### **Potassium chloride - Intravenous**

### **Newborn use only**

Alamb	High wish was dising			
Alert	High risk medicine.			
	The use of pre-mixed potassium chloride solutions are preferred where possible.			
	The addition of potassium chloride to the maintenance fluids is preferred over the use of a side line to minimise the risk. Additional potassium chloride must not be added to premixed potassium chloride			
	intravenous solutions.			
	Recommended to store only 10 mmol/10 mL potassium chloride concentrated ampoules to avoid errors.			
	Concentrated potassium ampoules MUST BE DILUTED prior to intravenous infusion.			
	When correcting severe or symptomatic hypokalaemia – Avoid diluting with glucose solution as serum			
	potassium level may further decrease.			
	Osmolality of 1 mmol/1 mL of potassium chloride = 2000 mOsm/L.(1)			
	Intravenous (IV) fluids with regular pre-mixed 2 mmol/100 mL (20 mmol/L) potassium chloride provides			
	a daily maintenance dose of 2.4 to 3.0 mmol/kg/day of potassium at 120 to 150 mL/kg/day.  Standard Australian consensus amino-acid formulations and paediatric IV fluids have 2 mmol/100 mL			
	potassium chloride.			
	Central IV administration: maximum concentration is 80 mmol potassium chloride/L (0.08mmol/mL).			
	Peripheral IV administration: maximum concentration is 40 mmol potassium chloride/L			
	(0.04mmol/mL).(2)			
	Consider all sources of potassium including parenteral nutrition when calculating total daily dose.			
Safety handling	Stock of concentrated potassium ampoules should be subject to risk assessment and stored			
of potassium	separately from ampoules of similar appearance and packaging.			
chloride	Retain in original packaging and remove just prior to use.			
	When prescribing potassium			
	Rapid correction is rarely needed in neonates.			
	Identify and treat the aetiology for hypokalaemia (e.g. ceasing diuretics)			
	Err on the lower end of the estimate.			
	Consider oral potassium replacement where possible.  Pierce with a limiting in the preparation of home lede again.			
Indication	Discuss with clinician-in-charge prior to IV correction of hypokalaemia.  Treatment and prevention of hypokalaemia.			
Action	Intracellular cation. Essential in the maintenance of body fluid composition and electrolyte balance.			
Action	Participates in carbohydrate utilisation and protein synthesis. It is critical in the regulation of nerve			
	conduction and muscle contraction, particularly in the heart.			
Drug type	Electrolyte.			
Trade name	Pfizer Sterile Potassium Chloride Concentrate, Potassium Chloride Juno			
Presentation	Pfizer (Perth) Sterile Potassium Chloride Concentrate (Concentrate for infusion): 10 mmol/10 mL and			
	Potassium Chloride Juno Concentrate: 10 mmol/10 mL.			
	Other strengths of potassium chloride have been intentionally excluded from this neonatal formulary.			
Dose	Mild to moderate hypokalaemia (<3.5 mmol/L) with no ECG changes			
	Check if the regular maintenance IV fluid has potassium chloride in the solution.			
	Maintenance IV fluid containing potassium may be adequate.			
	December 1 resistance and the constituted in resistance and N/fluids are			
	Parenteral maintenance dose can be provided in maintenance IV fluids as:  Not greater than 4 mmol/100 mL (20 to 40 mmol/L) of potassium chloride in peripheral IV fluids;			
	Not greater than 8 mmol/100 mL (80 mmol/L) of potassium chloride in central IV fluids			
	Not greater than 8 minor, 100 mz (60 minor, 2) or potassium emonde in central iv maids			
	The daily parenteral maintenance dose of potassium:			
	Weight Dose			
	<pre>&lt;1500 g 2 to 5 mmol/kg/day</pre>			
	≥1500 g 2 to 3 mmol/kg/day			
	Severe (Serum potassium <1.5 mmol/L) or symptomatic hypokalaemia with ECG changes (2)			
	Discuss with clinician in-charge prior to rapid IV correction of hypokalaemia. Dose and			
	administration may be altered as the clinical condition dictates.			

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	0.3 to 0.5 mmol/kg potassium chloride diluted with 2 mL/kg of sodium chloride 0.9% over 2 to 3
	hours. Do not exceed rate of 0.2 mmol/kg/hour
	Repeat dose if serum potassium level is not corrected.
Dose adjustment	Therapeutic hypothermia – Ensure adequate urine output and renal function.
	ECMO – Determined by renal function.
	Renal impairment – Ensure adequate urine output prior to supplementation.
	Hepatic impairment – No specific dose adjustment.
Maximum dose	
Total cumulative dose	
Route	IV
Preparation	Addition of potassium chloride to maintenance IV fluids
	Note: Preferable to use premixed maintenance IV fluid with potassium chloride (e.g. Baxter 0.225%
	sodium chloride + 10% glucose + 2 mmol/100 mL potassium chloride).
	If premixed bags are not available, potassium chloride 10mmol/10 mL strength can be added by
	following the steps below:
	Calculate potassium requirement for infant in mmol/day
	Infant weight x mmol/kg/day required = mmol/day
	E.g. 3 kg x 2 mmol/kg/day = 6 mmol/day
	2. Calculate IV maintenance fluid requirement in mL/day (deduct enteral feeds or other IV infusions)
	Infant weight x mL/kg/day = mL/day of IV maintenance fluid
	E.g. 3 kg x 90mL (TFR) = 270mL/day of IV maintenance fluid
	3. Calculate volume (mL) of potassium chloride to be added to 500 mL bag
	mmol/day $\div$ mL per day of IV maintenance fluid x 500 = mmol potassium chloride required.
	E.g. $\frac{6}{270} \times 500$ mL = 11.1 mmol potassium chloride required = 11.1 mL potassium chloride
	required
	4. From 500 mL bag, <b>remove</b> the amount of fluid that will be replaced by potassium chloride
	E.g. Remove 11.1 mL of IV fluid from 500 mL bag.
	5. Add the calculated volume of potassium chloride to 500 mL bag.
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	6. The bag must be inverted ten times to ensure potassium chloride is thoroughly mixed throughout
	the solution.
	7. Apply a fluid label, clearly identifying addition of potassium chloride as per NSW health policy
	IV infusion for severe or symptomatic hypokalemia
	0.3 to 0.5 mmol/kg potassium chloride (0.3 to 0.5 mL/kg of potassium chloride 10 mmol/10 mL) diluted
	with 2 mL/kg of sodium chloride 0.9%* over 2-3 hours (not to exceed 0.2 mmol/kg/hour)
	*Do not dilute with glucose solutions as glucose can cause further drop in potassium.
Administration	For rapid correction: IV infusion over 2-3 hours
Namite die e	When added to IV maintenance fluid bag: continuous infusion over 24 hours
Monitoring	Injection site for pain or phlebitis.
	Continuous cardio-respiratory monitoring
Controledications	Serum electrolytes – serum potassium.
Contraindications	Hyperkalaemia.(3)
	Hyperadrenalism associated with adrenogenital syndrome.  Tissue breakdown.
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**Potassium Chloride** 

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# Potassium chloride - Intravenous Newborn use only

	Acute dehydration.		
	Renal impairment with oliguria and azotaemia.		
	Untreated Addison's disease.		
	Ventricular fibrillation.		
	Atrioventricular or intraventricular heart block.		
	Conditions with increased sensitivity to potassium : Adynamia episodica hereditaria, congenital		
	paramyotonia (3)		
Precautions	Renal impairment, adrenal insufficiency, impaired potassium excretion, heart block associated disease,		
	bradycardia; cardiac, renal, sickle cell disease, acidosis.(3)		
Drug interactions	Potassium sparing diuretics, including spironolactone: Increase serum potassium.		
	Amphotericin B Liposomal: – Can cause hypokalaemia.(4)		
	Doxapram: Can cause hypokalaemia.(5)		
	ACE inhibitors, including enalapril and captopril: Elevate serum potassium.		
	Beta adrenergic blockers: - Increase both peak serum potassium and the time required for serum		
	potassium to return to basal levels.		
	Nonsteroidal anti-inflammatory drugs (NSAIDs): May cause hyperkalaemia by inducing secondary		
	hypoaldosteronism.		
	Heparin: Reduces the synthesis of aldosterone which may result in hyperkalaemia.		
	Digitalis glycosides: Potassium supplements are not recommended for concurrent use in digitalised		
	patients with severe or complete heart block. In treating hyperkalaemia in digitalised patients, too		
	rapid a lowering of the serum potassium concentration can produce digitalis toxicity.(3)		
	Sodium bicarbonate: Concurrent use may decrease serum potassium.		
Adverse	Hyperkalaemia: Can develop rapidly and asymptomatically and is potentially fatal.		
reactions	Pain or phlebitis may occur.		
	Cardiovascular: Hypotension, cardiac depression, arrhythmias and heart block.		
	ECG abnormalities: - Disappearance of P wave, widening and slurring of QRS complex, changes of the ST		
	segment, tall peaked T waves.		
	Gastrointestinal: Vomiting, diarrhoea and abdominal discomfort.		
	Other: Listlessness, flaccid paralysis.		
Compatibility	<b>Fluids:</b> Sodium chloride 0.9%, sodium chloride 0.45%, Hartmann's, Ringer's, pre-mixed amino-acid		
Companion,	formulations(6). Glucose containing solutions, but NOT PREFFERED as glucose may further decrease		
I			
	serum potassium level.		
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**Potassium Chloride** 

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# Potassium chloride - Intravenous Newborn use only

VERSION/NUMBER	DATE
Original	8/12/2020
REVIEW	8/12/2025

#### **Authors Contribution**

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Nursing Review	Eszter Jozsa, Kirsty Minter, Renae Gengaroli
Pharmacy Review	Michelle Jenkins, Carmen Burman, Jessica Mehegan
ANMF Group contributors	Nilkant Phad, Bhavesh Mehta, John Sinn, Jessica Mehegan, Thao Tran, Helen Huynh
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