

FOLFIRINOX modified adjuvant – local funding required

INDICATION (ICD10) C25

1. Adjuvant pancreatic cancer. PS 0, 1 (unlicensed) - local funding required

REGIMEN

Day 1 Premedication: Atropine 250mcg subcutaneously 30 minutes prior to treatment

IRINOTECAN 150mg/m² in 250ml sodium chloride 0.9% (or licensed dose volume)

IV infusion over 30 minutes

CALCIUM LEVOFOLINATE 175mg in glucose 5% infusion over 2 hours concurrently

with oxaliplatin via a Y site placed immediately before the injection site

OXALIPLATIN 85mg/m² in 250ml* glucose 5% IV infusion over 2 hours

FLUOROURACIL 2400mg/m² continuous IV infusion over 46 hours

NB Calcium levofolinate is not the same as calcium folinate (calcium leucovorin). Calcium levofolinate is a single isomer of folinic acid and the dose is generally half that of calcium folinate. If calcium levofolinate is not available calcium folinate (leucovorin) may be used instead.

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 14 days for 12 cycles (review after 4 cycles)

ANTI-EMETICS

Highly emetogenic day 1 Low emetogenic risk day 2

CONCURRENT MEDICATION REQUIRED

Fluorouracil	Mouth and bowel support eg_Loperamide, benzydamine mouthwash
Irinotecan	Ensure premedication atropine given 30 minutes prior to treatment
Oxaliplatin	Flush with glucose 5% before and after infusion
GCSF	Consider adding GCSF if delays / neutropenic sepsis.

EXTRAVASATION AND TYPE OF LINE / FILTERS

Fluorouracil – inflammitant Irinotecan - irritant Oxaliplatin – exfoliant

Central line (single lumen)

INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E and LFTs every cycle

Neutrophils x $10^9/L \ge 1.5 (1.0-1.5 \text{ discuss with consultant})$

Platelets x 10⁹/L ≥100 (75-100 discuss with consultant)

Serum creatinine

ECG (possible ECHO) required if patient has preexisting cardiac disease

DPD test

Baseline weight and every cycle

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^{*}oxaliplatin doses 225mg to 395mg in 500ml glucose 5%



MAIN TOXICITES AND ADVERSE REACTIONS

Fluorouracil	Palmar plantar (handfoot syndrome) causing red palms and soles – treat with pyridoxine 50mg tds Diarrhoea – treat with loperamide or codeine Cardiotoxicity – monitor cardiac function. Special attention is advisable in treating patients with a history of heart disease, arrhythmias or angina pectoris or those who develop chest pain during treatment with fluorouracil. Stomatitis
Irinotecan	Acute cholinergic syndrome (including diarrhea and delayed diarrhoea, abdominal pain, hypotension, dizziness, malaise, increased salivation). Drink large volumes of fluid containing electrolytes and an appropriate antidiarrhoeal therapy - loperamide 4mg initially then 2mg every 2 hours, continuing for 12 hours after the last liquid stool (maximum of 48 hours in total).
Oxaliplatin	Peripheral sensory neuropathy and laryngeal spasm – avoid cold drinks and touching cold items

INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS (not exhaustive list check SPC/BNF/Stockleys)

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Fluorouracil	Cimetidine slightly increases exposure to fluorouracil
	Metronidazole increased toxicity
	Phenytoin concentration increased
	Warfarin
Irinotecan	Aprepitant and fosaprepitant increases exposure to irinotecan.
	Carbamazepine decreases exposure to irinotecan, avoid.
	Enzalutamide, mitotane, phenobarbitone, phenytoin, primidone and
	rifampicin decreases exposure to irinotecan, avoid.

DOSE MODIFICATIONS

Haematological

If neutrophils $<1.5x10^9/L$ or platelets $<100x10^9/L$ delay 1 week, only treat when neutrophils and platelets are above these limits.

If >1 delay or 1 delay ≥2 weeks reduce doses to give 80% for future cycles. A further dose reduction may be made at the Clinician's discretion.

Non-haematological

Irinotecan

If patients suffer from severe diarrhoea, which required IV rehydration or neutropenic fever, consider reduction in subsequent cycles, discuss with SpR or Consultant.

Oxaliplatin

If patients develop acute laryngopharyngeal dysaesthesia infuse the next cycle over 4 hours.

If symptoms persist give 80% dose.

If persistent sensory symptoms occur, withdraw treatment

Hepatic impairment

Fluorouracil

Significantly impaired hepatic function eg bilirubin >50micromol/L may be a sign of disease progression and require cessation of, or change in, treatment. Always discuss deteriorating liver function with consultant.

Bilirubin >85micromol/L not recommended	Bilirubin >85micromol/L	
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Irinotecan

Bilirubin 1.5-3xULN	weekly FBC
Bilirubin >3xULN	not recommended

Renal impairment Fluourouracil

CrCl >30ml/min	give 100% dose
CrCl <30ml/min	consider dose reduction

Oxaliplatin

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	CrCl>30ml/min	give 100% dose	
	CrCl <30ml/min	Dose reduce (consider 50% of original dose)	

REFERENCES

1. ACCORD trial