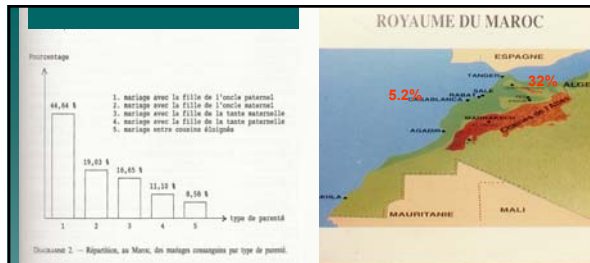


## Neonatal screening in Morocco Inventory and future prospect

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- ◆ 30 M :inhabitants (29891708)
- ◆ Women in age of procreation:24%
- ◆ Births /year:710 000
- ◆ Annual rate of increase in population:1,4 %
- ◆ Life expectancy: 47 years in 1962 to 71 years in 2004,
- ◆ Aggregative index of fruitfulness: 7 in 1962; 2,5 in 2004
- ◆ Neonatal mortality :27%
- ◆ Child Mortality :38 %



- ◆ high frequency of the consanguineous unions in the mediums economically underprivileged:
  - rural and mountainous zones,
  - rate varies between the extreme values of 5,32 % to 32 %.

## Data available and Suggestions

Place and year of screening	Number of patient	Number of cases	RABAT	405 tests	AS	9	2.22 %
Rabat 1994	400	0,5%	TETOUAN	121 tests	Bart's	1	0,8 %
			LARACHE	383 tests	SS	1	0,3 %
Rabat 1996	3300	1 cas / 1138			S-β Thal	1	0,3 %
					AS	22	5,7 %
					AS+Bart's	1	0,3 %
					Bart's	4	1 %
					AO	2	0,5 %
Fès et région (2001-2003)	15650	1 cas / 1952			AO	1	0,3 %
					AO	1	0,8 %
					AO	1	0,8 %

Tableau 1 : Results of congenital hypothyroidism screening (Rabat , Fès)

Tableau 2: Results of neonatal Hemoglobin Disorders screening (Rabat, Tétouan, Larache)

## Results

n = 909 Tests

46 tests positifs / 909

<b>Sd. Drép. Majeurs</b>	<b>2</b>	<b>0,22 %</b>
SS	1	0,11 %
S βThal	1	0,11 %
<b>Hb Bart's</b>	<b>5</b>	<b>0,55 %</b>
<b>Porteurs</b>	<b>39</b>	<b>4,29 %</b>
<b>Hb AS</b>	<b>32</b>	<b>3,52 %</b>
(dont 1 cas Hb AS + Hb Bart's)	6	0,66 %
Hb AC	6	0,66 %
Hb AO	1	0,11 %

## Suggestions and prospects

- ▲ No data available neonatal screening for phenylketonuria ,adrenal hyperplasia or cystic fibrosis
  - investigations in various areas of the country before deciding to adopt a systematic or targeted screening.
- ▲ Neonatal screening of hearing loss : material available and preliminary training of the implied personnel

## Suggestions and prospects

### ^ Difficulties:

#### Date of creening

One could propose to change the date of vaccination to BCG and l'hepatite B to day 3 of life or in first week and not at day 15 of life.

#### Analysis

creation of a referent center in hôpital d'enfants de Rabat (Professeur Chabraoui)

- ^ Into final, and it is the objective of this workshop, remains to conceive a program directed towards the realization, in best conditions, of a neonatal screening adapted to the reality of our country. That requires generalization of information and the training of the people resources implied in the various stages of this process.