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# Ovarian Mucinous Cystadenocarcinoma with Mural Nodule of Anaplastic Carcinoma and Synchronous Cervical Squamous Carcinoma

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## Souhrn

### Mucinózní cystadenokarcinom ovaria s murálním uzlem anaplastického karcinomu a současný dlaždicobuněčný karcinom děložního hrdla

Solidní murální tumorózní uzel v mucinózním cystickém nádoru ovaria je častější než se běžně předpokládá. Je prezentován jeden případ se současným karcinomem děložního hrdla.

Tricetiosmiletá žena byla operována pro nádor pravého ovaria. Po peroperační diagnóze ovariální malignity byla provedena oboustranná salpingo-ooforektomie a hysterektomie. Nádor ovaria byl tvořen unilokulární cystou s murálním uzlem. Uzel měl charakter nediferencovaného karcinomu. Imunohistochemicky byly atypické buňky uzlu pozitivní pro cytokeratin, CEA a vimentin, což potvrzuje jejich anaplastický charakter. Histologicky byl nalezen i současný invazivní dlaždicobuněčný karcinom děložního hrdla. Pacientka byla léčena chemoterapií a radioterapií. Patnáct měsíců po operaci je v dobrém stavu, bez známek nádoru.

V literatuře jsme nenašli podobný případ mucinózního cystadenokarcinomu ovaria s murálním uzlem anaplastického karcinomu a současný dlaždicobuněčný karcinom děložního hrdla.

**Klíčová slova:** ovarium – mucinózní cystadenokarcinom – murální uzel – anaplastický karcinom – cervikální karcinom

## Summary

Solid mural nodule within a mucinous cystic ovarian tumor occurs more often than generally presumed. One especially interesting case involving coincidental cervical carcinoma is presented.

A 38-year-old woman underwent exploratory laparotomy for a right ovarian tumor. After ovarian malignancy had been diagnosed from frozen section, the bilateral salpingo-oophorectomy and hysterectomy was performed. The tumor had a unilocular cystic cavity and a mural nodule. The nodule showed undifferentiated carcinomatous features. The immunohistochemical examination revealed atypical cells in the nodule which were positive for cytokeratin, CEA, and vimentin, establishing its anaplastic nature. A synchronous cervical invasive squamous carcinoma was documented. The patient was treated with chemotherapy and radiotherapy. Currently, at 15 postoperative months, she is well and free of disease.

The occurrence of ovarian mucinous cystadenocarcinoma with mural nodule of anaplastic carcinoma and cervical squamous cell carcinoma is evidently very uncommon, because we have not found a similar case in the literature.

**Key words:** ovary – mucinous cystadenocarcinoma – mural nodule – anaplastic carcinoma – cervical carcinoma

*Čes.-slov. Patol., 41, 2005, No. 2, p. 66–70*

Mural nodules have been reported to occur in mucinous cystic tumors of the ovary and pancreas (8, 12). A single case has been reported to be associated with a mucinous tumor of the gallbladder (14) and a few cases associated with cysts in the cerebral hemispheres (7). Mural

nodules can be associated with benign, borderline or malignant mucinous cystic ovarian tumors (24). These mural nodules may be malignant (anaplastic carcinoma, sarcoma or carcinosarcoma) or benign (sarcoma-like) (24).

To our knowledge, nineteen cases of ovarian