

# Fatal hematogenous relapse of mucinous borderline ovarian tumor of intestinal type

A. Robert Louis,  
Sunil Kumar Gupta,  
Chandra Gouda,  
Gurudutt Gupta<sup>1</sup>

Departments of Medical Oncology  
and <sup>1</sup>Pathology, Rajiv Gandhi  
Cancer Institute and Research  
Center, Sector 5 Rohini, New Delhi,  
India

## Address for correspondence:

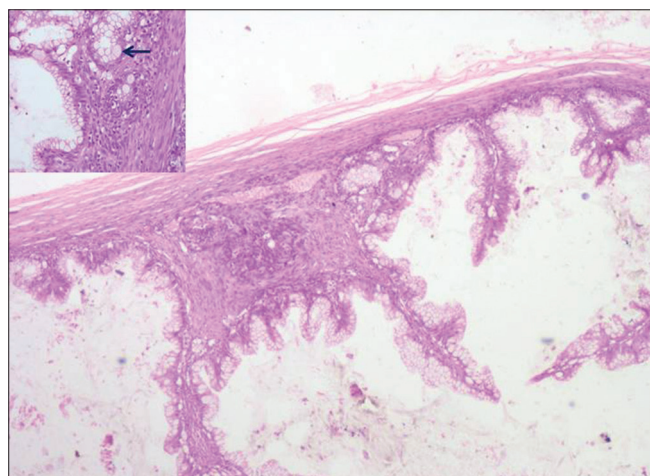
Dr. A. Robert Louis,  
Department of Medical  
Oncology, Unit II, Rajiv Gandhi  
Cancer Institute and Research  
Center, Sector 5 Rohini,  
New Delhi - 110 085, India.  
E-mail: drrobertlouis@gmail.com

## ABSTRACT

We describe an unusual case of fatal hematogenous relapse of borderline mucinous ovarian tumour of intestinal type after three years of primary optimal cytoreduction with dissemination to liver, bones and lymphangitic pattern of spread in lungs with resistance to standard chemotherapy.

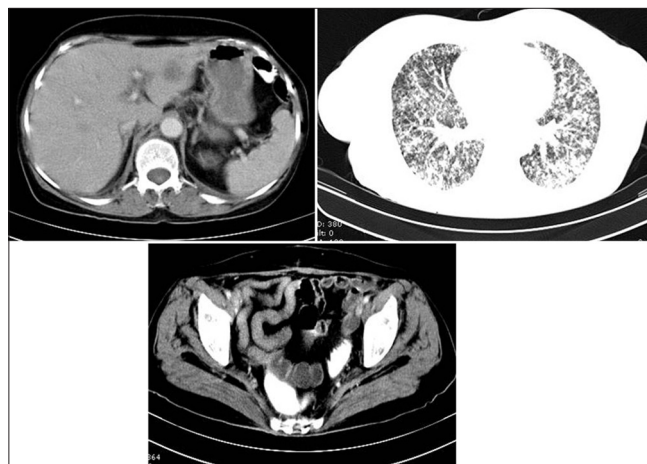
**Key words:** *Chemoresistant, hematogenous relapse, mucinous borderline ovarian tumor*

A 61-year-old lady who has been diagnosed as pathological stage IA (limited to one ovary with no capsule breach) borderline ovarian tumor of intestinal type [Figure 1]



**Figure 1:** Section showing borderline mucinous tumor-intestinal type with goblet cells (black arrow) of ovary (H and E, x40) and inset (H and E, x200)

in 2008 has come to us three years later with abdominal pain, back pain and exertional breathlessness. Computed tomography evaluation showed liver lesion, extensive lymphangitic pulmonary lesion and scattered vertebral lesion but no peritoneal disease [Figure 2]. Bonescan showed multiple uptakes in axial and appendicular skeleton. Biopsy from liver lesion showed mucin positive adenocarcinoma consistent with ovarian origin positive for cytokeratin 7, cytokeratin 20 (CK7, CK20) and cancer antigen 125 (CA 125) and negative for caudal type



**Figure 2:** Computed tomography evaluation showed liver lesion and extensive lymphangitic pulmonary lesion and scattered vertebral lesion but no peritoneal disease

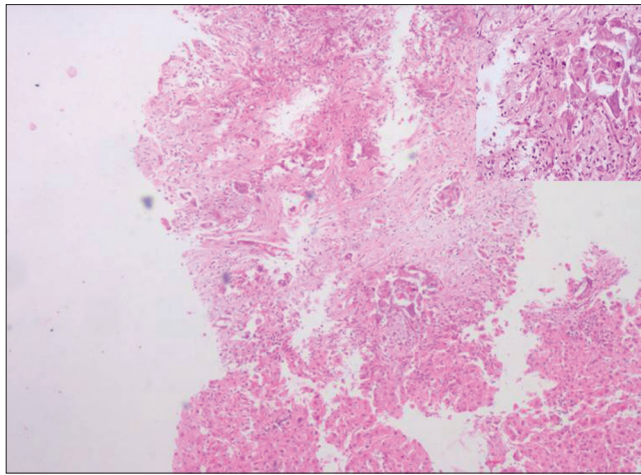
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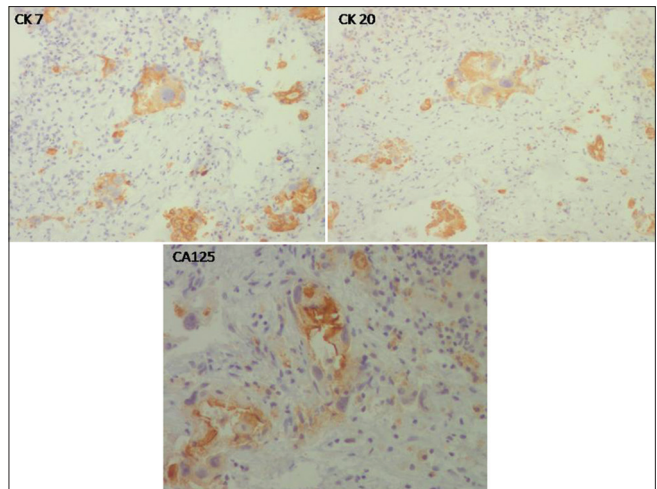
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**Figure 3:** Section showing metastatic deposits of mucinous adenocarcinoma (H and E, x40) and inset (H and E, x200)

homeobox 2 (CDX2) [Figures 3 and 4]. Her upper and lower Gastrointestinal endoscopies were normal. She had progressive disease despite paclitaxel and carboplatin based therapy and failed subsequent secondline therapy before she eventually died of disease related respiratory failure.



**Figure 4:** Special immunostains highlight immunopositivity for Ck 7, Ck 20 and Ca125. (Dab, x200)

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