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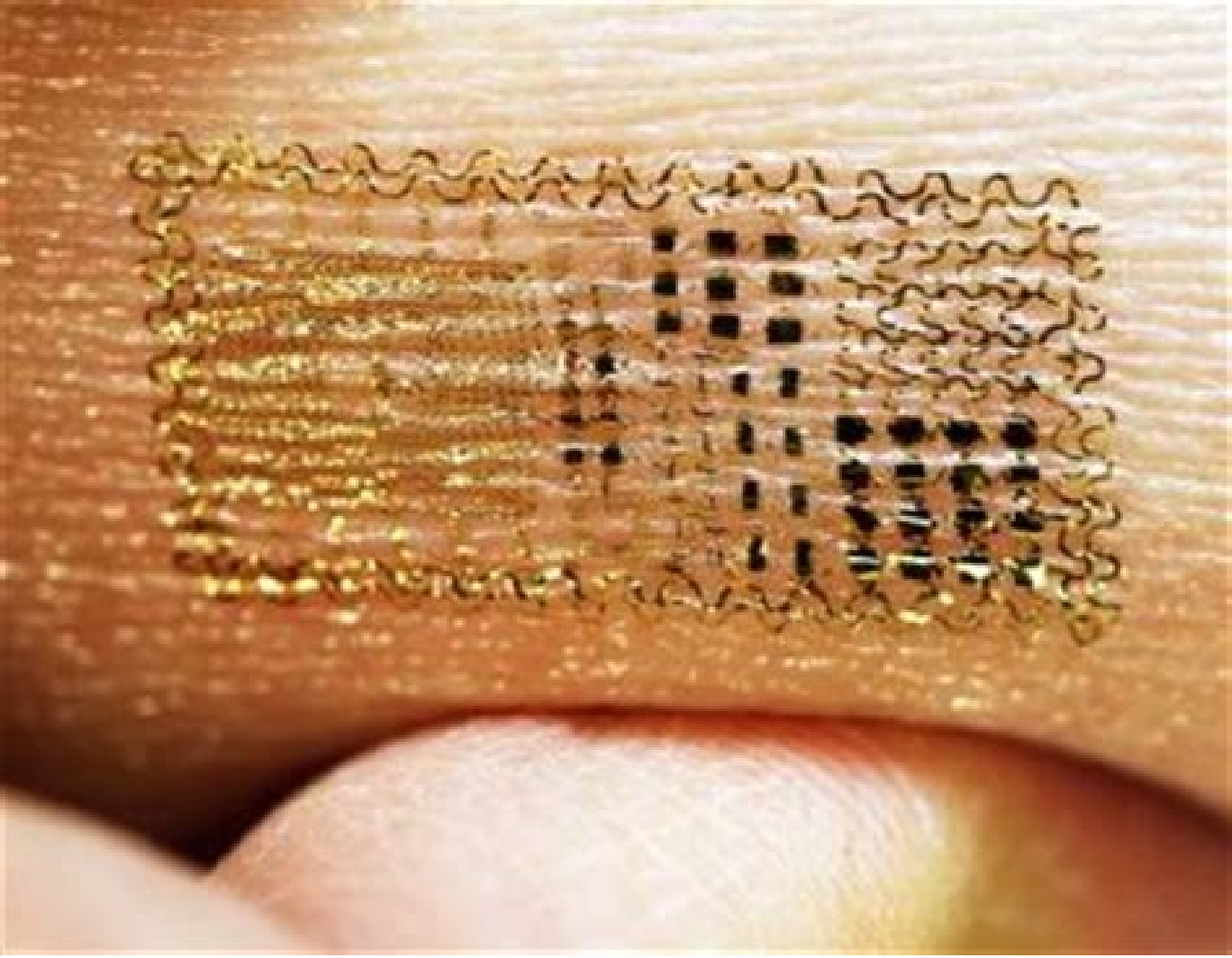
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Metabolism food label lunch lab answer key. Metabolism food label activity.

Figure 3.4 clearly demonstrates that energy supply calculated through NME relates well with the application of general Atwater factors. Because of the importance of food and the broad-reaching effects of food regulations within a country's borders, and beyond as they affect trade, it is fair to say that whatever system is in use in a given country is likely to be entrenched, and there will be a great deal of inertia and resistance to change. Some energy is utilized during the metabolic processes associated with digestion, absorption and intermediary metabolism of food and can be measured as heat production; this is referred to as dietary-induced thermogenesis (DIT), or thermic effect of food, and varies with the type of food ingested. For example, if expressed as monosaccharide equivalent, 100 g of glucose, 105 g of most disaccharides and 110 g of starch each contain 100 g of anhydrous glucose. Values for fermentable fibre are believed to vary by 27 percent, i.e. ME 11 kJ/g (2.6 kcal/g) and NME 8 kJ/g (2.0 kcal/g). This change recognized the fact that different weights for available carbohydrate are obtained depending on whether the carbohydrate is measured by difference or directly. Whereas the normal state of the adult is "zero balance" - no net retention of energy or other nutrients - the normal state of infants and children is growth, which implies the retention of large amounts of energy and other nutrients as new tissue, although the energy cost of weight gain of tissue of similar composition does not differ appreciably from that of adults (Roberts and Young, 1988). For these individuals, use of NME factors in the clinical setting may be of value. The Atwater specific factor system appears to be superior to the original Atwater general system, which took only protein, fat, total carbohydrate and alcohol into account. "Energy balance is achieved when input (or dietary energy intake) is equal to output (or energy expenditure), plus the energy cost of growth in childhood and pregnancy, or the energy cost to produce milk during lactation" (FAO, 2004). This is the accepted standard unit of energy used in human energetics and it should also be used for the expression of energy in foods. For the current case study, as well as using these conversion factors, which also served as a baseline, additional variables were created. The energy values are 17 kJ/g (4.0 kcal/g) for protein, 37 kJ/g (9.0 kcal/g) for fat and 17 kJ/g (4.0 kcal/g) for carbohydrates.[9] The Atwater general system also includes alcohol with a rounded value of 29 kJ/g (7.0 kcal/g or an unrounded value of 6.9 kcal/g) (Atwater and Benedict, 1902). Relative to the first goal, the consistent application of a uniform system to all foods is likely to be the first step in yielding the greatest benefits to the most consumers. Application of NME factors resulted in expected variable decreases in the energy content of baby foods that ranged in the examples examined from a low of 2 percent, for apple sauce, to a high of 9 percent, for chicken with gravy. Since the use of ME factors of one type or another represents the status quo, a change to NME at this time would seem to have larger implications. Infant formulas and foods for infants and young children present a special situation, and in most regulatory frameworks are handled separately from foods in general. # Fibre content included in total carbohydrates by difference. It is likely that this segment will view any change as a burden. When the energy lost to microbial fermentation and obligatory thermogenesis are subtracted from ME, the result is an expression of the energy content of food, which is referred to as net metabolizable energy (NME). In addition, some countries use energy values for novel food ingredients such as polyols and polydextrose. 75) 15 (3.6) 17 (4.0) 15 (3.6) Lactose 16 (3. It would be both inaccurate and undesirable to convey such a message. The differences of importance between ME and NME factors are found primarily in estimating the energy content of protein, fermentable, unavailable carbohydrate, and alcohol (Table 3.3). However, the following points, which were made previously, should be kept in mind when interpreting these findings. By contrast, net metabolizable energy (NME) is based on the ATP-producing capacity of foods and their components, rather than on the total heat-producing capacity of foods. § Original data were published in kcal/g; values for kJ/g have been calculated from calorie values. Second, such a change would have broad-reaching implications for a wide range of interests, most of which have been considered only briefly here and some of which may not yet have been recognized. NME-System 2 = NME specific conversion factors (proposed), including energy from fibre. One example serves to illustrate these issues. 3.5.2 The extensive general factor system A more extensive general factor system has been derived by modifying, refining and making additions to the Atwater general factor system. ME factors appear to be reasonably valid for infants and small children; furthermore, neither ME nor NME factors have been specifically investigated in infants or young children. The United States Nutrition Labeling and Education Act (NLEA, see: [www.cfsan.fda.gov/~lrd/CFR101-9.HTML](http://www.cfsan.fda.gov/~lrd/CFR101-9.HTML)) of 1990, for example, allows five different methods, which include both general and specific factors. Although all energy values in the database are derived using ME factors, it has not been possible to calculate the energy values for all foods using the same set of factors (i.e. specific or general). Most other food composition databases do not face this problem as they use only the general Atwater factors for all foods. Regulatory authorities benefit from a system that allows them to assure compliance with regulations at a reasonable cost. In fact, if the NME system were used, the energy requirements would be lowered approximately by the same percentage as food energy. Pragmatic consideration of the practical implications of standardizing on one set of energy conversion factors, including a critical evaluation of the possible change from the use of ME factors, leads to several conclusions. 2) Factors for dietary fibre vary widely and are not dependent on method. The SI is founded on seven SI base units, which are assumed to be mutually independent. (1997). In this regard, uniformity is perhaps a greater consideration than the energy conversion factor or system that is adopted. Furthermore, foods replace each other as energy sources in the diet and in intermediary metabolism on the basis of their ATP equivalence (which is reflected in NME), rather than on their ability to produce equal amounts of heat (which is reflected in ME). However, it may not be vastly superior to the more extensive general factor system, which takes into account the differentiation between available carbohydrate and dietary fibre, and recognizes sources of energy other than protein, carbohydrates and fat. For example, Codex (Codex Alimentarius, 1991) uses Atwater general factors with additional factors for alcohol and organic acids. § Concept diet 1: United Kingdom women's slimming diet (as tabulated), with further replacement of fat by protein. For the workshop, FBS data from nine countries were examined using the USDA data set for calculating energy availability. Energy values in centrally maintained databases are likely to be modifiable, some with less effort and cost than others. For example, separate factors were needed so that the division of total carbohydrate into available carbohydrate and fibre could be taken into account. \* The specific Atwater factors (Merrill and Watt, 1973) were applied and values of total carbohydrates by difference (CHO(VDF-+)) were used with protein calculated with Jones factors. (However, as NME factors are derived from ME factors, the standardization of ME factors would still seem to be a logical first step to such a change.) The ultimate recommendation would take into account the scientific differences between metabolizable and net metabolizable systems, the need to provide useful information to consumers, and the practical implications of either staying with and standardizing one of the systems currently in use or moving to the other system. In the non-fasting state, this includes the heat of microbial fermentation and obligatory thermogenesis, which are the defining differences between ME and NME. It uses a single factor for each of the energy-yielding substrates (protein, fat, carbohydrate), regardless of the food in which it is found. Smaller food companies have fewer and limited capabilities. In considering the alternatives, there was general agreement on the following principles: 1) NME represents the biological ATP-generating potential and, as such, the maximum potential of individual food components and foods to meet energy requirements that require ATP; thus, NME represents a potential improvement in the description of food energy, especially when individual foods are to be compared. Relative to the second goal, however, NME conversion factors would appear to be preferable in at least two situations: comparisons of individual foods or food products when it is desirable to know their relative potential to support gains of weight, especially gains in fat, and, related to this, counselling of individuals with specific dietary needs that relate to weight control.[15] Currently, NME factors do not seem to be well understood or to have been widely adopted for these purposes, even by health care professionals. Regulatory perspectives. Expressing these same recommendations in NME terms, energy from protein becomes 12 percent, and from fat 31 percent (see Table 3.8). 2) The 2001 human energy requirement recommendations are based on data derived from energy expenditure measurements, and hence equate conceptually to ME (FAO, 2004). Most of the energy that is absorbed is available to human metabolism, but some is lost as urinary energy (UE), mainly in the form of nitrogenous waste compounds derived from incomplete catabolism of protein. Regardless of the technique used, the energy values obtained are related to oxygen consumption or CO<sub>2</sub> production and (through indirect calorimetry calculations) heat production. This is because NME factors reduce the energy content of a food or diet, so the application of such factors to foods but not to energy requirements would imply that an increased food intake is needed to meet those requirements. Energy content must include energy from protein, fat, carbohydrate and any ingredients for which specific food factors are known. There are clearly circumstances in which it is desirable to know with greater precision which specific foods will ultimately contribute to maintaining energy balance - for example: in the management of obesity through weight-loss diets that are high in protein or fibre, which will not be completely metabolized to yield energy; in diabetes mellitus with concomitant renal disease, when protein intake may be low, and therefore makes only a small contribution to total energy intake; or when using novel foods that may or may not be fully metabolized. In the case of fat, the Atwater general factor of 37 kJ/g (9.0 kcal/g) is commonly used. ME-System 1 = Atwater specific conversion factors, not including energy from fibre. The theoretical appeal of NME for the derivation of energy conversion factors rests on the following: substrates are known to differ in the efficiency with which they are converted to ATP, and hence in their ability to fuel energy needs of the body. On the basis of the theoretical discussion of energy flow through the body (see Section 3.1 and Figure 3.1), ME values can be modified further to account for energy that is lost as heat from different substrates via heat of fermentation and obligatory thermogenesis, i.e. energy that would not be available for the production of ATP to fuel metabolism. The Atwater general factors are used when specific factors are not known for all ingredients, or when the formulation is proprietary, and thus the amounts and proportions of ingredients are not known by the database compiler. The precise values for protein, fat, total carbohydrate and alcohol are, respectively, 16.7, 37.4, 16.7 and 28.9 kJ/g. This may result in apparent differences in the nutrient composition of infant formulas, especially when compared with human milk, for which nutrient content is always expressed per 100 g or 100 ml. Source: Adapted from Warwick and Baines (2000) and Livesey (in press [a]). Some energy is also lost as the heat produced by metabolic processes associated with other forms of thermogenesis, such as the effects of cold, hormones, certain drugs, bioactive compounds and stimulants. The countries represented different regions of the world and different diets: Afghanistan, Bangladesh and the Islamic Republic of Iran are characterized by a high rice and wheat supply; in Guatemala, Guinea and Mozambique maize and tubers are important, and also sorghum in Mozambique; and Italy, Tunisia and the United States observe a mixed diet. # The general Atwater factors and 8 kJ/g fibre were applied and values of available carbohydrates by difference (CHO(VDF-+)) were used with protein calculated with Jones factors. Second, a single food usually represents the entire diet for infants in the first six months of life, and the differences between energy contents estimated by the ME and by the NME systems may be greater when single foods, rather than mixed diets, are involved. The effects of using various analytical methods with different energy conversion factors on the conclusions drawn from food consumption survey data. \* Dietary fibre assumed to be 10 g. Source: ENDEF study, 1974-1975. The technical workshop participants addressed the specific issue of whether energy of hydrous glucose (expressed as monosaccharide), and thus different amounts of energy, should be included in the calculation of energy content of the diet will affect the calculated intakes, and in turn the estimates of these numbers or the prevalence of inadequacy. Short-chain (volatile) fatty acids are also formed in the process, some of which are absorbed and available as energy. The ease or difficulty of that task will depend on how the secondary database was constructed. On the label however, nutrient composition is generally expressed per 100 g of the formula, even though manufacturers are permitted to express it per 100 kJ or 100 kcal. \*\* Tagnames - see footnote7 on page 17 for an explanation. It should be noted that in situations where NME conversion factors for food energy are used, guidance on "reduced" energy requirements based on NME factors must be provided so that requirements and intakes are expressed in the same fashion. This can be considered an obligatory energy expenditure and, theoretically, it can be related to the energy factors assigned to foods. In none of these cases is the amount of heat produced dependent on the type of food ingested alone; consequently, these energy losses have generally not been taken into consideration when assigning energy factors to foods. The primary database can be modified by changing factors in an algorithm in the system and using the new factors to recalculate the database. 3.5.1 The Atwater general factor system The Atwater general factor system was developed by W.O. Atwater and his colleagues at the United States Department of Agriculture (USDA) Agricultural Experiment Station in Storrs, Connecticut at the end of the nineteenth century (Atwater and Woods, 1896). Notes for Figure 3.4 \* The general Atwater factors were applied and values of available carbohydrates by difference (CHO(VDF-+)) were used with protein calculated with Jones factors. Briefly described, this study was a household, probabilistic sample of 53 311 families including more than 267 000 individuals. 3.8 OTHER PRACTICAL IMPLICATIONS RELATED TO THE USE OF FOOD ENERGY CONVERSION FACTORS The participants at the technical workshop discussed a number of additional topics related to the interplay between different analytical methods and food energy conversion factors. These databases are used in a number of areas, including: 1) epidemiological and clinical studies; 2) formulation of menus, diets and food products; 3) food entitlement programs; 4) nutrient labelling of food products; 5) regulation of international trade; and 6) generation of derivative, second-generation databases for special purposes. Relative to the baseline values, use of the Atwater general factors with available or total carbohydrates resulted in an apparent decrease of 1.8 percent. There are 22 derived SI units defined in terms of the seven base quantities. [15] As ME factors overestimate the ATP-producing potential of some foods, their continued use in these situations will not induce overconsumption; in fact, they will suggest an individual is eating more than he or she actually is. It integrates the results of 50 years of research and derives different factors for proteins, fats and carbohydrates, depending on the foods in which they are found. For more of the derivations of and differences between ME and NME see the detailed discussions of Warwick and Baines (2000) and Livesey (2001). It was important for at least two reasons to ask how the application of NME factors would affect the declared energy contents and relative amounts of other nutrients (i.e. per 100 kJ or 100 kcal) of currently available formulas: first, most health care professionals and consumers who use infant formula have a concept of the energy content (per 100 ml or per ounce); and second, regulatory frameworks (e.g. Codex Alimentarius, 1994) for infant formula specify the content of minimum and maximum nutrient levels expressed in kilojoules or kilocalories. In these surveys, estimates of food intake, either by recall or weighing, are converted to the corresponding energy (and other nutrient values) to determine adequacy of intakes. TABLE 3.5 Differences in energy content of selected diets calculated using either modified ME or NME factors Difference using modified ME factors (%) Additional difference using NME factors (%) Total difference (%) Source of dietary composition Conventional/ representative diets Required protein + energy, children 4-6 years old# 1.0 1.1 2.1 WHO, 1985 Required protein + energy, women 50+ years old# 2.0 2.4 4.4 WHO, 1985 Tanzania, rural lala women 65+ years old 1.3 2.6 3.9 Mazengo et al., 1997 South Africa, rural Vendor people 2.6 4.1 6.7 Walker, 1996 Mexico, rural people 5.9 4.3 10.5 Rosado et al., 1992 United Kingdom, urban people 2.8 4.5 7.4 Gregory et al., 1990 Guatemala, rural people 8.7 4.7 13.8 Calloway and Kretsch, 1978 Inuit, traditional 1.1 11.4 12.7 Krogh and Krogh, 1913 Australia, Aborigine 4.6 13.3 18.5 Brand-Miller and Holt, 1998 Therapeutic diets - diabetes, weight loss Early diet - type II diabetes mellitus 11.4 6.5 18.6 Jenkins et al., 2001 Higher % protein replacing fat 2.9 7.9 11.0 Summerbell et al., 1998 High % protein (90 g), fibre 5.4 12.5 18.5 Willi et al., 1998 United Kingdom, women slimming\$ 2.9 5.4 8.4 Gregory et al., 1990 Notes to Table 3.5: Baseline values were obtained using Atwater general factors of 16.7 kJ/g protein, 37.4 kJ/g fat and 16.7 kJ/g carbohydrate. All kJ values are rounded. Application of general factors to the mixed diet common in the United States resulted in values that were on average about 5 percent higher than those obtained with specific factors. Conceptually, food energy conversion factors should reflect the amount of energy in food components (protein, fat, carbohydrate, alcohol, novel compounds, polyols and organic acids) that can ultimately be utilized by the human organism, thereby representing the input factor in the energy balance equation. These are not legally binding, and regulations must be developed and adopted at the national level in order to become binding. The following approach is used by USDA (Harnly et al., in press): For food commodities, specific Atwater factors are preferred. Protein 13 kJ/g (3.2 kcal/g), fat 37 kJ/g (9 kcal/g) and lactose/glucose 16 kJ/g (3.8 kcal/g). Issues related to







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