

This patient group direction (PGD) must only be used by registered health professionals who have been named and authorised by their organisation to practice under it. The most recent and in date final signed version of the PGD should be used.

# **Patient Group Direction (PGD)**

For the administration or supply of

# Lidocaine Hydrochloride 2% (20mg/ml) injection

By registered health care professionals for

# Instillation of Lidocaine during intraosseous needle insertion in the conscious patient

Throughout the Manx Care and those contracted by the Manx Care where appropriate within practice

# **PGD NUMBER 131**

# 1. Change history

Version number	Change details	Date
1	Original PGD ratified	

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# 2. Medicines practice guideline 2: Patient group directions

Refer to the relevant sections of NICE medicines practice guideline 2: *Patient group directions* as stated in the blank template notes. For further information about PGD signatories, see the NHS and Manx Care <u>PGD website FAQs</u>

# 3. PGD development

Refer to the <u>NICE PGD competency framework for people developing PGDs</u>

Job Title & organisation	Name	Signature	Date
Author of the PGD			
Member of the PGD working group			

### 4. PGD authorisation

Refer to the NICE PGD competency framework for people authorising PGDs

Job Title	Name	Signature	Date
Medical Director			
Chief Pharmacist/ Pharmaceutical Adviser			
Senior Paramedic			
Director of Nursing			
GP Adviser			
Senior Microbiologist (if PGD contains antimicrobials)			

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# 5. PGD adoption by the provider

Refer to the <u>NICE PGD competency framework for people authorising PGDs</u>

Job title and organisation	Signature	Date	Applicable or not applicable to area

# 6. Training and competency of registered healthcare professionals, employed or contracted by the Manx Care, GP practice or Hospice

Refer to the <u>NICE PGD competency framework for health professionals using PGDs</u>

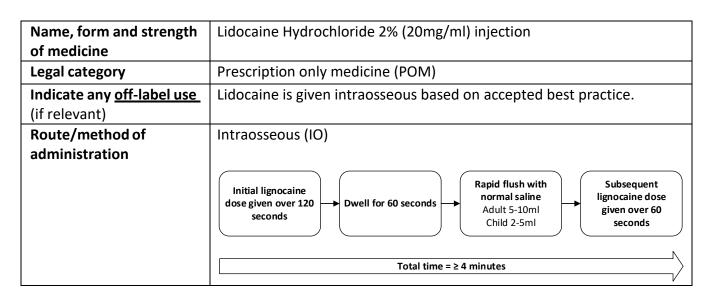
	Requirements of registered Healthcare professionals working under the PGD	
Qualifications and professional registration	<ul> <li>Registered healthcare professionals, working within or contracted by the Manx Care, GP practice or Hospice who are permitted staff groups outlined within the current PGD policy</li> <li>Pharmacists must be practising in Manx Care authorised premises i.e. contracted pharmacy premises</li> <li>Training of intraosseous access and cannulation</li> </ul>	
Initial training	<ul> <li>Knowledge of current guidelines and the administration of the drug specified in this PGD/BNF and of the inclusion and exclusion criteria</li> <li>Training which enables the practitioner to make a clinical assessment to establish the need for the medication covered by this PGD</li> <li>Local training in the use of PGDs</li> </ul>	
Competency assessment	Staff will be assessed on their knowledge of drugs and clinical assessment as part the competency framework for registered health professionals using PGDs	
Ongoing training and competency	The registered health care professionals should make sure they are aware of any changes to the recommendations for this medication; it is the responsibility of the registered health care professionals to keep up to date with continuing professional development. PGD updates will be held every two years	

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### 7. Clinical Conditions

Clinical condition or	Instillation of Lidocaine during intraosseous needle insertion in the		
situation to which this	conscious patient		
PGD applies			
Inclusion criteria	Instillation of Lidocaine during intraosseous needle insertion in the		
	conscious patient		
Exclusion criteria	Known allergy to Lidocaine		
	Child less than 1 year of age		
	Hepatic encephalopathy and hepato-renal failure		
	Porphyria		
	Other procedures within the previous 4 hours that have involved		
	lidocaine infiltration		
	Falling GCS		
Cautions (including any	Use with caution in patients who have consumed alcohol		
relevant action to be	May cause drowsiness		
taken)	May cause dizziness		
	May cause bradycardia		
Arrangements for referral	Patient should be referred to a more experienced clinical practitioner		
for medical advice	for further assessment		
Action to be taken if	Patient should be referred to a more experienced clinical practitioner		
patient excluded	for further assessment		
Action to be taken if	A verbal explanation should be given to the patient on: the need for		
patient declines	the medication and any possible effects or potential risks which		
treatment	may occur as a result of refusing treatment		
	This information must be documented in the patients' health		
	records		
	Any patient who declines care must have demonstrated capacity to		
	do so		
	Where appropriate care should be escalated		

#### 8. Details of the medicine



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Dose and frequency					
	Age	Weight (kg)	Volume of 2% (ml)		
			1ml of 2% = 20mg		
			Initial dose (ml)	Subsequent dose (ml)	
	1 year	9	0.22	0.11	
	15 months	10	0.25	0.12	
	2 years	12	0.3	0.15	
	3 years	14	0.35	0.17	
	4 years	16	0.4	0.2	
	5 years	18	0.45	0.22	
	6 years	20	0.5	0.25	
	7 years	23	0.57	0.28	
	8 years	26	0.65	0.32	
	9 years	29	0.72	0.36	
	10 years	32	0.8	0.4	
	11 years	35	0.87	0.43	
	12 years	39	0.97	0.48	
	13 years	44	1.1	0.55	
	14 years	50	1.2	0.62	
	15 years	54	1.3	0.67	
	16 years	58	1.4	0.72	
	Adult	60	1.5	0.75	
		70	1.7	0.87	
		80+	2	1	
	Suggested syringe sizes for dose to be administered			nistered	
	Lower volumes of 2% lidocaine (<1ml) may be difficult to accurately measure. The use of, or dilution to 1% lidocaine should be considered under these circumstances. Use the appropriate  Volume to be administered  0-1 ml		Suggested syringe size		
			0-1 ml	1ml	
	syringe size for the v	olume to	1-2.5ml	2.5ml	
	accuracy.	emaximum	2.5-5ml	5ml	
Quantity to be administered and/or supplied	As per dose				
Maximum or minimum treatment period	Single episode of	care			
Storage	Room temperature				
	•				

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Adverse effects	<ul> <li>Anxiety</li> <li>Arrhythmias</li> <li>Atrioventricular block</li> <li>Cardiac arrest</li> <li>Circulatory collapse</li> <li>Confusion</li> <li>Dizziness</li> <li>Drowsiness</li> <li>Euphoric mood</li> <li>Headache</li> <li>Hypotension (may lead to cardiac arrest)</li> <li>Loss of consciousness</li> <li>Methaemoglobinaemia</li> <li>Muscle twitching</li> </ul>	<ul> <li>Myocardial contractility decreased</li> <li>Nausea</li> <li>Neurological effects</li> <li>Nystagmus</li> <li>Pain</li> <li>Psychosis</li> <li>Respiratory disorders</li> <li>Seizure</li> <li>Sensation abnormal</li> <li>Temperature sensation altered</li> <li>Tinnitus</li> <li>Tremor</li> <li>Vision blurred</li> <li>Vomiting</li> </ul>	
Records to be kept	The administration of any medication given under a PGD must be recorded within the patient's medical records		

#### 9. Patient information

Verbal/Written	• Verbal information must be given to patients and or carers for all	
information to be given to	medication being administered under a PGD	
patient or carer	Where medication is being supplied under a PGD, written patient	
	information leaflet must also be supplied	
	A patient information leaflet is available on request	
Follow-up advice to be	If symptoms do not improve or worsen or you become unwell, seek	
given to patient or carer medical advice immediately		

### 10. Appendix A

### References

- 1. British National Formulary (BNF) available online: https://bnf.nice.org.uk
- 2. Teleflex available online: www.eziocomfort.com
- 3. Northern Care Alliance NHS Group IO policy (2020)
- 4. Nursing and Midwifery (2018) "The code" available online: https://www.nmc.org.uk
- 5. Current Health Care Professions Council standards of practice
- 6. General Pharmaceutical Council standards
- 7. The General Optical Council
- 8. Electronic medicines compendium available online: <a href="https://www.medicines.org.uk">https://www.medicines.org.uk</a>
- 9. Acute care coronary syndrome pathway
- 10. Northern Care Alliance NHS Group Intraosseous (IO) Access and Cannulation (2020)

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# 11. Appendix B

# Health professionals agreed to practice

- Each registered healthcare professional will hold their own Competency framework which will be signed and agreed by their mentor
- A mentor is defined within the Manx Care policy as any ward/area managers, sisters, senior nurses, GPs, pharmacists or senior paramedics who has completed the PGD training themselves

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