

South East London Integrated Medicines Optimisation Committee Formulary recommendation

Reference	153
Intervention:	Cytisine (cytisinicline) 1.5mg tablets for smoking cessation in adults
	(The active ingredient of cytisine is a plant alkaloid with a chemical structure similar to
	nicotine)
Date of Decision:	November 2024
Date of Issue:	December 2024
	GREEN – can be prescribed within agreed criteria for use in primary or
Recommendation	secondary care. Prescribers in primary care may also wish to liaise with
	local borough smoking cessation services.
Further	Cytisine is licensed for smoking cessation and reduction of nicotine cravings in
Information:	smokers who are willing to stop smoking.
iiii oi iii dadoii.	Cytisine 1.5mg tablets are accepted for use in SEL as a treatment option for
	smoking cessation in adults aged 18 to 65 years old.
	Cytisine tablets can be considered as a first line treatment option when treating
	nicotine withdrawal and cravings alongside other pharmacotherapies listed in the
	SEL Adult Joint Medicines Formulary
	 Prescribing should be in line with its licence as a single 25 day course. Smoking
	should be stopped no later than on the 5th day of treatment.
	Prescribing should be in line with the tobacco dependence treatment pathway
	contained within the SEL Chronic Obstructive Pulmonary Disease (COPD)
	Guideline*.
	Patients must be counselled on the treatment schedule for cytisine.
	• Due to limited clinical experience, cytisine is not recommended for use in patients
	over 65 years of age.
	Further information on cytisine 1.5mg tablets, including side-effects, cautions and contraindications, can be found in the summers of product characteristics (SPC).
	contraindications, can be found in the <u>summary of product characteristics (SPC)</u> .
	 The formulary application submitted for cytisine was supported by the six local authorities in South East London (as the commissioners of community smoking
	cessation services).
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	Note: At the time of approval, updates to include cytisine for smoking cessation within
	the NICE guideline for tobacco dependence (NG209) are in development. This
	recommendation will be reviewed following publication of the updated NICE guideline.
	*An update of the SEL COPD Guideline is in progress at time of writing; these updates
	will also reflect this formulary recommendation.
Shared Care/	N/A
Transfer of care document	N/A
required:	
Cost Impact for	It is estimated that approximately 900 patients engaged with stop smoking services
agreed patient	in SEL will be eligible for cytisine.
group	 This equates to a cost impact of approximately £106,000 per annum (~£5,000 per
	100,000 population). A course of treatment with cytisine is less costly vs. treatment
	with combination nicotine replacement therapy (NRT) and varenicline. Equivalent
	costs would be £232,944 for NRT and £125,828 for varenicline.
	Overall, the availability of cytisine would support local and national programmes to
	reduce the tobacco dependence and the significant associated cost burden to both
	the NHS and social care, for example respiratory disease, cardiovascular disease
	and cancer.
	Acute Trusts/community smoking cessation services



Usage Monitoring	Acute Trusts to monitor use and submit usage data and audit reports upon request
& Impact	to the Committee.
Assessment	SEL Borough Medicines Teams
	Community smoking cessation services are commissioned by local authorities (LA).
Usage Monitoring	Borough Medicines teams should work with their LA leads to monitor use locally.
& Impact	Monitor ePACT2 data for primary care prescribing trends.
Assessment	Exception reports from GPs if inappropriate prescribing requests are made to
continued	primary care.
Evidence reviewed	References (from evidence evaluation):
L VIGCIIOC ICVICWCG	1. Phusahat P, Dilokthornsakul P, Boonsawat W et al. Efficacy and Safety of Cytisine in Combination with
	a Community Pharmacists' Counselling for Smoking Cessation in Thailand: A Randomized Double-
	Blinded Placebo-Controlled Trial. Int. J. Environ. Res. Public Health 2022, 19, 13358.
	2. Smoking and tobacco: applying All Our Health: Guidance. UK Health Security Agency 2022. Available
	online here (accessed 20/9/2024).
	3. Fingertips, Department for Health and Social Care. Available online here (accessed 20/09/2024).
	4. NG209: Tobacco: preventing uptake, promoting quitting and treating dependence. National Institute for
	Health and Care Excellence 2023.
	5. Cytisine. Summary of Product Characteristics. Available online here (accessed 08/10/2024).
	6. Livingstone-Banks J, Fanshawe T, Thomas K et al. Nicotine receptor partial agonists for smoking
	cessation (Review). Cochrane Database of Systematic Reviews 2023
	7. Lindson N, Theodoulou A, Ordóñez-Mena J et al. Pharmacological and electronic cigarette
	interventions for smoking cessation in adults: component network meta-analyses (Review). Cochrane
	Database of Systematic Reviews 2023
	8. Ofori S, Lu C, Olasupo O et al. Cytisine for smoking cessation: A systematic review and meta-analysis. Drug and Alcohol Dependence 2023 251 110936
	Oreskovic T, Percac-Lima S, Ashburner J et al. Cytisine Versus Varenicline for Smoking Cessation in a
	Primary Care Setting: A Randomized Non-inferiority Trial. Nicotine and Tobacco Research, 2023, 25,
	1547–1555.
	10. Rigotti N, Benowitz N, Prochaska J et al. Cytisinicline for Smoking Cessation A Randomized Clinical
	Trial. JAMA 2023 330 (2) p152-160.
	11. Pastorino U, Ladisa V, Trussardo S et al. Cytisine Therapy Improved Smoking Cessation in the
	Randomized Screening and Multiple Intervention on Lung Epidemics Lung Cancer Screening Trial.
	Journal of Thoracic Oncology 2022 17 (11) p1276-1286.
	12. Tindle H, Freiberg M, Cheng D et al. Effectiveness of Varenicline and Cytisine for Alcohol Use
	Reduction Among People With HIV and Substance Use A Randomized Clinical Trial. JAMA Network
	Open 2022 5 (8) e2225129
	13. Phusahat P, Dilokthornsakul P, Boonsawat W et al. Efficacy and Safety of Cytisine in Combination with
	a Community Pharmacists' Counselling for Smoking Cessation in Thailand: A Randomized Double-
	Blinded Placebo-Controlled Trial. Int. J. Environ. Res. Public Health 2022, 19(20), 13358.
	14. Tavakoli-Ardakania Sani Z, Beyraghi N et al. Comparison between cytisine and Nicotine Replacement
	Therapy in smoking cessation among inpatient psychiatric patients. Addictive Diseases 2023
	doi.org/10.1080/10550887.2023.2237395

NOTES:

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

Health Technology Assessment, No. 18.33 May 2014

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.

15. De Santo O, Orellana M, Di Niro C et al. Evaluation of the effectiveness of cytisine for the treatment of smoking cessation: A systematic review and meta-analysis. Addiction 2023 doi.org/10.1111/add.16399
16. Leaviss J, Sullivan S, Ren S et al. What is the clinical effectiveness and cost-effectiveness of cytisine compared with varenicline for smoking cessation? A systematic review and economic evaluation.

17. Cystinicline (cytisine). All Wales Medicines Therapeutics and Toxicology Centre, July 2024

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