

## STREPTOZOCIN CAPECITABINE

### INDICATION (ICD10) M-8246/3

1. Metastatic neuroendocrine carcinoma (unlicensed indication) PS 0, 1, 2

#### REGIMEN

Day 1 Prehydration sodium chloride 1000ml 0.9% IV infusion over 2 hours

STREPTOZOCIN\* 1000mg/m<sup>2</sup> in 250ml sodium chloride 0.9% IV infusion over

1 hour

Days 1 to 21 CAPECITABINE 625mg/m<sup>2</sup> twice daily (1250mg/m<sup>2</sup>/day) oral

#### CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for 6 cycles (can be continued if well tolerated)

#### **ADMINISTRATION**

Tablets should be taken 12 hours apart.

Swallow with water within 30 minutes after a meal, or dissolve in 200ml luke warm water, stir thoroughly (squash may be added if unpalatable).

#### **ANTI-EMETICS**

High risk day 1 Low risk days 2 to 21

## **CONCURRENT MEDICATION REQUIRED**

Capecitabine	Mouth and bowel support eg_Loperamide, benzydamine mouthwash
Streptozocin	Ensure adequate hydration.

## **EXTRAVASATION AND TYPE OF LINE / FILTERS**

Streptozocin - vesicant

Peripheral line

# **INVESTIGATIONS**

Blood results required before SACT administration FBC, U&E and LFTs every cycle Neutrophils x 10<sup>9</sup>/L ≥1.5 Platelets x 10<sup>9</sup>/L ≥100 Serum creatinine - GFR each cycle DPD test

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<sup>\*</sup>Named patient medicine



# MAIN TOXICITES AND ADVERSE REACTIONS

Capecitabine	Palmar plantar (handfoot syndrome) causing red palms and soles – treat with pyridoxine 50mg tds Diarrhoea – treat with loperamide or codeine Cardiotoxicity – monitor cardiac function. To minimise risk of anthracycline induced cardiac failure signs of cardiotoxicity e.g. cardiac arrhythmias, pericardial effusion, tachycardia with fatigue. All patients should be told to report any cardiac symptoms immediately and should be told to stop the medication immediately if any suspicion of cardiac problems.  Stomatitis
Streptozocin	Burning along veins during rapid infusion Severe hyperglycaemia. Monitor BMs if signs of hyperglycaemia occur. Associated with renal tubule toxicity, hepatotoxicity and anaemia. Renal toxicity

# INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

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Capecitabine	Brivudine and analogues should be avoided				
	Warfarin and caution with all oral anticoagulants				
	Phenytoin				
	Allopurinol				
Streptozocin	Many interactions, check carefully				

# **DOSE MODIFICATIONS**

# Haematological

Neutrophils <1.5x10<sup>9</sup>/I or Platelets <100x10<sup>9</sup>/I Delay treatment for 1 week.

Repeat FBC. If recovered, restart capecitabine, using dose adjustment guidelines below, according to worst grade of haematological toxicity recorded.

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## Non-haematological

Capecitabine

Dose limiting toxicities include diarrhoea, abdominal pain, nausea, stomatitis and handfoot syndrome.

Toxicity can be managed by symptomatic treatment and/or modification of the dose (treatment interruption or dose reduction).

Once the dose has been reduced it should not be increased at a later time.

When capecitabine is stopped for toxicity, the doses are omitted and not delayed.

Toxicity Grades	Dose changes within a treatment cycle	Dose adjustment for next cycle/dose (% of starting dose)
Grade 2 - 1st appearance	Interrupt until resolved to grade 0-1	100%
Grade 2 - 2nd appearance	Interrupt until resolved to grade 0-1	75%
Grade 2 - 3rd appearance	Interrupt until resolved to grade 0-1	50%
Grade 2 - 4th appearance	Discontinue treatment permanently	Not applicable
Grade 3 - 1st appearance	Interrupt until resolved to grade 0-1	75%
Grade 3 - 2nd appearance	Interrupt until resolved to grade 0-1	50%
Grade 3 - 3rd appearance	Discontinue treatment permanently	Not applicable
Grade 4 - 1st appearance	Discontinue permanently OR if physician deems it to be in the patient's best interest to continue, interrupt until resolved to grade 0-1	50%
Grade 4 - 2nd appearance	Discontinue treatment permanently	Not applicable

# **Hepatic impairment**

Capecitabine

Bilirubin of >3xULN or	Interrupt Capecitabine
ALT/AST >2.5xULN	Treatment may be resumed when bilirubin decreases to <3xULN or
	hepatic aminotransferases decrease to <2.5xULN.

# Renal impairment

Capecitabine

CrCl >50ml/min	give 100% dose	
CrCl 30-50ml/min	give 75% dose	
CrCl <30ml/min	contraindicated	

Streptozocin

CrCl >60ml/min	give 100% dose		
CrCl 46-60ml/min	give 50% dose		
CrCl 31-45ml/min	Evaluation of risk / benefit		
CrCl <30ml/min	contraindicated		

#### **REFERENCES**

- 1. NET01 regimen
- 2. Eriksson. B., Oberg. K. 1993 An update of medical treatment of malignant endocrine pancreatic tumours. Acta Oncol. 32: 203-208

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