The Consumption Preferences of Milk and Dairy Products of Undergraduate Students

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Abstract: Human has different stages in their life as from babyhood to adult. The healthy and balanced diet preferences of people play an important role in each human life parts. Especially milk and dairy products are necessary for human health because of their nutrition value and body functions. One of the parts of people life is university life. Starting university is a turning point in terms of eating habits, since food choices responsibility of university students increases in this period. According to the researches, increasing availability of fast foods, changes in living arrangements, life experiences, expectations, preferences and beliefs related with food selections are most common reasons regarding dietary choices in this young adults group. University students had drinking milk habits in primary school but most of them lose their habits during university life. The students’ first preferences were cheese and then yogurt and finally milk. A very little part of university students consume milk and dairy products regularly. The consumption habits and milk and dairy product catering of university students were examined. The consumption preferences of milk and dairy products of the students in different Universities are reviewed in this review.

Key words: Milk, dairy products, consumption preferences, undergraduate students.

1. Introduction

Starting university can change something in students’ life. One of the changes is that eating habits may affect their life and health. University students can have some new consumption preferences like consuming fast food, alcoholic beverages at the same time they can lose some consumption preferences as consuming milk and dairy products. Determination of college students’ milk and milk products catering by means of questionnaires is very important because of the fact that providing awareness of consumption. That’s why it should be examined from benefits of milk to different results of questionnaires related to milk and dairy product catering of university students.

People’s life, achievements and productivities are related to their healthy and balanced diet. Nutrition is defined as keeping health and quality life by taking healthy and balanced diet. A good eating habit is related to taking different compounds from animal and plant based foods [1, 2].

Human health is influenced by different factors as individual’s lifestyle and genetic factors [3]. Nutritional intake is one of the important factors affecting on human health. It has been documented importance of healthy eating against to chronic disease [4].

Consumers make their food purchasing decisions according to price, health, taste and convenience [5-9]. However, food selection is depending on some complex internal and external factors. The external factors as environmental, demographic and socioeconomic can be determined easily [10]. Nevertheless, some internal factors like values, concerns, beliefs regarding foods can be measured difficulty [11]. Consuming milk and milk products depends on people’s eating habits, ages, income and other important factors.

On the other hand, milk has a different place among...
foods. Milk has approximately 85 compounds (organic acid, hormone, minerals, vitamins etc.) [1, 2]. It is important because it has adequate amount of protein, lactose, fat, vitamin and minerals for the body. It is not only having high nutritional value but also regulate body functions. Furthermore, milk plays an important role for development of bones and teeth [12]. Another point to be kept in mind is that milk is a good source of energy, providing about 650 kcal energy/1,000 g milk [13].

Daily milk requirement changes for humans. Milk requirement for baby is 700 g, for children 400 g, for young 350 g, for adults 250 g, for pregnant 500 g and finally for old people 350 g [14, 15].

Annual milk consumption per person is 30 kg in Turkey, 95 kg in European Union, 95.3 kg in United States of America, 94.4 kg in Russia, 108.4 kg in Australia. In Turkey and USA, butter consumption per person is 1.3 kg/year. It is 4.5 kg in EU, 3.5 kg in Russia, and 3.2 kg in Australia. Annual cheese consumption per person is 12.5 kg in Turkey, 17.5 kg in EU, 13.1 kg in USA, 8.8 kg in Australia, and 3.6 kg in Russia [16, 17].

Recommended calcium intake for young adult men and women (19 to 30 years old) is 1.00 mg/day [18], however this amount is frequently not met [19]. Milk is the most important food in terms of contributing the bone density of people from childhood to adulthood on the way during each stage of life [20-25].

2. University Life and Eating Habits

Health of individuals in the long term can be affected by dietary habits acquired in early life [26]. There are some evidences that lifestyle and diet in youth may have long-term health implications [27]. Starting university is a turning point in terms of eating habits, since food choices responsibility of university students increases in this period [28].

Another point kept in mind is that this group is callow with respect to food shopping and preparation of meal [29]. Furthermore, increasing availability of fast foods [30], changes in living arrangements [31], life experiences, expectations, preferences and beliefs related with food selections [8, 32] are most common reasons regarding dietary choices in this young adults group.

University students are a transition group between childhood and adult. Their eating habits may change because of leaving their family. So their eating preferences can change. This period is important for their future from the point of view of how to change their eating habits [33].

3. Undergraduate University Students’ Milk and Dairy Consumptions

There are a lot of studies related with consumption of milk and dairy products for students and other people [15, 34-38].

It is stated that cheese is the most consumed dairy product in a study on university students in Konya. It was concluded that university students did not have enough information about nutritional value of milk and did not consume milk and milk products adequately [34].

In a survey carried out on university student in Istanbul, 11% of students consumed milk at breakfast. A part of students (18.75%) consumed 0.5 Liter of milk during a day. However, it is stated that 29% of students did not consume any milk [39].

In another study, students’ first preferences were cheese and then yogurt and finally milk [40].

Tarakci et al. [41] stated that milk consumption of undergraduate students in Yuzuncu Yıl University was 3.7 kg/month per student. The average milk consumption was 100 g, only one third of daily requirement.

Another study examined the consumption-habits of undergraduate students (362 students) of Yuzuncu Yıl University. The most consumed dairy product was white cheese (524 g/week). The second most consumed cheese type was Otlu (Herby) cheese. Full fat yoghurts were mostly preferred among the students. 98 % of the university students consumed Ayran [37].
Mazıcıoğlu and Ozturk [33] stated that 7.8% of students in Erciyes University consumed milk in their breakfast and 9.3% of them consumed regularly.

In a questionnaire carried out on 113 students of the Engineering Faculty of Celal Bayar University, 63.7% of students consumed milk; 79.1% of them had this habit at primary school. Their families were the major factor to start to drink milk. Furthermore, 56% of students stated that they consume less milk than that of their childhood period [42].

Yılmaz and Ozkan [43] have searched the eating habits of Balıkesir University students. It was stated that only 5.1% of students consumed milk compared to 65.7% of tea. Furthermore, 4% of the students consumed ayran, 22.3% of them yoghurt and 76% of them cheese.

Ozen et al. [44] declared that 28% of the university students in Istanbul consume fizzy drinks every day but 67.7% of them drink milk generally.

In a study, it is stated that 13.8% of the Physical Education students in Ankara drink milk in their breakfast and the other students drink fruit juices or tea. 28.6% of male and 38.1% of female students consume cheese at breakfast time. Another point to be kept in mind is that the knowledge of students about milk and milk products was found in limited levels [45].

In another study, the situations of animal products consumption and consumer preferences among intern students at the Ankara University Faculty of Veterinary Medicine were examined. This study was carried out among 122 students in the education period of 2006-2007. According to result of the questionnaire, 67.1% of the students spent less than 200 TL (108 $) for their monthly food consumption. On the other hand, 8.2% of the students never consumed milk as a drink. Another point is that milk and meat were purchased from supermarket by 95.1% and 83.7% of students [46].

Cetinkaya [47] have conducted a study related with consumption habits of milk and milk products among the students in Kafkas University. For this purpose, 750 university students having education in a different department of Kafkas University were used as a material. 33% of the students had milk consumption but 67% of them never drank milk over the study period. According to results of the study, the consumption ratios of yoghurt, cheese, butter, milk powder, and milk with fruit and yoghurt with fruit were 34%, 49%, 12%, 1%, and 2%, respectively. It was stated that the majority of the students: (1) did not have the habit of regularly drinking milk, (2) mostly consumed cheese and yoghurt instead, and (3) had a very limited knowledge of drinking milk and milk products.

A study was carried out to determine case of probiotic product consumption of randomly selected university students (with 1,000 students). It was found that similarly half of students (58.4%) did not know anything about probiotic products and a big part of students (74%) did not know microorganisms in probiotic products. However, it is stated that 25% of students consumed and incidence of probiotic products consumption was higher at girls [48].

4. Conclusion

College students are a transition group between childhood and adult. Their eating habits may change in this period by different factors. This changing may affect their life and health. Drinking milk habit coming from childhood should continue in this period. But the college students are not aware of the importance of milk consumption and milk products. There are a lot of questionnaires related with consuming milk and milk products. If the studies in this area increase, we can have statistical data about university students’ knowledge of milk and dairy products. Furthermore, their habits of consuming milk and milk products may be better.

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