

- an under-use of short-acting inhaled Beta2-agonists,

- a first intention use of combination of inhaled long-acting Beta2-agonist and inhaled corticosteroids.

Practical implications: It seems important during Continual Medical Education sessions on child asthma to insist on the distinction to be made between emergency treatment and long-standing medications

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EFFECTS OF CASEIN AND ADAPTED-MILK FORMULA ON THE PROLIFERATION OF LYMPHOCYTES, MID-CELLS AND GRANULOCYTES AND ON CIRCULATING LIPIDS

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Background: The casein is the main protein that appears to be involved in childhood diseases caused by the consumption of adapted infant-milk formula (IMF).

Objective: To measure the effect of casein of one of the most adapted IMF marketed in Algeria, on the proliferation of lymphocytes, granulocytes and cells MID and on the change in lipid profile.

Materials and methods: Three groups of male rabbits of local breed were used in this study. The first group (n=5, age [±standard error]; 2.900±0.218 months, weight; 936±46.6 g) received different concentrations of casein, three-times daily for 3 days. The second one (n=5) received whole milk by gavage at 5 mL, three-times daily for 3 days (age; 2.7±0.289 months, weight; 932±38.26 g). The third group (n=8) was considered as controls (age; 2.625±0.286 months, weight; 892.5±60.70 g).

Results: Serum levels of TG and VLDLc were significantly lower in rabbits receiving whole milk compared to controls ($p=0.001$ for both comparisons); however, those of LDL were significantly increased in rabbits receiving the casein solution ($p=0.046$). Additionally, oral administration of casein or milk caused a significant increase in rates and

proportions of leucocytes, granulocytes, cells MID, and a significant decrease in the proportion of lymphocytes.

Conclusions: Casein or IMF consumption can induce increased activity of phagocytes, eosinophils and basophils and inhibition of lymphocytes proliferation. Additionally, whole milk could be beneficial in the prevention of overweight and childhood obesity, while milk casein can cause an atherogenic risk at high concentrations.

Keywords: Casein, immune cells, lipids, adapted infant-milk formula

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FACTORS INVOLVED IN THE POSTPONING OF ASTHMA DIAGNOSIS IN CHILDREN

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Objective: To identify factors with impact on postponing the diagnosis of asthma in children.

Method: Cross-sectional analysis of paediatric asthma cases from a Regional Centre for Asthma. Age of onset for symptoms and age of diagnosis of asthma in children, and potential risk factors of delay of diagnosis were analysed using multivariable linear statistics. Primary end-point was the ratio: age of the children at the time of the asthma diagnosis (years) vs. duration of asthma-like symptoms at the time of the diagnosis (years).

Results: The data base included 45 cases, (i.e. 26 boys, age 6,3±/-3,2 yrs.). Independent risk factors for the delayed asthma diagnosis were: the absence of asthma history in parents and/or siblings (OR: 24,8 and 95%CI: 6,2 to 95,3), the absence of atopy (OR: 18,2 and 95%CI: 5,3 to 62,1), the absence of allergic rhinitis symptoms (OR: 14,5 and 95%CI: 4,8 to 42,7). Family income, level of the education for the parents/caregivers, and living in rural areas did not significantly postponed the diagnosis.

Conclusion: Collected data support the recommendation of increased practitioner awareness towards asthma detection in the presence of certain risk factors in children with asthma-like symptoms