

South East London Integrated Medicines Optimisation Committee Formulary recommendation

Reference	102
Intervention:	Naloxone nasal spray 1.8mg (Nyxoid™) for the immediate emergency
	treatment of known or suspected opioid overdose
Date of Decision	(Naloxone is an opioid antagonist) April 2019, updated June 2021 to extend time limited approval to June 2022,
Date of Decision	updated November 2023 following report on outcome data - time limit to the
	approval removed
Date of Issue:	May 2019, re-issued July 2021, re-issued January 2024
Recommendation:	
	 Naloxone nasal spray (Nyxoid ™) is approved for use in South East London (SEL)
Further Information	within its licensed indication as an option for the immediate emergency treatment of
	known or suspected opioid overdose. Treatment is intended for use in adults and
	adolescents aged 14 years and over
	 Committee members acknowledged the complexities in service provision as
	addiction services are commissioned through local authorities, therefore service
	providers vary across SEL.
	The local authorities in SEL who commission addiction services from the formulary applicant have provided their support for the application
	applicant have provided their support for the application.
	The addiction service must ensure appropriate education and training of service
	users/carers on the proper use of naloxone nasal spray. This includes use of the
	educational risk minimisation materials
	All prescribing and supply will be carried out by the addiction service.
	• The applicant confirmed that an original pack containing 2 single dose nasal spray
	containers will be issued to the service user. The applicant also confirmed that
	service users /carers are educated to call an ambulance immediately and it is
	therefore very unusual for a service user to use more than 1-2 doses.
	• November 2023: In May 2019 the Committee approved the inclusion of Nyxoid [™] in
	the formulary for a time limited period to enable use to be piloted in selected
	services. The Committee requested a report summarising outcomes with the use of
	Nyxoid™ in this setting following the original formulary approval. Progress with the
	pilots was delayed due to external factors such as the COVID-19 pandemic. A report
	outlining the total number of patients initiated on treatment at two sites, the rationale
	for choosing Nyxoid™, and outcomes & safety data was presented in November
	2023. The outcome data report found patient experience was positive. Service users
	are given a choice of treatment options, and many opt for Nyxoid™ as they find it
	easier to use. Staff within the services have found the intranasal formulation is more
	acceptable to external agencies and it is a preferred route with family members and
	non-clinical staff vs. intramuscular naloxone.
Shared Care/	
Transfer of	N/A
care required:	. There are surrently just over 1,000 clients in the applicant's enigid substitution convice
Cost Impact for agreed	• There are currently just over 1,000 clients in the applicant's opioid substitution service
patient group	and approximately 10% of these would be considered for the pilot.
	• The cost of Nyxoid [™] is £27.50 (exc. VAT) for 2 spray containers vs. £18.00 for
	Prenoxad (naloxone 400 micrograms injection), which contains up to 5 doses.
	• It is difficult to predict the overall budget impact as it is not clear what the average
	number of doses required in an overdose might be and what the rate of further supply
	is, therefore the calculation below is unlikely to be accurate as several assumptions

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	have been made.
	 Assumptions in calculation (based on ~100 service users receiving naloxone nasal
	spray over the course of the pilot):
	 Service users are given one pack of Nyxoid[®] (2 single dose sprays) on initiation or
	1 Prenoxad [®] .
	 Over a 1 year period the mean rate of further supplies is 0.8 for Nyxoid[™], and 0.4 for Prenoxad[®] (based on data from Madah-Amiri et al² where 277/433 (64%) clients used the device within an 18 month period, and Robertson et al¹⁰ where readministration requirements were 34% for intranasal and 18% for IM naloxone).
	 Use of naloxone nasal spray in the pilot would cost approximately £5K vs. £2.5K for intramuscular naloxone, i.e. an additional cost of ~£2,500.
	• This does not include service related savings, for example, better adherence from
	service users in carrying their naloxone.
Usage Monitoring &	Addiction services:
Impact Assessment	Monitor and audit usage of naloxone nasal spray (against criteria in this recommendation) and report back to the Committee upon request of the Committee
	SEL Borough Medicines Teams:
	Monitor ePACT 2 data
	Monitor exception reports from GPs if inappropriate transfer of prescribing to
	primary care is requested.
Evidence reviewed	References (from evidence evaluation December 2018)
	 Nyxoid – European Public Assessment Report. European Medicines Agency, September 2017. Madah-Amiri D, Clausen T, Lobmaier P. Rapid widespread distribution of intranasal naloxone for overdose prevention. Drug and Alcohol Dependence 2017 173 p17-23 Nyxoid. Summary of Product Characteristics. Available <u>here</u> (accessed 30/03/2019). Preventing fatal overdoses: a systematic review of the effectiveness of take-home naloxone. European Monitoring Centre for Drugs and Drug Addiction 2015. Clark A et al. A systematic Review of community opioid overdose prevention and naloxone distribution programmes. J Addict Med 8 2014 DOI: 10.1097/ADM.0000000034 McDonald R, Lorch U, Woodward J et al. Pharmacokinetics of concentrated naloxone nasal spray for
	 opioid overdose reversal: Phase I healthy volunteer study. Addition 2017 113 p484-493. 7. Kelly A et al. Randomised trial of intranasal versus intramuscular naloxone in pre-hospital treatment for suspected opioid overdose. Med J. Aust. 2005 182 p24-27
	 Kerr D, Kelly A, Dietze P et al. Randomised controlled trial comparing the effectiveness and safety of intranasal and intramuscular naloxone for the treatment of suspected heroin overdose. Addiction 2009 104 p2067-2074.
	 Sabzghabaee A, Eizadimood N, Yaraghi A et al. Naloxone therapy in opioid overdose patients: intranasal or intravenous? A randomised clinical trial. Arch Med Sci 2014 10 p309-314 Robertson T, Hendey G, Stroh G et al. Intranasal naloxone is a viable alternative to intravenous
	naloxone prehospital narcotic overdose. Perhospital Emerg Care 2009 13 p512-515
	Doe-Simkins M, Walley A, Epstein A et al. Saved by the nose: Bystander administered intranasal naloxone hydrochloride for opioid overdose. Am J Public Health 2009 99 p788-791

NOTES:

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

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

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