

ILLINOIS REGION 3 PROTOCOLS

SODIUM BICARBONATE	
CLASS	Alkalinizing agent (buffer)
ACTION	Binds free hydrogen ions to form carbonic acid. Effectively increases the blood pH.
INDICATIONS	<ul style="list-style-type: none"> ▪ Acidosis associated with prolonged down time in cardiac arrest ▪ Tricyclic antidepressant overdose
CONTRAINDICATIONS	Alkalosis
PRECAUTIONS	<ul style="list-style-type: none"> ▪ Correct dosage is essential to avoid overcompensation of pH. ▪ Flush IV line before and after administration of the drug. Is not compatible with many other drugs in the IV line. Precipitates with calcium chloride. Inactivates epinephrine and dopamine. ▪ Extravasation (infiltration) may cause ulceration, tissue necrosis or tissue sloughing at injection site.
SIDE EFFECTS	<ul style="list-style-type: none"> ▪ Alkalosis ▪ Electrolyte imbalance
ROUTE	IV
DOSE	1 mEq/kg initially followed by 0.5 mEq/kg every 10 minutes.
PEDIATRIC DOSE	<ul style="list-style-type: none"> ▪ Use pediatric 4.2% solution. ▪ 0.5-1 mEq/kg initial dose followed by 0.5 mEq/kg doses every 10 minutes as indicated. ▪ Utilize Broselow tape or pediatric weight based dosing chart to confirm dose
ONSET	Immediate
DURATION	30 to 60 minutes
STOCK	(1) 50 mL Abboject (1 mEq/mL) (2) (1) 10 mL Abboject 4.2% pediatric solution (0.5 mEq/mL)