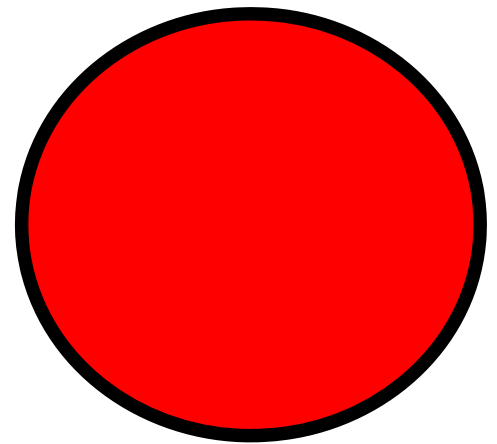
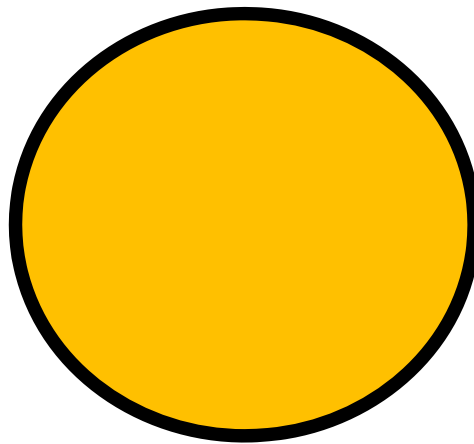
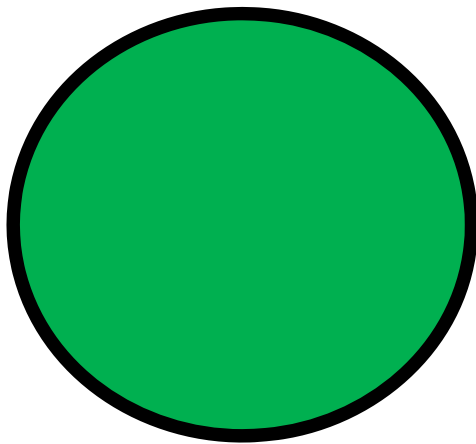


BMI-based classification (Cole)

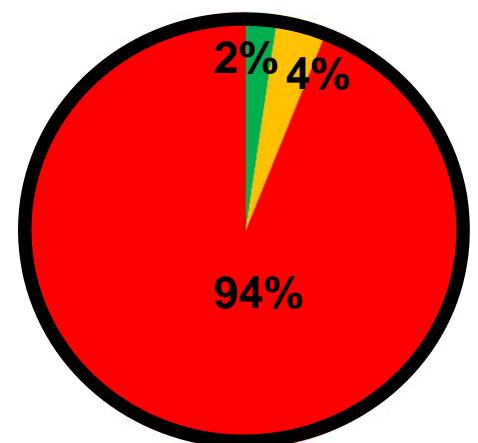
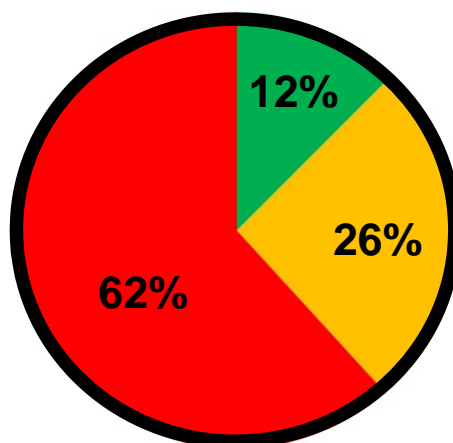
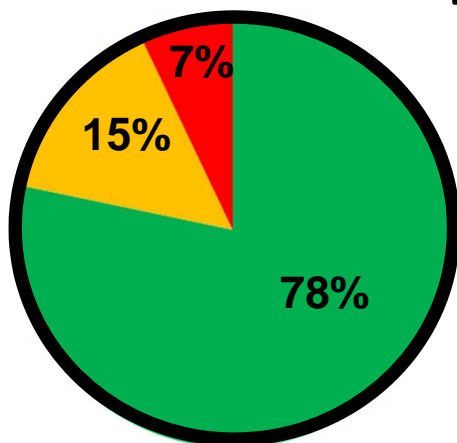
Normal weight

Overweight

Obesity



% Body fat-based classification



Supplementary Fig. 1 Percentages of misclassification according to body mass index (upper panel) and body fat percentage (lower panel) in children and adolescents of the global cohort (n=553) classified according to Cole.

Supplementary Table 1 Distribution of children and adolescents from subcohort 2 according to the established groups and Tanner stage

| | Normal (Cole and BF%) | Normal-OW Cole/Obesity BF% NOOB | Obesity- Cole/Obesity BF% OBOB |
|---------|--------------------------|--|---|
| Stage 1 | 15 | 35 | 50 |
| Stage 2 | 14 | 44 | 42 |
| Stage 3 | 24 | 29 | 47 |
| Stage 4 | 50 | 17 | 33 |
| Stage 5 | 28 | 31 | 41 |

Data are expressed as percentage. Differences in distribution were analyzed by Chi squared ($P=0.564$).