GUIDELINE RECOMMENDATIONS FOR STARTING AND INCREASING

FENTANYL PATCHES

Starting Fentanyl Patches

Is the patient **Opioid Tolerant**?

Patients are considered opioid tolerant if they are taking one of the following medications for at least 1 week

Taking 1 week or longer	Morphine 60 mg per day
	TDF 25 mcg per hour
	Oxycodone 30 mg per day
	Hydromorphone 8 mg per day
	Oxymorphone 25 mg per day
	Hydrocodone 60 mg per day
	Equianalgesic dose of another opioid

<u>Increasing Fentanyl Patches</u>

- What is the total 24-hour oral Morphine dose (MMEs)?
 - Look at use of PRN medications

Oral 24-Hr Morphine	Duragesic Dose
(mg/day)	(mcg/hr)
60-134	25
135-224	50
225-314	75
315-404	100
405-494	125
495-584	150
585-674	175
675-764	200
765-854	225
855-944	250
945-1034	275
1035-1124	300

<u>Fentanyl is Inappropriate for</u>

- Opioid naïve patients
- Patients with fever
- Patients with low body weight
- Patients with low albumin

CALCULATING MMES

1. Equianalgesic Opioid Dosing Table

Medication	Parenteral	Oral
Morphine	10	25
Codeine	100	200
Fentanyl	0.15	N/A
Hydrocodone	N/A	25
Hydromorphone	2	5
Meperidine	100	300
Oxycodone	N/A	20
Oxymorphone	1	10
Tapentadol	N/A	100
Tramadol	N/A	120

2. CDC MME Conversion Factor Table

OPIOID (doses in mg/day except where noted)	CONVERSION FACTOR	
Codeine	0.15	
Fentanyl transdermal (in mcg/hr)	2.4	
Hydrocodone	1	
Hydromorphone	4	
Methadone		
1-20 mg/day	4	
21-40 mg/day	8	
41-60 mg/day	10	
≥ 61-80 mg/day	12	
Morphine	1	
Oxycodone	1.5	
Oxymorphone	3	

Example:

Patient receiving the following medications over the last 24 hours:

- Hydromorphone 0.5 mg IV q3 prn severe pain (received 5 doses)
- Oxycodone 10 mg PO q6 prn severe pain (received 2 doses)
- Oxycodone 5 mg PO q6 prn moderate pain (received 1 dose)

How many morphine milligram equivalents (MME) has this patient received?

- 1. Convert IV to PO using equianalgesic dosing table
 - hydromorphone 0.5 mg x 5 doses = 2.5 mg IV

2.5 mg IV hydromorphone

<u> 2</u>

x = 6.25 mg PO hydromorphone

X mg PO hydromorphone

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- 2. Use Conversion Factors
 - Hydromorphone
 - Hydromorphone 6.25 mg PO x 4 = 25 MMEs

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Oxycodone

- Oxycodone 10 mg x 2 doses = 20 mg
- Oxycodone 5 mg x 1 dose = 5 mg
- o 25 mg total x 1.5 = 37.5 MMEs
- 3. Add total MMEs
 - 25 MMEs + 37.5 MMEs = **62.5 MME**