

## Calcium Chloride

<b>Indication</b>	Corrected Calcium (ACCA) under 2.25mmol/L or Calcium under 1.0 on Arterial blood gas sample.  Normal range for ACCA 2.20 – 2.60mmol/L																				
<b>Dose</b>	20mmol as required  Recheck Calcium daily or 24 hours after infusion. Calcium levels should be rechecked before any repeat doses are given.																				
<b>Preparation</b>	Each ampoule of calcium chloride contains 1mmol/ml.  1. Remove 20ml from a 250ml bag of sodium chloride 0.9% 2. Draw up 20 ml of Calcium Chloride using a filter needle 3. Add Calcium Chloride to Sodium Chloride bag using a new needle																				
<b>Administration</b>	Calcium should be given via a <b>central line</b> over at least 60minutes.  Use the “Calcium Chloride” program on a VP7000 volumetric pump. The rate is set in mmol per hour.																				
<b>Shelf-life</b>	Shelf life 24hours in a refrigerator																				
<b>Common Compatibility Issues</b>	Calcium is considered compatible via the same lumen with dobutamine or magnesium.  Calcium must <b>never</b> be run in the same lumen as a phosphate or propofol infusion. See ICU compatibility chart for further advice.																				
<b>Additional information</b>	Calcium chloride is <b>highly irritant to veins</b> and should only be given peripherally if deemed clinically essential, consider Oral/NG Replacement if possible/appropriate																				
<b>Sample Label</b>	<table border="1" style="width: 100%; background-color: yellow;"> <tr> <th colspan="4" style="text-align: center;">DRUGS ADDED TO THIS INFUSION</th> </tr> <tr> <td colspan="3">PATIENT <i>A. Patient (A. Number)</i></td> <td>WARD <i>ICU</i></td> </tr> <tr> <td>DRUG <i>Calcium Chloride in 250ml sodium chloride 0.9%</i></td> <td>AMOUNT <i>20mmol 0.08mmol/ml</i></td> <td>ADD BY</td> <td>CHECKED BY</td> </tr> <tr> <td>DATE ADDED TIME ADDED</td> <td>EXP. DATE EXP. TIME</td> <td colspan="2">BATCH No.</td> </tr> <tr> <th colspan="4" style="text-align: center;">DISCONTINUE IF CLOUDINESS OR PRECIPITATE DEVELOPS</th> </tr> </table>	DRUGS ADDED TO THIS INFUSION				PATIENT <i>A. Patient (A. Number)</i>			WARD <i>ICU</i>	DRUG <i>Calcium Chloride in 250ml sodium chloride 0.9%</i>	AMOUNT <i>20mmol 0.08mmol/ml</i>	ADD BY	CHECKED BY	DATE ADDED TIME ADDED	EXP. DATE EXP. TIME	BATCH No.		DISCONTINUE IF CLOUDINESS OR PRECIPITATE DEVELOPS			
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## Documentation Controls

Development of Guideline:	Pharmacist – Critical Care & Theatres
Consultation with:	Pharmacy Department
Approved By:	ICU Sister's Meeting: June 2023  ICU Risk & Quality Meeting: December 2023  Surgical Division
Review Date:	February 2026
Key contact:	Pharmacist – Critical Care & Theatres

## References

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**\*\*\* End of Monograph \*\*\***