



Published in final edited form as:

*Gynecol Oncol.* 2010 November ; 119(2): 270–273. doi:10.1016/j.ygyno.2010.07.019.

## Patterns of recurrence and role of adjuvant chemotherapy in stage II–IV serous ovarian borderline tumors

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### Abstract

**Objective**—The objective of this study was to evaluate patterns of recurrence and prognostic factors as well as the role of adjuvant chemotherapy in stage II–IV ovarian SBT.

**Methods**—We performed a retrospective review of all patients with advanced-stage SBT treated at our institution from 1979–2008. Advanced stage was defined as FIGO stage II–IV. Progression-free survival (PFS) was defined as the time of diagnosis to time of recurrence/death or last follow-up. Kaplan-Meier method was used to report the PFS rate.

**Results**—A total of 80 stage II–IV patients were identified, of which 15 (19%) were stage II, 63 (79%) were stage III, and 2 (2.5%) were stage IV. The site of metastasis was pelvis in 15 patients (19%), omentum in 29 patients (36%), isolated lymph nodes in 2 patients (2.5%), lung in 1 patient (1%), axilla in 1 patient (1%), and multiple sites in 32 patients (40%). With a median follow-up of

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### Conflict of Interest Statement

Karin K. Shih: no conflicts

Qin C. Zhou: no conflicts

Carol Aghajanian: no conflicts

Jae Huh: no conflicts

Robert A. Soslow: no conflicts

Jessica C. Morgan: no conflicts

Alexia Iasonos: no conflicts

Dennis S. Chi: no conflicts

Richard R. Barakat: no conflicts

Nadeem R. Abu-Rustums: no conflicts

4.8 years, 17 patients (21%) developed recurrent disease. Only patients with metastasis to the omentum or multiple sites developed recurrent disease. Of the 65 stage III/IV patients, 17 patients (26%) received adjuvant chemotherapy following diagnosis. The 3-year progression-free survival (PFS) was 89.9% (95% CI, 77.3–95.7) for patients who did not receive adjuvant chemotherapy compared with 70.6% (95% CI, 43.1–86.6) for patients who received adjuvant chemotherapy.

**Conclusion**—While advanced-stage ovarian SBT generally has a good prognosis, nearly 21% of patients develop recurrent disease with intermediate follow-up. It is unclear from these data if adjuvant chemotherapy influenced PFS.

### Keywords

ovarian borderline tumor; chemotherapy; recurrence; advanced stage

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### Introduction

Ovarian serous borderline tumors (SBTs) are a separate subset of ovarian epithelial neoplasms. They differ from invasive ovarian epithelial neoplasms both in pathologic characteristics and clinical behavior [1–4], and they have an excellent prognosis overall. Various risk factors for recurrence include the presence of invasive implants, micropapillary pattern histology, DNA ploidy, and age [5–13].

Most ovarian SBTs present with stage I disease; however, SBTs can be associated with advanced-stage disease [14]. The optimal management of advanced-stage ovarian SBTs relies mainly on surgery. The role of adjuvant chemotherapy is debatable, particularly in stage III–IV cases. Surgery is an integral component to management of advanced-stage ovarian SBT. Some early studies have shown that chemotherapy in the adjuvant setting provides some treatment benefit [15–16], but other studies have refuted this [17–18].

The objective of this study was to evaluate clinical characteristics, patterns of recurrence, and outcomes of patients with advanced stage SBTs, and to describe the role of adjuvant chemotherapy in this select group of patients.

### Methods

After Institutional Review Board (IRB) approval, we identified all patients with ovarian SBTs treated at our institution from 1979–2008. Not all patients were diagnosed at our institution as some patients presented for further management after initial surgery and diagnosis at an outside institution. We reviewed medical records, including operative reports, pathology and laboratory reports, and chemotherapy records, and extracted the relevant data. The pathology specimens from patients who were diagnosed at an outside institution were all reviewed at our institution.

Stage at initial diagnosis was designated based on the International Federation of Gynecology and Obstetrics (FIGO) staging system for ovarian carcinoma [19]. We defined advanced-stage disease as stage II–IV. Histology information was obtained from institutional pathology reports, and only patients with tumors of serous histology were included in this cohort. It is our hospital policy to confirm all outside pathology reports by institutional

review of submitted specimens. From the pathology reports, sites of metastasis, presence of micropapillary features, presence of invasive or non-invasive implants, and spread to lymph nodes were noted. We reviewed operative reports to determine which procedures had been performed and to note any intraoperative findings, including presence of ascites and residual disease.

Progression-free survival (PFS) was defined as the time of diagnosis to time of recurrence/death or last follow-up. Recurrence was defined with clinical or CA-125 criteria according to the Rustin criteria [20]. The Kaplan-Meier method was used to estimate PFS rates, and univariate analysis with *P* values were generated using the log-rank test. Statistical analyses were performed using SAS ® analytical software.

## Results

A total of 80 stage II–IV patients were identified. The clinicopathologic characteristics for this cohort are described in Table 1. The median age at diagnosis was 41 years (range, 16–80 years). Fifteen patients (19%) had stage II disease, 63 (79%) had stage III disease, and 2 (2.5%) had stage IV disease at diagnosis. At the time of initial diagnosis, the site of metastasis was the pelvis in 15 patients (19%), omentum in 29 patients (36%), isolated lymph nodes in 2 patients (2.5%), lung in 1 patient (1%), axilla in 1 patient (1%), and multiple sites in 32 patients (40%). Of the 80 patients in the cohort, 25 (31%) had tumor histology with micropapillary features and 19 (24%) had invasive implants. Forty-four patients (55%) had lymph node sampling at the time of surgery. Of these 44 patients, 28 (64%) had positive lymph nodes. Adjuvant chemotherapy was given in 17 patients (21%). Because our cohort of patients were treated over a 30-year time period, a variety of intravenous and intraperitoneal chemotherapy regimens were given. Intravenous chemotherapy agents included cyclophosphamide, cisplatin, adriamycin, paclitaxel, and carboplatin. Intraperitoneal chemotherapy agents included mitoxantrone, etoposide, carboplatin, cisplatin, and paclitaxel.

Table 2 outlines the follow-up and recurrence data. The median follow-up time was 4.8 years (range, 0.05–22.84 years). At the time of last follow-up, 50 patients (62.5%) had no evidence of disease, 10 (12.5%) were alive with disease, 4 (5%) were dead of disease, 4 (5%) were dead of other causes, and 12 (15%) were lost to follow-up. Of the 80 patients in the cohort, 17 (21%) developed recurrent disease—11 (65%) developed recurrent disease with invasive or low-grade serous carcinoma, 5 (29%) developed recurrent disease with borderline histology, and 1 (6%) developed recurrent disease with unknown histology.

The 3-year PFS rate for the entire cohort was 84.9% (95% CI, 73.8–91.6). Univariate analysis of various factors was assessed with RFS. These factors are outlined in Table 3. The 3-year PFS rate was 91.7% (95% CI, 53.9–98.8) for stage II patients and 83.6% (95% CI, 70.8–91.1) for stage III/IV patients (*P*=0.093). The 3-year PFS rate was 72.4 (95% CI, 48.3–86.6) for patients with tumors of micropapillary features and 91.1 (95% CI, 78–96.6) for patients without micropapillary features (*P*=0.023). The 3-year PFS rate was 66.7 (95% CI, 40.4–83.4) for patients with invasive implants and 93.6 (95% CI, 81.5–97.9) for patients with non-invasive implants (*P*=0.005). We further characterized patients according to

residual disease. Eight patients (10%) had residual disease at initial surgery, 69 (86%) had no residual disease, and for 3 (4%) patients, it was unclear if there was residual disease at initial surgery. The 3-year PFS rate was 71.4 (95% CI, 25.8–92) for patients with residual disease and 89.4 (95% CI, 77.9–95.1) for patients with no residual disease at initial surgery. Univariate analysis for residual disease was not performed as the number of patients with residual disease was small.

None of the patients with stage II disease received adjuvant chemotherapy. The 3-year PFS rate was 89.9% (95% CI, 77.3–95.7) for patients who did not receive adjuvant chemotherapy compared with 70.6% (95% CI, 43.1–86.6) for patients who received adjuvant chemotherapy. As demonstrated in Figure 1, there is no benefit of adjuvant chemotherapy for RFS. Interestingly, none of the patients with residual disease at initial surgery received chemotherapy. Of the 69 patients with no residual disease, the 3-year PFS rate was 80% (95% CI, 50–93.1) for patients who received chemotherapy and 92.7% (95% CI, 79–97.6) for patients who did not receive adjuvant chemotherapy. Individual chemotherapy agents were not examined as there was a wide variety used among this cohort.

Of the 63 stage III patients, we evaluated sites of metastasis as this is a heterogeneous group. The only patients who developed recurrence had omental involvement or multiple sites of disease at the time of initial diagnosis. Of the 29 patients with the omentum as the only site of metastasis, 8 (28%) developed recurrence. Thirty-two patients had multiple sites of disease, and of these, 9 (28%) developed recurrence. None of the patients with isolated nodal disease developed recurrence. The 2 patients with stage IV disease had isolated metastasis to the lung or axilla, and neither patient developed recurrent disease. Both patients underwent surgical resection of metastatic disease. Evaluation of sites of metastases with significant prognostic factors (micropapillary type histology, invasive implants, and residual disease) found no significant associations.

## Discussion

The management of advanced-stage ovarian borderline tumors is controversial. Surgery is a mainstay in the management of all ovarian borderline tumors and includes hysterectomy, bilateral salpingo-oophorectomy, peritoneal washings and biopsies, and resection of any gross disease. There are several purposes of surgery—staging of disease is necessary to determine prognosis and risk of recurrence [1, 14]; pathologic evaluation is necessary to identify prognostic factors such as invasive vs non-invasive implants and micropapillary pattern [5, 8, 21–23]; and in patients who desire childbearing, including patients with advanced disease [14, 24, 27], fertility-sparing surgery can be considered [1, 11, 24–26].

The role of adjuvant chemotherapy in advanced-stage ovarian SBTs is less defined, as reported response rates vary widely. We previously reported on a cohort of patients with SBTs who received platinum-based chemotherapy [16]. In that report, 21 patients with stage III or IV ovarian SBTs received platinum-based chemotherapy after initial cytoreductive surgery. Of the patients who underwent second-look laparotomy, 2 (29%) patients with macroscopic residual disease after initial cytoreductive surgery had complete response to chemotherapy. A compilation of literature in that report found a 26% complete response rate

in patients with macroscopic residual disease at initial cytoreductive surgery. A Gynecologic Oncology Group (GOG) study evaluated adjuvant chemotherapy in 32 patients with stage III ovarian BT [17]. Fourteen patients underwent second-look laparotomy, and 2 patients (25%) with residual disease at initial surgery had a complete response. Furthermore, a study of 73 patients with ovarian SBTs and non-invasive implants reported a 5% complete response rate to chemotherapy in patients with macroscopic residual disease [22]. In addition, a study of 39 patients with ovarian SBTs with invasive implants reported a 14% complete response rate to chemotherapy in patients with macroscopic residual disease [21]. In that study, platinum-based chemotherapy was associated with a significantly shorter PFS.

The 80 patients in our cohort had an overall good prognosis; only 4 patients (5%) died from disease. As a result, we evaluated recurrence as a marker of prognosis, and even with advanced-stage disease, the 3-years RFS rate was 84.9% and 17 patients (21%) developed recurrence. In ovarian BT, long follow-up periods are required to evaluate recurrence risk. Recurrence rates of approximately 30% have been reported with 10-year follow-up [21–22] and 44% with 15-year follow-up [28]. Patients in this cohort with invasive implants or micropapillary type tumors appeared to have a higher recurrence risk. Interestingly, none of the patients who had residual disease after initial surgery received chemotherapy. As a result, it is not possible to evaluate for response rate to adjuvant chemotherapy.

There is increasing evidence that adjuvant chemotherapy may not be beneficial in ovarian SBTs, even in advanced stage. Reported response rates are low relative to response rates seen with invasive epithelial ovarian carcinomas. In our cohort, there did not appear to be a survival benefit in patients who received adjuvant chemotherapy. Interestingly adjuvant chemotherapy appears to increase the risk of recurrence. However, it is important to note that the chemotherapy agents used varied widely and with all retrospective studies, there is inherent selection bias that may influence this finding. Even in the patients with no residual disease at initial surgery, there did not appear to be a survival benefit with adjuvant chemotherapy.

Micropapillary type and invasive implants are both significant prognostic factors for recurrence. Residual disease may be associated with increased recurrence risk; however, due to the small number of patients, statistical assessment of significance was not possible. Only patients who had multiple sites of metastases or omental metastasis developed recurrence. While our data is limited by small numbers, none of the patients with nodal-only metastasis or isolated distant metastasis (axilla or lung) developed recurrence.

Our study is limited by weaknesses inherent to all retrospective studies. Referral bias is another weakness, as approximately half of the patients in the cohort were initially diagnosed at an outside hospital and then presented to our institution; however, most of these patients presented at our institution shortly afterward their initial diagnosis (up to several months). With a long study period included, the cohort of patients is heterogeneous with a variety of chemotherapy drugs and administrations (intravenous and intraperitoneal). Finally, we had a significant number of patients (15%) with short follow-up, and our overall median follow-up time was only 4.8 years. A longer follow-up period would have better assessed recurrence and survival.

Advanced ovarian SBTs have a good prognosis, with excellent survival. Recurrence risk is not negligible; nearly 21% of patients recurred, with a median follow-up time of 5 years. Adjuvant chemotherapy does not appear to impact risk of recurrence.

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PFS by Adjuvant Chemotherapy Yes/No (For Stage II/III/IV and Serous patients)

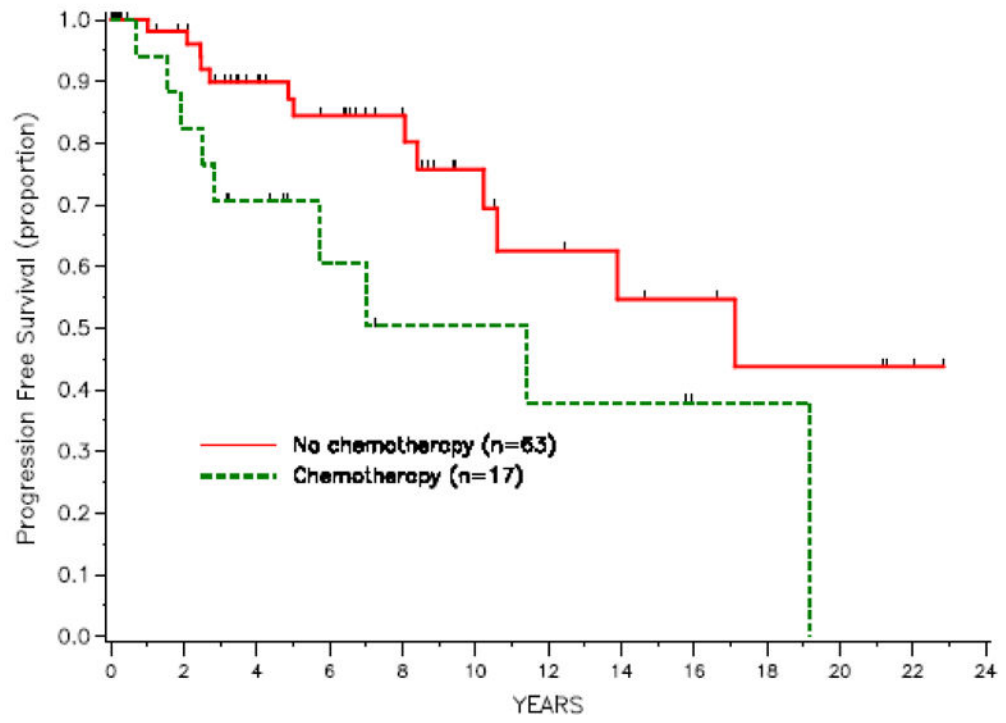


Fig. 1.



**Table 1**

## Clinicopathologic characteristics

	N (%)
Total number of patients	80
Median age at diagnosis, years (range)	41.1 (16.8–79.6)
Stage	
II	15 (19)
III	63 (79)
IV	2 (2.5)
Sites of metastasis	
Pelvis	15 (19)
Omentum	29 (36)
Isolated lymph nodes	2 (2.5)
Lung	1 (1)
Axilla	1 (1)
Multiple	32 (40)
Micropapillary features	
Yes	25 (31)
No	55 (69)
Implants	
Invasive	19 (24)
Non-invasive	60 (75)
Unknown	1 (1)
Lymph nodes	
Positive	28 (35)
Negative	16 (20)
Not done	36 (45)
Ascites	
Yes	32 (40)
No	48 (60)
Residual disease	
Yes	8 (10)
No	69 (86)
Unknown	3 (4)
Adjuvant chemotherapy	
Yes	17 (21)
No	63 (79)

**Table 2**

## Follow-up data

Median 3-year RFS rate	84.9 (73.8–91.6)
Median follow-up, years (range)	4.8 (0.05–22.84)
Status at time of last follow-up*	
NED	50 (62.5)
AWD	10 (12.5)
DOD	4 (5)
DOO	4 (5)
Lost to follow-up	12 (15)
Recurrence	
Yes	17 (21)
No	63 (79)

RFS, recurrence-free survival; NED, no evidence of disease; AWD, alive with disease; DOD, dead of disease; DOO, dead of other causes

**Table 3**

Analysis of recurrence-free survival

	N (%)	3-year RFS (95% CI)	P
Stage			0.093
II	15 (19)	91.7 (53.9–98.8)	
III/IV	65 (81)	83.6 (70.8–91.1)	
Micropapillary type			0.023
Yes	25 (31)	72.4 (48.3–86.6)	
No	55 (69)	91.1 (78–96.6)	
Invasive implants			0.005
Yes	19 (24)	66.7 (40.4–83.4)	
No	61 (76)	93.6 (81.5–97.9)	
Residual disease			N/A
Yes	8 (10)	71.4 (25.8–92)	
No	69 (86)	89.4 (77.9–95.1)	
Unknown	3 (4)		
Adjuvant chemotherapy (all patients)			N/A
Yes	17 (21)	70.6 (43.1–86.6)	
No	63 (79)	89.9 (77.3–95.7)	
Adjuvant chemotherapy (patients without residual disease)			N/A
Yes	15 (22)	80 (50–93.1)	
No	54 (78)	92.7 (79–97.6)	