

# Edwards formula

The **Edwards formula** is used to estimate the risk of multifactorial disease.

$$r = \sqrt{p}$$

- r = risk of disability
- p = relative frequency of the disease in the population

The Edwards formula can only be used if the given disease has already occurred in the family (if the disease has not occurred in the family, the risk of occurrence is equal to the relative frequency of the disease in the population) and the calculated risk only applies to **first-degree** relatives - i.e. parents and children, or siblings. In the event that several 1st degree relatives are affected, we multiply the result by their number. Consanguineous marriages generally increase the risk of disability.

## Links

### Related articles

- Multifactorial inheritance

### References

- OTOVÁ, Berta. *Lékařská biologie a genetika*. 1. edition. Praha : Karolinum, 2008. ISBN 978-80-246-1594-3.
- PANCZAK, Aleš, et al. *Polygenní dědičnost* [online]. ©2008. [cit. 2014-01-11]. <<http://biol.lf1.cuni.cz/04Polyg1.pdf>>.