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FREQUENCY OF CHEMOTHERAPY INDUCED AMENORRHEA IN WOMEN WITH COLORECTAL CANCER

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Introduction - Purpose : Adjuvant chemotherapy is the standard treatment for stage III and highrisk stage II colorectal cancer (CRC). We aimed to investigate the frequency of chemotherapyinduced amenorrhea (CIA) in premenopausal women diagnosed with CRC and treated with adjuvant chemotherapy.?

Methods - Tools : Pre-menopausal women younger than 50 years and diagnosed with with nonmetastatic CRC were included from 4 oncology clinics in Ankara, Turkey. Data were obtained directly from patients at follow-up visits or patient files. Analyses were made separately for those older and younger than 40 years. Patients who received pelvic radiotherapy were excluded.

Findings : Data of 60 women were eligible. Forty-nine patients had received adjuvant chemotherapy. Median age was 40 years. Twenty seven were <40 years and 33 were >40 years. Patient characteristics are showed in Table 1. Chemotherapy induced persistent amenorrhea 1 year after completion of chemotherapy was observed in 0/23 women (0%) younger than 40 years and in 10/26 women (38%) >40 years (p=0.004). Median age of women who experienced persistent amenorrhea was 48.2 (min 43 – max 50). After median follow up of 8 years, 4 of 11 (36%) untreated patients and 22 of 49 (45%) treated patients became post-menopausal (p=0.74).

Discussion : Although the patient number is small, we did not observe any case of CIA in women younger than 40 years and treated with fluoropyrimidine or oxaliplatin-based regimens. Older age seems to be the major risk factor for persistent CIA after chemotherapy in patients with CRC.

	<40 years (n=27)	>40 years (n=33)	p
Age (median)	34	45	<0,001
stage I II III	3 16 5	3 <mark>1</mark> 8 8	0,84
Smoking	7	7	
BMI >25	10	17	0,26
Chemotherapy regimen None Floropyrimidine oxaliplatin- based		7 <mark>1</mark> 1 15	0,69

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