

Pedigrees for Risky Genetics

Pedigree 1 Disease History—Female child **Child's environment: Parents smoke**

| Child's parents | Child's Grandparents |
|-----------------|--|
| Mother: Yes | Maternal Grandmother: No / Maternal Grandfather: Yes |
| Father: No | Paternal Grandmother: Yes / Paternal Grandfather: No |



Pedigree 2 Disease History—Female child **Child's environment: Live in a polluted area**

| Child's parents | Child's Grandparents |
|-----------------|--|
| Mother: No | Maternal Grandmother: Yes / Maternal Grandfather: No |
| Father: Yes | Paternal Grandmother: No / Paternal Grandfather: Yes |



Pedigree 3 Disease History—Male child **Child's environment: Malnourished**

| Child's parents | Child's Grandparents |
|-----------------|--|
| Mother: No | Maternal Grandmother: No / Maternal Grandfather: Yes |
| Father: Yes | Paternal Grandmother: Yes / Paternal Grandfather: No |



Pedigree 4 Disease History—Male child **Child's environment: No special lifestyle factors**

| Child's parents | Child's Grandparents |
|-----------------|---|
| Mother: No | Maternal Grandmother: No / Maternal Grandfather: No |
| Father: Yes | Paternal Grandmother: Yes / Paternal Grandfather: Yes |



Pedigree 5 Disease History—Female identical twins **Children's environment: Malnourished**

| Children's parents | Children's Grandparents |
|--------------------|---|
| Mother: No | Maternal Grandmother: Yes / Maternal Grandfather: Yes |
| Father: No | Paternal Grandmother: Yes / Paternal Grandfather: Yes |



Pedigree 6 Disease History—Male identical twins **Children's environment: Father smokes**

| Children's parents | Children's Grandparents |
|--------------------|--|
| Mother: Yes | Maternal Grandmother: No / Maternal Grandfather: Yes |
| Father: No | Paternal Grandmother: No / Paternal Grandfather: Yes |



Pedigree 7 Disease History—Fraternal twins (1 male, 1 female) **Children's environment: Live in a polluted area**

| Children's parents | Children's Grandparents |
|--------------------|--|
| Mother: No | Maternal Grandmother: Yes / Maternal Grandfather: No |
| Father: Yes | Paternal Grandmother: No / Paternal Grandfather: No |



Pedigree 8 Disease History—Fraternal twins (2 females) **Children's environment: Live in a polluted area**

| Children's parents | Children's Grandparents |
|--------------------|--|
| Mother: Yes | Maternal Grandmother: No / Maternal Grandfather: Yes |
| Father: No | Paternal Grandmother: Yes / Paternal Grandfather: No |