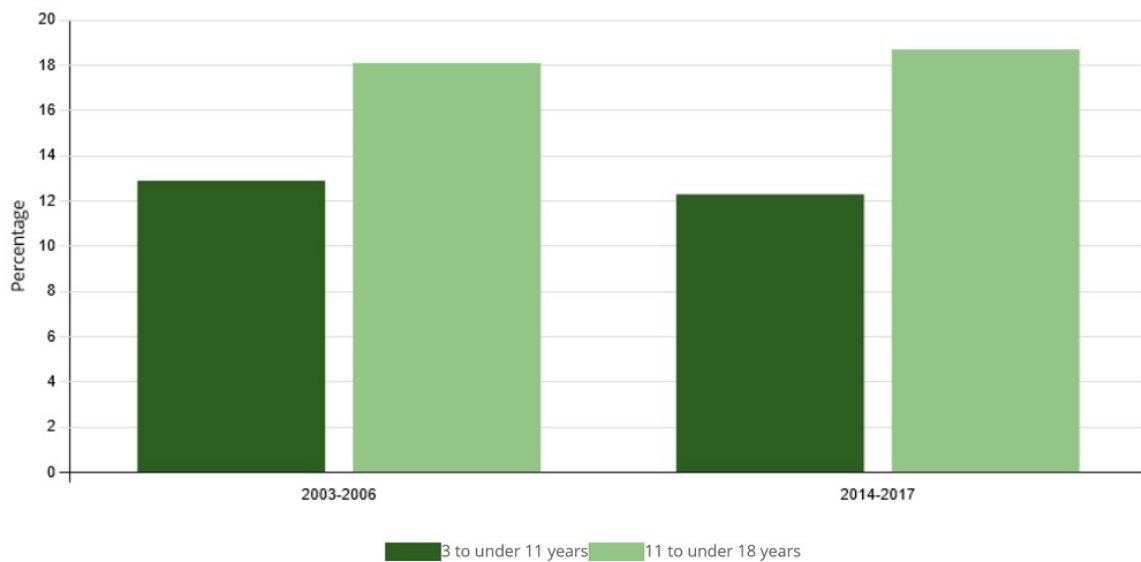




Health and nutrition – *Living healthy for longer*

3.1.e Obesity rate among children and adolescents

Obesity rate among children (3 to 10-year-olds) and adolescents (11 to 17-year-olds)



Note(s):

The data is based on a special evaluation and is not publicly available. – Age-standardisation: Population status: 31.12.2015.

Data source(s):

Robert Koch-Institute

Definition

The indicator shows the obesity rate among children (3 to 10-year-olds) and adolescents (11 to 17-year-olds) as a proportion of all people in the same age group. For children and adolescents, age and gender are used to define overweight and obesity in order to compare the BMI values (body mass index) with a defined reference population. The Kromeyer-Hauschild percentile reference values recommended by the Working Group on Obesity in Children and Adolescents (AGA) are used as a benchmark. If the BMI value is above the 90th age- and gender-specific percentile of the reference population (>P90), i.e. in the range of the 10% of the reference group with the highest BMI values, children and adolescents are overweight. If the BMI value is above the 97th percentile of the reference population (i.e. as high as the 3% of children or adolescents with the highest BMI values), this is obesity (>P97).

Intention

Obesity in children and adolescents jeopardises normal age-related development. Exclusion and social withdrawal are the consequences and also lead to both health and social problems. The majority of children and adolescents who are already obese also suffer from obesity in adulthood.



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Target

Increase to be permanently halted

Content and progress

The Body Mass Index (BMI) serves as a reference value for assessing overweight and, in particular, obesity. It is calculated as the ratio of body weight to the square of body height (in units of kg/m^2), but does not take into account the individual composition of body mass. Since the ratio of height to weight continuously changes during childhood and adolescence, there are no uniform cut-off values for classifying overweight and obesity across all age groups. Therefore, age- and sex-specific BMI percentile curves are used, which represent the distribution of BMI within a reference population. This allows the BMI values of children and adolescents to be classified relative to boys or girls of the same age. In Germany, obesity is defined according to the reference system by Kromeyer-Hauschild et al. These underlying reference values are based on surveys of height and weight conducted between 1985 and 1998 in various regions of Germany using different methods. A BMI above the 97th percentile ($>P97$) is defined as obesity. For example, children aged 3 to under 4 years with a BMI of $18.8 \text{ kg}/\text{m}^2$ are classified as obese.

The data basis for this indicator comes from the Robert Koch Institute (RKI). The first nationwide representative health survey of children and adolescents in Germany (KiGGS) was conducted between 2003 and 2006. Comparable data are available from the second survey wave (KiGGS Wave 2) covering the period from 2014 to 2017. To enable comparisons over time – independent of demographic changes – the results were standardised to the population level as of 31 December 2015. Between 2014 and 2017, 3.9% of children aged 3 to 10 and 8.0% of those aged 11 to 17 were classified as obese. In the younger age group, no sex-specific differences were observed. Among 11- to 17-year-olds, 7.2% of girls and 8.7% of boys were obese.

By comparison, between 2003 and 2006, the prevalence of obesity among children aged 3 to 10 was 5.2%, and among those aged 11 to 17, 8.3%. During this period, no sex differences were observed in the younger group. In the older group, 8.2% of girls and 8.4% of boys were obese. Overall, the 3- to 10-year-olds showed a decline in obesity prevalence compared to the first survey period, while only minor changes were observed among 11- to 17-year-olds.

Key influencing factors for the development of overweight and obesity are dietary and physical activity behaviours. These vary markedly depending on socioeconomic status (SES). The results of KiGGS Wave 2 confirm that children and adolescents aged 3 to 17 with low SES are more likely to have unhealthy diets and engage less frequently in sports than their peers from socially better-off families. The risk of overweight and obesity among children and adolescents with low SES is approximately three to four times higher than among their peers with high SES. Both groups each account for about 20% of the study population.

Type of target

Directional target



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Assessment

The proportion of children and adolescents with obesity should decrease or remain constant.

An assessment of indicator 3.1.e is not possible. Too few data points.