

AUR Calculation Examples

Antibiotic Days

A baby on ampicillin and gentamicin for EOS rule out for 24 hours:

Ampicillin 300 mg IV q12h and Gentamicin 12 mg IV q24h

1/10/18 first doses administered at 1500 (i.e. 1 ampicillin and 1 gentamicin)

1/11/18 second dose of ampicillin administered at 0300 (1 ampicillin)

Total antibiotic days = 3

If this same baby would have received initial doses in the am:

1/10/18 first doses administered at 0800 (i.e. 1 ampicillin and 1 gentamicin)

1/10/18 second dose of ampicillin administered at 2000

Total antibiotic days = 2

It is my understanding that when Gentamicin is q36h or q48h, only the day it is administered is counted as an antibiotic day.

AUR

Add up all antibiotic days (this will be the numerator)

Total patient days for the month will serve as the denominator (this number is provided by our Quality department)

Equation (solve for "x" to determine AUR): $\frac{\text{Antibiotic days}}{\text{Patient days}} = \frac{x}{1000 \text{ patient days}}$

Last month, PVH had 160 antibiotic days and 460 patient days, so the AUR =

$$\frac{160}{460} = \frac{x}{1000} = 347.8 \text{ (round up to 348)}$$

or

$$(160 \div 460 \times 1000) = 347.8 \text{ (round up to 348)}$$