Linezolid(oral): supporting information for prescribing in primary care

This supporting information is intended for GPs where a course of oral linezolid has been recommended following consultation with a microbiologist for patients in primary care. The information below is provided to inform and support prescribing decisions, for detailed prescribing information please refer to the <u>BNF</u> and the <u>Summary of Product Characteristics</u> for Zyvox®. For a summary of abbreviations used please refer to page 2.

	Line zelid (Zurvev® T). Overelidine ne entitle steriel
Drug/Therapeutic Class	Linezolid (Zyvox®▼): Oxazolidinone antibacterial
Initiation	BNF recommends that linezolid should only be initiated under expert
initiation	
	supervision. The manufacturer of Zyvox®▼ recommends that linezolid
	should only be initiated in a hospital environment and after consultation
	with a relevant specialist such as a microbiologist or infectious disease
1	specialist.
Licensed	Pneumonia, complicated SSTIs caused by G+ve bacteria. In NHS
Indications/dose	Surrey linezolid is considered a RED drug for complicated pneumonia
& length of	and complicated SSTIs at all Acute Trusts (also refer to 'Exclusions for
treatment	primary care' below).
	Dose (adults):Oral: 600mg every 12 hours usually for 10-14 days
	(max. 28 days).
	For primary care the HPA recommends linezolid (3 rd line) for SSTIs if
	PVL is likely to be MRSA (on advice of microbiologist/hospital)- see
	'Supporting Guidance for Primary Care' below. Dose: 600mg twice
0	daily for 5-7 days.
Spectrum of	Active against G+ve including MRSA & VRE
activity	Not active against G-ve's.
Formulations &	Tablets (600mg).Cost £ 445/10 tablets;
Cost (£)	Suspension (100mg/5ml); Intravenous (IV) infusion (2mg/ml)
Supporting	HPA: Diagnosis and Management of PVL-Staphylococcus aureus
Guidance for	Infections; Quick Reference Guide (QRG) for Primary Care (2009),
Primary Care	recommends linezolid (3 rd line) for SSTIs if PVL is likely to be MRSA
HPA QRG 2009	(on advice of microbiologist/ hospital).
HPA QRG 2009	Susceptibility testing: Sensitivity to linezolid should be confirmed by
	susceptibility testing.
Exclusions for	Linezolid is Not recommended in primary care for the following
primary care	indications/circumstances:
	Pneumonia
	 Severe SSTI with systemic symptoms
	Share-cared
	• IV courses
	 Treatment courses exceeding 28 days (as there is a higher
	incidence of optic neuropathy reported)
Monitoring	Full blood count (including platelet count) in those patients requiring
	more than 7 days treatment. Total duration of treatment <u>not</u> to exceed
	28 days.
Drug & food	Linezolid is a reversible non-selective monoamine oxidase inhibitor
interactions	(MAOI): patients should avoid large quantities of tyramiine-rich food
	including certain alcoholic beverages.
	Drug interactions: linezolid should not be given with another MAOI or
	within 2 weeks of stopping another MAOI. Unless close observation &
	blood pressure monitoring is possible, avoid with SSRI's, triptans,
	TCA's, sympathomimetics. dompaminergics, buspirone, pethidine and
	possibly other opioid anlagaesics. For further info refer to BNF/SPC
Patient	Patient should be advised to ensure they read the Patient Information
information	Leaflet (PIL) provided with Zyvox ®▼, particularly with regard to the
	information on taking the product with other medicines, food and drink.

For detailed information on linezolid, including prescribing in pregnancy, liver and renal impairment refer to BNF/SPC. For a summary of CHM (Committee of Human Medicines) advice on optic neuropathy and information on blood disorders and the requirements for close monitoring refer to BNF.

<u>Secondary/primary care interface</u>: It was agreed at the NHS Surrey Medicines Commissioning Group (MCG) in February 2012 that where the drug is initiated by a secondary care clinician, GPs should not be requested to prescribe the remainder of the course (which is likely to be over the 28 max. period advised by the manufacturer).

Key for abbreviations/symbols used:

▼: The black triangle symbol identifies products which are monitored intensively by the MHRA (Medicines and Healthcare Products Regulatory Agency)

G+ve: Gram positive [bacteria]

G-ve: Gram-negative[bacteria]

MRSA: Meticillin-resistant Staphylococcus aureus

PVL: Panton-Valentine Leukocidin (PVL) is a toxin produced by less than 2% of *S. Aureus* (SA), including MRSA. PVL-SA causes recurrent skin and soft tissue infections, but can also cause invasive infections, including necrotising haemorrhagic pneumonia in otherwise healthy young people in the community.

SSTI: Soft tissue and skin Infection(s)

VRE: Vancomycin resistant enterococci

References and addional sources of information:

- 1) BNF (British National Formulary) 62, September 2011
- 2) Zyvox®▼ Summary of Product Characteristics (SPC); Date of revision of the text:9/7/2011 Ref: ZY 15_0 UK. <u>http://www.medicines.org.uk/EMC/medicine/9857/SPC/Zyvox+600+mg+Film-Coated+Tablets%2c+100+mg+5+ml+Granules+for+Oral+Suspension%2c+2+mg+ml+Solution+for+Infusion/</u> Accessed 8/3/2012
- 3) Patient Information Leaflet (PIL): Zyvox®▼ film-coated tablets: <u>http://www.medicines.org.uk/EMC/medicine/7921/PIL/Zyvox+600+mg+Film-Coated+Tablets/</u> Accessed 13/3/2012
- Health Protection Agency (HPA) guidance Diagnosis and management of PVL-SA Infections Quick Reference Guide; Produced 18th May 2009, For review December 2010: 2
- 5) Drug Safety Update: Vol 1, Issue 1, August 2007: Linezolid: restriction of indication.: http://www.mhra.gov.uk/Publications/Safetyguidance/DrugSafetyUpdate/CON 2031802 Accessed 14/3/2012
- 6) Healthcare Professional letter (Pfeizer) Important Safety Information [Linezolid] 28th February 2007 <u>http://www.mhra.gov.uk/home/groups/pl-</u> p/documents/websiteresources/con2030646.pdf Accessed 14/3/2012