

Information on rates of self-harm

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Calculating rates of self-harm/ per 100,000

Crude self-harm rates are calculated by dividing the number of persons who engaged in self-harm (n) by the relevant population figure (p) and multiplying the result by 100,000, i.e.

(n/p)*100,000.

Example: In 2014, there were 11,126 presentations made by 8,708 persons#. The estimated population for Ireland in 2014 was 4,609,500. Therefore, the crude rate of selfharm in 2014 can be calculated as follows:

(8708/4609500)*100,000=189 per 100,000

*Note: self-harm rates should always be calculated based on the number of persons

A note on small numbers

Calculated rates based on less than 20 events may be an unreliable measure of the underlying rate.

When the numerator is less than 20, the rate is unstable, meaning that a small change in the numerator can lead to a large change in the rate from one year to the next¹. As a result it's very difficult to interpret meaningful differences between regions or sub-groups when small numbers are involved, or to distinguish 'real' changes in rates year on year. As a result, caution should be used when drawing conclusions².

¹ https://www.stats.indiana.edu/vitals/CalculatingARate.pdf https://www.health.ny.gov/diseases/chronic/ratesmall.htm