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ABSTRACTS

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ervix (CUC) and to identify specific profiles of expression hat might be used as biomarkers of progression.

Method: There were 28 CUC and 25 NUC analyzed. Total RNA was prepared using TRIzol® and RecoverAll. MiRNA and small RNA reference gene expression were analyzed using RT-PCR assays. As endogenous references small RNAs (RNU44+U47+RNU48) were used. Data were analyzed according to Kolomogorov–Smirnov and Mann–Whitney test.

Results: There was always an overlap between the expressions in normal vs. tumor samples. The miRNAs overexpressed in cervical carcinoma were miR-1246, miR-1290, miR-1308, miR-142-3p miR-1826, miR-200c, miR-205, miR-21, miR483-5p, miR491-3p miR-720, miR-765 and miR-31, but only miR-205, miR-200c and miR-1290 reached statistical significance. miR-205 was up-regulated in squamous cell carcinomas but downregulated in adenocarcinomas. Six genes, CDKN2A, MKI67, TOP2A, MMP9, BIRC5 and MCM5 were overexpressed in CUC, in line with the miRNA overexpression.

Conclusion: miRNAs are differently expressed in neoplastic and normal cervix, and this correlates with the expression of certain oncoproteins possibly controlled by those miRNAs.

019

Malignant melanoma metastatic to the endometrium: report of two cases

L. Chira * C.C. Santos, I. Timar, K. Szabo, S. Stolnicu, F. F. Nogales

*Emergency Country Hospital, Dept. of Pathology, Targu Mures, Romania

Objective: Malignant melanoma is rarely a primary tumor in the female genital tract. In the uterine corpus, it develops only as a metastasis from various sites (less than 15 cases reported to date). We present two cases of metastases of malignant melanoma of the skin to the endometrium.

Method: Two 56- and 67-year-old patients were admitted for abnormal vaginal bleeding. In both of them, curettage was followed by total hysterectomy. Clinical history revealed that they had been previously diagnosed with malignant melanoma of the skin 1 and 3 years ago, respectively.

Results: On microscopy, nests or cords of atypical epithelioid cells, with intracytoplasmic melanin pigment were detected adjacent to atrophic endometrial glands. Cells were positive for S-100 protein, Melan A, Thyrosinase, Vimentin and HMB-45. On the hysterectomy specimen, in the uterine cavity, there were 3- and 1-mm diameter well-circumscribed nodules of atypical spindle cells with intra-

cytoplasmatic melanin pigment. Infiltration occurred preferently along the endometrial and endocervical surfaces and that myometrial invasion was only small.

Conclusion: If atypical bleeding takes place in postmenopausal patients with a diagnosis of malignant melanoma of the skin, endometrial metastases should be excluded. The prognosis of the patients is very poor; both patients are alive with clinical disease.

020

Significance of perinecrotic expression of CA9 and Glut-1 in endometrial carcinoma

K.-U. Choi *, M.-G. Pak, J.-H. Lee, D.-H. Shin, M.-Y. Sol *Pusan National University, Dept. of Pathology, Yangsan, Republic of Korea

Objective: Tumor hypoxia has been known to be associated with aggressive phenotypes and tumor resistance to therapy. Several tens of genes are induced by tumor cells to suvive in a microenvironment of hypoxia. The aim of this study was to evaluate the prognostic value of CA9 and Glut-1 that are major factors of hypoxia-induced pathway in endometrial carcinoma.

Method: Archival tissue was retrieved from 144 patients and expression of CA9 and Glut-1 were analyzed using immunohistochemistry.

Results: A significantly increased expression of two markers was found at the perinecrotic area of tumor cells. A trend to worse disease-free survival was noted with increased perinecrotic expression of CA9 and Glut-1. Particularly, perinecrotic co-expression of CA9 and Glut-1 was prognostic. Positive correlation was not observed between CA9 and Glut-1.

Conclusion: Perinecrotic expressions of CA9 and Glut-1 are important prognostic factors in endometrial carcinoma. More aggressive treatment may be necessary to improve the outcome of patients showing these patterns.

021

CD44 expression in glandular lesions and adenocarcinoma of the uterine cervix

N.V. Danilova *, Y.Y. Andreeva, P.G. Malkov, L.E. Zavalishina, G.A. Frank

*Moscow State University, Medical Faculty, Russia

Objective: CD44 is an adhesion molecule, which binds hyaluronic acid and participates in a number of cell-cell interactions. CD44 postulated to play a role in process of tumor invasion and metastases. To clarify the possible role of CD44 in progression of uterine cervical adenocarcinomas this investigation was carried out.



Method: There were 43 cases studied, including benign glandular lesions (10), dysplastic lesions/adenocarcinoma in situ (AIS) (16) and invasive adenocarcinoma (IA) (17). All cases were reviewed by three pathologists to obtain a consensus diagnosis. Immunohistochemical staining for CD44 (clone DF1485) was performed on 4- μ m sections of formalin-fixed, paraffin-embedded specimens.

Results: In 85% cases of benign, 93% dysplastic lesions and 90% AIS moderate and strong membrane expression observed. There was not any statistical difference in the groups considered. However, significantly decreased expression was observed in 92% cases of IA. Simultaneously, a strong expression in stromal component was observed around IA and in sites of microinvasion. Thus, redistribution of CD44 from cells to stroma was observed in sites of invasion.

Conclusion: The results suggest that CD44 is associated with invasive features of cervical adenocarcinoma and may be valuable marker of stromal invasion.

022

Omental pregnancy: a rare ectopic pregnancy

S. Dumitriu *, A. Dumitriu, M. Chetrone, D. Miron, V. Ionita, I. Fulga, C. Georgescu *UMF Iasi, Pathology, Romania

Objective: Omental pregnancy is a rare entity. The diagnostic is difficult and still continues to challenge the clinicians.

Method: We present the case of a 49-year-old female who presented to the hospital with abdominal pain for a few years.

Results: The repeat laparascopy showed omental and peritoneal ectopic decidua. Histopathological examination confirmed it to be an intraabdominal pregnancy.

Conclusion: We conclude that an abdominal pregnancy, though rare, has a seven times higher mortality than non-abdominal pregnancies.

023

Four cases of simplex (differentiated) variant of vulvar intraepithelial neoplasia

N. Dursun *, C. Leblebici, M. Zengin, F. Gunver, E. R. Bozkurt

*1st Education and Research Hospital, Dept. of Pathology, Istanbul, Turkey

Objective: Simplex (differentiated) variant of vulvar intraepithelial neoplasia (VIN) (carcinoma in situ, simplex type)

is relatively an infrequent form of VIN. The diagnosis of simplex variant of vulvar intraepithelial neoplasia (SVIN) is difficult and there is conflicting data in the literature if SVIN is a precursour of vulvar squamous cell carcinoma (VSCC).

Method: There were 344 biopsies of vulva evaluated for VIN and VSCC. There were 15 cases of VIN and 8 cases of VSCC analyzed for SVIN.

Results: Four cases had SVIN. The mean age of the patients was 80 (versus 69 for ordinary VSCC). Three of the cases were adjacent to keratinizing VSCC; one was seperate. Two were with early carcinoma; two were widely invasive. All the cases had thickened epidermis. There was parakeratosis. The keratinocytes had dense eosinophilic cytoplasm atypical nuclei at the basal layer, but the superficial keratinocytes were without atypia. Laminin were made to the carcinomas with early invasion.

Conclusion: Despite the data in the literature, all of our SVIN cases were accompanying VSCC. This showed that the detailed examination of the adjacent epithelium in VSCC patients can increase the incidence of SVIN. Futhermore, it is important to emphasize the diagnosis of SVIN and early dermal invasion by neoplastic cells has difficulties.

024

Ovarian cellular fibroma with deposition of hyaline globules: a case report

D. Esteves *, P. Farrajota, C. R. Dias, F. E. Costa *Hospital de Santo Antonio, Dept. de Anatomia Patologica, Porto, Portugal

This case report is of a patient years of age, with cellular ovarian fibroma containing hyaline globules. this being an unusual association, rarly described in articles. The cellular fibroma is characterized by bland nuclei, three or fewer mitotic figures per 10 highpower fiels and immuohistochemically the tumor was vimentin, CD56, calretinin postive with smooth muscle actin being only focally positive. The neoplastic cells formed densely cellular areas which alternated with a hypocellular, reticular-pattern like areas, associated with clusters of hyaline globules, these being periodic acid-Shift and mucicarmne positive and Alcan blue negative. The hyaline globules were not an insignificant finding, but rather an eye-catching sign, ranging from 3 to 20 um, intra- and extracelllarly. In more compact areas, between the spiral cells, we also observed cells with a signet-ring appearence. The differential diagnoses from Krukenberg tumor and Yolk sac tumor is discussed.