

South East London Integrated Medicines Optimisation Committee Formulary recommendation

Reference	143
Intervention:	Doxepin, agomelatine and vortioxetine for the pharmacological management of co-
	morbid insomnia in adults
	Doxepin is an antidepressant with adrenergic activity
	Agomelatine is an antidepressant and melatonin receptor agonist Vortioxetine is an antidepressant
Date of Decision	March 2023, updated October 2025 following updates to SEL co-morbid insomnia
	pathway
Date of Issue:	April 2023,re-issued October 2025
	RED – suitable for prescribing and supply by the specialist Sleep Centre at Guy's and
Recommendation:	ou momuo mie roundumen mase (com jeung
Further Information	Doxepin, agomelatine and vortioxetine are accepted for use in South East London for
	the pharmacological management of co-morbid insomnia in adults
	Co-morbid insomnia is a sleep disorder believed to arise as a result of another
	condition such as anxiety, depression, sleep apnoea, gastroesophageal reflux disease
	 (GERD), or physical pain The use of doxepin, agomelatine and vortioxetine are for the pharmacological
	management of co-morbid insomnia in adults should be prescribed in line with the co-
	morbid insomnia treatment pathway
	The initiation of doxepin, agomelatine and vortioxetine is restricted to the specialist
	Sleep Centre at Guy's and St. Thomas' NHS Foundation Trust team <u>and</u> only after a
	Sleep Centre multidisciplinary team discussion
	Cognitive Behaviour Therapy for Insomnia (CBT-I) is recommended as the first line
	non-pharmacological treatment for acute and long-term insomnia in adults where
	 available and appropriate. Melatonin M/R (licensed indication) and daridorexant are both considered equal first
	line pharmacological treatment options for patients with chronic insomnia. See the
	SEL adult Joint Medicines Formulary for further information.
	Melatonin M/R (off-label), trazadone, mirtazapine and quetiapine are second line
	pharmacological treatment options for the management of co-morbid insomnia. See
	formulary recommendation 142 and the co-morbid insomnia treatment pathway for
	further information.
	Doxepin, agomelatine and vortioxetine are also second line pharmacological
	treatment options for the management of co-morbid insomnia <u>only after</u> a Sleep Centre multidisciplinary team discussion, the following should be noted before initiation
	of doxepin, agomelatine and vortioxetine:
	- Doxepin is not licensed for use in this setting (off-label use) in patients without co-
	morbid depression. Informed consent should be gained from the patient before off-
	label treatment with doxepin is started.
	- Agomelatine and vortioxetine should only be prescribed in patients with co-morbid
	depression. This use is in line with the product licence.
	Patients should be reviewed by the specialist sleep centre 3 to 6 months after initiating treatment with devening against and vertice and vertice and vertice.
	 treatment with doxepin, agomelatine and vortioxetine. Further information can be found in the <u>co-morbid insomnia pathway</u> and <u>formulary</u>
	recommendation 142.
Shared Care/	N/A
Transfer of	
care required:	



The following cost impact is based on assumptions that 35% of the total patients from the **Cost Impact for** agreed sleep centre are from SEL and that treatment is long term: patient group • **Doxepin**: Based on approximately 15 - 25 patients per annum eligible for treatment, estimated costs for SEL are £10,000 per annum (<£1,000 per 100,000 population) • Agomelatine: Based on approximately 15 - 25 patients per annum eligible for treatment, estimated costs for SEL are £4,000 per annum (negligible cost per 100,000 population) • Vortioxetine: Based on approximately 15 - 25 patients per annum eligible for treatment, estimated costs for SEL are £3,000 per annum (negligible cost per 100,000 population) **Usage Monitoring & Acute Trusts:** Impact Assessment Monitor and audit usage of doxepin, agomelatine and vortioxetine as agreed and report back to the Committee (against this recommendation) upon request of the Committee SEL Borough Medicines Teams: Monitor exception reports from GPs if inappropriate prescribing requests are made to primary care References (from evidence review) **Evidence reviewed** 1. Edmonds C, Swanoski M. A Review of Suvorexant, Doxepin, Ramelteon, and Tasimelteon for the Treatment of Insomnia in Geriatric Patients. The Consultant Pharmacist, March 2017 VOL. 32, NO. 3 p156-160. 2. Silenor (Doxepin), FDA label. Available here online [Accessed 29/06/2021] 3. Yueng W, Chung K, Yung K et al. Doxepin for insomnia: A systematic review of randomized placebo-controlled trials. Sleep Medicine Reviews 19 (2015) p75-83. 4. Krystal A, Durrence H, Scharf M et al. Efficacy and safety of doxepin 1 mg and 3 mg in a 12-week sleep laboratory and outpatient trial of elderly subjects with chronic primary insomnia. Sleep 2010;33(11):1553-61. 5. Krystal A, Lankford A, Durrence H et al. Efficacy and safety of doxepin 3 and 6 mg in a 35-day sleep laboratory trial in adults with chronic primary insomnia. Sleep 2011:34(10):1433-42. 6. Lankford A, Rogowski R, Essink B et al. Efficacy and safety of doxepin 6 mg in a four week outpatient trial of elderly adults with chronic primary insomnia. Sleep Medicine 2012;13(2):133-8. 7. Rios Romenets S, Creti L, Fichten C et al. Doxepin and cognitive behavioural therapy for insomnia in patients with Parkinson's disease: a randomised study. Parkinsonism & Related Disorders 2013;19(7):670-5. 8. Valdoxan (agomelatine). Summary of Product Characteristics. Available here [Accessed 04/07/2021] 9. Mi W, Tabarak S, Wang L et al. Effects of agomelatine and mirtazapine on sleep disturbances in major depressive disorder: evidence from polysomnographic and restingstate functional connectivity analyses. Sleep 2020 doi: 10.1093/sleep/zsaa092 10. Altınyazar V, Kiylioglu N. Insomnia and dementia: is agomelatine treatment helpful? Case report and review of the literature. Ther Adv Psychopharmacol 2016, Vol. 6(4) 263-268. 11. Brintellix (vortioxetine). Summary of product characteristics. Available here [Accessed

NOTES:

04/07/2021]

a) SEL IMOC recommendations and minutes are available publicly via the website.

analysis. Br J Clin Pharmacol (2019) 85 240-244.

b) This SEL IMOC recommendation has been made on the cost effectiveness, patient outcome and safety data available at the time. The recommendation will be subject to review if new data becomes available, costs are higher than expected or new NICE guidelines or technology appraisals are issued.

12. NICE TA367 - Vortioxetine for treating major depressive episodes

13. Liguori C, Ferini-Strambi L, Izzi F et al. Preliminary evidence that vortioxetine may

improve sleep quality in depressed patients with insomnia: a retrospective questionnaire

c) Not to be used for commercial or marketing purposes. Strictly for use within the NHS.