

Consanguineous marriages and public health in Morocco

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THE PLACE OF CONSANGUINITY IN THE CONCERT OF CIVILIZATIONS

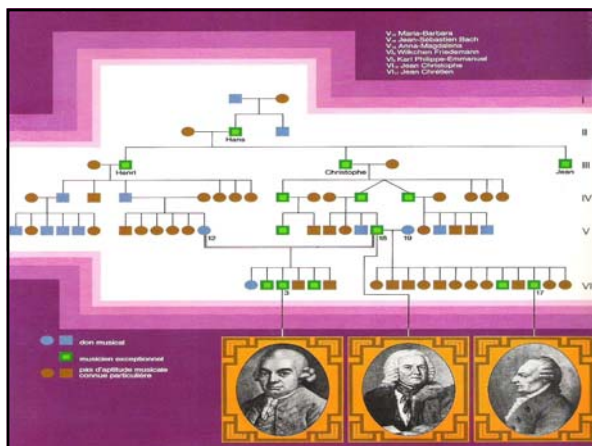
- The Antic Egypt
- The Greco-Roman civilization

A religious outlook on the consanguinity

- Judaism
 - Christianity
 - Islam
- Moroccan law and consanguineous marriages

Socio-Cultural Data

- **Economical aspect:** *Let 's not give our property to others*
- **Social aspect**
- **Psychological aspect**



Factors against Consanguineous marriages

- The growth of communication
- The development of education
- The introduction of co-education in schools and the business life

Factors against Consanguineous marriages

- Disagreement within couples causing dissension and even breaking off between the clan 's members.

«The cousin is a worrying pillow for her husband»

«Your uncle will make you blind, get away from your blood before it brings you misfortune»

Implications in Public Health

- Consanguinity coefficient
- The existence of recessive disease autosomic or polygenic

Personal survey

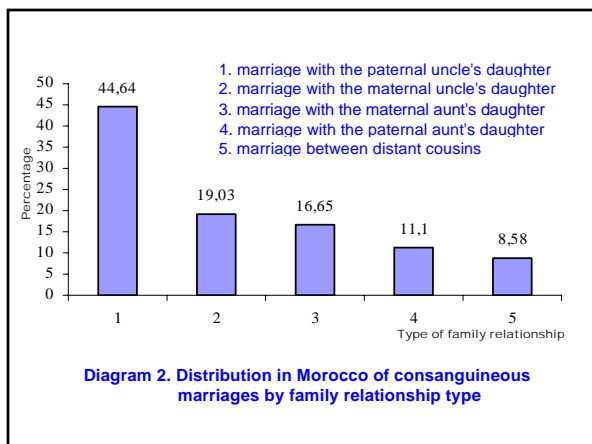
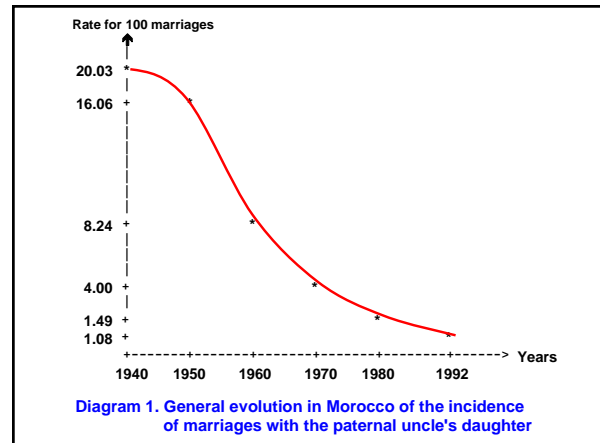


Table I. Frequency of consanguineous marriages in Morocco and other countries

Countries	Frequency of consanguineous marriages per 100 marriages		
	of all types	Between first degree cousins	Between second degree and distant cousins
MOROCCO	19,87	12,39	7,48
EGYPT	58	-	-
INDIA	47	-	-
ALGERIA	22	23,3	8,7
SPAIN	4,12	-	-
PORTUGAL	1,45	-	-
GREAT BRITAIN	0,61	-	-
FRANCE	0,60	0,21	-
SWEDEN	0,01	-	-
U.S.A	0,01	-	-

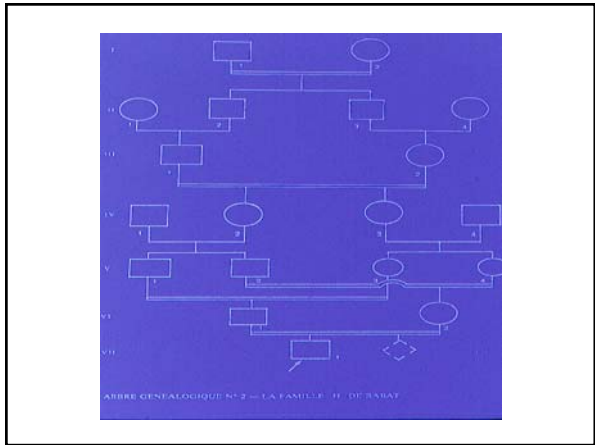


Table 2 : Medical consequences of the consanguinity compared to non consanguineous unions

Studied themes	Moroccan Data (1982-92)	Foreign Data	Authors
Fertility	Similar	Similar Increased Diminished	Lindélius [25] Ashabai-Shami-Schull-Neel-Russel [26,24,27,28,29]
Rate of Masculinity	Similar	Similar Increased	Sutter [30] Indirabai [31]
Rate of twins	Similar	-	-
Rate of abortions	Similar	Similar Increased Diminished	Russel-Jacob [29,26] Chakraborty-(Ashabai [32,26] Book-Goldschmidt [33,34]
Gestation Duration	Similar	-	-
Child birth way	Similar	-	-
Breastfeeding way	Similar	-	-
Infant Mortality	Similar	Increased	Benallègue [15]
Mongolism	Similar	-	-
Polydactyly	Similar	Increased	Benarb [35]
Diabete	Similar	Increased	Benallègue [15]
New-Born weight	Similar	Diminished	Olivier-Divigne-Kulkarni [36,18]

Table 2 : Medical consequences of the consanguinity compared to non consanguineous unions

Studied themes	Moroccan Data (1982-92)	Foreign Data	Authors
Rate of malformations	Increased 1.65 times more	Increased	Sutter-Tabah-Farza-Freire-Maïa-Neel-Rao-Banallègue-Indira bai-Shami [30,37,23,28,17,15,31,24]
Mortality Rate	Increased 1.5 times more	-	-
Ichtyosis Rate	Increased 1.26 times more	-	-
Mental Deficiency Rate	Increased 1.2 times more	Increased	Indira Bai-Srindhara-Morton-Olivier-Costeff [31,38,39,36,40]
Deaf muteness Rate	Increased 1.19 times more	Increased	Benarb [35]
Hematological affections Rate	Increased (Thalassaemia) 1.19 times more	Increased	Benallègue [15]
Gifts Rate	Increased 1.83 times more	Increased	Schmeil [in 1]



Photos of Children have been removed for privacy and confidentiality purposes.

