CASE STUDY 3 Young athlete. Melinda M. Manore

Athlete

Jackie was a 12-year-old gymnast, training at an elite gymnastics program away Irom her home. She lived in a boarding home and attended the local high school. She was happy with her current weight (40 kg), but did not want to get any heavier. She trained

4 h each day during the week, and twice on Saturday. She had recently added weight training (1.5-2 h a week) to her program. Jackie had not received much nutrilion education bul was concerned about what she ate. She suspected that her eating patterns were not ideal since she often got very hungry and shaky during her afternoon practice. She was Irustrated about her recent lack 01 improvement during practice or competition. Jackie had not grown in the past year and had not started menstruating.

Reason for consultancy

Jackie's mother was concerned about her lack 01 growth, and her restriclive ealing patterns. She also considered that Jackie was too young lor weight training

Current dietary and activity patterns

In order to prevent weight gain, Jackie had decided to limit lat intake. She kept on ly lat-Iree snacks in her room and ate low-lat loods at meals. Her daily schedule was as lollows: 7.30 AM school starts, **11.00** AM lunch, 1.30 PM school ends, 2.00 PM practice starts, 7.00 PM dinner. She studied and watched TV after dinner, usually going to bed around midnight. Jackie's typical diet is outlined below.

Professional assessment

Mean daily intake Irom this sell-reported eating plan was assessed to be about 5900 kJ (1400 kcal), low in lat (- 1 5% 01 energy), and adequate in protein (1.3 g·kg-¹). Jackie's intake

01 Iruits and vegetables and dairy products was less than recommended daily intakes, and her cereal choices were highly processed (white bread, rice or pasta, sugar-rich breaklast cereals). Overall, her energy and lat intake was assessed to

be too restrictive, and her intakes 01 many micronutrients and liber were inadequate. The acute ellect 01 inadequate intake 01 energy was the hunger and latigue experienced during training, interlering with optimal performance. However, it was likely that chronic energy restriction lailed to provide sufficient fuel for growth and the development 01 puberty