

ESOPHAGEAL AND ESOPHAGOGASTRIC JUNCTION CANCER TREATMENT REGIMENS (Part 1 of 3)

The selection, dosing, and administration of anticancer agents and the management of associated toxicities are complex. Drug dose modifications and schedule and initiation of supportive care interventions are often necessary because of expected toxicities and because of individual patient variability, prior treatment, and comorbidities. Thus, the optimal delivery of anticancer agents requires a healthcare delivery team experienced in the use of such agents and the management of associated toxicities in patients with cancer. The cancer treatment regimens below may include both FDA-approved and unapproved uses/regimens and are provided as references only to the latest treatment strategies. Clinicians must choose and verify treatment options based on the individual patient.

NOTE: GREY SHADED BOXES CONTAIN UPDATED REGIMENS.

General treatment notes: In response to the shortage of leucovorin, the FDA recently approved levoleucovorin (Fusilev) to be used in place of leucovorin when 5-FU is part of the regimen. Levoleucovorin 200mg/m² is the equivalent of leucovorin 400mg/m².¹

REGIMEN	DOSING
Preoperative and Postoperative Chemotherapy (Only for Adenocarcinoma of the Distal Esophagus or Esophagogastric Junction)	
ECF (epirubicin [Elice] + cisplatin [Platinol; CDDP] + 5-fluorouracil [5-FU]) ¹⁻³	Days 1: Epirubicin 50mg/m ² IV bolus + cisplatin 60mg/m ² IV. Days 1-21: 5-FU 200mg/m ² IV continuous infusion over 24 hours daily. Repeat cycle every 3 weeks for 3 cycles preoperatively and 3 cycles postoperatively. NOTE: Modified regimens substituting oxaliplatin and/or capecitabine are also acceptable.
Preoperative Chemoradiation	
Cisplatin + 5-FU ^{1,4} NOTE: Category 1	Days 1 and 29: Cisplatin 75-100mg/m ² IV. Day 1-4 and 29-32: 5-FU 750-1,000mg/m ² IV continuous infusion over 24 hrs.
Cisplatin + capecitabine ^{1,5}	Day 1: Cisplatin 30mg/m ² IV. Days 1-5: Capecitabine 800mg/m ² orally twice daily. Repeat cycle weekly for 5 weeks.
Oxaliplatin + 5-FU ^{1,6}	Days 1, 15, and 29: Oxaliplatin 85mg/m ² IV. Days 1-33: 5-FU 180mg/m ² IV.
Oxaliplatin + 5-FU ^{1,7}	Days 1, 8, 15, 22, and 29: Oxaliplatin 45mg/m ² IV. Days 1-33: 5-FU 225mg/m ² IV continuous infusion over 24 hrs.
Oxaliplatin + capecitabine ^{1,8}	Days 1, 15, and 29: Oxaliplatin 85mg/m ² IV. Days 1-5: Capecitabine 625mg/m ² orally twice daily for 5 weeks.
Paclitaxel + carboplatin ^{1,9,10} NOTE: Category 1	Day 1: Paclitaxel 50mg/m ² IV + carboplatin AUC 2 IV. Repeat weekly for 5 weeks.
Paclitaxel + cisplatin ^{1,7}	Days 1, 8, 15, and 22: Paclitaxel 60mg/m ² IV. Day 1: Cisplatin 75mg/m ² IV. Given for 1 cycle.
Definitive Chemoradiation (Non-surgical)	
Cisplatin + 5-FU ¹¹ NOTE: Category 1	Day 1: Cisplatin 75-100mg/m ² IV. Days 1-4: 5-FU 750-1,000mg/m ² /day continuous IV infusion. Repeat cycle every 4 weeks for 2-4 cycles for 2 cycles with radiation followed by 2 cycles without radiation.
Cisplatin + capecitabine ^{1,5}	Day 1: Cisplatin 30mg/m ² IV. Days 1-5: Capecitabine 800mg/m ² orally twice daily. Repeat cycle weekly for 5 weeks.
Paclitaxel + cisplatin ^{1,7}	Days 1, 8, 15, and 22: Paclitaxel 60mg/m ² IV. Day 1: Cisplatin 75mg/m ² IV. Given for 1 cycle.
Docetaxel + cisplatin ^{1,12}	Days 1 and 22: Docetaxel 60mg/m ² IV. Days 1 and 22: Cisplatin 60-80mg/m ² IV. Given for 1 cycle.
Oxaliplatin + capecitabine ^{1,8}	Days 1, 15, and 29: Oxaliplatin 85mg/m ² IV. Days 1-5: Capecitabine 625mg/m ² orally twice daily for 5 weeks.
Oxaliplatin + 5-FU ^{1,6,13}	Days 1, 8, 15, 22, and 29: Oxaliplatin 45-50mg/m ² IV. Days 1-33: 5-FU 225mg/m ² IV continuous infusion over 24 hrs, daily.OR..... Days 1, 15, and 29: Oxaliplatin 85mg/m ² IV. Days 1-33: 5-FU 180mg/m ² IV daily.

continued

ESOPHAGEAL AND ESOPHAGOGASTRIC JUNCTION CANCER TREATMENT REGIMENS (Part 2 of 3)

REGIMEN	DOSING
Postoperative Chemoradiation (Only for Adenocarcinoma or Gastroesophageal Junction)	
5-FU + leucovorin ^{1,14}	<p>Days 1-5: 5-FU 425mg/m²/day IV and leucovorin 20mg/m²/day IV, followed by chemoradiotherapy beginning 4 weeks after the start of the initial cycle of chemotherapy.</p> <p>Chemoradiotherapy: 4,500cGy of radiation at 180cGy/day, 5 days/week for 5 weeks, with 5-FU 400mg/m²/day IV and leucovorin 20mg/m²/day IV on the first 4 and the last 3 days of radiotherapy.</p> <p>At 1 month following completion of radiotherapy, two 5-day cycles of 5-FU 425mg/m²/day IV and leucovorin 20mg/m²/day IV; given 1 month apart.</p>
Metastatic or Locally Advanced Cancer (Where Chemoradiation is Not Indicated)	
DCF (docetaxel + cisplatin + 5-FU) ^{1,15}	<p>Day 1: Docetaxel 75mg/m² IV + cisplatin 75mg/m² IV.</p> <p>Days 1-5: 5-FU 750mg/m²/day IV.</p> <p>Repeat cycle every 3 weeks.</p> <p style="text-align: center;">..... OR</p> <p>Day 1: Docetaxel 75mg/m² IV + cisplatin 75mg/m² IV.</p> <p>Days 1-5: 5-FU 1,000mg/m² IV continuous infusion over 24 hrs, daily.</p> <p>Repeat cycle every 4 weeks.</p>
Modified DCF (docetaxel + leucovorin + cisplatin + 5-FU) ^{1,16}	<p>Day 1: Docetaxel 40mg/m² IV + leucovorin 400mg/m² IV + 5-FU 400mg/m² IV, plus</p> <p>Days 1 and 2: 5-FU 1,000mg/m² IV continuous infusion over 24 hrs (total 2,000mg/m²), followed by</p> <p>Day 3: Cisplatin 40mg/m² IV.</p> <p>Repeat cycle every 2 weeks.</p>
Modified DCF (docetaxel + oxaliplatin + 5-FU) ^{1,17}	<p>Day 1: Docetaxel 50mg/m².</p> <p>Day 1: Oxaliplatin 85mg/m².</p> <p>Days 1 and 2: 5-FU 1,200mg/m² IV continuous infusion.</p> <p>Repeat cycle every 2 weeks.</p>
Cisplatin + leucovorin + 5-FU ^{1,18} NOTE: Category 1	<p>Day 1: Cisplatin 50mg/m² IV.</p> <p>Day 1: Leucovorin 200mg/m² IV.</p> <p>Day 1: 5-FU 2,000mg/m² IV continuous infusion over 24 hrs.</p> <p>Repeat cycle every 2 weeks.</p>
Cisplatin + capecitabine ^{1,19}	<p>Day 1: Cisplatin 80mg/m² IV.</p> <p>Day 1-14: Capecitabine 1,000mg/m² orally twice daily.</p> <p>Repeat cycle every 3 weeks.</p>
ECF (epirubicin + cisplatin + 5-FU) ^{1,3,20}	<p>5-FU 200mg/m²/day as continuous IV infusion using a portable pump for up to 6 months, plus Epirubicin 50mg/m² IV and cisplatin 60mg/m² IV infusion given as an inpatient procedure every 3 weeks for max 8 cycles.</p> <p style="text-align: center;">..... OR</p> <p>Day 1: Epirubicin 50mg/m² IV bolus and cisplatin 60mg/m² IV, plus</p> <p>Days 1-21: 5-FU 200mg/m²/day IV.</p> <p>Repeat cycle every 3 weeks for max 8 cycles.</p>
ECX (epirubicin + cisplatin + capecitabine [Xeloda]) ^{1,3}	<p>Day 1: Epirubicin 50mg/m² IV bolus and cisplatin 60mg/m² IV, plus</p> <p>Days 1-21: Capecitabine 625mg/m² orally twice daily.</p> <p>Repeat cycle every 3 weeks for max 8 cycles.</p>
EOF (epirubicin + oxaliplatin + 5-FU) ^{1,3}	<p>Day 1: Epirubicin 50mg/m² IV bolus and oxaliplatin 130mg/m² IV, plus</p> <p>Days 1-21: 5-FU 200mg/m²/day IV.</p> <p>Repeat cycle every 3 weeks for max 8 cycles.</p>
EOX (epirubicin + oxaliplatin + capecitabine) ^{1,3}	<p>Day 1: Epirubicin 50mg/m² IV bolus and oxaliplatin 130mg/m² IV, plus</p> <p>Days 1-21: Capecitabine 625mg/m² orally twice daily.</p> <p>Repeat cycle every 3 weeks for max 8 cycles.</p>
Trastuzumab (Herceptin) + capecitabine/cisplatin OR 5-FU/cisplatin ^{1,21} NOTE: For HER2-neu overexpressing adenocarcinoma.	<p>Day 1: Trastuzumab 8mg/kg IV loading dose (Cycle 1 only); followed by trastuzumab 6mg/kg IV every 3 weeks, plus chemotherapy (see below).</p> <p>Chemotherapy</p> <p>Day 1: Cisplatin 80mg/m² IV, plus</p> <p>Days 1-14: Capecitabine 1,000mg/m² orally twice daily OR</p> <p>Days 1-5: 5-FU 800mg/m² continuous IV infusion.</p> <p>Repeat cycle every 3 weeks for 6 cycles.</p>

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