

CLINICAL PHARMACOLOGY OF SEDATIVE MEDICATIONS

AGENT	ONSET AFTER IV LOADING DOSE	ELIMINATION- HALF LIFE	ACTIVE METABOLITES	LOADING DOSE	MAINTENANCE DOSING	ADVERSE EFFECTS
MIDAZOLAM	2-5 min	3-11 hr	Yes	0.01-0.05mg /kg/hr	0.02-0.1mg/ kg/hr	Respirator depression, hypo- tension
LORAZEPAM	15-20 mins	8-15 hr	None	0.02-0.04mg /kg (≤ 2 mg)	0.02-0.06mg /kg q2-6	Respiratory depression, hypo- tension; propylene glycol-relat- ed acidosis, nephrotoxicity Respiratory depression, hypo- tension, phlebitis
DIAZEPAM	20-120hr	20-120hr	YES	5-10mg	0.02-0.06mg /kg q2-6	Respiratory depression, hypo- tension, phlebitis
PROPOFOL	1-2min	Short term use= 3-12hr Longterm use= 50 \pm 18.6hr	5 μ g/kg/min over 5min	5-50 μ g/kg/min ^b		Pain on injection, hypotension, respiratory depression, hypertriglyceridemia, pancreatitis, allergic reactions, propofol related infusion syndrome; deep sedation with propofol is associated with significantly longer emergence times than with light sedation
DEXMEDETOMIDINE	5-10 mins	1.8-3.1hr	NONE	1 μ g/kg over 10 min ^c	0.2-0.7 μ g/kg/min/hr ^d	Bradycardia, hypotension; hypertension with loading dose; loss of airway reflexes