

	Buprenorphine	Butorphanol	Fentanyl	Tramadol
AKA	Buprenex	Torbutrol, Torbugesic	Duragesic	Ultram
Type of Drug	Opioid	Opioid	Mu agonist	Mu opioid + monoamine reuptake inhibitor
Formulations	injection transmucosal liquid	tablet compounded liquid injection	transdermal *injection (not rec'd)	tablet compounded liquid compounded transdermal
Reversal	difficult to reverse	partial w/Naltrexone	complete w/Naloxone	partial w/Naloxone
Onset	30-60 min	~20 min	5-8 hrs	~1 hr
Duration	3-12 hrs (dose dependent)	1-3 hrs	3-5 days	6-12 hrs
Pain Scale	mild-mod pain	mild pain	mod-severe pain	mild-severe pain
Type of Pain	acute- chronic pain soft tissue, orthopedic, post-op	acute pain soft tissue, post-op	chronic pain soft tissue, orthopedic, post-op, visceral, neuropathic, burn, cancer	acute- chronic pain post-op, orthopedic, neuropathic
Sedation	minimal	mild	mild	mild-mod
Cost	mod-high	mod-high	high	low-mod
Metabolized thru/ Excreted thru	liver/ gallbladder, kidneys	liver/ gallbladder, kidneys	liver/ kidneys	liver/ kidneys
Special Cautions & Notable Side Effects	respiratory depression, decreased heart rate, decreased BP	minimal respiratory depression, diarrhea, inappetence	*Use Duragesic or Mylan brands only *increased effect when exposed to heat (ie heated bed, elect blanket) *toxic if ingested respiratory depression, nausea, euphoria	*very bitter taste bizarre behavior, GI upset, panting, decreased heart rate, constipation, seizures (at higher doses)
Interactions	other sedatives including antihistamines, Selegiline/L-deprenyl	other opiates & sedatives including antihistamines	other sedatives including antihistamines, Selegiline/L-deprenyl	SAM-e, Selegiline/L-deprenyl, Amitraz
Common Contraindicated Conditions *Use w/caution	liver disease, kidney disease, respiratory disease, lactation, pregnancy	liver disease, kidney disease, lactation, pregnancy, hypoT, adrenal disease, hydrocephalus, head trauma, pneumonia	liver disease, kidney disease, respiratory disease, asthma	liver disease, kidney disease, adrenal disease, heart disease, hypoT
References for detailed drug summaries	http://www.vasq.org/individual_drug_summaries.htm http://www.veterinarypartner.com/Content.plx?P=T&C=31&S=0 http://www.petplace.com/browse.aspx?a=8&c=669 http://www.rxlist.com/drugs/alpha_a.htm			