Verify Key Tasks as You Perform Them

Use this checklist to remind yourself to perform key tasks in administering fluid therapy. Make multiple copies and laminate them so you can use them repeatedly in the surgical suite. This checklist is available as a download at aahanet.org/library/FluidTherapy.aspx.

Catheter placement, maintenance and monitoring
☐ Shave the area and perform a sterile preparation.
☐ Maintain strict aseptic placement and maintenance protocols to extend catheter life.
☐ Place the largest-size catheter that can be safely and comfortably used (very small catheters greatly reduce flow).
☐ If a catheter is placed in an emergency situation, prepare a new site and place a new catheter once the emergency is resolved.
☐ Flush the catheter every 4 hours unless fluids are being continuously administered. Normal saline is as effective for flushing as
heparin solution.
☐ Unwrap and evaluate daily. Follow the steps below:
\square Aspirate and flush to check for patency.
☐ Replace the catheter if the dressing becomes loose, soiled or damp.
☐ Inspect for signs of phlebitis, thrombosis, perivascular fluid administration, infection or constriction of blood flow due to too-
tight bandaging.
Intravenous fluid administration
☐ Prepare a new bag of fluids with a new administration set for each patient regardless of route of administration.
☐ Ensure lines are primed to avoid air embolism.
☐ Use Luer-lock connections when possible to prevent inadvertent disconnection.
☐ Select the appropriate size/volume bag according to patient size if using gravity flow to minimize the risk of volume overload if the
entire volume were to be inadvertently delivered to the patient.
☐ Use a buretrol if frequent fluid composition changes are anticipated.
☐ Consider using t-ports to easily medicate a patient receiving IV fluids if the medication is compatible with the fluid type.
☐ Consider using a y-port in patients receiving more than one compatible infusion.
☐ Consider a syringe pump for small-volume infusions or for constant-rate infusions (CRIs). Place small-volume CRIs close to the
patient's IV catheter so that the infusion will reach the patient in a timely manner.
☐ Consider a pressure bag for bolus delivery in an emergency situation.
☐ Follow CDC recommendations for changing fluid administration lines no more than every 4 days to reduce the chance of
nosocomial infection.
Monitoring fluid therapy
☐ Use fluid pumps whenever possible and monitor the pump frequently.
☐ Monitor the patient for over-administration. Symptoms include the following:
☐ Increased respiratory rate and effort
☐ Peripheral and/or pulmonary edema
☐ Weight gain
☐ Pulmonary crackles (a late indicator)
☐ Monitor the patient for under-administration. Symptoms include the following:
☐ Persistent increased heart rate
☐ Poor pulse quality
☐ Hypotension
☐ Decreased urine output
☐ Monitor during anesthesia. Follow the steps below:
☐ Assign a staff member to monitor fluid administration and patient status.
Consider current recommendations of an anesthetic rate less than 10 mL/kg/hr to avoid hypervolemia, especially in cats (rule of
thumb start at 3 mL/kg/hr in cats and 5 mL/kg/hr in dogs).
☐ Consider reducing the anesthetic rate in procedures lasting longer than 60 minutes by 25% each hour, if beginning at
higher-than-maintenance rate, until the maintenance rate is reached.