



Special Considerations

- Principles of effective antibiotic treatment and antibiotic stewardship:
 - Use the highest safe dose
 - Prescribe for the shortest reasonable duration, generally 5-7 days
 - Use narrow spectrum antibiotics based on likely pathogens
- When appropriate, convert IM to PO regimen for patient comfort.
- Facial Cellulitis: more common in adults over 50
- For infection associated with human or dog bite, puncture wound, or laceration, consider expanding evaluations and differential diagnosis.
- Review patient's goals of care including POST form and hospitalization preferences.

Antibiotics Renal Dosing Adjustments

- Cefazolin < 55 ml/min
 - Cephalexine < 30 ml/min
 - Daptomycin < 30 ml/min
 - Piperacillin/Tazobactam < 40 ml/min
 - Vancomycin (see dosing box below)
- * Note: You will need to make dose adjustments at the levels of creatinine clearance listed above. If antibiotic not on list, there are no dosage adjustments provided in the manufacturer's labeling.

CMS Certification Criteria for Skin and Soft Tissue Infection

Skin Infection
(up to 7 days)

- Infection with **new** onset of warm and/or erythematous and/or swollen/indurated skin requiring oral or parenteral antibiotic therapy or antiviral therapy.
 - If associated with an existing skin ulcer or wound, there is an acute worsening with **new** signs of infection such as purulence, exudate, and/or induration.
- AND One or more of the following:**
- Fever $\geq 100^{\circ}$ F (oral) or two degrees above baseline
 - White blood cell count $\geq 12,000$

Vancomycin Dosing

- Why a loading dose? A single loading dose of 20 mg-30 mg /kg (based on actual body weight) can facilitate a more rapid attainment of target trough serum vancomycin concentration.
- Give loading dose x 1, maintenance dose should follow at suggested intervals below
- Maximum initial dose = 2000 mg

Cockcroft-Gault CrCl (min/ml)	Dose	Comments
> 60	15 mg/kg every 12 hours (30 mg/kg/day)	- Use actual body weight - Round to nearest 250 mg
30 - 59	15 mg/kg every 24 hours	- Morbidly obese may need higher doses - Obtain trough levels (within 30 minutes before next dose) with the fourth dose of a new regimen (3rd dose for patients with dosing intervals > 24 hours)
16 - 29	15 mg/kg every 48 hours	- Serum creatinine should be checked every 1-3 days
≤ 15	Give 1 dose(15 mg/kg); redose when level below recommended trough	- Vancomycin should be infused over 30 minutes for each 500 mg increment (e.g., 500 mg over 30 minutes, 1000 mg over 1 hour)

- Target Vancomycin trough level is 10 - 15 mcg for mild-to-moderate infection
- Target Vancomycin trough level is 15- 20 mcg for mild-to-moderate infection

These are recommendations from expert consensus and an extensive literature review, including the AMDA Clinical Practice Guidelines. In practice, use your clinical judgements for individual patient care.