

Sedation/Anesthesia Monitoring Patient Vital Signs

Monitor	System Assessed	Provides	Normal Ranges for Dogs & Cats	When to Use
Dedicated Anesthetist	Cardiovascular System	CRT	1-2 sec.	Every sedated/anesthetized patient
	Oxygenation and Cardiovascular System	MMC	Pink Pigmented	Every sedated/anesthetized patient
	Central Nervous System	Anesthetic Depth*	Ventromedial pupils Absent palpebral reflex Loose jaw tone	Every sedated/anesthetized patient
Pulse Oximeter	Respiratory System	SpO ₂ Pulse Rate Some devices: PVI, PI	SpO ₂ >95%	Every sedated/anesthetized patient
Capnograph	Respiratory System	EtCO ₂ InCO ₂ RR	EtCO ₂ : 35-45 mmHg InCO ₂ : 0 mmHg RR: 6-20 breaths/min.	Every intubated patient
Electrocardiograph (ECG)	Cardiovascular System	HR Rhythm	Dogs: 60-160 bpm Cats: 120-230 bpm	Every sedated/anesthetized patient
Blood Pressure	Cardiovascular System	SAP MAP DAP	90-160 mmHg 60-120 mmHg 35-55 mmHg	NIBP techniques: every sedated/ anesthetized patient IBP techniques: critical patients
Thermometer	Thermoregulatory System	Body Temp	98-102.5° F 36-39.2° C	Every sedated/anesthetized patient

* dissociative anesthetics may produce variations in these responses

SpO₂ percentage of hemoglobin saturation with oxygen; HR heart rate; PVI pleth variability index, PI perfusion index; EtCO₂ end-tidal carbon dioxide; InCO₂ inspired carbon dioxide; SAP systolic arterial pressure; MAP mean arterial pressure; DAP diastolic arterial pressure; NIBP non-invasive blood pressure; IBP invasive blood pressure; CRT capillary refill time; F Fahrenheit; C Celcius; bpm beats per minute.; mmHg millimeters of mercury