Born without risks : utopia or reality ?

Paediatric Intensive Care
M.T HamlaouiUnit
Algiers

Marrakech Nov. 2006

ALGERIA

33,2 Millions (1er January 2006)
33,8 Millions (1er January 2007)

703.000 Birth
145.000 Death
280.000 Marriage } 2005

ECONOMY INDICATORS

	1999	2000	2001	2002	2003	2005
BIP(Mds USD)	48,7	54,4	54,8	55,9	66,6	102,2
PIP/P(Mds USD)	1627	1790	1775	1783	2093	3150
Incr.of BIP(%)	3,2	2,4	2,1	4,1	6,8	5,1

	Raw Birth Rate	Raw Mortality Rate (For 1000 personnes)	Rate of Increase
2004	20,36	4,55	1,58
2005	20,67	4,36	1,63
2006	21,4	28,2	1,69

Infant Mortality rate

(for 1000 births)

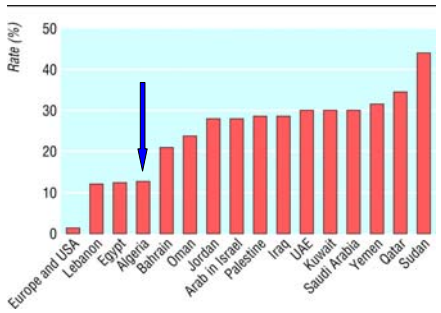
2003	34,6	30,3	32,5
2004	32.2	28,5	30,4
2005	32,4	28,2	30,4
	Boys	Girls	All

ENDOGAMY RATE

(Benallègue and coll.: 1984)

Diabetes Mellitus	:	27,77 %
Polymalformations	:	50,10 %
Hematologic Diseases	:	39,92 %

Average rates of marriages between first cousins among Arabs. UAE=United Arab Emirates



Al-Gazali, L. et al. BMJ 2006;333:831-834

In Algeria :

Systematic screening in neo-natal period not compulsory

TARGETED screening only

Algiers

- 1st January 2004 - 30th September 2006
- Errors of Metabolic Diseases
- Fine clinical test
- Initial Biological Analysis
  (blood gas,ammoniemia,lactates,pyruvates L/P, DNPH,T3,T4, cortisol)
- Frozen plasma and urines
  (sophisticated analysis and confirmation)

Results

- 8 Hyperammoniemia
- 8 Hyperlactacidemia
- 4 Metabolic Myopathies
- 3 Congenital hypothyroidism
- 1 PKU
- 1 Congenital hyperplasia of surrenal
- 1 Deficit in biotinidase

Mardi 13 Juin 2006 16h45
Hélène OGIER" <helene.ogier@rdb.ap-hop-paris.fr>
Re: Re: Re: BIOTINIDASE
Mohamed Hamlaoui"
hamlaouimohamed@yahoo.fr

Cher Ami, je viens d'avoir le résultat de biotinidase de votre patient:

***Il est déficitaire*: votre patient n'a aucune réaction**.

Il n'y a pas de chiffre car il s'agit d'un dosage1/2quantitatif par réaction colorée. Bravo pour ce beau diagnostic. Il faut convaincre les parents et plus tard l'enfant de la nécessité de traiter par biotine sans interruption

Pr H.Ogier De Beaulny
Chef de service Maladies Métaboliques .
Hop.Robert Debré

Confirmation

4 : in Algeria (Hypothyroidisme ,PKU , HCS)

2 : in French-Algerian framework (OTC , Biotinidase)

20 : outstanding diagnosis **(77%)**

Conclusions

- Targeted screening of metabolic diseases possible but LIMITED
- Providing active educational programme (nurses, physicians , biochimists, genetician)
- Interprofessional educational programme
- Consensus statements by experts
- Audit and follow-up

→ **NATIONAL GENETIC MEDICAL COMITY**