in malignant tumor compared to the control group. The intensity of lipid peroxidation was increasing ~1.5 times in benign and ~2.2 times in malignant tumor compared to the control group.

Conclusions On the background intensification of lipid peroxidation ongoing enhanced use of antioxidants, that reflects on the alteration of organism's antioxidant system.

IGCS19-0187

DETECTION OF NCOA2/3 GENE FUSIONS IN UTERINE TUMORS RESEMBLING OVARIAN SEX CORD TUMORS (UTROSCT)

1A Pinto*, 2RR Lastra, 3L. Ritterhouse, 3T. Segal, 3T Krausz, 3JA Bennett. 1University of Miami, Pathology, Miami, USA; 2University of Chicago, Pathology, Chicago, USA

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Objectives Uterine tumors resembling ovarian sex cord tumors (UTROSCT) are rare mesenchymal neoplasms of uncertain histogenesis that are challenging to diagnose due to their morphological and immunohistochemical overlap with more conventional entities. While DNA sequencing has failed to identify recurring mutations in these tumors, RNA sequencing recently detected NCOA2/3 fusions in two small series. The objective of this study was to further describe the characteristics of two UTROSCTs.

Methods We retrospectively evaluated the clinicopathological and immunohistochemical features of two UTROSCTs, and performed RNA sequencing to detect gene fusions.

Results The patients were 52 and 57 years old, tumors measured 5 and 12 cm, and were confined to the myometrium. Both showed multiple histologic patterns including diffuse, cord-like, and trabecular, with rhabdoid cells focally present. One UTROSCT had significant cytologic atypia and brisk mitotic activity, but both lacked necrosis and lymphovascular invasion. Variable immunohistochemical expression for calretinin, inhibin, WT-1, ER, CD10, and pankeratin was noted. RNA sequencing detected an ESR1-NCOA3 fusion in one tumor, whereas the other had a GREB1-NCOA2 rearrangement. The former patient is alive and well five months after diagnosis, while the latter recurred two years later, and is currently alive with disease (six years after original diagnosis).

Conclusions The detection of NCOA2/3 fusions in two additional UTROSCTs further supports this rearrangement as a characteristic finding in these rare tumors. Additional studies are warranted to determine its sensitivity and specificity in UTROSCTs compared to other gynecologic neoplasms.

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THE CHALLENGES OF CREATING A FELLOWSHIP IN GYNECOLOGIC ONCOLOGY IN MOZAMBIQUE, A COUNTRY WITH NO NORMAL TRAINING PROGRAM IN GYNECOLOGIC ONCOLOGY

1R Rangeiro*, 2D Changule, 3S Daude, 4M Ribeiro, 5E Luis, 6F Mabota, 7G Cintra, 8R Moretti-Marques, 9L Lopes, 10M Vieira, 11M Salcedo, 12H Baker, 13C Lorenzoni, 14K Schmeler, 15Hospital Central de Maputo, Departamento de Ginecologia e Obstetricia, Maputo, Mozambique; 16Hospital de Cancer de Barretos, Ginecologia Oncologica, Barretos, Brazil; 17Hospital Albert Einstein, Ginecologia Oncologica, Sao Paulo, Brazil; 18Instituto Brasileiro de Controle do Cancer, Ginecologia Oncologica, Sao Paulo, Brazil; 19Hospital de Cancer de Barretos, Ginecologia Oncologica, Barretos, Brazil; 20Universidade Federal de Ciencias de Saude de Porto Alegre/Mandande Santa Casa de Misericordia, Ginecologia Oncologica, Porto Alegre, Brazil; 21MD Anderson Cancer Center, The Department of Gynecologic Oncology and Reproductive Medicine from the University of Texas, Houston, USA; 22Ministerio da Saude de Mocambique, Ginecologia Oncologica, Maputo, Mozambique; 23MD Anderson Cancer Center, The Department of Gynecologic Oncology and Reproductive Medicine from the University of Texas, Houston, USA

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Objectives Mozambique has a high prevalence of gynecologic cancers and has no trained gynecologic oncologist or specialized training program. There are challenges associated with creating a training program.

Methods The International Gynecologic Cancer Society (IGCS) Gynecologic Oncology Global Curriculum & Mentorship Program, a two-year program to train gynecologists in gynecologic oncology in countries without training programs,