

Dental System in Children from Mothers with Gestational Arterial Hypertension

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Article Information

Received: Oct 29, 2023

Accepted: Nov 30, 2023

Published: Dec 31, 2023

Keywords: *hypertensive disorders, methyldopa, therapeutic work, chronic arterial hypertension.*

ABSTRACT

In 2018, new European recommendations on cardiovascular diseases during pregnancy and European recommendations on arterial hypertension were published, which have special sections on hypertension in pregnant women.

INTRODUCTION. The recommendations draw attention to the fact that hypertensive disorders during pregnancy are the most common medical complications affecting 5-10% of pregnancies worldwide, and remain the main cause of maternal, fetal and neonatal morbidity and mortality. The fetus is at high risk of intrauterine growth retardation (25% of cases in preeclampsia (PE), prematurity (27% of cases in PE), and intrauterine death (4% of cases in PE). Women with a high or moderate risk of developing PE are recommended to take 100-150 mg of acetylsalicylic acid daily between 12 and 36-37 weeks of pregnancy (recommendation class 1, evidence level A). In addition, to prevent PE in women with low calcium intake (<600 mg/day), it is recommended to introduce calcium into the diet (1.5-2 g/day, orally), which should begin after the first visit to the women's consultation. The recommendations specifically draw attention to the fact that vitamins C and E do not reduce the risk of PE.

MAIN PART. According to who (2003), hypertensive syndrome occurs in 4 — 10% of pregnant women, and accounts for 20-30% of the structure of maternal mortality. Serious complications of hypertension during pregnancy are gestosis of the second half of pregnancy, preeclampsia and eclampsia. In light of the increased risk of these complications in women with chronic periodontitis, and data on complications of arterial hypertension during pregnancy, we decided to study the issue of dental monitoring of pregnant women with gestational and chronic arterial hypertension. In 1982, J. cockbum And co-authors provided data on a study examining the effect of antihypertensive therapy with methyldopa during pregnancy on the growth and development of children born. This study deserves special attention due to the very long follow-up period of 7.5 years. There are no other similar studies on hypertension in pregnant women. The authors examined 195 (97.5 %) children of women with hypertension during pregnancy at birth and 7.5 years later. Women who received methyldopa made up the main group, and those who did not receive it — the control group. It was found that the frequency of problems with health, physical or mental development, vision, hearing

and behavior was the same in children of women from the main and control groups. Meanwhile, to date, we have not found any studies of the state of the dental system in children aged 7-8 years from mothers with hypertension who received calcium antagonists in the literature. Beta-blockers are less effective than calcium antagonists and can cause fetal bradycardia, growth retardation, and hypoglycemia; therefore, the drug and its dosage should be carefully selected. For severe hypertension, medication with methyldopa or nifedipine(oral) or labetalol (intravenous) is recommended. recommendation class 1, level of evidence.

PURPOSE OF RESEARCH. study of the features of the dental system in children from mothers with gestational hypertension against the background of the use of calcium channel antagonists and development of pathogenetically justified recommendations for their prevention and treatment. **OBJECT OF RESEARCH** Pregnant women with arterial hypertension will be studied on the basis of a retrospective study of stationary chart data for the last year.

METHOD OF RESEARCH. During scientific research, a set of methods will be used depending on the tasks: collection and study of complaints, collection and analysis of anamnesis, oral examination, palpation of periodontal and SOPR, palpation of lymph nodes and salivary glands, use of samples for periodontal examination (CPITN and PMA indices), oral hygiene (OHI-S and Fedorova-Volodkina indices), x-ray and laboratory studies. At the end of the work, it is planned to develop and approve protocols for diagnostics, differential diagnostics, prevention and treatment of children aged 6 - 8 years with pathology of the maxillary system. The effectiveness of protocols as quality criteria will be established. The use of protocols in practice will help to improve the quality and effectiveness of diagnostic and therapeutic work, reduce complications, significantly improve the function of organs and the hygienic condition of the oral cavity.

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