

Untimely Intake a Postmodern Public Health Bioterrorism

Akbar Nikkhah*

Department of Animal Science Faculty of Agricultural Sciences, University of Zanjan, National Elite Foundation, Iran

The objective of this editorial article is to raise a postmodern concern that human beings, like other diurnal animals, have long been educated to have circadian rhythms in physiology and metabolism that dictate diurnal activity and nocturnal silence and passivity. As a consequence, time to rest and sleep is when melatonin is secreted to cope with the reduced requirements for fueling nutrients. In other words, insulin and similar chemicals have little to contribute nocturnally [4-6]. When insulin is not adequately sensitive (i.e., overnight) is, thus, not the right time to load the liver and periphery with foods of nutrients that can only exacerbate the already created unhealthy conditions towards obesity, diabetes and subsequent diseases.

Despite the tremendous efforts on establishing how quality and quantity of nutrient intake affect health and life quality, practically no considerable practical and global attention has been given to elaborating the timing of food intake as a working biodefense strategy [1]. Untimely intake, however, is of crucial significance in predisposing the body to a devastating collection of metabolic syndromes and health issues, such as abdominal obesity, liver abnormalities, diabetes, hypertension, blood pressure, cardiovascular problems and different cancers [2-6].

Inspired by ruminant metabolic models data, a global theory has been developed to relate ease and efficiency in metabolic physiology when during the 24-h period nutrients are consumed [4]. It becomes more important should such timing of intake be specified for different food components including sugars, starches, soya and rough bers, proteins and amino acids, various types of fatty acids, and vitamins and minerals. Discovering optimum circadian times of consuming different kinds of foods can strengthen public health and nutrition programs and more accurately meet nutrient requirements for diverse groups of individuals without compromising freedom in making desired food choices and restrictions on daily food regimens. This accomplishment describes a postmodern biodefense against an overlooked bioterrorism.

Morning is known to be an optimum time to receive and metabolize nutrients towards meeting cell requirements for growth, proliferation and waste management [5]. In contrast, evening and night are considered suboptimal times to assimilate large amounts of nutrients because the body is not readily and endocrinologically prepared to healthfully process foods [6]. Such a nocturnally reduced metabolic capacity stems from the evolutionary principle that human, likewise

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2. Nikkhah A (2011) In Press. Corresponding author: Akbar Nikkhah, Chief Highly Distinguished Professor, Department of Animal Science Faculty of Agricultural Sciences, University of Zanjan, National Elite Foundation, Iran, Tel: 0098-241-5152801; E-mail: anikkha@yahoo.com

anikkha@yahoo.com

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