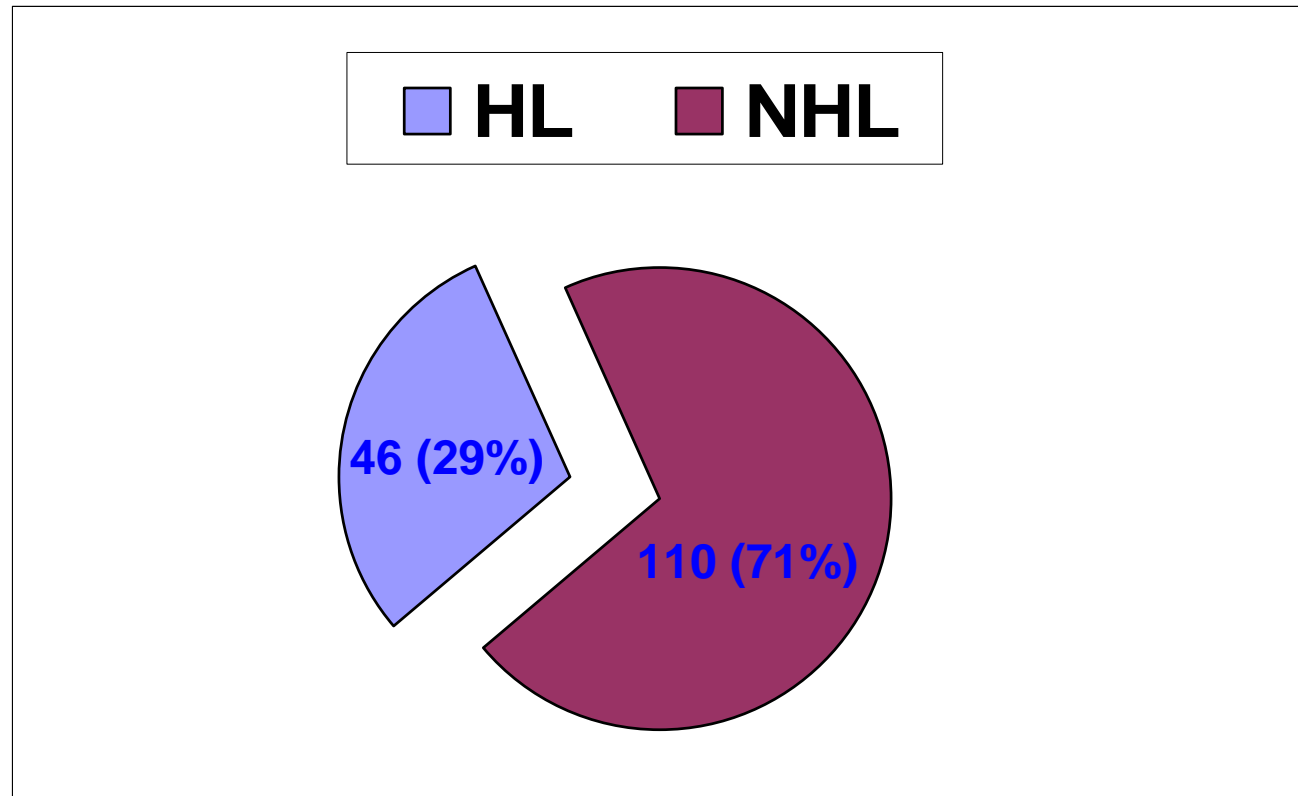
- Since 1998
- 11 rooms (23 beds)
- No sterile room
- Three hematologists
- One oncologist
- One practitioner
- Seven Nurses
- Five residents
- Trainees: 3



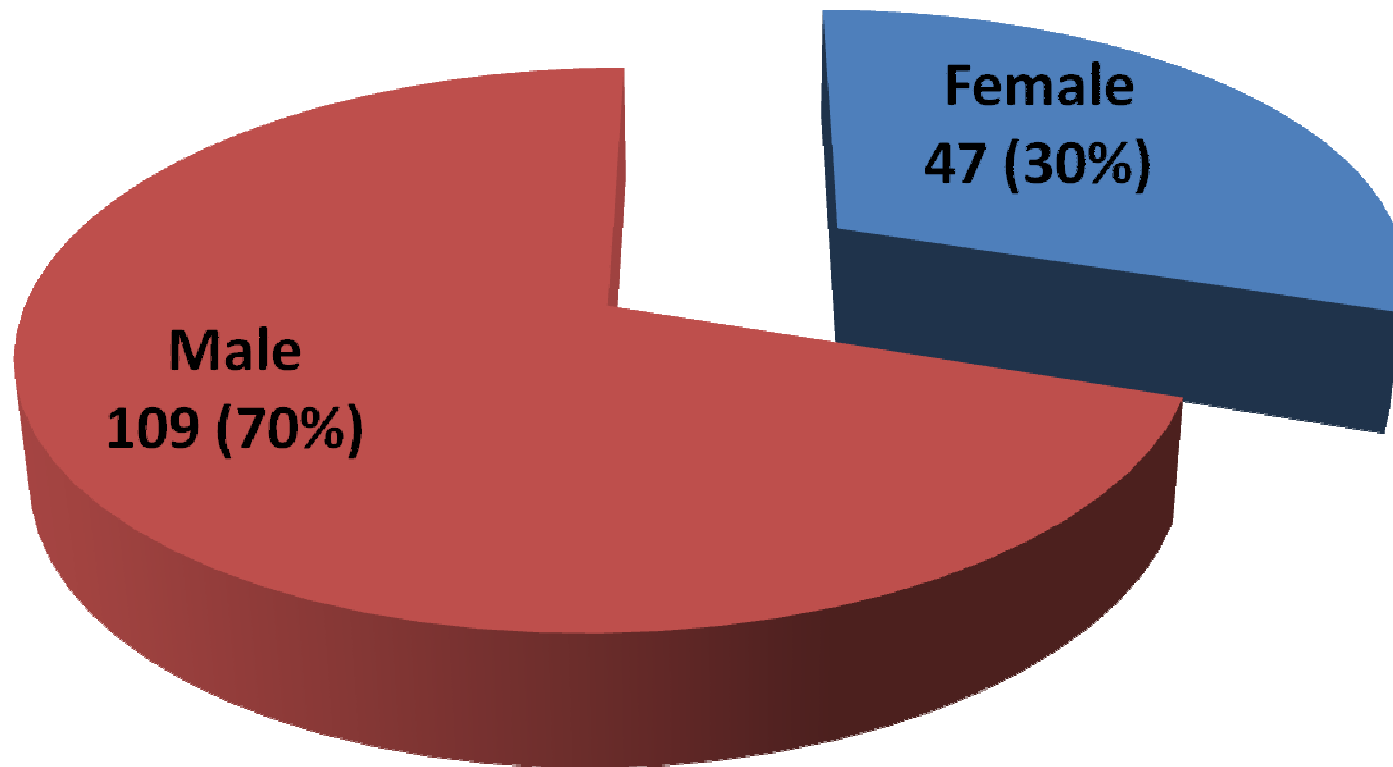
Evolution of cases during in the HOM service (1996 to 2003)



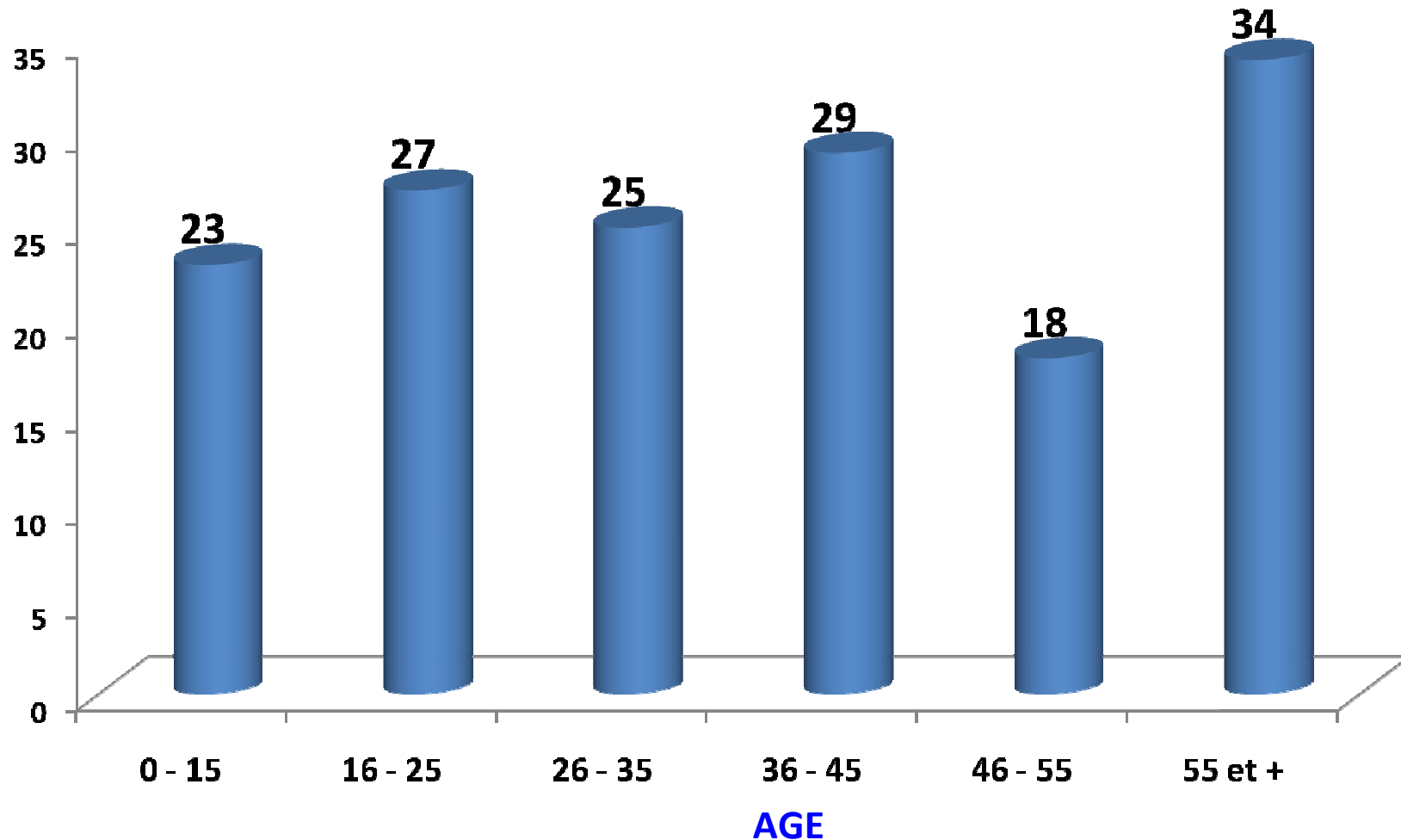
Types of Lymphomas (2004- 2010): N = 156



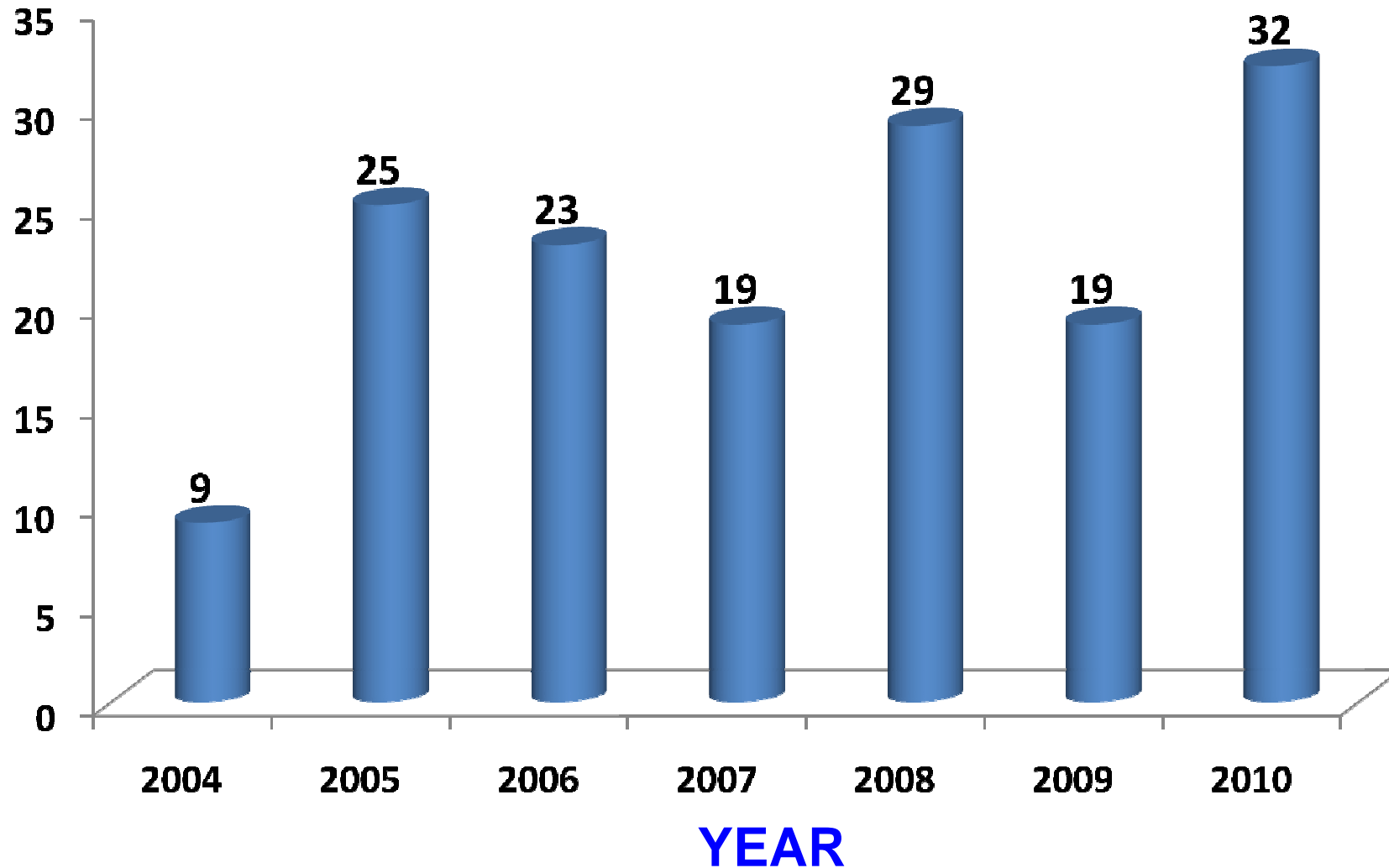
Distribution of NHL by gender (2004 – 2010)



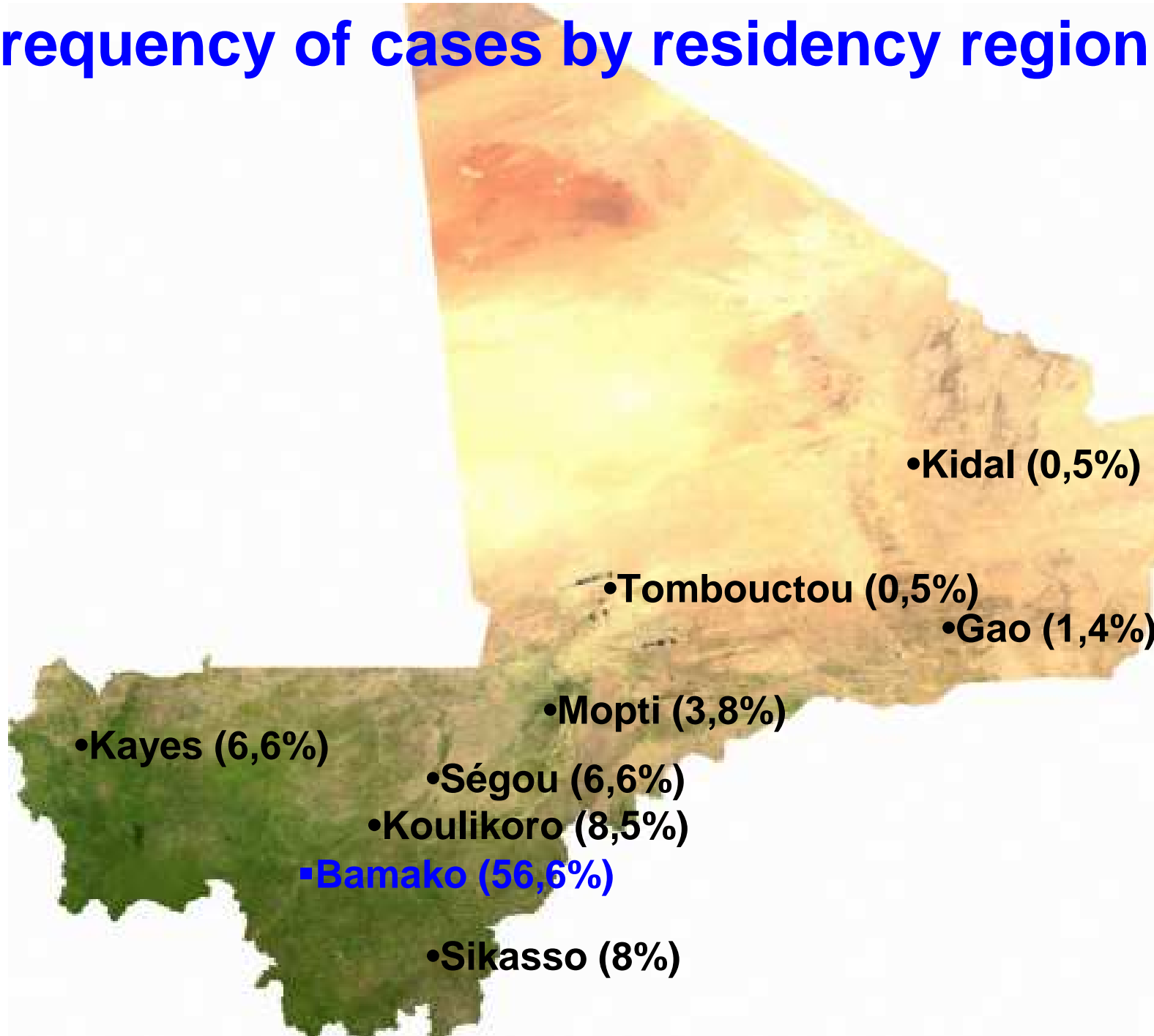
Distribution of NHL by age categories (2004 – 2010)



Cases of lymphomas over years



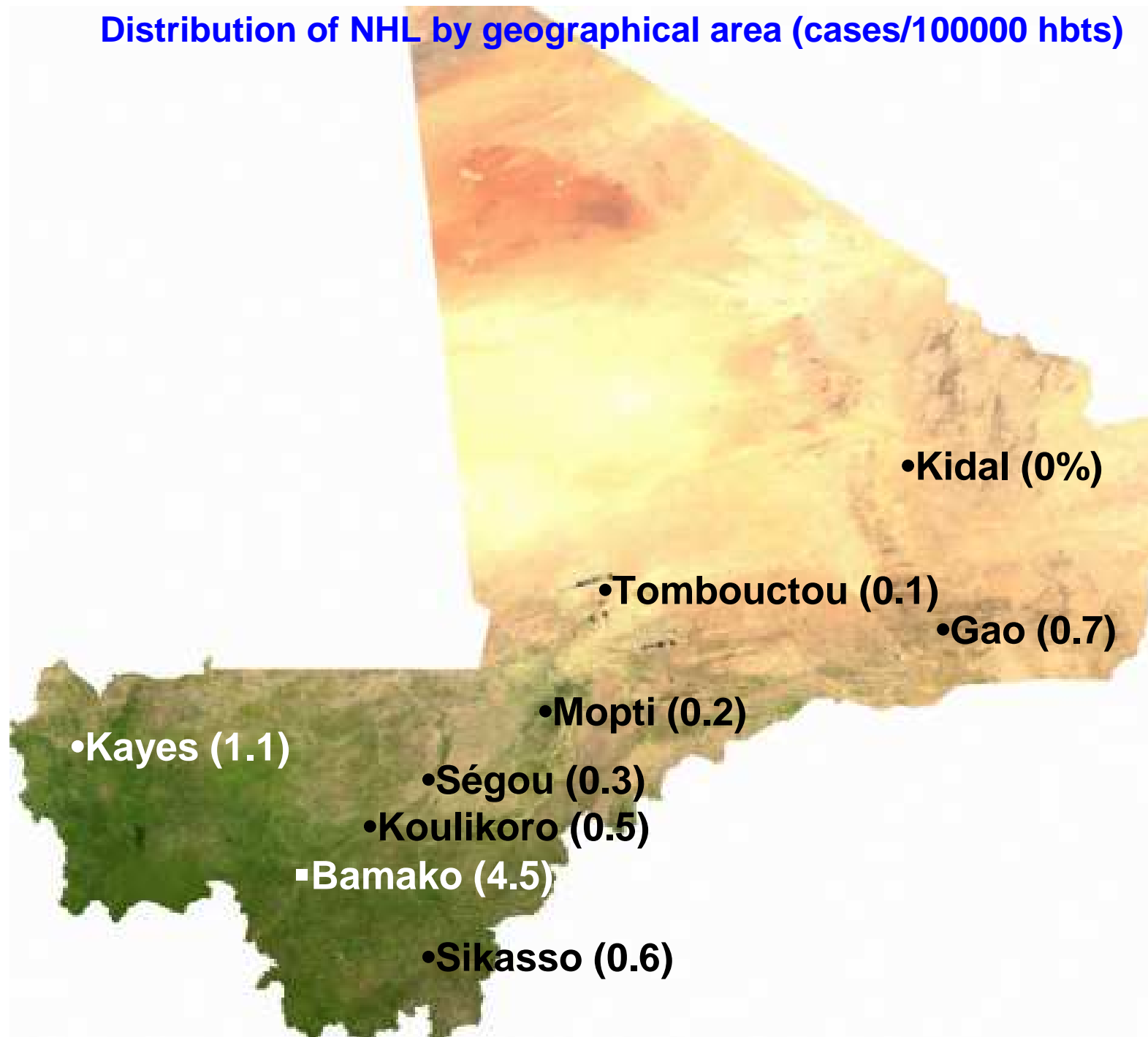
Frequency of cases by residency region



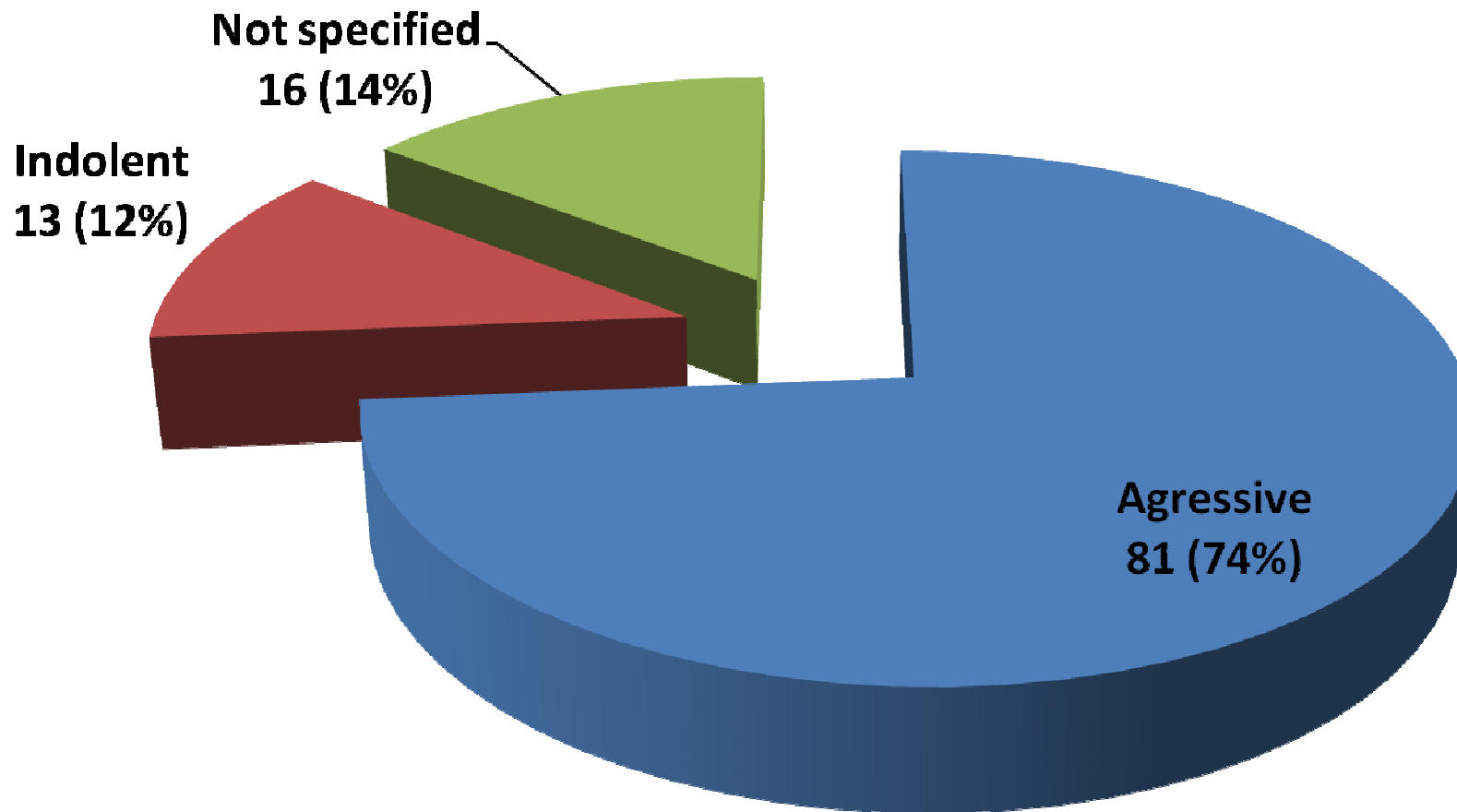
Distribution of NHL by geographical area

Regions	Population ⁽¹⁾	Lymphomas	Cases/Population (X10⁻⁵)
Kayes	1 996 812	22	1.1
Koulikoro	2 418 305	13	0.5
Sikasso	2 625 919	17	0.6
Ségou	2 336 255	6	0.3
Mopti	2 037 330	5	0.2
Tombouctou	681 691	1	0.1
Gao	544 120	4	0.7
Kidal	67 638	0	0
Bamako	1 809 106	82	4.5

Distribution of NHL by geographical area (cases/100000 hbts)



Classification of NHL cases



Histoprognostic types of NHL by sexe

	Gender		
Types of NHL	Male	Female	Total
Aggressive	56	25	81
Indolent	9	4	13
Not specified	12	4	16
Total	77	33	110

Conclusion

- **Lymphomas seems to be frequent in Mali (the more frequent hematological malignancy diseases);**
- **Incidence of Lymphoma are increasing with specificities according to the age of patients;**
- **More frequent in men than women;**
- **Histological types are dominated by NHL;**
- **Diffuse Large B Cell Lymphomas (DLBCL) are more common sub-type followed by Peripheral T-Cell Lymphomas (PTCL);**
- **Studies on specific risk factors should shed light on these epidemiological characteristics**

Aknowledgements

- **Service d'Hématologie-oncologie médicale (HOM), CHU Point G, Bamako**
 - **Dr Abdoul Karim Dembélé**
 - **Dr Madani Ly**
 - **Dr Abdramane A Koné**
 - **Mr Youssouf Traoré**
- **Service d'Hématologie et Immunologie Biologiques Traitement de l'Hémophilie et thérapie transfusionnelle, CHU Bicêtre**
 - **Pr. Martine Raphaël**

Zones climatiques

