

TOBRAMYCIN DOSING WORKSHEET

NOTE:

- Aminoglycosides are to be continuously dosed (i.e. antibiotic in all dialysate bags)
- Continuously dosed antibiotics are prescribed as a concentration (i.e. mg/L)

1. Patient's Current PD Prescription

(Clarify with nursing staff/parent the number and size of dialysate bags used)

Baxter Dialysis Solutions	
0.5% Dianeal	2L TB/ 2L LL
1.5%, 2.5%, 4.25% Dianeal (Twin Bag)	2L/ 2.5L
1.5%, 2.5%, 4.25% Dianeal (Luer Lock)	3L /5L
1.36%, 2.27%, 3.86% Physioneal (Luer Lock)	3L / 5L
7.5% Extraneal	2L TB/ 2.5L LL

** TB =Twin Bag; LL = Luer Lock

2. Dosing

Tobramycin	Loading Dose (A)	Maintenance Dose (B)
	8 mg/L	4 mg/L

3. Administration

(Also refer to parent antibiotic mixing instruction sheets)

A. Loading Dose (generally use 2 L Twin Bag):

i. $2 \text{ L} \times \text{mg/L (A)} = \text{mg (C)}$

ii. $\text{mg (C)} \div 40 \text{ mg/mL} = \text{mL}$

Instill and dwell for minimum of 6 hours, then commence maintenance dosing.

B. Maintenance Dose (select bag sizes to be used by patient when on cycler (including last fill bag) or twin bags (if CAPD), as per usual PD prescription:

$2 \text{ L} \times \text{mg/L (B)} = \text{mg} \div 40 \text{ mg/mL} = \text{mL}$
(Add to each 2 L bag)

$2.5 \text{ L} \times \text{mg/L (B)} = \text{mg} \div 40 \text{ mg/mL} = \text{mL}$
(Add to each 2.5 L bag)

$3 \text{ L} \times \text{mg/L (B)} = \text{mg} \div 40 \text{ mg/mL} = \text{mL}$
(Add to each 3 L bag)

$5 \text{ L} \times \text{mg/L (B)} = \text{mg} \div 40 \text{ mg/mL} = \text{mL}$
(Add to each 5 L bag)

4. Example Prescription

(For outpatient prescription, please order for 3 days to cover empiric therapy)

Tobramycin for intraperitoneal administration for peritonitis:

Loading Dose:

Add _____ mg/L **(A)** x 2 L dialysate x 1 dose.

Maintenance Dose:

Add _____ mg/L **(B)** x $\frac{\text{total volume of all bags used per day}}{\text{litres}}$ = _____ mg