Lessons learned from one decade experience of the « Centre de Recherche et de Lutte contre la Drépanocytose (CRLD) » in Bamako, Mali

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4th Global Congress on Sickle Cell Disease

## Introduction

- The CRDL "Centre de Recherche et de Lutte contre la Drépanocytose" is established in 2010 with:
  - The support of a consortium of partners set up and led by the Pierre Fabre Foundation;
  - A strong commitment from the Malian government;
  - And an active associative life ("Association Malienne de Lutte contre la Drépanocytose": AMLUD),

#### The missions attributed to the Center

- Missions assigned to the were to:
  - Ensure access to quality care with equity
  - Develop medical research on sickle cell disease
  - Train medical staff on sickle cell disease
  - Develop information & awareness on sickle cell disease
  - Promote national and international partnership in research

# Recruitment and retention strategies for medical follow-up (minimization of drop-outs)

- The mission to ensure equity in access to care for all was based on three principals:
  - The non-payment of fees before care
  - Payment of fees according to the patient's convenience
  - Partial payment of the fees by the patient, i.e. 40% of the fees.

#### Some achievements in medical care

- ✓ Center has enrolled overall 1,000 new patients per year, achieving more than 12,000 in 2020
- ✓ Sickle cell mortality in the Center in 2020 as showed in this table is:
  - lower than those reported in Tanzania in 2011
  - and close to those reported in the United Kingdom in 2007 and the United States in 2010.

Age (group)	Nomber of patients	Nombre of deaph	Mortality rate (100 person-year)	
≤ 5 years	1233	17	0.06 (0.34 – 0.90)	
6-15 years	3972	36	0.18 (0.13 – 0.25)	
≥ 16 years	7523	171	0.36 (0.31 – 0.42) <u>0.32 (</u> 0.28 – 0.36)	
Total	12728	224		
Tanzanie (Makani et al,	2011)	1,9		
UK (Telfer et al, 2007)		0,15		
USA (Quinn et al, 2010)		0,6		

## **Major difficulties**

- ➤ Three major difficulties :
  - A low ratio of healthcare workers /number of patients;
  - A low number of researchers' staff;
  - No significative strengthening of research staff
- ➤ While the Center has trained more than 200 healthcare workers and more than 300 communicators, it has published only 26 scientific papers versus a minimum of 70 over 10 years

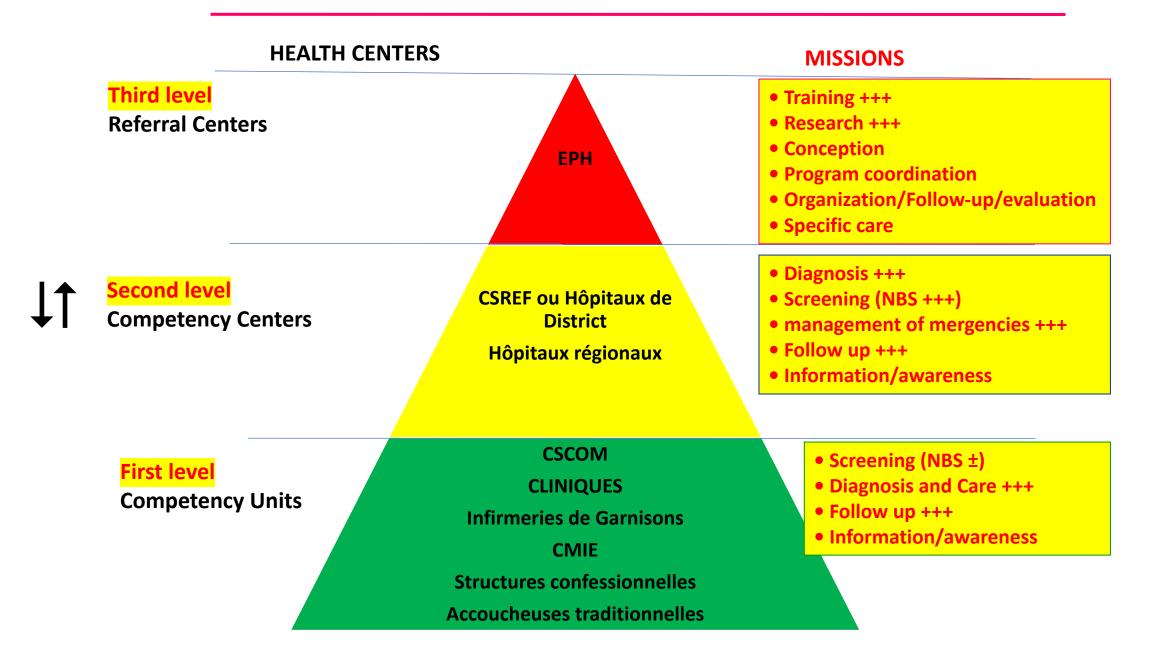
	Human ressources	2010	2019	Balance
5	General Practitioner	3	6	+ 3
	Hematologist	3	3	0
	Pediastrician	0	2	+ 2
f	Biologist	2	2	0
	Psychologist	0	1	+ 1
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1	Researcher	3	4	+ 1
ŀ	Biostatistician	0	1	+ 1
3	Clinical Research Associate	0	2	+ 2
	Data entry Technician	0	3	+ 3

## The Center's Challenges & lessons

- Two major challenges :
  - First: How can CRLD maintain quality and equity of care with a limited number of staff in the face of continuous annual enrolling of more than 1,000 new patients?
  - Secund: How can the CRLD best conduct its research mission?

• We propose to re-define the missions of CRLD in the framework of healthcare pyramid as this diagram shows.

#### **Sickle Cell Network**



## **Aknowledgements**



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