



Family Pedigree

of Walid and Nadia
(predicting children traits)

Waleed's Grandparents

Father's side

Hair color	Curly/not curly	Eyes color
A - Jet black	B - curly	C - black
a - medium brown	b - not curly	c - brown

Mother's side

Hair color	Curly/not curly	Eyes color
A - Jet black	B - curly	C - blue
a - medium brown	b - not curly	c - green

P generation: ♀ AA bb Cc X ♂ aa Bb cc

Gametes: ABC; Abc aBc; abc

F1 Generation: Aa BB Cc -dad; Aa Bb Cc; Aa Bb cc; Aa bb cc

Jet black hair color

Curly

Black eyes' color

P generation: ♀ Aa Bb Cc X ♂ Aa Bb Cc

Gametes: ABC; ABc; Abc; AbC; abc; aBC; aBc; abC abC

F1 Generation:

♀ \ ♂	ABC	ABc	Abc	AbC	abc	aBC	aBc	abC
abC	AaBbCC	AaBbCc	AabbCc	AabbCC	aabbCc	aaBbCC	AABbCc	<u>aaBbCC-mom</u>

Waleed's Parents

P generation: ♀ aaBbCC × ♂ Aa BB Cc

Gametes: abc; aBC; abC ABC; ABc; aBc; aBC

♀ ♂	abc	aBC	abC
ABC	AaBbCc	AaBBCC	AaBbCC
ABc	AaBbcc	AaBBcc	AaBbCc
aBC	<u>aaBbCc-</u> Waleed	aaBBCC	aaBbCC
aBc	aaBbcc	aaBBcc	aaBbCc

Hair color	Curly/ not curly	Eyes' color
A-Jet black	B-curly	C-black
a-medium brown	b-not curly	c-blue

Waleed and Nadia

Hair color	Curly/ not curly	Eyes' color
A-Jet black	B-curly	C-black
a-medium brown	b-not curly	c-blue

P generation: ♀ AAbbCc × ♂ aa Bb Cc

Gametes: AbC; Abc aBC; aBc; abc; abC;

♀ \ ♂	Abc	AbC
aBC	AaBbCc	AaBbCC
ABc	AABbcc	AABbCc
abc	Aabbcc	AabbCc
abC	AabbCc	AabbCC

Chance of having a child with blue eyes is 25%

Chance of having a child with straight hair is 50%

