Severity Scoring of Atopic Dermatitis (SCORAD) index. The data were analysed, the comparable indexes were calculated and the Pearson correlation coefficient (PCC) between indexes established.

Results

The age of children ranged from 4 to 18 years with average of 8.4±2.8 years. Of the patients 60% were female. The average score was 12.6±4.5 for DFI, and 28.3±19.8 for SCORAD. The average score for CDLQI in the period of remission of AD is 12.5. In 11.8±3.5% of cases was detected ‘very significant’ impact of AD to QoL of children, in 24.5±6.4 - ‘significant’, in 51.2±8.2% ‘non significant’ and no influence of AD on QL in 10.8±3.6% of patients. The correlation among the scores CDLQI, DFI, and SCORAD was significant by the PCC (p<0.001). The obtained data showed, that the QoL correlated with severity of illness and with type of the allergen-specific sensitivity. A comparison analysis demonstrated that the index of QoL in 65.6 ± 6.0% of parents was lower than that of their children.

Conclusion

AD affects the QoL of both children and their parents and indicates the importance of including the study of QoL as a complement to clinical evaluation. Children with AD, even in remission is defined by a low overall QoL with a greater degree of suffering psychological sphere, appearing difficulties socialization of the child and maintain the desired lifestyle. Educational and psychological support for patients and their families in addition to medical treatment of AD may improve their long-term physical outcomes.

Diagnosis was confirmed in 8(45%) children, refused in 2 (11%) children, inconclusive in 8(45%) mainly because of lack of information from SPT and blood test (38%) or due to failure to challenge (38%). Home food introduction was advised in 8(45%) children was not successful in 5(62%), while at initial level only in 3(38%) children over period of 6 months to 2 years. Ninety percent of Non autistic children in one of our local audit tolerated baked egg at home introduction successfully. Associated atopic features with food allergy were Eczema (66%), Asthma (33%) and Allergic Rhinitis (11%).

Conclusions

Diagnosing Food allergy in children with Autism is difficult because of behavioural issues and their restricted food patterns, because of these reasons they are mostly under diagnosed and not properly managed. More resources will be required to achieve this goal.

Recommendations

Regular follow up with detailed feeding history and restricted patterns

Early dietician and psychology input may help.

REFERENCES


P19

TO ASSESS WHETHER CHILDREN WITH AUTISTIC SPECTRUM DISORDER ARE INVESTIGATED AND MANAGED ACCORDING TO INTERNATIONAL STANDARDS FOR FOOD ALLERGY IN PAEDIATRIC ALLERGY DEPARTMENT OLCH CRUMLIN. DR KAFIL AHMAD SHADANI. DR AIDEEEN BYRNE

Kafil Ahmad Shadani*, Aideen Byrne. Our Lady Children Hospital Crumlin, Dublin, Ireland

10.1136/archdischild-2019-epa.375

Background

Allergic diseases are prevalent in ASD children, with a frequency equivalent to that in the general population. Unfortunately, owing to their impaired expressive language, aberrant behaviours and lower tolerance to diagnostic measures compared with typically developing children European Academy of Allergy and Clinical Immunology and British Society of Allergy and Clinical immunology.

Methodology

Retrospective and prospective data collection from clinical notes from children attending department of Allergy and immunology, Our Lady Children Hospital Crumlin from August 2017 till November 2017.

Results

Out of 20 children recruited, 18 were eligible, 15 boys (84%) and 3 girls (16%). Half of them had been diagnosed with Autism and other half with ASD. Main reason of referral was food allergy (88%), Skin Prick Test was indicated in 88% of children but was performed only in 8 (45%) children. In non autistic children in our centre we can perform skin test on almost every child our doing 1300 skin prick test annually. Food challenge was performed only in one child out of 9 indicated, while in non autistic children we perform 240 food challenges per year which represents 99% of cases if food challenge indicated. Allergic

P20

RELATIONSHIP OF VEGETATIVE STATUS AND CONTROL OF ASTHMA IN CHILDREN

1Elena Tush, 1Tatyana Eliseeva, 1,2,3,4Ilya Bulagkova*, 1Olga Khaletskaya, 1Andrew Prakhov.
1Privolzhsky Research Medical University, Nizhny Novgorod, Russian Federation; 2National Medical Research Center of Children’s Health, Moscow, Russian Federation; 3Central Clinical Hospital, Russian Academy of Sciences, Moscow, Russian Federation; 4Firogov Russian National Research Medical University, Moscow, Russian Federation

10.1136/archdischild-2019-epa.376

Background

Violation of vegetative regulation (VR) is a component of the pathogenesis of bronchial asthma (BA) which is confirmed by the abundance of vegetotropic drugs used in the treatment of these patients. Assessment of autonomic function in the management of patients with asthma in routine clinical practice is not provided. However, the state of VR in patients with asthma continues to be of interest to researchers, especially in the aspect of the relationship of VR parameters with the parameters of control of asthma.

Aims

Determine the relationship of VR parameters with the parameters of asthma control level in children using methods available in a wide clinical practice.

Method

88 patients (54 boys and 34 girls) aged 5 to 17 years with atopic bronchial asthma were examined. Quantitative assessment of bronchial asthma control was carried out using questionnaires Asthma Control Questionnaire-5 (ACQ-5), Childhood Asthma control test (ACT-C) in children under 12 years old, and Asthma control test (ACT) in children and adolescents aged 12 years and older. All children underwent a standard examination with determination of blood pressure, pulse, respiratory rate, with the calculation of Kerdo and Hil-debrandt indices, characterizing vegetative regulation. Taking into account the age-dependent changes in heart rate, we used for the first time a relative heart rate index equal to the ratio of the patient’s heart rate to the median heart rate for this age group.