EDITORIAL

CONTRIBUTIONS IN THE FIELD OF PUBLIC HEALTH FOR DECISION-MAKING IN HEALTH

Contribution in the field of public health for decision-making in health

J Hum Growth Dev. 2017; 27(2): 128-131

DOI: http://dx.doi.org/10.7322/jhgd.137515

CONTRIBUTIONS IN THE FIELD OF PUBLIC HEALTH

FOR DECISION-MAKING IN HEALTH

Doutorado no Instituto Fernandes Figueira |Fiocruz |RJ; Professor no curso de Pós-Graduação em Terapia Intensiva Neonatal (ESTIN) pela IPMED.

Abstract

Brazil has made a wide development and contribution in the field of Public Health. These contributions have maximized public health decision-making, which is a factor of great importance for the maintenance of health of a given population, either in the prevention of disease, as is the case of immunizations or with actions in Health Promotion, improving the quality of life of the affected population. Thus, the Journal of Human Growth and Development has contributed enormously to the dissemination of knowledge, not only in Brazil but also in the world making a major effort with its publications in English which is the preferred language of the modern scientific world. It was evidenced the importance of research in the investigation of better ways to obtain the public health of a given community, bringing discussion of themes that involve aspects of human growth and development such as nutritional aspects, sexuality, motor development, covering situations and diseases as obesity, cerebral palsy, dyslexia and violence. The Journal of Human Growth and Development has maintained the tradition of approaching the different aspects that involve clinical practice for people and for Public Health.

Keywords: knowledge, health, decision

Corresponding author:
latneves1@gmail.com

Manuscript received: 02 August 2017
Manuscript accepted: 25 August 2017
Version of record online: 06 September 2017


Contributions in the field of public health for decision-making in health

J Hum Growth Dev. 2017; 27(2): 128-131

DOI: http://dx.doi.org/10.7322/jhgd.137515
Brazil has made a wide development and contribution in the field of Public Health. These contributions have maximized decision-making in public health, which is a very important factor for the maintenance of health of a population in the prevention of disease, as is the case of immunizations or actions in Health Promotion, improving the quality of life of the affected population.

The Journal of Human Growth and Development has contributed enormously to the dissemination of knowledge, not only in Brazil, but also in the world, making a major effort with its publications in English, which is the preferred language of the modern scientific world. Several articles are included in the next issue that involve Public Health news with important themes; the central themes in human growth and development are highly valued, and since the establishment in 1990 has been the focus of the Journal of Human Growth and Development.

The authors address one of the most important issues in Public Health in modern times, the obesity. Obesity is the most prevalent nutritional disease in public health in children and adolescents in the United States, with approximately 21-24% of children being overweight and another 16-18% being obese, and the prevalence is higher among specific ethnic groups.

In one of the three studies to be published it is observed that the prevalence found in the capital of the Brazilian Western Amazon is similar to the American study. In the study carried out in Porto Velho, Amazon, Brazil, it was concluded that overweight presented high prevalence in A and B economic classes and in private schools. International data reported varied rates of obesity, however at least 10% of the children were overweight. Notably, however, the highest rates of obesity were found in Malta (22.4%) and in the United States (25.4%), which are highly industrialized countries.

A recent study that addressed young Europeans suggests that Swedish children have the lowest risk of becoming obese in Europe. These studies are of great importance at the national level, since obesity in Brazil is already of great importance in the Public Health of Children and Adolescents and presents severe complications, that mainly include type 2 diabetes, hypertension, hyperlipidemia, bone maturation and accelerated growth, ovarian hyperandrogenism, cholecystitis, pancreatitis and pseudo-brain tumor. Long-term complications are due to a major association with childhood obesity and every effort should be made to treat it at this time of life, due to the chance of becoming an obese adult.

The authors of this study point out in their conclusions that the practice of physical activity, associated with diet, should be stimulated, in addition to the reduction of sedentary behaviour. Oude et al. concluded that although no program can be conclusively recommended, interventions in behaviour and lifestyle produce a significant reduction in body weight. Physicians and parents should encourage children to engage in vigorous physical activity throughout adolescence and adulthood, limiting the young individual to watch television and computer games for a fixed time, since even regular walks of 20-30 minutes can facilitate control of the weight.

In the same context, the study addresses the simultaneous presence of obesity and insufficient sleep hours in adolescents. This cross-sectional study focuses on one of the frequent complications of obesity and is considered an important risk factor for obesity with its full spectrum of complications.

A well-balanced diet well quoted in the conclusions of the study on the lifestyle of children and adolescents is fundamental. They may be the most important factors, along with physical activity, both in preventing and controlling obesity, The World Health Organization has developed the following guidelines on food intake and sugar control:

For both adults and children, the World Health Organization recommends a reduction in sugar intake to less than 10% of the total amount of calories in 24 hours. It is important to note that this reduction should be lifelong. The reduction of free sugar, which is those sugars added to beverages, artificial fruit juices and sweets etc., is vital in the prevention of obesity in children and adolescents.

Prematurity, especially for new-borns with extremely low birth weight, has been associated with obesity when they reach the stage of childhood and adolescence, its fearsome complication as the metabolic syndrome. A high body mass index in the pregnant woman puts her at risk for perinatal outcomes and among them, they present a greater chance of immediate complications, such as caesarean section and large bleeding and maternal intercurrences, like gestational diabetes and hypertensive syndrome, as well as perinatal asphyxia.

Recent information suggest that low birth weight is an important variable for the occurrence of obesity and components related to the metabolic syndrome, and that these changes can be detected early in childhood and adolescence. Some factors related to the fetus and the mother are mentioned in the literature as triggers of prematurity and subsequent low birth weight. Individuals with low gestational age have a high risk of rapid postnatal weight gain, late obesity, and some metabolic syndrome processes such as type 2 diabetes, dyslipidaemia, hypertension and cardiovascular disease. Knowing the panorama of these conditions could contribute to an early attention to the health of the child with a history of low birth weight with risks to the programming for these diseases in the long term.

Over the last years, the association between the improvement on human neuropsychomotor development with breastfeeding, especially in premature born. This study, that focus on the development of infants in the north-eastern Brazilian region, is about the extraordinary importance of exclusive infant feeding up to 6 months of life. Despite its complexity, it is very clear that the mother’s own milk is better even for those of extremely low birth weight, both short-term protection against sepsis, necrotizing and long-term enterocolitis for cognitive outcomes.

In addition, fortification of human expressed milk seems to be safe to compensate for the intake of deficient energy or insufficient nutrients. Recently, the main advances are in relation to the best time and how much to feed and the importance of feeding very early with...
maternal colostrum46. Now it is known that it is possible to feed even at very early births thanks to the education of the nurses, maternal support and supervised expression. The majority of nutritional studies in infants weighing less than 1.000g reinforce the concept that initiating early enteral feeding reduces parenteral feeding time, decreases length of hospital stay and allows better weight gain during discharge. It is vital, therefore, that maternal nutrition is unique and continues until the sixth month of life.

The current study of predictive models of adequate motor development in preterm infants draws attention to the responsibility of those working with neurodevelopment. Early adequate motor development has always been the ultimate goal of parents and the team of specialists working with child development, such as physiotherapists, nurses, neonatologists, psychologists, and related professionals. The care with proper motor development begins with serious antenatal care based on international standards. The use of drugs such as corticosteroids, magnesium sulfate and aggressive tocolise moments before delivery is vital to protect from diseases that may cause brain damage and prevent adequate neurodevelopment47,14. Follow-up is always necessary to detect early neuropsychomotor changes and correct them if possible.

Two studies address the issue of Cerebral Palsy, which is the main sequel for infants born at birth weighing less than 1,500 g and for those suffering Hypoxic-Ischemic encephalopathy at birth. Cerebral Palsy is the leading cause of school-age disability, affecting both function and development. The incidence of this condition has not changed much in the last four decades, despite the great scientific technical advance of neonatal care. Brain lesions of cerebral palsy occur from the fetal or neonatal period and may extend for more than three years19,20. It is important to note that 30-50% of patients with cerebral palsy present mental retardation. However, due to gross, fine and motor difficulties, communication in these infants may be impaired and the expression of intellectual capacity will be limited. So if Cerebral Palsy is treated in a multidisciplinary way with nutritional, occupational, and physical therapy to maximize rehabilitation efforts, patients can be more academically and socially integrated21,22.

The family participation, very well characterized in the studies to be published, is of fundamental importance, as well as the provision of resources. Since several patients have severe difficulty locomotion, the wheelchair may be useful. Orthoses are often required to maintain the position of the functional joint at the lower and upper extremities especially in hemiplegic patients. The treatment associated with cerebral palsy aims to improve the interaction between the caregiver and the infant, providing family support, providing resources, and promoting parental education as well as promoting motor training and skills development23,24.

Finally, an important study showing the characteristics of sexual abuse in Santo André, São Paulo, Brazil, describes the social demographic characteristics of the victims, as well as of the aggressors, making an important contribution in relation to sexual violence in our environment. Children suspected of having suffered sexual aggression need a general medical, behavioral, social and gynecological history. A family and social history is vital to the knowledge of the environment in which the abuse occurred. Generally girls experience more sexual violence in a ratio of 1 to 4 while boys experience sexual violence around 1 to 625.

After sexual violence, the child is extremely vulnerable and may experience changes in eating, suicidal behavior, self-injury and psychosis. They may also become at increased risk for reabsorption. Very often the attacker may be very close to the environment in which the child lives. In the United States, about 83,550 children were sexually abused in 2005, showing that this is a serious public health problem26,27.

The importance of research that can investigate better ways to promote the public health to the community and also transfer of knowledge is fundamental . The Journal of Human Growth and Development maintains the tradition of approaching the different aspects that involve clinical practice for people and Public Health.
Contributions in the field of public health for decision-making in health


