Adult Amikacin Dosing² Calculate dosing weight (see Table 1) Use **ONCE DAILY** Is CrCl Yes AMIKACIN (ODAmik) >60mL/min? **NOMOGRAM** (see dosing nomogram below) No Use TRADITIONAL If patient fails ONCE DAILY **DOSING** AMIKACIN NOMOGRAM Choose target peak Select dosing interval (see Table 4) (see Table 2) Loading Dose = (target Maintenance Dose = Loading Dose – 50 mg¹ peak x dosing weight x $(0.3)^{1}$

Table 1: Dosing Weight

Is patient obese? If **NO**, dosing weight = total body weight. If **YES**, calculate dosing weight below. Dosing weight calculation:

- Calculate lean body weight (LBW):
 LBW = 2.3 (inches over 5 feet tall) + [45 (female) or 50 (male)]
- 2. If total body weight (TBW) is >40% above lean body weight (LBW), dosing weight = LBW + 0.4(TBW-LBW)

Table 2: Dosing Interval

CrCl (mL/min)	Dosing Interval	
≥ 90	Every 8 hours	
60-89	Every 12 hours	
25-59	Every 24 hours	
10-24	Every 48 hours	
<10	Per levels	
CRRT	Per levels	
Hemodialysis ²	After HD	

Table 3: Monitoring

Table 5: Monitoring

Key Points About Obtaining Levels

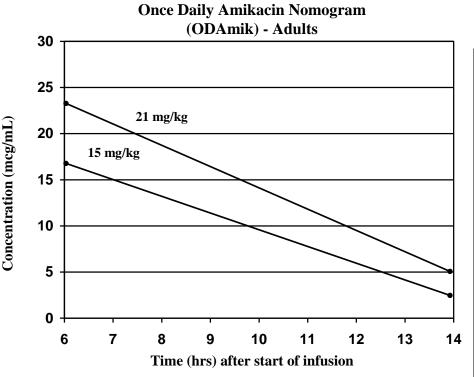
- If using **TRADITIONAL DOSING**, peak and trough concentrations should be obtained around the 4th dose (to ensure steady state). Adjust dose to reflect target peak & trough.
 - ⇒ Peak concentrations should be obtained at least 30 minutes after a 1 hour infusion.
 - ⇒ Trough concentrations should be obtained just before the next scheduled dose.
- Peaks and troughs are not necessary if dosing by **ONCE DAILY** method (use nomogram)

Table 4: Target Concentrations (mcg/mL)

Indication Target Target Peak Trough			
UTI	15-20	≤ 2-4	
Pneumonia	27-30	≤ 4	
Bacteremia	25-30	≤ 4	
Abdominal	25-30	≤ 4	
Cellulitis	25-30	≤ 2-4	
Urosepsis	20-25	≤ 2-4	

ODAmik Nomogram Dosing

- Use total body weight unless patient is obese
- If obese, see **Table 1** above to calculate dosing weight
- Dose is 15 or 21 mg/kg q24 hours
- ullet Consider 15 mg/kg when pathogen MIC is known to be \leq 4 mcg/mL or for treatment of UTI, cellulitis, or pyelonephritis



- ¹ Round dose to **nearest 50** mg
- ²Consultation with a clinical pharmacist for amikacin dosing is recommended

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Dose Confirmation on Nomogram

- Confirmation should occur after first dose
- In place of peak & trough concentrations, follow the sequence below:
- Obtain random serum concentration
 Hours after dose
- 2. Plot concentration on nomogram
- 3. If below line for respective dose, continue dose
- 4. If above line, use flow chart of Traditional Dosing shown above
- 5. Repeat dose confirmation every 7 days and/or in the event of changes in renal function