

Program Schedule

Perinatal Journal 2014;(Suppl):v-x

11th Congress of the Mediterranean Association for Ultrasound in Obstetrics and Gynecology

9th-12th October 2014, Belek, Antalya, Turkey

9th Congress of Obstetrical and Gynecological Ultrasonography Program Schedule

October 9th, Thursday		
09:00-10:00	Registration	
10:00	Basic ultrasound examination / Chairs: Murat Yayla, Burcu Ülkümen Tips for the adjustment of ultrasound machine S. Öner	
10:15	Evaluation of the cervix-uterus- tubes-ovaries and pelvis B. Tekin	
10:30	Ultrasound evaluation of pelvic floor Ö. Yeniel	
10:45	Cephalopelvic disproportion by ultrasound A. Güngören	
11:00	Standards for first trimester ultrasound examination M. Yayla	
11:15	Prediction model for preeclampsia F. Çayan	
11:30-11:45	Discussion	
11:45-12:45	Live demonstration	
13:30	First trimester examination / Chairs: Reem Abu-Rustum, Özlem Moraloğlu Fetal anatomical evaluation in the first trimester R. Abu-Rustum	
13:45	TAD/BPD at 11-14 wks in the diagnosis of spina bifida G. Haddad	
14:00	Serum and US markers altered in pregnancies after ART? O. Gliozheni	
14:15	First trimester markers for aneuploidy: what makes changes? O. Özkaya	
14:30	Ultrasound markers for spina bifida in first trimester G. Göynümer	

09:45	Ultrasound and practising in obstetrics: where is malpractice? M. Sezik
10:00-10:15	Discussion
	Coffee
10:30	Obstetric ultrasound-3 / Chairs: Soner Recai Öner, Burçin Kavak Craniofacial malformations E. G. Yapar Eyi
10:45	Fetal kidney abnormalities: diagnosis and management D. Arıkan
11:00	Preterm delivery: screening and management by TAS/TVS A. Atış Aydın
11:15	Skeletal dysplasias S. Kumru
11:30	Fetal abdominal wall defects F. Koyuncu
11:45	Ectopia cordis and omphalocele: a case report B. Artunç Ülkümen
11:50	Term 2 and 3-dimensional ultrasound in low-risk population with a different formula comparison of estimated fetal weight <i>i. Özer</i>
11:55	Sonographic cervical length and biochemical markers in spontaneous preterm birth (SPTB) up to 14 days from sampling M. H. Lega
12:00	Undergraduate medical education in Turkey in the obstetric and gynecologic ultrasound training M. Sezik
12:05	Ultrasound evaluation of fetal nasal bone In singleton pregnancies B. Artunç Ülkümen
12:10	Umbilical artery Doppler in preeclamptic pregnancy and neonatal sepsis M. Sezik
12:15-12:30	Discussion
12:30-13:00	Rational drug use G. Göynümer
	Closing

Sonographic cervical length and biochemical markers in spontaneous preterm birth (SPTB) up to 14 days from sampling

Marija Hadzi Lega¹, Ana Daneva Markova¹, Milan Stefanovic², Andrijana Sterjovska-Aleksovska³
¹University Clinic of Gynecology and Obstetrics, Skopje, Macedonia; ²University Clinic of Gynecology and Obstetrics, Nis, Serbia; ³Faculty of Medical Sciences, University Goce Delcey, Stip, Macedonia

Objective: Preterm delivery (PTD) before completed 37 gestational weeks, remains one of the most important clinical problems in obstetrics throughout the world, as it is the leading cause of neonatal mortality and morbidity. Preterm delivery exerts numerous negative long-term effects on the neonate, which is especially true for extremely preterm neonates delivered before 28 gestational weeks. But, despite numerous studies, the detailed mechanisms and biological pathways that lead to PTD still remain elusive. The aim of our study was to determine the relationship between sonographic cervical length (CL), fetal fibronectin (fFN), phosphorylated insulin-like growth factor binding protein-1 (phIGFBP-1, Actim partus test), cytokines, such as interleukine-6 (IL-6), interleukine-2R (IL-2R) as well as tumor necrosis factor-alpha (TNF-alpha), and spontaneous preterm birth(SPTB) up to 14 days from sampling.

Methods: 58 patients were recruited in a period of 6 months (September 2013-March 2014) with symptoms or complaints suggestive of preterm labor. Consenting women were treated according to usual hospital protocol, with addition of vaginal swabs taken for fetal fibronectin, phIGFBP-1 (Actim partus test) and cervical IL-6, IL-2R and TNF-alpha. The outcome variable was occurrence of preterm delivery within 14 days from the day of hospital admission.

Results: 36 patients (62.07%) were delivered within 14 days from admission. The fetal fibronectin test is a significant predictor of preterm delivery. Patients with a positive fetal fibronectin test have an OR of 6.429 (95%CI 1.991-20.758) to deliver prematurely. The patients that gave birth within 14 days of admission were also statistically more likely to have a positive phIGFBP-1 test (p=0.02). All but one pregnant women that remained pregnant after 14 days of admission had a serum level of IL-2R below 500 U/mL and the difference in concentrations between the two groups is statistically significant (p=0.044). The patients that were delivered within 14 days of admission in our study group had an average cervical length of 18.78±5.8mm, which is significantly lower than the average cervical length (23.87±6.36) of patients that remained pregnant after 14 days (p=0.0028). Our results indicated that the cervical length significantly correlates with the concentration of IL-6 in the CVF (Spearman's coefficient R = -0.382, p<0.05), i.e. there is a negative indirect correlation between the two parameters, which means that increased IL-6 concentrations in the CVF mean shortening of the cervix and vice-versa. Cervical length also correlated with a positive phIGFBP-1 test i.e. patients with positive test had an average CL=18.5±4.63mm, which is significantly lower than patients with negative test-23.43±7.39mm (p=0.003).

Conclusion: The studied biochemical markers in our study were only moderately successful in the prediction of preterm delivery. Further research is required in terms of the evaluation of cost-benefit of using such test to prevent subsequent unnecessary interventions in the low-risk group, as well as to achieve the benefits from such intervention in the high-risk groups of patients.

Key words: preterm birth, cervical length, biochemical markers.