



## NEONATAL

# IV Compatibility in Neonates

This document should be read in conjunction with this [DISCLAIMER](#)

**Aim:** The purpose of this guideline is to guide nursing staff in the administration of IV medication in neonates

- The table provides a guide to medication compatibility via Y-site within the NCCU.
- Medication compatibilities are concentration, temperature and light dependent.
- Do NOT use solutions where there is a visible change in colouration.
- For further information, please contact the Pharmacy Department.

### References:

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Lauterbach, R., Strunk, T., Patole, S., Hurkala, J. and Pawlik, D. (2018). Compatibility of intravenous pentoxifylline with other medications infused concurrently in preterm infants with late-onset sepsis. [online] Available at: <https://www.ncbi.nlm.nih.gov/pubmed/29524245#> [Accessed 10 May 2018].



**Y-Site Compatibility Chart for IV Infusions**

	Adrenaline	Alprostadiil	Benzylpenicillin	Caffeine (base)	Calcium Gluconate	Dobutamine	Dopamine	Furosemide	Gentamicin	Glucose 5%	Glucose 10%	Glucose 25%	Indometacin	Meropenem	Metronidazole	Midazolam	Morphine Sulphate	Noradrenaline	Parenteral Nutrition (TPN)	Pentoxifylline	Sildenafil	Sodium Bicarbonate	Sodium Chloride 0.9%	Vancomycin	
Adrenaline																									
Alprostadiil																									
Benzylpenicillin	C																								
Caffeine (base)																									
Calcium Gluconate	C		C																						
Dobutamine	C	C	X		C																				
Dopamine	C	C	C	C	C	C																			
Furosemide	C	C	C	X	C	X	M																		
Gentamicin	C	C	C		C	C	C	X																	
Glucose 5%	M	M	C	C	C	C	C	M	C																
Glucose 10%	C	C		C	C	C	C	M	C	C															
Glucose 25%										C	C														
Indometacin			C		X	X	X	C	X	C	X														
Meropenem				M	X	C	C	C	C	M	C														
Metronidazole	C				C	C	C	C	C	C					M										
Midazolam	C		C		C	M	C	X	C	C			X		C										
Morphine Sulphate	C		C		C	C	C	M	C	C	C		X	C	C	C									
Noradrenaline	C		C		C	M	C	C	C	M	C			C	C	C	C								
Parenteral Nutrition (TPN)		C	C	C	M	C	C	C	C	C	C	C			C	M	M								
Pentoxifylline	C	C	C	C	X	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C					
Sildenafil										C														C	
Sodium Bicarbonate	X		C		X	X	C	C	C	C	C	C	C	X	C	X	C	X	C	C	C				
Sodium Chloride 0.9%	C	M	C		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Vancomycin	C	C			C	C	C	X	C	C	C		X	C	C	C	C	C	C	C	C		M	C	

**C** Compatible at Y-site  
**M** Mixed reports, contact Pharmacy  
**X** Incompatible  
 Blank No data available

\* This table refers to concentrations used in the neonatal medication guidelines ONLY and should not be used for any other clinical area



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