



Once Daily Gentamicin Dosing Policy For Postpartum Endometritis/Chorioamnionitis



Indications:

- Postpartum endometritis
- Postpartum treatment of chorioamnionitis - *Prior to delivery, use conventional gentamicin dosing (e.g., 1-2 mg/kg/dose IV q8hrs); start once daily dosing 8 hours after conventional dose*

Inclusion criteria:

- Current postpartum weight
- Age \geq 18 years old
- Normal renal function (serum creatinine $<$ 1.4mg/dL) - *Must obtain baseline serum creatinine in patients with increased risk for renal insufficiency prior to receiving once daily gentamicin including:*
 - History of renal dysfunction
 - Diabetes mellitus
 - Preeclampsia
 - Toxemia

Dosing Recommendation:

1. Assess if patient is obese using height and postpartum weight - *Refer to table on reverse side to determine obesity*
2. If **NOT** obese, use ACTUAL postpartum body weight (PPABW):
GENTAMICIN DOSAGE = 5mg/kg X PPABW IV q24hrs
3. If obese, use postpartum DOSING body weight (PPDBW):
PPDBW = PPIBW + 0.4 (PPABW - PPIBW)
GENTAMICIN DOSAGE = 5mg/kg X PPDBW IV q24hrs

Follow-up Monitoring:

- SERUM GENTAMICIN CONCENTRATIONS are **NOT** warranted unless the patient meets at least one of the following criteria:
 - a. Increased risk for renal insufficiency (risk factors listed above)
 - b. Duration of gentamicin therapy is continued for $>$ 3 days
 - c. Patient is not responding to antibiotic therapy
- If serum gentamicin concentrations are warranted (refer to list above):
TWO GENTAMICIN CONCENTRATIONS should be obtained 4 AND 12 hours after the dose (order as "4 and 12 random gentamicin concentrations")
 - A pharmacist on the Clinical Pharmacokinetics Service (#1740) will automatically assess the concentrations and calculate the gentamicin trough (goal: $<$ 1mg/L) and recommend a new dosage if necessary.
 - A pharmacy resident on-call (#1875) is also available after 5pm and weekends if necessary.
- If duration of therapy continues $>$ 3 days, suggest checking a serum creatinine
- If duration of therapy continues $>$ 7 days, suggest checking gentamicin TROUGH CONCENTRATION to assess for potential accumulation



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Height	PPIBW ¹ (kg)	PPABW considered to be obese ² (kg)
4'10"	49	62
4'11"	52	65
5'0"	54	68
5'1"	56	70
5'2"	59	73
5'3"	61	76
5'4"	63	79
5'5"	66	82
5'6"	68	85
5'7"	70	88
5'8"	72	91
5'9"	75	93
5'10"	77	96
5'11"	79	99
6'0"	82	102
6'1"	84	105
6'2"	86	108
6'3"	89	111
6'4"	91	114
6'5"	93	116
6'6"	95	119

1. PPIBW = postpartum ideal body weight

PPIBW (kg) = 54* + (2.3 X every inch in height over 5 feet).

NOTE: PPIBW calculated by adding 9kg (20lbs) to normal ideal body weight.

2. Patient is considered obese if PPABW is >125% X PPIBW.