

**TABLE 6.11** Injectable Anaesthetic Dose Rates in the Guinea Pig.

Drug	Dose rate	Effect	Duration of anaesthesia (minutes)	Sleep time (minutes)
Alphaxalone/alphadolone	40 mg/kg ip	Immobilization	–	90–120
Alphachloralose	70 mg/kg ip	Light to medium anaesthesia	180–600	Non-recovery only
Fentanyl/Climazolam/Xylazine	0.05mg/kg + 2.0mg/kg + 2.0mg/kg im	Surgical anaesthesia		
Fentanyl/fluanisone (Hypnorm) + diazepam	1.0 ml/kg im or ip + 2.5 mg/kg ip	Surgical anaesthesia	45–60	120–180
Fentanyl/fluanisone (Hypnorm)/midazolam	8.0 ml kg ip*	Surgical anaesthesia	45–60	120–180
Ketamine/acepromazine	100 mg/kg + 5 mg/kg im	Immobilization/anaesthesia	45–120	90–180
Ketamine/dexmedetomidine	40 mg/kg + 0.25 mg/kg ip	Moderate anaesthesia	30–40	90–120
Ketamine/diazepam	100 mg/kg + 5 mg/kg im	Immobilization/anaesthesia	30–45	90–120
Ketamine/medetomidine	40 mg/kg + 0.5 mg/kg ip	Moderate anaesthesia	30–40	90–120
Ketamine/xylazine	40 mg/kg + 5 mg/kg ip	Surgical anaesthesia	30	90–120
Medetomidine + midazolam + butorphanol	0.2mg/kg + 1.0mg/kg + 2mg/kg im	Surgical anaesthesia	40	50-60*
Medetomidine + Midazolam + Fentanyl	0.2mg/kg+1mg/kg+25ug/kg sc	Surgical anaesthesia	40	45-50*
Pentobarbital	37 mg/kg ip	Surgical anaesthesia	60–90	240–300
Tiletamine/zolezepam	40–60 mg/kg im	Immobilization	–	70–160
Urethane	1500 mg/kg iv, ip	Surgical anaesthesia	300–480	Non-recovery only

*Duration of anaesthesia and sleep time (loss of righting reflex) are provided only as a general guide, since considerable between-animal variation occurs. For recommended techniques, see text.*

*\*Dose in millilitres per kilogram of a mixture of one part 'Hypnorm' plus two parts water for injection, and one part midazolam (5 mg/ml initial concentration).*