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Title: The feature of BCG complications in children

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Body: Background: The problem of adverse events following BCG immunization remains actual and hasn't been definitively resolved. Aim: To study frequency, clinical picture, diagnosis, treatment and prevention of BCG complications in children. Materials and methods: There were supervised 611 children with BCG complications during 10 years in Moldova. Results: The increase of BCG complications, both at vaccination and revaccination, occurred due to changing the vaccine preparation (from 2.1 to 78.1 cases per 100 000 children). According to the classification of BCG complications by WHO's European Bureau, the most frequently diagnosed complications referred to the first category: regional lymphadenitis (63.5%), cool abscesses (18.9%) and ulcers (12.8%). In the 2nd category of complications there were included ostitis (3.1%) and uveitis (0.7%). Generalized processes of the 3rd category didn't occur. From the 4th category, cutaneous rashes (0.2%) and cheloid scars (0.8%) were observed. BCG osteitis in children diagnosing was based on: bones destruction, local few pronounced changes, sufficient general state and biopsy hotbed data. Children with ulcer had allergic reactions manifested due to the high specific cellular sensitivity to tuberculin, having got the least quantity of antibodies. The patients with abscess, with predominant toxic reactions because of the lowest sensitivity to tuberculin, had the biggest quantity of tuberculosis antibodies. The most well-balanced report of specific cellular and humoral sensitivity was observed in patients with regional lymphadenitis. Conclusion: The causes of BCG complications development consisted of technical errors, vaccine's biological properties, and the complicated evolution of the vaccinal process.