



ВТОР СИМПОЗИУМ НА МАКЕДОНСКО ФАРМАЦЕВТСКО ДРУШТВО
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**Клиничко-фармацевтски услуги за специфични популации:
Унапредување на педијатриската, геријатриската
и диетотерапевтската грижа**

**Clinical-Pharmacy Services for Specific Populations:
Advancing Pediatric, Geriatric and Dietotherapy Care**

КНИГА НА АПСТРАКТИ

ABSTRACT BOOK



Хотел Дрим - Струга, Р.С. Македонија
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Benefits of involving the clinical pharmacist in the management of biologic therapy in the pediatric population

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The use of biologic medicines in pediatrics is steadily increasing, and these medicines play a role in the management of numerous diseases, including allergic and inflammatory conditions, immune-related disorders, chronic metabolic diseases, and others. Within the multidisciplinary teams involved in decision-making regarding the administration of biologics, the role of the clinical pharmacist may be of crucial importance, given the professional orientation of this pharmaceutical profile.

The aim of this paper is to review the published original and review scientific articles in English, that address the role of the clinical pharmacist in the use of biologic medicines in the pediatric population. A literature search was conducted in the PubMed and Scopus databases using the following keywords: clinical and pharmacist and role and biologics and pediatric, covering the period 2015–2025. The search retrieved a total of 23 results from PubMed, of which 3 were relevant to the research topic, and 71 results from Scopus, of which only one study was selected. The selection was based on article title, abstract, and full-text content.

Among the selected articles, three examined the pharmacist's role in immunization. These studies demonstrated significant improvement in vaccination coverage, monitoring of adverse events, and reduction of vaccination-related errors in institutions that integrated a clinical pharmacist into this process. Significant improvement was also observed in adherence to prescribed therapy, although without specifying the exact type of therapy. This was reported in two studies: one showed a 90% increase in adherence as a result of pharmacist intervention, while another, conducted in a specialist outpatient practice, reported an improvement from 73.6% to 85.6%.

Despite the limited number of studies directly addressing the role of the clinical pharmacist in managing biologic therapy in pediatric populations, it is evident that this role may be of exceptional importance, particularly in patient/caregiver education, support for treatment adherence, therapy review and identification of potential interactions, as well as other activities related to this specialized pharmaceutical service. Therefore, more intensive promotion and utilization of the full potential offered by this profession are essential.

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