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Individualized topical formulations – an important and essential therapeutical tool

Stefan Salzmann, Petra Staubach

Department of Dermatology, University Medical Center Mainz

Background: There are still unresolved therapeutical issues on the pharmaceutical product market, which can partially be resolved by using standard prescriptions for formulations. Due to the new pharmacy practice order in 2012, magistral formula should be given the advantage over individual formulations due to the latter not being able to overcome the plausibility check of pharmacists. This causes communication problems between pharmacists and physicians. We evaluated the prescription behaviors of physicians in the topic “topical formulations” since 2011 – to evaluate the need for individualized prescriptions.

Methods: The analyzed data was compiled by the German Institute for Drug Use Evaluation (GIDE/DAPI). It contains information on the number of individualized prescriptions and the finished medicinal product. Data comparisons were made using different categories: region (Germany and the two individual districts Rheinland-Pfalz and Saarland), quarters (2011-2014), specialists (dermatologists, pediatricians, general practitioners), prescription profiles etc. The analyses were carried out with the SPSS-Software of IBM.

Results: Data includes information from 4th quarter of 2011 through the 3rd quarter of 2014. The data contains 1.912.964.745 prescriptions, including a volume of 92.634.644.947 €. 1.3% (25.619.489) are individualized formulations worth 509.529.621 €. The average cost of an individual prescription is 20€ to 21€ per package; for formulations prescribed in a consultations setting, the cost of one pack is between 11 and 12€. The cost of individualized compared to all prescribed drugs is 0,55%. 50% of dermatologists' prescriptions are finished medical products for topical treatment; among all prescriptions of topical treatments, 30% are prescribed by dermatologists. On average, a practicing dermatologist prescribed 245 individual formulations during the 3rd quarter of 2012.

Conclusions: Considering our findings, individualized formulations are necessary and helpful tools in treating patients with dermatological diseases. Further research should show which ingredients are used in those formulations and for which individual formulations there is an unmet need.

