

NEW FORMULATION POWDER FOR INHALATION THAT CONTAINS FLUTICASONE PROPIONAT

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Abstract

Two novel formulations of fluticasone propionate (FP) inhalation powders 125 and 250 mcg, delivered via new generation inhaler cyclohaler, were tested. Using Andersen impactor, it was established that fine particles fraction (FPF) with the size of the particles less than 5 mcm accounted for 42–45 %. Comparing this data with the specifications for etalon medication Discus 250 and 500 mcg formulation, in which FPF is 23 % it appears that administration of two-fold lower dose of cyclohaler FP formulation is sufficient to achieve equivalent tissue concentration of FP.

Key words: fluticasone propioniat, dry powder inhaler, small particles, impactor

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