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| **Renal Directorate Guidelines**  **Royal Infirmary of Edinburgh** |

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**Sodium Thiosulphate**

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| **Indication** | Management of calciphylaxis (unlicensed indication) |
| **Dosage and administration** | **FIRST (TEST) DOSE**   1. Pre-treat with ondansetron 4mg IV 30 minutes **prior** to infusion. 2. Give **12.5g** sodium thiosulphate IV over the last 30 minutes of dialysis session. To be administered neat in a 50ml syringe. Infuse into venous limb of dialysis circuit. 3. One syringe is empty, flush giving set with 0.9% sodium chloride to ensure full dose is given. 4. Monitor for side effects (see below)   **SUBSEQUENT DOSES**   1. Pre-treat with ondansetron 4mg IV 30 minutes prior to infusion. 2. Give **25g** sodium thiosulphate IV over the last 60 minutes of each dialysis session. |
| **Side effects** | **Hypotension**: Usually only expected following rapid infusion of large doses and should be self-limiting.  **Nausea & vomiting:** Pre-treatment with ondansetron as above. Persistent nausea may require infusion being given over a longer period of time (e.g. over full dialysis session) or dose reduction.  Other reported side effects (from case reports): metabolic acidosis (corrected on dialysis), sinus congestion, headache, disorientation, prolonged bleeding time. |
| **Reconstitution instructions** | No reconstitution necessary |
| **Additional information** | Continue course indefinitely / according to response.  No dose adjustment required for renal or hepatic impairment. |
| **Concentration** | Sodium thiosulphate 50% (12.5g in 50mls) |
| **Monitoring** | Continual blood pressure monitoring throughout test dose (12.5g) and first full dose (25g). Frequency of monitoring can be reduced if BP remains stable. U&Es, calcium and phosphate - before 1st and 2nd doses, weekly thereafter. PTH – monthly. |