FACTS
Salt
Reducing Sodium in the Diets of American Children

OVERVIEW
Currently, children are consuming salt in amounts that far exceed the recommended daily limits for sodium – and with potentially deadly consequences. High blood pressure was once considered to be an illness that affected mainly middle-aged or older individuals. However, now there is an increasing prevalence of high blood pressure in American children that is linked to increasing obesity rates, high sodium intake levels, and high calorie diets which often begin in infancy and childhood. High blood pressure is one of the most common risk factors for cardiovascular disease, which is the leading cause of death and disability worldwide. High blood pressure also increases the risk for stroke, osteoporosis, stomach cancer, and kidney disease.

An estimated nine in ten Americans will develop high blood pressure during their lifetimes. The American Heart Association (AHA) advocates for a stepwise reduction in sodium consumption in the U.S. diet for children and adults to less than 1,500 mg/day by 2020. This, combined with a nutritious diet that is high in fruits, vegetables, fiber-rich whole grains; includes low-fat or fat free dairy; and contains fish twice per week can help to curb this growing epidemic.

THE CURRENT STATE OF AFFAIRS
Children currently consume most of their salt from processed foods like pizza, french fries, breads, chicken dishes, tacos, hot dogs and foods eaten away from home. School lunches are also contributing to children’s salty diets, providing an alarming average of 1,442 mg of salt in one meal.

- Children ages 6-11 years old consume an average of more than 3,000 mg/day of sodium. Boys between the ages of 12 and 19 are particularly at high risk with an average daily sodium intake of over 4,000 mg/day.
- The proportion of children and adolescents with pre-hypertension rose from 7.7 % to 10 % between 1988 and 2002, while the rate of hypertension increased from 2.7 % to 3.7 %.

- Analysis of data from the Search for Diabetes in Youth Study, found the prevalence of elevated blood pressure among those with type 1 diabetes at 5.9% and the prevalence of elevated blood pressure among those with type 2 diabetes at 23.7%.
- Non-Hispanic black children and Mexican Americans generally have a greater prevalence of high blood pressure and pre-hypertension than non-Hispanic white children, and the prevalence is greater in boys than in girls.
- Children’s salt preference is influenced by their food choices and food marketing. Their liking for salt may be reduced if they are exposed to lower sodium diets at a young age.
- The positive effect of sodium reduction on blood pressure in children is so pronounced that it can be seen as early as infancy.
- In one study, children consuming more fruits, vegetables, and low-fat dairy had an average systolic blood pressure that was 7 mm Hg lower than their counterparts who ate less healthy foods.

Unlike adults, there is no single reading that constitutes the threshold for high blood pressure and pre-hypertension for children. Normal blood pressure varies depending on age, sex, and height.

THE POPULATION AT RISK
Up to 74% of hypertensive children are not diagnosed with the condition because physicians have to assess age, sex and height in addition to the blood pressure measurement and they do not take time to do the calculations. Several studies have shown that children with high blood pressure show signs of enlargement of the left ventricle in the heart, blockage in the arteries, and diastolic dysfunction, all warning signs for heart disease. Additionally, hypertension in childhood is correlated with high blood pressure in adulthood.
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**ECONOMIC AND HEALTH BENEFITS**
Reduction of sodium intake in children not only benefits the current generation of children, it also acts as a preventive measure against future cardiovascular disease in adulthood. The annual cost of cardiovascular disease is in excess of $444 billion, with hypertension alone costing a total of $93.5 billion. A 9.5% drop in sodium intake would likely result in one million fewer cardiac events a year and a savings of over $32 billion. Reducing hypertension in children today would result in longer, healthier lives and may lower hospitalization costs in the future.

**THE AHA ADVOCATES**
The opportunity to address lower sodium levels for children can be found in a broad range of initiatives. The AHA will:
- Advocate for implementation of the new evidence-based USDA school meal standards.
- Continue to support robust nutrition standards for competitive foods and beverages in schools that are based on a target of less than 1500 mg sodium per day by 2020.
- Advocate that the Interagency Working Group proposed nutrition principles for foods marketed and advertised to children be submitted to Congress.
- Support procurement standards for foods purchased by government agencies and employers that include criteria for strict sodium limits.
- Advocate for increasing availability of fruits and vegetables in schools through commodities, food purchasing, school gardens, and the Fresh Fruit and Vegetable Program.
- Support improving access to and affordability of fruits and vegetables in the community by providing various incentives. Examples include: incentives for small and mid-size farms to produce specialty crops that can be distributed locally and regionally; the Farmers’ Market Promotion Program (FMPP), which fosters community-led approaches to improve consumer access to healthy and fresh foods in low income neighborhoods; and incentives in the Supplemental Nutrition Assistance Program (SNAP) which promote the purchase of healthy foods, especially fruits, vegetables, and high-fiber, whole grains.
- Advocate for other privately- or publicly-funded initiatives that support the purchase of healthy foods such as Double Up Food Bucks and Wholesome Wave.

**References**