



## FENTANYL

## PHARMACOLOGY 225

### TYPE:

A lipid-soluble synthetic short acting analgesic

### ACTION:

- Potent analgesic
- Effective drug for intranasal use because it is rapidly absorbed across mucous membranes

<b>IN:</b>	Onset	2 - 3 min
	Duration	30 - 60 min

### USE:

Management of moderate to severe pain in patients aged 1 year and above

### ADVERSE EFFECTS:

- Respiratory depression
- Hypotension
- Nausea and vomiting

### CONTRAINDICATIONS:

- Altered LOC
- Patient is poorly perfused
- Previous known allergy or adverse reaction
- Bleeding nose or occluded nasal passages
- Women in labour
- Patients < 1 year of age

**NB:** Allergy to Morphine is not a contraindication to Fentanyl administration

### PREPARATION:

Fentanyl – 900mcg in 3ml

### DOSE:

Adult and paediatric doses have been calculated to incorporate the dead space of the Mucosal Atomising Device (MAD), in the first administration (spray) which is 30mcg - 0.1ml



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### ADULT

#### ROUTE OF ADMINISTRATION: IN

#### INITIAL DOSE: 180mcg or 240mcg

Depending on size of patient

To administer **180mcg** – spray in alternate nostrils

- First spray                    **0.4ml (120mcg)** – Patient receives **90mcg**
- Second spray                **0.3ml (90mcg)**

#### OR

To administer **240mcg** – spray in alternate nostrils

- First spray                    **0.4ml (120mcg)** – Patient receives **90mcg**
- Second spray                **0.3ml (90mcg)**
- Third spray                   **0.2ml (60mcg)**

#### WAIT FIVE MINUTES

#### SUBSEQUENT DOSES:

If pain remains uncontrolled, additional doses may be administered at **5** minute intervals of **0.2ml (60mcg) up to 0.4ml (120mcg)**, depending on response

**With advanced age, smaller than average size and general debility, the dosage is as followed:**

#### INITIAL DOSE: 120mcg

To administer **120mcg** – 2 sprays in alternate nostrils

- First spray                    **0.3ml (90mcg)** – Patient receives **60mcg**
- Second spray                **0.2ml (60mcg)**

**Subsequent doses: 0.2ml (60mcg) at 5 minute intervals depending on response**

NOTE – The most current version of this document is available on the ASNSW Intranet site.



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### **PAEDIATRIC**

**Patients aged 6 to 12 years the dosage is as follows:**

**INITIAL DOSE: 60mcg or 75mcg**

To administer **60mcg**

- One spray                      **0.3ml (90mcg) – Patient receives 60mcg**

To administer **75mcg**

- One spray                      **0.35ml (105mcg) – Patient receives 75mcg**

**Subsequent doses: 0.1ml (30mcg) at 5 minute intervals depending on response**

**Patients aged 1 to 5 years the dosage is as follows:**

**INITIAL DOSE: 45mcg or 60mcg**

To administer **45mcg**

- One spray                      **0.25ml (75mcg) – Patient receives 45mcg**

To administer **60mcg**

- One spray                      **0.3ml (90mcg) – Patient receives 60mcg**

**Subsequent doses: 0.1ml (30mcg) at 5 minute intervals depending on response**

**If inadequate or no response to fentanyl, morphine can be used by level 4 and 5 officers**

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