

Guidelines for Cisplatin Hydration

Network Guidance Document

Publication date	May 2023
Expected review date	May 2025
Version number	4
Version status	Final

1.0 HYDRATION GUIDELINES

- For Cisplatin protocols with cisplatin dose $\leq 60\text{mg/m}^2$ (including weekly single agent cisplatin)

Drug	Dose	Administration Details	Administration Time	Route
Pre-hydration				
KCL	20mmol	1 litre saline	Over 2 hours	IV
Mg2++	10mmol			
Mannitol	10%	200ml	Over 15 minutes	IV
Anti-emetics				
Followed by CISPLATIN in 1litre Normal saline 0.9%			Over 2 hours	IV
Furosemide	40mg	At the end of cisplatin administration, if urine output $<100\text{ml/hour}$ or weight gain $> 1\text{kg}$ An additional prn dose may be given at the end of treatment if the patient remains in a $>2\text{litre}$ positive balance	-	IV/PO
Post-hydration				
KCL	20mmol	1 litre saline*	Over 2 hours	IV
Mg2++	10mmol			
PLUS				
Either: 500ml saline IV over 1hour OR: 500ml water orally (Discretionary)				

*this may be omitted in low dose regimens $<40\text{mg/m}^2$

- For cisplatin protocols with cisplatin dose $> 60\text{mg/m}^2$

Drug	Dose	Administration Details	Administration Time	Route
Pre-Hydration				
KCL	20mmol	1 litre saline	Over 2 hours	IV
Mg2++	10mmol			
KCL	20mmol	1 litre saline	Over 2 hours	IV
Mannitol	10%	200ml	Over 15 minutes	IV
Anti-emetics				
Followed by CISPLATIN in 1 litre Normal saline 0.9%			Over 2 hours	IV
Furosemide	40mg	At the end of cisplatin administration, if urine output $<100\text{ml/hour}$ or weight gain $> 2\text{kg}$ An additional prn dose may be given at the end of treatment if the patient remains in a $>2\text{litre}$ positive balance	-	IV/PO
Post-hydration				
KCL Mg++	20mmol 10mmol	1 litre saline	Over 2 hours	IV

The document is available at http://www.kmcc.nhs.uk/medicines-and-prescribing-incorporating-sact-pathways/sact-pathways-guidelines-for-the-management-of-sact-induced-adverse-reactions-and-nursing/	
Enquiries:	Caroline Waters. Lead Oncology Pharmacist, Kent and Medway Cancer Collaborative
Date of Next Review:	May 2025