

GLYCERYL TRINITRATE (*Nitrolingual Pumpspray*) (B2)

(Revised: July 2019)



TYPE: Nitrate smooth muscle relaxant and vasodilator [S3]

PRESENTATION: Metered dose pumpspray – multiple patient use
400mcg/dose – 200 dose bottle

ACTIONS:

1. Arterial and venous vasodilation
2. Dilation of collateral coronary vessels

USES:	ICP	1. Relieve cardiac pain of ischaemic origin	AP
	ICP	2. Relieve pulmonary oedema	AP
	ICP	3. Management of autonomic dysreflexia	AP

ADVERSE EFFECTS:

1. Hypotension
2. Headache
3. Flushing of skin
4. Occasionally – reflex bradycardia or tachycardia

CONTRA-INDICATIONS:

1. Do not administer if systolic BP is <90mmHg
2. Do not administer if heart rate is <50/min (this does not apply to patients with autonomic dysreflexia)
3. Noting that patients of all genders are prescribed the following medications for a range of conditions:
 - a) do not administer GTN if patient has taken **sildenafil** (*Viagra*), **ildenafil** (*Levitra*) or **avanafil** (*Spedra*) within the past 24 hours
 - b) following the last dose of **tadalafil** (*Cialis*), do not administer GTN within 4 to 5 days in the elderly and those with renal impairment, or 3 to 4 days in all other patients
4. Known hypersensitivity

PRECAUTION: Be cautious in the event of suspected right ventricular ischaemia/infarct – have fluids running, and use nitrates with caution.

NOTES:

- prior to use for the first time (i.e. when the bottle is first opened), prime the pumpspray by pressing the nozzle 5 times, directing away from any person/animal
- prior to subsequent uses, prime the pumpspray by pressing the nozzle once

continues over

GLYCERYL TRINITRATE (*Nitrolingual Pumpspray*) (B2) – cont.



ADMINISTRATION:

- During administration, the patient should be sitting, so that the bottle stays vertical
- **Prior to each use**, prime the pumpspray as appropriate
- Hold the nozzle head as close to the open mouth as possible, and spray sublingually
- Instruct the patient to close mouth immediately after each dose – do not inhale or swallow
- **Following each use**, wipe down the pumpspray with an alcohol wipe (discard if significantly contaminated). Pumpspray may be used for multiple patients when maintained in this way.

DOSES:

CHEST PAIN

ADULT:

ICP	One metered dose (400mcg), sublingually. Repeat, if necessary, to a maximum of four doses. Five (5) minutes between doses. This dose is suitable for all adult patients, regardless of previous nitrate use.	AP
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PAEDIATRIC:

Not used.

ACUTE CARDIOGENIC PULMONARY OEDEMA

ADULT:

ICP	One metered dose (400mcg), sublingually. Repeat, after approximately 5 minutes, up to two times, if in severe respiratory distress (total 3 doses). This dose is suitable for all adult patients, regardless of previous nitrate use.	AP
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PAEDIATRIC:

Not used.

AUTONOMIC DYSREFLEXIA

ADULT:

ICP	One metered dose (400mcg), sublingually. If little or no effect – repeat up to two times (total 3 doses), with 5 minutes between doses, monitoring BP.	AP
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PAEDIATRIC:

Not used.