

Regimen Reference Order

GAST – trifluridine-tipiracil (LONSURF) (gastric-GEJ)

ARIA: GAST - [LONSURF (gastric - GEJ)]

Planned Course: Until disease progression or unacceptable toxicity (1 cycle = 28 days)
Indication for Use: Gastric or Gastroesophageal Junction Cancer; Locally Advanced/Metastatic

Proceed with treatment if:

- **ANC equal to or greater than $1.5 \times 10^9/L$ AND Platelets equal to or greater than $75 \times 10^9/L$**
- **Creatinine clearance equal to or greater than 30 mL/minute**
- **Total bilirubin equal to or less than 1.5 times the upper limit of normal**
- ❖ **Contact Physician if parameters not met**

SEQUENCE OF MEDICATION ADMINISTRATION

Treatment Regimen – GAST – trifluridine-tipiracil (LONSURF) (gastric-GEJ)

Drug	Dose	CCMB Administration Guideline
trifluridine-tipiracil* (LONSURF®)	35 mg/m ² ; maximum dose 80 mg (based on trifluridine component)	Orally twice daily on Days 1 to 5 and Days 8 to 12 Must be taken with a glass of water within 1 hour after completion of morning and evening meals Swallow whole (Self-administered at home)

***See Appendix A – Dosing tables for trifluridine-tipiracil (LONSURF®)**

trifluridine-tipiracil (LONSURF®) available dosages strengths: 20 mg/8.19 mg and 15 mg/6.14 mg tablets
 Classification: Cytotoxic, Hazardous

REQUIRED MONITORING

Baseline and prior to each cycle

- CBC, serum creatinine and total bilirubin as per Physician Orders

Baseline and as clinically indicated

- Urine protein
 - Urinalysis for protein: Where urinalysis is not possible, use dipstick. If lab urinalysis for protein is greater than or equal to 1 g/L or dipstick proteinuria shows 2+ or 3+, notify prescriber

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
prochlorperazine	10 mg	Orally every 6 hours as needed for nausea and vomiting

INSTRUCTIONS FOR PATIENT

- Instruct patient to continue taking anti-emetic(s) at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of trifluridine-tipiracil

ADDITIONAL INFORMATION

- trifluridine-tipiracil is also known as brand name LONSURF®
- trifluridine-tipiracil tablet contains two drugs in one dosage form. Note that the ARIA agent name for LONSURF® is “**trifluridine-tipiracil**”
- trifluridine-tipiracil doses are calculated according to the trifluridine component of the combination tablet
- Doses must not exceed 80 mg per dose based on trifluridine component
- Because trifluridine-tipiracil is only available in two strengths, there is limited flexibility to delivering the appropriate daily dose. See Appendix A – *Dosing tables for trifluridine-tipiracil (LONSURF®)*
- trifluridine-tipiracil dose interruptions and/or reductions may be required for toxicity

Appendix A

Dosing tables for trifluridine-tipiracil (LONSURF®) (adapted from LONSURF® Product Monograph)

While the Medical Oncology Manager (ARIA®) application is used for order entry and a specific regimen for GAST – trifluridine-tipiracil (LONSURF®) (gastric-GEJ) is available, the dosing instructions for this regimen are too complex to build into the ARIA-based regimen. Manual calculation and manual entry of the dosing instructions (e.g. number and strength of tablets per dose) may be required. The tables below outline required tablets per dose according to dose intensity and patient body surface area (BSA). Please note that the dose is calculated using the trifluridine component of the combination tablet.

Starting dose:

trifluridine/tipiracil dose (twice daily)	BSA (m ²)	Dosage in mg (twice daily)	Total daily dose (mg)	Tablets per dose	
				15 mg as trifluridine	20 mg as trifluridine
35 mg/m ² (trifluridine component)	Less than 1.07	35	70	1	1
	1.07-1.22	40	80	0	2
	1.23-1.37	45	90	3	0
	1.38-1.52	50	100	2	1
	1.53-1.68	55	110	1	2
	1.69-1.83	60	120	0	3
	1.84-1.98	65	130	3	1
	1.99-2.14	70	140	2	2
	2.15-2.29	75	150	1	3
	2.30 and greater	80	160	0	4

Level 1 Dose Reduction:

trifluridine/tipiracil dose (twice daily)	BSA (m ²)	Dosage in mg (twice daily)	Total daily dose (mg)	Tablets per dose	
				15 mg as trifluridine	20 mg as trifluridine
30 mg/m ² (trifluridine component)	Less than 1.09	30	60	2	0
	1.09-1.24	35	70	1	1
	1.25-1.39	40	80	0	2
	1.40-1.54	45	90	3	0
	1.55-1.69	50	100	2	1
	1.70-1.94	55	110	1	2
	1.95-2.09	60	120	0	3
	2.10-2.28	65	130	3	1
	2.29 and greater	70	140	2	2

Level 2 Dose Reduction:

trifluridine/tipiracil dose (twice daily)	BSA (m ²)	Dosage in mg (twice daily)	Total daily dose (mg)	Tablets per dose	
				15 mg as trifluridine	20 mg as trifluridine
25 mg/m² (trifluridine component)	Less than 1.10	25*	50*	2 (PM)*	1 (AM)*
	1.10-1.29	30	60	2	0
	1.30-1.49	35	70	1	1
	1.50-1.69	40	80	0	2
	1.70-1.89	45	90	3	0
	1.90-2.09	50	100	2	1
	2.10-2.29	55	110	1	2
	2.30 and greater	60	120	0	3

*For a total daily dose of 50 mg, take one 20 mg tablet in the morning and two 15 mg tablets in the evening

Level 3 Dose Reduction:

trifluridine/tipiracil dose (twice daily)	BSA (m ²)	Dosage in mg (twice daily)	Total daily dose (mg)	Tablets per dose	
				15 mg as trifluridine	20 mg as trifluridine
20 mg/m² (trifluridine component)	Less than 1.14	20	40	0	1
	1.14-1.34	25*	50*	2 (PM)*	1 (AM)*
	1.35-1.59	30	60	2	0
	1.60-1.94	35	70	1	1
	1.95-2.09	40	80	0	2
	2.10-2.34	45	90	3	0
	2.35 and greater	50	100	2	1

*For a total daily dose of 50 mg, take one 20 mg tablet in the morning and two 15 mg tablets in the evening