Opinion

Feeding either Conditioned or by Demand - ☀

Mario Ciampolini*

Preventive Gastroenterology Unit, Department of Pediatrics, Università di Firenze 50132 Florence, Italy

*Address for Correspondence: Mario Ciampolini, Preventive Gastroenterology Unit, Department of Pediatrics, Università di Firenze 50132 Florence, Italy, E-mail: mciampolini@fastwebnet.it

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**ABSTRACT**

There is evidence that conditioned hunger promotes fattening/diabetes that cannot be actually contrasted if conditioned intake is scientifically accepted as normal and equivalent to intake after meal suspension. Conditioned hunger is usually modest as a sensation, but may be reported as intense as or even more intense than the hunger sensation after exhaustion of previous intake or meal suspension [1-2]. Conditioned hunger is even associated with peristaltic movements in small intestine. The distinction is uneasy and requires long focusing on subsequent meal onsets for about a week [1-3]. The main difference resides in the onset: either before or after noticing meal cues (e.g., sight of food, ready table or prepared commensals before a meal, etc.) [1-3]. The BG measurement by portable device is useful to confirm recognition of the same metabolic state of low energy availability [1,2]. Adults were trained by measuring BG at hunger perception and after training, were able to predict BG [1-3]. The American J Clinical Nutrition and other Authorities did not accept portable measurements, defending the use of conditioned eating (status quo) as signal for eating. High preprandial BG might be compensated by lower meal intake, but this revealed to be not true [3-6]. In our investigations measuring BG by a portable device has the unique chance of biochemical checking at the moment of arousal of hunger sensation [4]. Eighties-and-five adult subjects measured BG in a blood sample that was drawn for autoanalyzer measurement. The absolute difference was about 5 mg/DL and this difference does not hamper statistical conclusions in comparison with mean differences between meal patterns of about 20-30 mg/DL. Measurements by glucometer at hunger arousal have about 5 mg/DL mean absolute error, while by autoanalyzer show 1% error in daily confrontation among 50 labs in Tuscany. We attribute the inconsistency of fasting BG to variations in BG from a minute to another. Every twelve minutes glucose influxes into blood from liver and BG increases by about 10% [7-16]. Fasting BG includes different dinner digestive situations. Sometimes, dinner absorption from small intestine has been not completed in the morning. Inconsistency in fasting BG is consequent to this uncertain absorption time and not to portable measurements. Instead the moment before meals is definite and reproducible [17-22]. Low BG was 76.6 ± 3.7 mg/DL at the definite moment of IH perception (Initial Hunger). The confidence interval for this measurement is 3.2 mg/DL [18]. The Low BG sharply distinguishes IH from conditioned intake.

**BACKGROUND**

There is evidence that conditioned hunger promotes fattening/diabetes [1-6] that cannot be actually contrasted if conditioned intake is scientifically accepted as normal and equivalent to intake after meal suspension. Conditioned hunger is usually modest as a sensation, but may be reported as intense as or even more intense than the hunger sensation after exhaustion of previous intake or meal suspension [1,2]. Conditioned hunger is even associated with peristaltic movements in small intestine. The distinction is uneasy and requires long focusing on subsequent meal onsets for about a week [1-3]. The main difference resides in the onset: either before or after noticing meal cues (e.g., sight of food, ready table or prepared commensals before a meal, etc.) [1-3]. The BG measurement by portable device is useful to confirm recognition of the same metabolic state of low energy availability [1,2]. Adults were trained by measuring BG at hunger perception and after training, were able to predict BG [1-3]. The American J Clinical Nutrition and other Authorities did not accept portable measurements, defending the use of conditioned eating (status quo) as signal for eating. High preprandial BG might be compensated by lower meal intake, but this revealed to be not true [3-6]. In our investigations measuring BG by a portable device has the unique chance of biochemical checking at the moment of arousal of hunger sensation [4]. Eighties-and-five adult subjects measured BG in a blood sample that was drawn for autoanalyzer measurement. The absolute difference was about 5 mg/DL and this difference does not hamper statistical conclusions in comparison with mean differences between meal patterns of about 20-30 mg/DL. Measurements by glucometer at hunger arousal have about 5 mg/DL mean absolute error, while by autoanalyzer show 1% error in daily confrontation among 50 labs in Tuscany. We attribute the inconsistency of fasting BG to variations in BG from a minute to another. Every twelve minutes glucose influxes into blood from liver and BG increases by about 10% [7-16]. Fasting BG includes different dinner digestive situations. Sometimes, dinner absorption from small intestine has been not completed in the morning. Inconsistency in fasting BG is consequent to this uncertain absorption time and not to portable measurements. Instead the moment before meals is definite and reproducible [17-22]. Low BG was 76.6 ± 3.7 mg/DL at the definite moment of IH perception (Initial Hunger). The confidence interval for this measurement is 3.2 mg/DL [18]. The Low BG sharply distinguishes IH from conditioned intake.

**CURRENT MEDICAL ASSISTANCE**

Reasonable outlooks sometimes suggest no information of “lay” readers about consequences of a usual behavior like conditioned eating [23]. This partial information is sometimes chosen by Medical Journals with high impact factor. In these circumstances, authorities that retain big communication canals decide what is right or wrong for all [23]. This way, Science is substituted by an arbitrary opinion and a large part of population will go on by eating a mean 20% energy surplus at every meal [17-23]. Events like vascular and malignant diseases will develop unexplained. Medicine cannot be rigid as Science, but if authorities chose what reports are true or false Science ends. We came across the National Child Study (NCS) [24].

The NCS was conceived in the late 1990s and authorized through the Children’s Health Act of 2000. It was intended to be a prospective, epidemiologic, birth-cohort study that would follow a nationally representative cohort of 100,000 U.S. children from shortly after conception to 21 years of age and possibly possibly beyond. - A “children’s Framingham study”. The study was catalyzed by rising rates of chronic diseases in children. Increases in asthma, autism, birth defects, dyslexia, attention deficit–hyperactivity disorder, schizophrenia, obesity, and diabetes that were too rapid to be of genetic origin-and by growing concern over children’s exposure during vulnerable stages of early development to hundreds of new and untested chemicals [2]. The goal of the NCS, like that of the Framingham study, was to identify preventable risk factors for disease.

**CONCLUSION**

The CNS list of diseases includes at least two components, obesity and diabetes that depend on energy intake, unequivocally [24]. The choice between scheduled and requested meals may be a historical or fashion issue. In the first days of life, the two choices are equivalent and are dictated by familial and physician customs, local current fashion, convenience. A null effect hypothesis between scheduled and demanded meals has been rejected by our studies in infants [18-20]. Given the facts that,

- a. By free choice 30% of the population maintains preprandial low blood glucose like during IHMP [18-22].
- b. Demanded meals (IHMP) have been shown to be maintained up to 12 years of age [18-28].
- c. The equivalence of early instructions for novel mothers [20].
- d. The habitual, persistent nature of mean BG due to associated organic changes, and emphasizing the better health in children and adults who maintain IHMP [18-28], we suggest that a change in instructions on rearing is obvious and mandatory from the neonatal days. The CNS might take into consideration energy intake, a real issue in USA [25]. The Study might compare the prevalence of diseases development between rearing children by conditioned intake versus rearing by demand. At least, prevention of fattening/diabetes will become feasible.

**REFERENCES**


