



Serplulimab, CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	HSE approved reimbursement status*
In combination with CARBOplatin and etoposide for the first-line treatment	C34	00908a	N/A
of adult patients with extensive-stage small cell lung cancer (ES-SCLC).			

^{*} This applies to post 2012 indications

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Induction phase: Serplulimab and CARBOplatin are administered on day 1 and etoposide is administered on Days 1, 2 and 3 of a 21 day cycle, for 4 cycles unless the patient experiences disease progression or unacceptable toxicity.

Maintenance phase: The induction phase is followed by a maintenance phase without chemotherapy during which serplulimab is administered every 3 weeks unless the patient experiences disease progression or unacceptable toxicity.

Facilities to treat anaphylaxis MUST be present when systemic anti-cancer therapy (SACT) is administered.

There are different formulations available for etoposide. Please refer to Tables 2 below that outline the alternative treatment schedule.

Table 1: Treatment Schedule for Serplulimab, CARBOplatin and Etoposide (IV)

Admin Order	Day	Drug	Dose	Route	Diluent & Rate	Cycle
1	1	Serplulimab	4.5mg/kg	IV infusion	250ml NaCl 0.9% over 100mL/hour ^{a,b} using a sterile, non-pyrogenic, low-protein binding 0.2-5.0 micron in-line or add-on filter	Every 21 days
2	1	CARBOplatin	AUC 5	IV infusion	500mL Glucose 5% over 30 minutes	Every 21 days for 4 cycles only
3	1,2,3	Etoposide	100mg/m ²	IV infusion*	1000mL NaCl 0.9% over 60 minutes	Every 21 days for 4 cycles only

^aThe initial infusion rate should be set up to 100mL per hour. If the first infusion is well tolerated, all subsequent infusions may be given over 30 minutes (+/- 10 minutes). The infusion rate can be adjusted if infusion-related reactions occur.

Note: Administration volumes and fluids have been standardised to facilitate electronic prescribing system builds.

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 1 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer

bThe final concentration should between 1mg/mL and 8 mg/mL

^{*}See alternative treatment schedule for Etoposide PO below (Table 2).





ALTERNATIVE TREATMENT SCHEDULE

Table 2: Alternate Treatment Schedule for Serplulimab, CARBOplatin and Etoposide (IV & PO)

Admin.	Day	Drug	Dose	Route	Diluent & Rate	Cycle
Order						
1	1	Serplulimab	4.5mg/kg	IV infusion	250ml NaCl 0.9% over 100mL/hour ^{a,b} using a sterile, non-pyrogenic, low-protein binding 0.2-5.0 micron in-line or add-on filter	Every 21 days
2	1	CARBOplatin	AUC 5	IV infusion	500mL Glucose 5% over 30 minutes	Every 21 days for 4 cycles only
3	1	Etoposide	100mg/m ²	IV infusion*	1000mL NaCl 0.9% over 60 minutes	Every 21 days for 4 cycles only
1	2, 3	Etoposide ^c	100mg/m ² twice daily	РО		Every 21 days for 4 cycles only

^aThe initial infusion rate should be set up to 100mL per hour. If the first infusion is well tolerated, all subsequent infusions may be given over 30 minutes (+/- 10 minutes). The infusion rate can be adjusted if infusion-related reactions occur.

Note: Administration volumes and fluids have been standardised to facilitate electronic prescribing system builds.

CARBOplatin dose:

The dose in mg of CARBOplatin to be administered is calculated as follows:

Dose (mg) = target AUC (mg/mL x minute) x (GFR mL/minute +25)

- Measured GFR (e.g. nuclear renogram) is preferred whenever feasible
- Estimation of GFR may be performed using the Wright formula to estimate GFR or the Cockcroft and Gault formula to estimate creatinine clearance
- The GFR used to calculate the AUC dosing should not exceed 125mL/minute
- For obese patients and those with a low serum creatinine, for example, due to low body weight or post-operative asthenia, estimation using formulae may not give accurate results; measured GFR is recommended
 - where obesity (body mass index [BMI] ≥ 30 kg/m²) or overweight (BMI 25-29.9) is likely to lead to an overestimate of GFR and isotope GFR is not available the use of the adjusted ideal body weight in the Cockcroft and Gault formula may be considered
 - where serum creatinine is less than 63 micromol/L, the use of a creatinine value of 62 micromol/L or a steady pre-operative creatinine value may be considered
- These comments do not substitute for the clinical judgement of a physician experienced in prescription of CARBOplatin

WRIGHT FORMULA

There are two versions of the formula depending on how serum creatinine values are obtained, by the kinetic Jaffe method or the enzymatic method. The formula can be further adapted if covariant creatine kinase (CK) values are available (not shown).

1. SCr measured using enzymatic assay:

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 2 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer

bThe final concentration should between 1mg/mL and 8 mg/mL.

^cEtoposide is available in 50mg and 100mg capsules. The capsules should be taken on an empty stomach.





GFR (mL/minute) = $(6230 - 32.8 \times Age) \times BSA \times (1 - 0.23 \times Sex)$ SCr (micromol/minute)

2. SCr measured using Jaffe assay:

GFR (mL/minute) = $(6580 - 38.8 \times Age) \times BSA \times (1 - 0.168 \times Sex)$ SCr (micromol/minute)

Key: Sex = 1 if female, 0 if male; Age in years; BSA= DuBois BSA

COCKCROFT-GAULT FORMULA:

GFR (mL/minute) = $S \times (140 - age in years) \times weight (kg)$ serum creatinine (micromol/L)

S= 1.04 for females and 1.23 for males

ELIGIBILITY:

- Indication as above
- ECOG status 0-2
- Adequate haematological, hepatic and renal function
- Baseline ANC ≥1.5 x 10⁹/L and platelets ≥100 x 10⁹/L

CAUTIONS:

- Immunosuppressive doses of systemic corticosteroids or other immunosuppressive medication(s) (defined as >10mg prednisoLONE/daily (or steroid equivalent, excluding inhaled or topical steroids
- Untreated central nervous system (CNS) metastases
- Any active clinically significant infection requiring therapy
- Symptomatic interstitial lung disease

EXCLUSIONS:

- Information regarding prior therapy with an anti PD-1 or anti PD-L1 antibody is <u>Available on</u> the NCCP website
- Hypersensitivity to serplulimab, CARBOplatin*, etoposide or any of the excipients
- Pregnancy or breastfeeding

*If it is felt that the patient may have a major clinical benefit from CARBOplatin, it may in exceptional circumstances be feasible to rechallenge a patient with a prior mild hypersensitivity reaction e.g. using a desensitisation protocol, but only with immunology advice, premedication as advised, and a desensitisation protocol under carefully controlled conditions with resuscitation facilities available and medical and/or ITU/ HDU supervision

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m ² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 3 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist.

TESTS:

Baseline tests:

- FBC, renal and liver profile
- Blood glucose
- Thyroid function tests (TFTs)
- Isotope GFR measurement (preferred) or GFR / CrCl estimation
- Audiology referral as clinically indicated

Regular tests:

- FBC, liver, renal and glucose profile prior to each cycle
- TFTs every 3 to 6 weeks
- Lipid profile as clinically indicated
- ECG as clinically indicated
- · Cortisol as clinically indicated
- · Audiology referral as clinically indicated

Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant
- Serplulimab:
 - o Dose escalation or dose reductions are not recommended
 - Treatment may be interrupted or discontinued due to toxicity. Please refer to Table 5 below for treatment modification. Dose withholding for up to 12 weeks for tolerability is acceptable
- CARBOplatin and etoposide:
 - Dose modifications are permitted for CARBOplatin and etoposide to manage haematological toxicities and renal and hepatic impairment. Please refer to Tables 3 below.

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 4 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





Haematological:

Table 3: Dose modification of CARBOplatin and etoposide in haematological toxicity

and or pose mountained or a map platm and etoposide in national solution				
ANC (x10 ⁹ /L)		Platelets (x10 9/L)	Dose	
≥1.0	and	≥100	100%	
0.5 to <1.0	and/or	75 to <100	Delay one week until recovery	
<0.5 or neutropenic	and/or	<50	Delay and consider dose reduction for	
fever			CARBOplatin and etoposide dose by 25%	

Renal and Hepatic Impairment:

Table 4: Dose modification in renal and hepatic impairment

Drug	Renal Impairme	nt	Hepatic Impairment		
Serplulimab ^a	CrCl (mL/min)	Dose	Impairment level	Dose	
	≥30	No dose adjustment is	Mild	No dose adjustment	
		needed	Bilirubin ≤ULN and AST >	needed	
			ULN or		
			Bilirubin >1-1.5 X ULN		
			and any AST		
	<30	There is insufficient data	Moderate	No dose	
		and no dose adjustment	Bilirubin 1.5-3 X ULN	recommendation can be	
		recommendation can be	and any AST	made due to insufficient	
		made.	Severe	data available	
			Bilirubin > 3 X ULN and		
			any AST		
CARBOplatin ^b	See note below	*	No dose modification required		
Etoposide ^c	CrCl (mL/min)	Dose	Hepatic impairment		
	>50	No dose adjustment is	Bilirubin < 50 μmol/L	No need for dose	
		needed	and	adjustment is expected	
			normal albumin and		
			normal renal function		
	10-50	75% of the original dose,	Bilirubin ≥ 50 μmol/L or	Consider 50% of the	
		increase if tolerated	Decreased albumin	dose, increase if	
	Haemodialysis	Not dialysed, consider	levels	tolerated	
		75% of the original dose			
^a Serplulimab (rer	nal and hepatic – Sn	nPC)			

^bRenal dysfunction and CARBOplatin:

- Patients with creatinine clearance (CrCl) values of <60mL/minute are at greater risk of developing myelosuppression
- If GFR between 20 to ≤ 30mL/minute, CARBOplatin should be administered with extreme caution
- If GFR ≤ 20mL/minute, CARBOplatin should not be administered at all

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 5 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer

^bCARBOplatin (renal and hepatic – NCCP standardisation)

^cEtoposide (renal and hepatic – Giraud et al 2023)





If Cockcroft & Gault or Wright formula are used, the dose should be calculated as required per cycle based on a serum creatinine obtained within 48 hours of drug administration
 If isotope GFR is used, the dose can remain the same provided the serum creatinine is ≤110% of its value at the time of the isotope measurement. If the serum creatinine increases, consideration should be given to remeasuring the GFR or to estimating it using Cockcroft & Gault or Wright formulae.

Management of adverse events:

Table 5: Dose Modification of serplulimab for Adverse Events (CTCAE v5.0)

Grade 2	Withhold until adverse reactions recover or improve to Grade 1	
Grade 3 or 4 or recurrent Grade 2	Permanently discontinue	
Grade 2 or 3	Withhold until adverse reactions recover or improve to Grade 1	
Grade 4 or recurrent Grade 3	Permanently discontinue	
Grade 2 with AST or ALT > 3 to 5 times ULN, or total bilirubin > 1.5 to 3 times ULN Grade 3 or 4 with AST or ALT > 5 times ULN	Withhold until adverse reactions recover or improve to Grade 1 Permanently discontinue	
,	remailently discontinue	
Grade 2 elevation of serum creatinine	Withhold until adverse reactions recover or improve to Grade 1	
Grade 3 or 4 elevation of serum creatinine	Permanently discontinue	
Symptomatic Grade 2 or 3 hypothyroidism, Grade 2 or 3 hyperthyroidism, Grade 2 or 3 hypophysitis, Grade 2 adrenal insufficiency, Grade 3 hyperglycaemia or type 1 diabetes mellitus Grade 4 hypothyroidism Grade 4 hypophysitis	Withhold until symptoms resolve and management with corticosteroids is complete. Treatment should be continued in the presence of hormone replacement therapy as long as no symptoms are present Permanently discontinue	
Grade 3 or 4 adrenal insufficiency Grade 4 hyperglycaemia		
Grade 3	Withhold until adverse reactions recover or improve to Grade 1	
Grade 4 Stevens Johnson Syndrome (SJS) or toxic epidermal necrolysis (TEN)	Permanently discontinue	
Grade 3 or 4 elevation of serum amylase or lipase Grade 2 or 3 pancreatitis Grade 2 myocarditis** Grade 2 or 3 other immune-mediated adverse reactions occurred for the first time	Withhold until adverse reactions recover or improve to Grade 1	
	Grade 3 or 4 or recurrent Grade 2 Grade 2 or 3 Grade 4 or recurrent Grade 3 Grade 2 with AST or ALT > 3 to 5 times ULN, or total bilirubin > 1.5 to 3 times ULN Grade 3 or 4 with AST or ALT > 5 times ULN, or total bilirubin > 3 times ULN Grade 2 elevation of serum creatinine Grade 2 or 3 hypothyroidism, Grade 2 or 3 hypothyroidism, Grade 2 or 3 hypophysitis, Grade 2 or 3 hypophysitis, Grade 2 adrenal insufficiency, Grade 3 hyperglycaemia or type 1 diabetes mellitus Grade 4 hypothyroidism Grade 4 hypothyroidism Grade 4 hypophysitis Grade 3 or 4 adrenal insufficiency Grade 3 or 4 adrenal insufficiency Grade 3 or 4 elevation of serum amylase or lipase Grade 2 or 3 pancreatitis Grade 2 myocarditis** Grade 2 or 3 other immune-mediated	

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m ² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 6 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





	(thrombocytopenia) or white blood cell count Grade 4 pancreatitis or recurrent pancreatitis of any grade Grade 3 or 4 myocarditis Grade 3 or 4 encephalitis Grade 4 other immune-related adverse reactions occurred for the first time Grade 4 or recurrent Grade 3 decreased platelet count (thrombocytopenia) or white blood cell count	Permanently discontinue
Infusion-related reactions	Grade 1 Grade 2	Patients with Grade 1 infusion-related reactions may continue administration under close monitoring. The rate of infusion should be reduced, or treatment should be interrupted in patients with Grade 2 infusion-related reactions. Antipyretic and antihistamines may be considered. Treatment with serplulimab may be resumed under close monitoring when Grade 2 infusion-related reactions are controlled.
	Grade 3 or 4	For Grade ≥ 3 infusion-related reactions, infusion should be stopped immediately, treatment should be permanently discontinued, and appropriate treatment should be given.

^{*} Serplulimab must be permanently discontinued for any Grade 3 immune-related adverse reaction that recurs and for any Grade

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

 As outlined in NCCP Classification Document for Systemic AntiCancer Therapy (SACT) Induced Nausea and Vomiting Available on the NCCP website

Serplulimab: Minimal (Refer to local policy)
CARBOplatin: High (Refer to local policy)
Etoposide: Low (Refer to local policy)

For information:

Within NCIS regimens, antiemetics have been standardised by the Medical Oncologists and Haemato-oncologists and information is available in the following documents:

- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Medical Oncology) Available on the NCCP website
- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Haemato-oncology) <u>Available on the NCCP website</u>

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 7 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer

⁴ immune-mediated adverse reactions, except for endocrinopathies that are controlled with replacement hormones

^{**} The safety of retreatment with serplulimab in patients who experienced immune-related myocarditis is not clear.





PREMEDICATIONS:

None usually required unless patient has experienced a previous hypersensitivity reaction

OTHER SUPPORTIVE CARE:

• Women of childbearing potential should use effective contraception during treatment and for at least 6 months after the last dose of serplulimab.

ADVERSE EFFECTS:

- Please refer to the relevant Summary of Product Characteristics (SmPC) for details
- Serplulimab is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.

DRUG INTERACTIONS:

• Current SmPC and drug interaction databases should be consulted for information.

REFERENCES:

- 1. Cheng Y, Han L, Wu L, et al. Effect of First-Line Serplulimab vs Placebo Added to Chemotherapy on Survival in Patients With Extensive-Stage Small Cell Lung Cancer: The ASTRUM-005 Randomized Clinical Trial. *JAMA*. 2022;328(12):1223–1232. doi:10.1001/jama.2022.16464
- 2. Appropriate chemotherapy dosing for obese adult patients with cancer: American Society of Clinical Oncology Clinical Practice Guideline. J Clin Oncol 2012; 30 (13) 1553-1561.
- 3. Ekhart C, Rodenhuis S et al. CARBOplatin dosing in overweight and obese patients with normal renal function, does weight matter? Cancer Chemother Pharmacol 2009; 64:115-122.
- 4. NCCN CARBOplatin dosing in adults. Available at: https://www.nccn.org/docs/default-source/clinical/order-templates/appendix b.pdf?sfvrsn=6286822e 6.
- 5. Wright JG, Boddy AV, et al, Estimation of glomerular filtration rate in cancer patients. British Journal of Cancer 2001; 84(4):452-459
- 6. Giraud E L, Lijster B D, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment: an update. Available at: https://pubmed.ncbi.nlm.nih.gov/37269847/
- 7. NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V6 2025. Available at: https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classification-document-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf
- 8. Serplulimab (Hetronifly®) Summary of product characteristics. Accessed 03/07/2025. Available at: https://www.ema.europa.eu/en/documents/product-information/hetronifly-epar-product-information_en.pdf
- CARBOplatin Summary of product characteristics. Accessed 07/07/2025. Available at: https://assets.hpra.ie/products/Human/28088/Licence PA2059-032-001 02072024153224.pdf
- 10. Etoposide Summary of product characteristics. Accessed 07/07/2025. Available at: https://assets.hpra.ie/products/Human/27660/Licence PA2315-201-001 13032024133422.pdf

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 8 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





Version	Date	Amendment	Approved By
1	08/08/2025		Prof Maccon Keane

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

NCCP Regimen: Serplulimab CARBOplatin AUC5 and Etoposide 100mg/m² – 21 Day Therapy	Published: 08/08/2025 Review: 08/08/2026	Version number: 1
Tumour Group: Lung NCCP Regimen Code: 00908	ISMO Contributor: Prof Maccon Keane	Page 9 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer