



PHARMACEUTICAL CARE NETWORK EUROPE

Working Conference 2013 – Abstract

Collaborative pharmaceutical care in research and practice

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The above mentioned participant in the PCNE WC 2013 wishes to submit following abstract for a poster or oral communication. If accepted and presented, the abstract will be published in the International Journal of Clinical Pharmacy. Please make sure the abstract is no longer than 350 words, excl. author-details.

Title Pharmaceutical and pharmaco-economical assessment of the influence of diabetes on children
Author(s) Stanislava Yordanova, Valentina Petkova, Elina Petkova, Guenka Petrova
Type of abstract <input checked="" type="checkbox"/> Research <input type="checkbox"/> Practice development <input type="checkbox"/> Practice implementation
Aim of project/study Assessment of the parents' knowledge about their children disease and pharmaco-economical assessment of continuous subcutaneous insulin infusion usage for children with type 1 diabetes in Bulgaria, compared to the changes in the body mass index and the glycated hemoglobin.
Method <ul style="list-style-type: none"> - questionnaires for the parents. - A combined retrospective and prospective analysis of children patients' records after the introduction of CSII - Cost – effectiveness analysis
Result(s) The results from the questionnaire show that blood control is very difficult to be maintained for a 24 hours period. Only 3 families declare full control. Two from the children are with CSII. All the families declare that their quality of life has changed after the diagnosis. The University

pediatric clinic is introducing CSII on the request of the parents and only 30 children apply such. 17 children with diabetes type 1 during the period 1999 – 2011 were observed (mean age 113,82 months in the active group and 112,41 in the control group. The CSII price with blood glucose monitoring system is 7850 BGN (4025,64 Euro) thus reaching 1962,50 BGN (1006,41 Euro) per patient per year. Subcutaneous insulin infusion (CSII) systems are of a limited usage because they are not reimbursed by the health insurance fund in Bulgaria. Our study shows that the usage of CSII children population is an efficient therapy and it confirms the literary data about improvement in terms of better metabolic control, reduced rates of complications and better quality of life . The study also shows that the children using CSII manage to maintain stable and target HbA1c level that is the precondition for better diabetes management (UKPDS). Improvements in glycemic control associated with CSII led to reduced HbA(1c) that can guarantee good diabetes management, but its control over BMI in growing children is still unclear. The CSII pumps appears to be cost-effective for the Bulgarian pediatric population and health care system.

+++ NB: PhD students still pay the early bird fee for their abstract if their abstract is accepted ++++