Methods: In this prospective study, we assessed a group of 60 women under the age of 35 for back pain symptoms during the postpartum period from day 1 to 18 months. A structured questionnaire using Google form was used. Data from this survey were then correlated with gained weight and pregnancy outcome, as well as women’s history of LBP.

Results: We reviewed 60 women during their post-partum period. The mean age was 279 years old [24, 35 years]. Women were on average at 9 months of post-partum [1, 18 months]. The median height was 1.6 meters [1.54-1.74m]. The median weight at the moment of the study was 67.2 kilograms [48-80kg]. Before pregnancy, body mass index was 23.5 Kg/m^2 [17-34 Kg/m^2]. The total gained weight at the end of pregnancy was 14 kg [12-29 kg]. Only 20% gained more than 15kg. LBP was experienced in 35% of cases with a mean delay of 3.2 months post-partum [1-8 months]. The prevalence of persistent LBP was noted in 26% of cases. However, no correlation was found between LBP and gained weight (p=0.07). Sixty five percent reported one or more significant episodes of back pain during their pregnancy. Significantly, more patients suffering from pain in pregnancy had history of previous back pain episodes when not pregnant (p<0.001), as well as during previous pregnancies (p<0.001).

Conclusion: No correlation was found between gained weight and occurrence of LBP. The main factors associated with the development of back pain were previous episodes of back pain while non-pregnant or pregnant.

Disclosure of Interests: None declared

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Paediatric rheumatology

**AB0070**

THE RELATION BETWEEN CONGENITAL STRUCTURAL MALFORMATIONS, DISC-VERTEBRA DEGENERATION AND DISC HERNIATION IN THE PEDIATRIC AGE GROUP

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Background: Disc/vertebral degeneration and disc herniation are rare causes of low back pain in childhood. Their relationship with congenital anomalies were reviewed in few studies in literature (1-3).

Objectives: To examine the relation between congenital structural malformations in the lumbar spine, early degeneration and lumbar disc herniation in pediatric age group patients with low back pain, and to determine the incidence of congenital structural malformations, disc/vertebral degeneration, and disc herniation.

Methods: Four hundred patients with LBP persisting for at least six weeks were included in the study. Demographic characteristics, physical examination findings, and laboratory and imaging results were recorded for all patients. Severity of pain was determined using a visual analog scale (VAS). Lumbosacral X-rays were examined for the presence of lumbosacral transitional vertebral (LSTV) and Spina bifida occulta (SBO). The incidence of disc/vertebral degeneration and disc herniation was investigated at the L4-5 and L5-S1 level in lumbarossal magnetic resonance imaging of patients with and without congenital malformations (LSTV-SBO).

Results: The study population consisted of 219 girls and 181 boys aged 10-17 years (mean age 14.9±1.9). Presentation symptoms were low back pain in 90.5% (n=362), and low back-leg pain in 9.5% (n=38). The mean VAS score was 5.5 (4-7) months post-partum [1-8 months]. The prevalence of persistent LBP was noted in 26% of cases. However, no correlation was found between LBP and gained weight (p=0.07). Sixty five percent reported one or more significant episodes of back pain during their pregnancy. Significantly, more patients suffering from pain in pregnancy had history of previous back pain episodes when not pregnant (p<0.001), as well as during previous pregnancies (p<0.001).

Conclusion: No correlation was found between gained weight and occurrence of LBP. The main factors associated with the development of back pain were previous episodes of back pain while non-pregnant or pregnant.

Disclosure of Interests: None declared

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**AB0071**

LONG-TERM EFFICACY AND SAFETY OF CANAKINUMAB IN PATIENTS WITH SYSTEMIC JUVENILE IDIOPATHIC ARTHRITIS: RESULTS FROM A SINGLE-CENTER STUDY

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Background: Results from various phase 3 clinical studies have demonstrated the efficacy of canakinumab to treat patients with systemic juvenile idiopathic arthritis (sJIA). However, limited information is available on the long-term efficacy and safety of this drug to treat children with sJIA.

Objectives: To evaluate the long-term efficacy and safety of canakinumab in patients with sJIA treated at the National Medical Research Center of Children’s health, Moscow, Russia.

Methods: This was a prospective, single-center study that included canakinumab (CAN)-naïve patients diagnosed with sJIA following the International League of Associations for Rheumatology (ILAR) criteria and start receiving CAN treatment from 10/2012 to 03/2016. Patients included in this study also participated, for defined periods of time, in the clinical trial NCT02296424. Patients with active disease started treatment with canakinumab 4 mg/kg. A treat-to-target approach was used, canakinumab was discontinued in patients on clinical remission, either following the NCT02296424 protocol or by investigator’s decision, and re-introduced in those patients who experienced a relapse afterwards. Disease characteristics and demographics were recorded at the time of diagnosis and initiation of treatment (study entry).

Disease activity was evaluated periodically using the adapted JIA ACR core set measures, and percentages of patients with inactive disease and on clinical remission were calculated using the sJIA ACR criteria. Response to treatment was also evaluated by calculating modified ACR responses and JADAS-71 scores. Safety was assessed by collecting and classifying adverse events (AEs) at each visit.

Results: Nineteen patients presenting with sJIA were included in this study, with a median age at treatment initiation of 9.6 (interquartile range, IQR 6.4-11.1) years and a median disease duration of 4.4 (IQR 1.2-7.0) years. Most patients (17/19) had been treated previously with one or more biologic agents for sJIA. As of 23 December of 2019, the median time of follow up was 6.6 (4-7.1) years, with all patients being followed for at least 3.5 years and 5 patients followed for more than 7 years. As it is shown in figure 1, most patients (16/19) were on clinical remission one year after starting therapy, and this effect was sustained at year 3.5 (17/19). ACR 90 responses were observed in 84.2% (16/19) patients at one year and 94.7% (18/19) patients at 3.5 years, whereas JADAS-71 scores decreased from 15 (14: 28.5) at baseline to 0 (0: 0) at one year with 4/19 patients maintained with JADAS-71 <10; at 3.5 years, only one patient had JADAS-71 >0 (0.47, due to slight ESR increasing). Concerning the 5 patients with >7 years of follow up, three of them were in clinical remission for more than 3 years, including one who had discontinued therapy more than 2 years. Another patient had a relapse after attempting drug discontinuation, but recovered clinical remission after reintroduction of canakinumab, and remained in this state for the last two years. The remaining patient has persistent low levels of disease activity during the last four years of follow up. AEs required hospitalization were reported in 36.8% (7/19) patients.

References:

