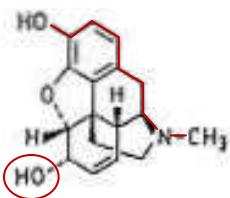


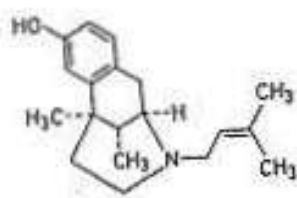
Chemical Classes of Opioids

PHENANTHRENES



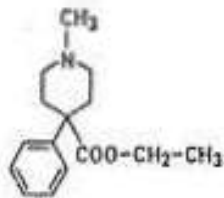
MORPHINE

BENZOMORPHANS



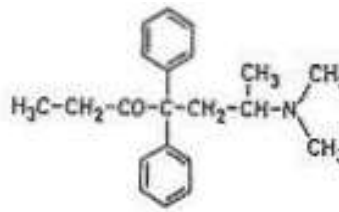
PENTAZOCINE

PHENYLPIPERIDINES



MEPERIDINE

DIPHENYLHEPTANES



METHADONE

Rx EXAMPLES >

morphine
codeine
hydrocodone*
hydromorphone*
levorphanol*
oxycodone*
oxymorphone*
buprenorphine*
nalbuphine
butorphanol*
naloxone*
heroin (diacetyl-morphine)

pentazocine
diphenoxylate
loperamide

meperidine
fentanyl
sufentanil
alfentanil
remifentanil

methadone
propoxyphene

CROSS-SENSITIVITY > RISK

PROBABLE

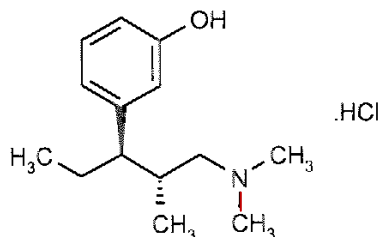
POSSIBLE

LOW RISK

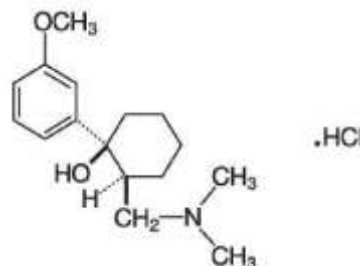
LOW RISK

*These agents lack the 6-OH group of morphine, possibly decreasing cross-sensitivity within the phenanthrene group.

Tapentadol is a 3-[(1*R*,2*R*)-3-(dimethylamino)-1-ethyl-2-methylpropyl]phenol monohydrochloride.



Tramadol is a (±)cis-2-[(dimethylamino)methyl]-1-(3-methoxyphenyl) cyclohexanol hydrochloride.



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Courtesy of Dr. Jeffrey Fudin (<http://www.paindr.com>)
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