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Development of Extemporaneous Pediatric Syrup of Prednisone

Authors : Amel Chenafa, Sihem Boulenouar, Linda Aoued, Imane Sediri, Ismahan Djebbar, Mohamed Adil Selka

Abstract : Introduction: The specialties intended for adults are often inadequate marketed for pediatric use, such as for a galenic form or in the dosage. For an industrial, development of a pediatric drug is confronted to various problems. So, the hospital pharmacies have to respond to adaptation needs of pharmaceutical forms for pediatric use. The objective of our work is to develop an oral form of prednisone for pediatric use since no adapted form to children is commercialized. Materials and Methods: Therefore an extemporaneous syrup of prednisone was prepared at the concentration of 0,5mg/ml from 5mg tablets and stored in amber glass bottles. Organoleptic and microbiological stability was studied in two temperatures: 5°C and 25°C, and evaluated at D0, D15, and D30. Results: No organoleptic changes have been detected on the syrup conserved at 25 and 5°C. The results show that there is no presence of bacteria, yeasts, and molds in the syrups stored at both temperatures during the analysis period. Conclusion: Sheltered from light, the developed syrup of prednisone remained stable at room temperature and/or refrigerator for 30 days.

Keywords : extemporaneous syrup, pediatric drug, prednisone, stability
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