

Skin Pathway Group – Gemcitabine in Cutaneous T-cell Lymphoma

- Indication:
- Primary Cutaneous T cell Lymphoma and its variants:
- Mycosis Fungoides Stage IIb to IVb
 - Sezary Syndrome
 - Primary Cutaneous Peripheral T cell Lymphoma NOS
 - Adult T cell Leukaemia/Lymphoma (HTLV1) (in combination with AZT and interferon)
 - Subcutaneous panniculitis-like T cell Lymphoma (gamma/delta variant)
 - Primary cutaneous Peripheral T cell Lymphoma, unspecified
 - Primary cutaneous aggressive epidermotropic CD8 T cell lymphoma
 - Cutaneous Gamma Delta Lymphoma

Gemcitabine is not licensed for these indications, and therefore use should be in line with individual Trust governance process

Regimen details: Gemcitabine 1000mg/m² IV Day 1, Day 8, Day 15

Dose can be increased to 1200mg/m² in patients who have not received previous chemotherapy

Concomitant Bexarotene:

In some patients with Mycosis Fungoides, Bexarotene is initiated at the same time as Gemcitabine or continued in attempt to prolong the duration of response to chemotherapy.

For details of doses, monitoring and ongoing treatment with Bexarotene, see separate protocol for Bexarotene

Administration: Gemcitabine in 250-500ml Sodium Chloride 0.9% IV over 30 min

Frequency: Every 28 days, for a total of 4 to 6 cycles

Pre-medication: Not routinely required

Version: 1.0 Supersedes: all other versions	Approved by LCA Skin Pathway Chemotherapy Lead: Mark Harries
Reason for Update: LCA Protocol Development	Approved by LCA Joint Delivery Subgroup Co-Chairs: Pauline McCalla & Rebecca Johl
Prepared by: Ravi Shaunak	Approved by LCA Medicines & Chemotherapy Steering Group Chair:
Second check by: Sanna Eestila	Date prepared: January 2015 Review Date: January 2017
<p>Disclaimer: The Joint Delivery Chemotherapy Nurse/Oncology Pharmacist Group is a sub-group of the Medicines & Chemotherapy Steering Group (MCSG) working within the London Cancer Alliance Integrated Cancer System (LCA). The output of the LCA MCSG includes documentation that can be adopted by healthcare organisations at their discretion. It is the responsibility of each individual organisation to ensure that appropriate governance and safety clearance procedures within their own clinical service have been followed prior to implementation of any such pieces of work. LCA assume no responsibility for this process within individual organisations, and no responsibility for the clinical management of individual patients or patient groups. Any clinical queries regarding individual patients or documentation should be directed to the relevant clinical team within the most appropriate healthcare organisation.</p> <p>©LCA Copyright 2014</p>	

Haematological Toxicity

Neutrophils (x 10 ⁹ /L)		Platelets (x 10 ⁹ /L)	Gemcitabine Dose
> 1.0	&	> 100	Give full dose
0.5 – 1.0	or	50 - 100	Give 75% dose or delay, based on clinical assessment
< 0.5	or	< 50	Delay for 1 week / Omit

Non-haematological Toxicities

Renal Impairment

Creatinine Clearance (ml/min)	Gemcitabine Dose
> 30	Give 100%
< 30	Consider dose reduction. Discuss with Consultant

Hepatic Impairment

Use with caution in the presence of hepatic dysfunction. Administration of Gemcitabine in patients with liver metastases or a pre-existing medical history of hepatitis, alcoholism, or liver cirrhosis may lead to exacerbation of the underlying hepatic insufficiency.

Hepatic dysfunction	Gemcitabine dose
If bilirubin > 27 µmol/L	Initiate treatment with Gemcitabine 800mg/m ²
Bilirubin > 30µmol/L or ALT/ALP > 3 X ULN (> 5 x ULN if liver metastases are present)	Treatment should be deferred unless approved by Consultant. These patients are at high risk of potentially fatal sepsis

DOSE MODIFICATIONS FOR OTHER TOXICITIES

NON – HAEMATOLOGICAL TOXICITY

Grade 1 or 2 toxicity	No dose reduction of Gemcitabine, unless this toxicity significantly affects the patient’s quality of life. Discuss with Consultant
Grade 3 or 4 toxicity	Restart Gemcitabine at 50% dose. This is a permanent dose reduction
Recurrent Grade 3 or 4 toxicity despite dose reduction	Discontinue treatment

Dose reductions should not be performed for alopecia or nausea and/or vomiting that are not treated with aggressive anti-emetic support

Location of regimen Day case setting

Version: 1.0 Supersedes: all other versions	Approved by LCA Skin Pathway Chemotherapy Lead: Mark Harries
Reason for Update: LCA Protocol Development	Approved by LCA Joint Delivery Subgroup Co-Chairs: Pauline McCalla & Rebecca Johl
Prepared by: Ravi Shaunak	Approved by LCA Medicines & Chemotherapy Steering Group Chair:
Second check by: Sanna Eestila	Date prepared: January 2015 Review Date: January 2017

Disclaimer: The Joint Delivery Chemotherapy Nurse/Oncology Pharmacist Group is a sub-group of the Medicines & Chemotherapy Steering Group (MCSG) working within the London Cancer Alliance Integrated Cancer System (LCA). The output of the LCA MCSG includes documentation that can be adopted by healthcare organisations at their discretion. It is the responsibility of each individual organisation to ensure that appropriate governance and safety clearance procedures within their own clinical service have been followed prior to implementation of any such pieces of work. LCA assume no responsibility for this process within individual organisations, and no responsibility for the clinical management of individual patients or patient groups. Any clinical queries regarding individual patients or documentation should be directed to the relevant clinical team within the most appropriate healthcare organisation.
©LCA Copyright 2014

delivery:

Comments: Haemolytic anaemia – Gemcitabine
 Gemcitabine should be discontinued at the first signs of any evidence of micro-angiopathic haemolytic anaemia, such as rapidly falling haemoglobin with concomitant thrombocytopenia, elevation of serum bilirubin, serum creatinine, blood urea nitrogen, or LDH, which may indicate development of haemolytic uraemic syndrome. Renal failure may not be reversible, even with discontinuation of therapy, and dialysis may be required

Drug interactions: Gemcitabine is radiosensitizer
 Warfarin : increased anticoagulant effect of warfarin

References: www.medicines.org.uk
 Marchi E et al. Phase II study. *Cancer* 2005;104(11):2437-41
 Zinzani PL et al. *J Clin Oncol.* 2000;18(13):2603-6
 Gemcitabine. *Cancerbackup.* February 2009

Version: 1.0 Supersedes: all other versions	Approved by LCA Skin Pathway Chemotherapy Lead: Mark Harries
Reason for Update: LCA Protocol Development	Approved by LCA Joint Delivery Subgroup Co-Chairs: Pauline McCalla & Rebecca Johl
Prepared by: Ravi Shaunak	Approved by LCA Medicines & Chemotherapy Steering Group Chair:
Second check by: Sanna Eestila	Date prepared: January 2015 Review Date: January 2017
<p>Disclaimer: The Joint Delivery Chemotherapy Nurse/Oncology Pharmacist Group is a sub-group of the Medicines & Chemotherapy Steering Group (MCSG) working within the London Cancer Alliance Integrated Cancer System (LCA). The output of the LCA MCSG includes documentation that can be adopted by healthcare organisations at their discretion. It is the responsibility of each individual organisation to ensure that appropriate governance and safety clearance procedures within their own clinical service have been followed prior to implementation of any such pieces of work. LCA assume no responsibility for this process within individual organisations, and no responsibility for the clinical management of individual patients or patient groups. Any clinical queries regarding individual patients or documentation should be directed to the relevant clinical team within the most appropriate healthcare organisation.</p> <p>©LCA Copyright 2014</p>	