

# PHARMACOLOGY OF OPIATE ANALGESICS

EQUI-  
ANALGESIC  
DOSE (mg)

OPIATES	I.V	P.O	ONSET (I.V)	ELIMINATION- HALF LIFE	I.V INFUSION RATES	SIDE EFFECTS
FENTANYL	0.1	N/A	1-2 min	2-4 hr.	0.7 - 10µg/kg/hr	Less hypotension than with morphine. Accumulation with hepatic impairment
HYDROMORPHINE	1.5	7.5	5-15 min	2-3 hr	0.5-3mg/hr	Accumulation with hepatic/- renal failure
MORPHINE	10	30	5-10 min	3-4 hr	2-30mg/hr	Accumulation with hepatic/- renal failure. Histamine release.
METHADONE	N/A	N/A	1.3 d	15-60 hr	Not recommended	Can reduce tolerance opioid tolerance. QTC prolongation
REMIFENTANIL	N/A	N/A	1.3 min	3-10 min	Loading dose 1.5µg/kg/IV. Maintenance dose: 0.5- 15µg/kg/hr IV	No accumulation in hepatic/renal; failure.