

SODIUM BICARBONATE PUBLIC COMMENT JULY 2024

ACTION: Alkalinizing Agent

- Acts as a buffering agent when administered to neutralize hydrogen ions resulting in carbon dioxide as a byproduct.
- Alkalinization of blood results in shifting of potassium into the intracellular space, lowering serum potassium levels.

INDICATIONS:

- Known or suspected hyperkalemia ~~or in patients with known renal failure.~~
- Cardiac arrests associated with tricyclic antidepressants, ~~or phenobarbital overdose.~~ or hyperkalemia
- Crush syndrome

CONTRAINDICATIONS:

- ~~When used for situations above~~ none None

POTENTIAL SIDE EFFECTS:

- Hypotension
- Headache and flushing
- Syncope
- Fluid overload
- Tachycardia
- Alkalosis

ADULT DOSE/ROUTE:

- ⇒ Suspected Hyperkalemia: ~~50mEq IV/IO one time dose~~
- ⇒ QRS widening(QRS>100) from Tricyclic Antidepressant Overdose: ~~1mEq/kg~~ 50mEq IV/IO. ~~May repeat~~ Repeat 0.5mEq/kg q 10-5 min until ECG changes ~~to~~ improve (QRS<100) and/or to a total of 2mEq/kg 150 mEq.
- ⇒ Crush Syndrome: 50mEq IV/IO push immediately prior to extrication

-PEDIATRIC DOSE/ROUTE:

- ⇒ Suspected Hyperkalemia: 1mEq/kg (max 50mEq) IV/IO one time dose ~~or~~
- ⇒ QRS widening from Tricyclic Antidepressant: 1mEq/kg IV/IO, up to a max of 50mEq per dose. Repeat q5 min until ECG changes improve (QRS<100) and/or to a total of 150 mEq. ~~May repeat 0.5mEq/kg q 10 min to total of 2mEq/kg.~~ ⇒ If <2 years, dilute bicarb 1:1 with sterile water.

NOTES:

- IV lines should be flushed thoroughly before administration of other medications to avoid precipitation.

DRAFT