How to beat the 'freshman five' weight gain
24 August 2018, by Erin Barbour-Tuck

As part of my Ph.D. studies at the University of Saskatchewan, I have observed that approximately 90 per cent of the PBMAS participants were normal weight when they were aged nine to 15. Now in their 30s and 40s, more than 60 per cent are classified as overweight.

We have found that females will gain one to five kilograms of body fat during young adulthood, while males will gain 1.5 to 10 kilograms on average.

Fat mass —the "storage" fat that is not needed for survival —has been shown to account for much of the weight gained beyond late adolescence, rather than increases in muscle or bone mass. This is concerning because excess fat mass is linked to myriad health risks such as cardiovascular disease.

We have also developed models that predict the age at which people are likely to become overweight. According to preliminary data, we estimate that normal-weight females will become overweight at approximately 14 years old, males at around 25.

These predicted ages coincide with the two-fold increase in Canadian overweight and obesity prevalence between the 18-19 year age group (22 per cent) and the 25-34 year age group (50 per cent).

Excercise makes all the difference

Physical activity has well-documented health benefits and has a strong positive relationship with healthy weight.

Emerging adulthood, the time period between the latter teenage years and early adulthood (18-25 years), often coincides with decreasing physical activity, and increasing time spent in sedentary behaviours. Less than 20 per cent of individuals show stable levels of physical activity from childhood to adulthood.

It's not surprising that we identified physical activity
level as a predictor of fat mass gains during emerging adulthood.

Specifically, meeting physical activity recommendations for adults 18 years and over, versus not exercising during emerging adulthood, can result in an almost eight-kilogram difference in body fat by 28 years of age.

While very few children meet physical activity recommendations, adults meeting those recommendations are even fewer. We advise students to be aware of their physical activity choices, ensuring that they are maintaining or increasing physical activity to meet guidelines and maintain normal weights.

**Healthy diet consultations**

Our research also underscores the importance of healthy body weight during childhood and adolescence. We have found that the amount of fat mass in childhood and adolescence is the strongest predictor of how much weight young adults gain.

Males with higher fat mass as children and teenagers gained almost 25 kilograms more by age 28, while females with higher fat mass showed a 12-kilogram difference.

Even within the "normal weight" group of participants, findings suggest that the more fat you have as a child, the more fat you will gain later.

The bottom line from our research is that keeping youth at healthy weights is important but will not prevent them from becoming overweight later in life.

But we can do something about it. We need to create programs targeting children, adolescents and young adults to counteract adults' current level of obesity. Interventions such as physical activity programming and dietary consultations should focus on maintaining (or achieving) a healthy weight and healthy lifestyle during the transitional period from adolescence to adulthood.

Parents, teachers and others need to be more deliberate in role-modelling and teaching children and youth how to incorporate regular physical activity into life as an adult.

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