## LRI ED IV Phenytoin Infusion Guide: Patients >49kg

Do not use if patient is already taking Phenytoin . Use children's version of this aid if patient weighs <50kg

## **Notes**

- Phenytoin is usually prescribed on NC Meds: Go to Emergency Medicine (ED) > Common scenarios (ED) >
   Seizures > Phenytoin, then select the dose appropriate for the patient's weight. Use this aid only if NC is offline.
- This guide is intended for use in conjunction with the UHL guideline Management of status epilepticus in adults
- Total infused dose (for those weighing 50 102.5kg) when using table below will be 20 (+/- 0.5) mg/kg up to a maximum of 2g (patients weighing 97.6kg or more will all receive 2g only)
- Phenytoin must only be given in the ER (resuscitation room)
- Continuous ECG monitoring must be in place and blood pressure and respiratory rate must be measured frequently
- Standard infusion rate (independent of patient weight or total dose) is
  60mL/h (i.e. giving 50mg/min)
- Stop infusion if low BP or bradycardia observed; once resolved restart at 30mL/h (i.e. giving 25mg/min)
- Phenytoin is infused NEAT, as dilution may cause precipitation and is therefore discouraged by the manufacturer
- When given neat, an in-line filter is not required
- Flush IV line generously with 0.9% NaCl both before and after giving phenytoin

Find required volume of **NEAT** Phenytoin in table below. **DO NOT dilute.**Each vial contains 250mg in 5mL (i.e. 50mg/ml; **1mg = 0.02mL**). Draw up exact amount in a 60mL syringe.

	Weight	Phenyto	oin dose	Infusion rate			
		20m	ig/kg	Normal - 60mL/h Slow - 30ml (delivers 50mg/min) (delivers 25mg			
kg		Volume <sub>mL</sub>	Dose mg	Time infusion will take to complete (NB: for information only)			
	50.0 - 51.2	20	1000	20	40		
	51.3 - 53.6	21	1050	21	42		
	53.7 - 56.0	22	1100	22	44		
	56.1 - 58.5	23	1150	23	46		
	58.6 - 60.9	24	1200	24	48		
	61.0 - 63.4	25	1250	25	50		
	63.5 - 65.8	26	1300	26	52		
	65.9 - 68.2	27	1350	27	54		
	68.3 - 70.7	28	1400	28	56		
	70.8 - 73.1	29	1450	29	58		
	73.2 - 75.6	30	1500	30	60		
	75.7 - 78.0	31	1550	31	62		
	78.1 - 80.4	32	1600	32	64		
	80.5 - 82.9	33	1650	33	66		
	83.0 - 85.3	34	1700	34	68		
	85.4 - 87.8	35	1750	35	70		
	87.9 - 90.2	36	1800	36	72		
	90.3 - 92.6	37	1850	37	74		
	92.7 - 95.1	38	1900	38	76		
	95.2 - 97.5	39	1950	39	78		
	97.6 & over	40	2000	40	80		

## Example prescription for 72.6kg patient

PARENTERAL INFUSIONS											
	Infusion Fluid		Additions to Infusion						Signatures		
Date	Type/Strength	Vol.	Medicine	Dose	Route	Time to run or ml/hr	Prescriber	Fluid Batch No.	Start Time	Given by	Checked by
28/03/19	50mg/mL	29mL	PHENYTOIN (neat)	1450mg	IV	60mL/h	Your Name				