

Which to use?






For infusions of these medications, most sources recommend using **ideal** body weight for **fentanyl, sufentanil, and remifentanyl**. Expert opinion recommends **ideal or adjusted** body weight for **ketamine**, but there is limited experimental evidence. Recommendations for weight-based dosing for **propofol** are mixed, but the strongest evidence thus far found suggests that **total body weight** should be used.




When evaluating available evidence, we elected to review commonly used references including the drug prescribing info from the FDA, Lexicomp, two major anesthesia textbooks (Miller's Anesthesia and Morgan & Mikhail's Clinical Anesthesiology), and published literature that utilized context-sensitive half-lives and/or pharmacokinetic modeling to draw conclusions.

A summary of the sources evaluated is detailed below by intravenous anesthetic agent.




Propofol

	Source	Recommendation
	Prescribing information	None
	Lexicomp	Adjusted Body Weight
	Miller's Anesthesia	Ideal Body Weight (induction) Total Body Weight (maintenance) Ch. 71
	Morgan and Mikhail	None
	Evidence from literature	Total Body Weight




Sufentanil

	Source	Recommendation
	Prescribing information	Ideal Body Weight
	Lexicomp	Ideal Body Weight
	Miller's Anesthesia	Ideal Body Weight (Ch. 31, 71)
	Morgan and Mikhail	None
	Evidence from literature	Ideal Body Weight




Remifentanyl

	Source	Recommendation
	Prescribing information	Ideal Body Weight
	Lexicomp	Adjusted Body Weight
	Miller's Anesthesia	Ideal Body Weight
	Morgan and Mikhail	None
	Evidence from literature	Ideal Body Weight

Fentanyl

	Source	Recommendation
	Prescribing information	None
	Lexicomp	Adjusted Body Weight
	Miller's Anesthesia	Ideal Body Weight (Ch 31)
	Morgan and Mikhail	None
	Evidence from literature	Not Total Body Weight

Ketamine

	Source	Recommendation
	Prescribing information	None
	Lexicomp	Ideal Body Weight or Adjusted Body Weight
	Miller's Anesthesia	None
	Morgan and Mikhail	None
	Evidence from literature	Ideal Body Weight or Adjusted Body Weight

References

Propofol:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2017/019627s066lbl.pdf

http://www.crlonline.com/lco/action/doc/retrieve/docid/patch_f/7572?

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