

Frequency of Maternal-Fetal Incompatibilities in the ABO System

Genotypic frequencies*

	$\frac{\sigma}{\rho}$								
		.0339	.0777	.3682	.0037	.0805	.4350		.999
	♀	AB	AA	AO	BB	BO	O		
.0339	AB	C	C	C	C	C	C		
		1/2 of .0026 .0013				1/2 of .0063 .0031			
.0777	AA		C	C	.0003	.0031	C		
		1/2 of .0125 .0062				1/2 of .0296 .0148			
.3682	AO		C	C	.0014	.0148	C		
		1/2 of .0001 .00006							
.0037	BB		.0003	.0007	C	C	C		
		1/2 of .0027 .0014							
.0805	BO		.0063	.0148	C	C	C		
		1/2 of .1602 .0801				1/2 of .0350 .0175			
.4350	O	.0147	.0338	.0801	.0016	.0175	C		

.999

C - compatible (no antigen in fetus foreign to mother)

* After Gibbett 1967 DADE

While about 20% of the zygotes in the U.S. population are incompatible, only 9% of these are lost. Schaaap et al. '84 Am. J. Hum. Gen. 36:143-151.

0.1983 ~ 20%
Incompatible