

TABLE 6.5 Anaesthetic Dose Rates in the Mouse.

Drug	Dose rate	Effect	Duration of anaesthesia (minutes)	Sleep time (minutes)
Alphachoralose	100–120 mg/kg ip	Light anaesthesia	300–420	Non-recovery only
Alphaxalone	10 mg/kg iv	Surgical anaesthesia	5	10
Alphaxalone + Dexmedetomidine	30 mg/kg + 0.3mg/kg ip	Surgical anaesthesia	30	40*
Chloral hydrate	400 mg/kg ip	Light anaesthesia	30	60–90
Fentanyl/fluanisone (Hypnorm) + diazepam	0.4 ml/kg ip + 5 mg/kg ip	Surgical anaesthesia	30–40	120–240
Fentanyl/fluanisone (Hypnorm)/midazolam	10.0 ml/kg ip*	Surgical anaesthesia	30–40	120–240
Ketamine + acepromazine	100 mg/kg + 5 mg/kg ip	Immobilization/anaesthesia	20–30	40–120
Ketamine + dexmedetomidine	75 mg/kg + 1.0 mg/kg ip	Surgical anaesthesia	20–30	60–120
Ketamine + diazepam	100 mg/kg + 5 mg/kg ip	Immobilization/anaesthesia	20–30	60–120
Ketamine + medetomidine	75 mg/kg + 1.0 mg/kg ip	Surgical anaesthesia	20–30	60–120
Ketamine + midazolam	100 mg/kg + 5 mg/kg ip	Immobilization/anaesthesia	20–30	60–120
Ketamine + xylazine	80–100 mg/kg + 10 mg/kg ip	Surgical anaesthesia	20–30	60–120
Ketamine + xylazine + acepromazine	80–100 mg/kg + 10 mg/kg ip + 3 mg/kg ip	Surgical anaesthesia	30–40	60–120
Medetomidine + midazolam + butorphanol	0.2mg/kg + 6.0mg/kg +10mg/kg	Surgical anaesthesia	40	50-60*
Medetomidine + Midazolam + Fentanyl	0.5mg/kg+5mg/kg+50ug/kg sc	Surgical anaesthesia	25-30	30-35*
Pentobarbital	40–50 mg/kg ip	Immobilization/anaesthesia	20–40	120–180
Propofol	26 mg/kg iv	Surgical anaesthesia	5–10	10–15
Propofol + Medetomidine + Fentanyl	75mg/kg + 1mg/kg + 0.2mg/kg	Surgical anaesthesia	15	30*
Thiopental	30–40 mg/kg iv	Surgical anaesthesia	5–10	10–15
Tiletamine/zolezepam	80 mg/kg ip	Immobilization		60–120
Tribromoethanol	240 mg/kg ip	Surgical anaesthesia	15–45	60–120

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).

Doses of combinations using medetomidine or dexmedetomidine are provided using the agent used in the relevant publication (see text).

**After reversal see text.*