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Current interest: Loss of Hunger Sensations as Cause of Alimentary Diabetes and Malnutrition

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Editorial

I have two Children from Vanna Pastacaldi: Iacopo, orthopedic surgeon, director of a hospital in Sommerset (UK) and Lorenzo, PhD in electronic engineering, currently in the management of ST Microelectronics (Grenoble, FR). I made humanistic studies during the first 7 years after graduation and wrote two Italian books: Human differences and a study on Renaissance. Human differences almost coincide with a relation of Cabanac (Laval University) to the SSIB meeting at Mc Master University, Hamilton 1994.

I (born 1933) directed the Gastroenterology Research Unit, a third level referral center in the department of Pediatrics of the University of Florence (Meyer hospital) from 1965 to 2000. In Tuscany I first diagnosed celiac disease by the Watson capsule. I worked at the Cornell University for a joined research with the University of Florence on energy expenditure in children. A long term strategy was designed with Giuliano Parrini, prof. of Physics (Firenze, It), Andrea Giommi, prof. of Statistics (Firenze, It), and Cutberto Garza, Boston College, Rector. Three students came from Amsterdam Medical Center to learn "Initial Hunger (IH)". The Unit published 150 scientific articles, more than 50 in international Press [1-61].

Main achievements: Hunger can be taught; and an Initial Hunger Meal Pattern can be constructed (IHMP = Three IH arousals per day). IHMP decreases energy intake, mean preprandial BG, body weight, insulin resistance and fecal energy loss. The sequence of 21 preprandial BG measurements in a week (Mean BG) is stable and comparable through months in the single individual and stratified in population.

Mean BG assesses the individual stratum (individual level) of energy consumption/balance/expenditure/Insulin Sensitivity:Resistance/overall immune stimulation/inflammation. Half immune cells of the body are in the small intestine. Meal absorption develops in a conflict between mucosa and bacteria. This individual level (Mean BG) is responsible of reflexes that produce brief reversible functional disorders as well as vascular and malignant diseases in the long term. Approximation to low levels (76.6 \pm 3.7 mg/dL) is associated to an even energy balance in blood and ideal body weight and to insulin sensitivity, the healthy goals in eating [25-61].

We studied growth, RMR and energy expenditure by dlwand meal patterns by food diaries with 3 preprandial blood glucose (BG) measurements per day (mean error 6%) in children, and added glucose tolerance tests (GTTs) in clinically healthy adults, to assess insulin sensitivity when presenting with functional disorders or overweight. By synchronous BG measurements, we taught patients to distinguish

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hunger sensations that are conditioned and associated with incomplete exhaustion of previous energy intake from those that arise after meal suspension with complete exhaustion. The mean suspension was two hours with a range not beyond 48 hours. We obtained meal-by-meal fasting nutrient levels (low BG) prior to the next meal and suppressed fattening/insulin resistance. This pattern has been termed the Initial Hunger Meal Pattern (IHMP). Ignoring these sensations contributes to increase obesity and diabetes in children. Asthma, autism, birth defects, dyslexia, attention deficit-hyperactivity disorder, schizophrenia have increased in the last half century [35-61].

References

- 1. Ciampolini M, Franchini F (1966) Modifications of lactate metabolism in the first month of life: intravenous leading tests in DL-lactate in premature newborns infants. Ann Paediat 207: 335-344.
- Ciampolini M (1974) Influence of environmental temperature on intestinal absorption xylose in rats in vivo. IRCS 2: 1545.
- Ciampolini M (1976) Influence of environmental temperature on xilose absorption in man. IRCS Med Sci 4: 208.
- Ciampolini M (1976) Influence of environmental temperature on xylose absorption test in children and adults. X International congress of Gastroenterology. Budapest, Hungary.
- Bartolozzi G, Ciampolini M, Bernini G, Boccadoro S, Caroli G, et al. (1974)
 Outbreak of Salmonella agona in Italy. Lancet 2: 1386.
- Ciampolini M, Conti A, Bernardini S, Vicarelli D, Becherucci P, et al. (1987) Internal stimuli controlled lower calorie intake: effects after eight months in toddler's diarrhoea. Ital J Gastroenterol 19: 201-204.
- Ciampolini M, Vicarelli D, Seminara S (1990) Normal energy intake range in children with chronic non-specific diarrhea. Association of relapses with the higher level. J Pediatr Gastroenter Nutr 11: 342-350.
- 8. Ciampolini M, Vicarelli D, Bini S (1991) Choices at weaning, main factor of ingestive behavior. Nutrition 7: 51-54.
- Ciampolini M, Becherucci P, Vicarelli D, Seminara S, Bini S, et al. (1991)
 Decrease in serum IgE associated with limited restriction in energy intake to treat toddler's diarrhea. Physiol Behav 49: 155-60.
- Ciampolini M, Bini S (1991) Serum lipids in celiac children. J Pediatr Gastroenterol Nutr 12: 459-460.
- 11. Castro M, Ansaldi N, Bianchi C, Castellucci G, Catassi M, et al. (1991) Malattie infiammatorie croniche intestinali: studio multicentrico italiano. Riv Ital Pediatr 17: 137-144.
- 12. Ciampolini M, Bini S, Giommi A, Vicarelli D, Giannellini V (1994) Same growth and different energy intake in chronic non-specific diarrhea children in a four-year period. Intern J Obesity 18: 17-23.
- 13. Ciampolini M, Bini S. Orsi A (1996) Microflora persistence onduodenojejunal flat or normal mucosa in time after a meal in children. Physiol Behav 60: 1551-1556.
- 14. Ciampolini M, Borselli L, Giannellini V (2000) Attention to metabolic hunger and its effects on Helicobacter pylori infection. Physiol Behav 70: 287-296.
- 15.Ciampolini M (2006) Infants do request food at the hunger glycemic level, but adults don't any more. 14th SSIB (Society for the Study of Ingestive Behavior) annual meeting, Naples, USA 46: 345.
- 16. Ciampolini M, Bianchi R (2006) Training to estimate blood glucose and to form associations with initial hunger. Nutr Metab 3:42.
- 17. Ciampolini M, Lovell-Smith D, Sifone M (2010) Sustained self-regulation of energy intake. Loss of weight in overweight subjects. Maintenance of weight in normal-weight subjects. Nutr Metab 7: 1-4.
- 18. Ciampolini M, Lovell-Smith D, Bianchi R, de Pont B, Sifone M, et al. (2010) Sustained self-regulation of energy intake. Initial hunger improves insulin sensitivity. J Nutr Metab pp: 1-7.

- 19. Ciampolini M, Sifone M (2011) Differences in maintenance of mean Blood glucose (BG) and their association with response to "Recognizing Hunger". I J Gen Med 4: 403-412.
- 20. Ciampolini M (2012) Requested meals versus scheduled meals. I J Gen Med 5: 1-9.
- 21. Ciampolini M (2012) "Recognizing Hunger" A Training to Abate Insulin Resistance, Associated Subclinical Inflammation and Cardiovascular Risks. InTech, Rijeka, Croatia.
- 22. Ciampolini M (2011) Initial hunger and exhaustion of previous energy intake- Recognizing hunger, and energy balance. Rev Recent Res Devel Nutrition Volume 8.
- 23. Ciampolini M (2013) Interruption of automatic feeding, of fattening and associated immune deficiency. Recent Res Devel Nutrition Volume 9.
- 24. Ciampolini M (2012) Eliciting Clear-Cut Initial-Hunger at Proper Time.
- 25. Ciampolini M (2011) Meal by meal dynamic balance of energy in blood. Research Signpost, Kerala, India.
- 26. Ciampolini M, Brenna JT, Giannellini V, Bini S (2013) Interruption of scheduled, automatic feeding and reduction of excess energy intake in toddlers. Intern J Gen Med 6: 39-47.
- 27. Ciampolini M (2013) Interruption of automatic feeding, of fattening and associated immune deficiency. Recent Res Devel Nutrition Volume 9.
- 28. Ciampolini M, Lovell-Smith HD, Kenealy T, Bianchi R (2013) Hunger can be taught: Hunger Recognition regulates eating and improves energy balance (Review). Intern J Gen Med 6: 465478.
- 29. Ciampolini M (2013) Meal patterns, preprandial blood glucose, metabolic rate, daily expenditure and Initial Hunger. Recent Res Devel Nutri Volume 9.
- 30. Ciampolini M (2013) Subjective mechanisms in intake and a reproducible limit-hunger arousal and intake decisions before meals. First meeting of the Insulin Club: From basic science to clinical practice, Berlin, Germany.
- 31. Ciampolini M (2014) Learning sensations of pre-meal hunger: effects on energy intake, body weight and insulin sensitivity. In: "Modifying Eating Behavior: Novel Approaches for Reducing Body Weight, Preventing Weight Regain and Reducing Chronic Disease Risk". ASN's Annual Meeting & Scientific Sessions at Experimental Biology.
- 32. Ciampolini M, Bianchi R, Sifone M (2014) "Initial Hunger" for All? A Study on Undernourished Infants. J Pediatrics Neonatal Care. Volume 1.
- 33. Ciampolini M, Lovell Smith D (2014) Self-Regulation of Food Intake and Energy Balance. A Handbook. Lambert Academic Publishing, Germany.
- 34. Ledoux T, Gallagher MR, Ciampolini M, Sampson M (2014) Biofeedback Enhanced Lifestyle. Intervention: Exploring the Experience of Participants in a Novel Intervention for Disinhibited Eating and Obesity. Open J Preventive Med 4: 779-788.
- 35. Ciampolini M (2014) New Findings on Energy Balance and Established Wisdom. Int J Nutrition Food Sci. 3: 300-306.
- 36.Ciampolini M (2015) Conditioned intake: is it safe? Nutr & Energy Balance 1: 100101.
- 37. Ciampolini M (2015) Conditioned Intake and Fattening/Diabetes. Open J Preventive Med 5: 468-478.
- 38. Ciampolini M, Borselli L (2016) Food Offer, Chronic Diarrhea and Preparedness to Alimentary Diabetes from the Second Year of Life Onwards. J Food Res Volume 5.
- 39. Ciampolini M (2016) Accountability and the Decision to Publish Submitted Advances. EC Nutrition 3: 671-673.
- 40. Ciampolini M (2016) Nutrition, the Point of View of Both Physician and Patient (We). EC Nutrition 1: S13-S19.
- 41.Ciampolini M (2015) Physiology versus Pharmacology. J Pediatrics Neonatal Care Volume 3.
- 42. Ciampolini M, Cecchi G (2016) A Plea to Mothers". EC Endocrinology Metabolic Res 1: 1-3.
- 43. Ciampolini M (2016) The Feeding Colloquium. J Pediatr Neonatal Care

- 4: 00141.
- 44. Ciampolini M (2016) Uneasy Acceptation of Novelty Impairs Any Solution For Fattening/Diabetes. EC Nutrition 3: 680-684.
- 45. Ciampolini M (2016) Fact and Value. J Pediatr Neonatal Care 4: 00149.
- 46. Ciampolini M, Cecchi G (2016) Recovery of Hunger Sensations Associated with Low Preprandial Blood Glucose: An Easy Exit from Diabetes? Open J Preventive Med 6: 149-159.
- 47. Ciampolini M (2016) Residue, Fiber, and Subjectivity. Adv Nutr 7: 420.
- 48.Ciampolini M (2016) Assessment of the Personal Meal Pattern. EC Nutrition 4: 960-961.
- 49. Ciampolini M (2016) A subjective, reproducible limit of intake in the child and the adult. Integr Food Nutr Metab: 345-346.
- 50. Ciampolini M (2016) The Feeding Colloquium: Conditioned Intake and Fattening Diabetes. Research Signpost..
- 51. Ciampolini M, Cecchi G (2017) The Ghost Aim in Medical Research A Subjective Limit in Intake to Prevent Fattening/Insulin Resistance/ Overall Inflammation. M J Pedi 1: 009.
- 52. Ciampolini M (2017) The Metabolic State. EC Nutrition 9: 179-180.

- 53. Ciampolini M, Cecchi G (2017) Severe Malnutrition, Radiation Enteritis and Insulin Resistance: A Solution by Initial Hunger and Associated Low Blood Glucose. SF J Diabet 1: 1-9.
- 54. Ciampolini M (2017) Conditioned Eating. EC Nutrition 10: 195-198.
- 55. Ciampolini M, Cecchi G (2017) Dietary restriction to prevent fattening/insulin resistance/overall inflammation. Integr Food NutrMetab.
- Ciampolini M (2017) Natural History of Diabetes. Psychol Psychology Res Int J 2: 000139.
- 57. Ciampolini M (2017) Initial Hunger Meal Pattern and 20% Reduction in Energy Intake. Open J Preventive Med 7: 195-201.
- 58. Ciampolini M (2015) Conditioned Intake and Fattening/Diabetes. Open J Preventive Medicine 5: 468-478.
- 59. Ciampolini M (2017) Positive Energy Imbalance and Microflora Overgrowth. J Pediatr Neonatal Care 7: 00282.
- 60. Ciampolini M (2017) Feeding either Conditioned or by Demand. Int J Clin Endocrinol 1: 056-058.
- Ciampolini M (2018) Main Pathogenetic Chains. J Pediatr Neonatal Care 8: 00304.

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