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*Adapted from the Quality and Safety Education for Nurses website at <http://www.qsen.org>.

TABLE 20-7

Intravenous Catheter Flushes for Lines Without Continuous Fluid Infusions

Peripheral lines (Hep-Lock or saline locks)	NS* after medications or every 8 hr for dormant lines; instill $2\frac{1}{2}$ times tubing volume 24-g catheters: NS* or heparin 2 units/ml 2 ml
Midline	Heparin 10 units/ml; 3 ml in a 10-ml syringe [†] after medications or every 8 hours if dormant Newborns: Heparin 1 to 2 units/ml to run continuously at ordered rate
External central line (non-implanted, nontunneled, tunneled, or PICC)	Heparin 10 units/ml; 3 ml in a 10-ml syringe [†] after medications or once daily if dormant Newborns: Heparin 2 units/ml; 2 to 3 ml after medications or