
Uterine Tumor Resembling Ovarian Sex Cord Tumor (UTROSCT). Report of Case Suggesting Neoplastic Origin of Intratumoral Myoid Cells

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Summary

We report a case of double uterine tumor resembling ovarian sex cord tumor (UTROSCT). The tumor was composed of sex cord-like cords, nests and tubules, and bundles of myoid cells. The lesion was interesting especially in regard to histogenesis of intratumoral myoid cells. It is not known whether these cells are neoplastic or whether they represent preexisting myometrial smooth muscle cells entrapped into the tumor. In the present case, the sex cord-like epithelioid cells showed immunohistochemically myoid features in addition to features of epithelial, sex cord and endometrial stromal differentiation. The spindle cells expressed myoid, epithelial and endometrial stromal markers, but some of them were positive for sex cord marker calretinin. This immunophenotypic overlap between sex cord-like and myoid spindle elements indicates that the spindle cells of UTROSCT represent divergent line of differentiation of neoplastic cell rather than entrapped myometrial cells. It further expands the spectrum of possible differentiations in this polyphenotypic neoplasm.

Key words: uterine tumor resembling ovarian sex cord tumor - UTROSCT - immunohistochemical examination - smooth muscle differentiation - CD10

Súhrn

Tzv. „uterine tumor resembling ovarian sex cord tumor“ (UTROSCT). Popis prípadu s nálezom podporujúcim neoplastický pôvod intratumorálnych myoidných buniek

Popisujeme prípad UTROSCT-u, ktorý bol zaujímavý z hľadiska histogenézy myoidných buniek (tieto bunky sú často v týchto tumoroch prítomné medzi typickými „sex cord-like“ štruktúrami). Doposiaľ je diskutované, či ide o bunky neoplastické alebo len o nenádorové bunky preexistujúceho myometria. V prezentovanom prípade bola imunohistochemicky zreteľná v sex cord bunkách aj myoidná diferenciácia (okrem epitelovej a sex-cord diferenciácie). Na druhej strane, ojedinelé myoidné bunky exprimovali sex cord marker calretinin. Toto fenotypické prekrytie favorizuje nádorový pôvod myoidných buniek a rozširuje spektrum možných diferenciácií v UTROSCT-e. Ďalším imunohistochemickým nálezom bola pozitívita cytokeratínu a stromálneho markeru CD10 v sex-cord aj myoidných bunkách. Pozorovanie komplexného fenotypu ďalej podporuje nedávne výsledky Irvinga a spol., ktorý označili UTROSCT za polyfenotypický nádor s „pravou“ sex cord diferenciáciou.

Kľúčové slová: maternica - UTROSCT - myoidná diferenciácia - CD10 - inhibín

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So-called uterine tumor resembling ovarian sex cord tumor (UTROSCT) is composed typically of sex cord-like elements (2, 20). In addition to the sex cord-like structures, many UTROSCTs contain also a second component of spindle cells with smooth muscle features (2, 18, 19). Whereas the sex cord component is neoplastic without any doubt, the origin of myoid spindle cells is still controversial (8, 18, 19). They are either neoplastic or

they represent preexisting myometrial smooth muscle cells entrapped into the tumor (8, 18, 19). Recently, we have seen a case that adds information to this question. The tumor showed, in addition to the positivity for sex cord markers, an unquestionable immunoreactivity for smooth muscle markers in the sex cord-like structures. Moreover, rare spindle myoid cells expressed sex cord marker calretinin (14). This immunophenotypic overlap bet-