

Sodium Thiosulphate

Indication	Management of calciphylaxis (unlicensed indication)
Dosage and administration	<p>FIRST DOSE Pre-treat with ondansetron 4mg IV 30 minutes prior to infusion. Give 12.5g sodium thiosulphate IV over the last 30 minutes of dialysis. Infuse into venous limb of dialysis circuit.</p> <p>Flush giving set with 0.9% sodium chloride once vial empty to ensure full dose is given. Monitor for side effects (see below)</p> <p>SUBSEQUENT DOSES Pre-treat with ondansetron 4mg IV 30 minutes prior to each infusion. Give 25g sodium thiosulphate IV over the last 60 minutes of each dialysis thereafter.</p>
Side effects	<p>Hypotension- monitor BP throughout infusion. Usually only predicted following rapid infusion of large doses and should be self-limited and transient.</p> <p>Nausea & vomiting- give ondansetron as above. Continued nausea may require infusion being given over a longer period of time (e.g. over full dialysis session) or dose reduction.</p> <p>Other reported side effects (from case reports): Metabolic acidosis (correct on dialysis), Sinus congestion Headache</p>
Reconstitution instructions	No reconstitution necessary
Additional information	Continue course indefinitely and according to response. No dose adjustment required for renal or hepatic impairment.
Concentration/strength	Sodium thiosulphate 50% (12.5g in 50mls) (unlicensed product)
Monitoring	<p>Continual blood pressure monitoring throughout test dose and first full dose (can be less frequent with subsequent doses if hypotension is not a problem)</p> <p>U&Es plus calcium and phosphate- before 1st and 2nd doses, weekly thereafter. PTH- monthly</p>

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Adapted from protocols of the following NHS trusts: Manchester, Leicester, Royal Free and NHS A&A