

# Pharmacy Conversions

Sched Abbr.			
ac	before meals	q4h	every 4 hours
qhs	@ bedtime	q6h	every 6 hours
prn	as needed	q8h	every 8 hours
pc	after meals	q12h	every 12 hours
qid	4 x daily	po	orally by mouth
bid	2 x daily	s.q./s.c.	subcutaneous
tid	3 x daily	stat	@ once
qod	every other day	ut.dict.	use as directed

Dosage Abbr.			
amp	ampule	ung/oint	ointment
EC	Enteric Coated	syr	syringe
DS	double strength		
gtts	drops		
inj	injection		
supp	suppository		
susp	suspension		
DNREF: do not refrige after dispensing			

Temp Conversion
C to F = 32 + (1.8 x C)
F to C = (F - 32)/1.8

IV Admixture fl abbr.
D = dextrose NS NaCl = 0.9%
# = % strength
fraction = % strength of NaCL solution
W, NS, or LR = solution type

Parts of syr:	Parts of Admin set:
tip	Spike Additive Port
barrel	Drip Chamber
inner core plunger	Roll Clamp
	Filter Device

Household (liquid)	Exact	Approx
20 drops (gtts)	1ml	1ml
1 teaspoon (tsp)	5ml	5ml
1 tablespoon (tbsp)	15ml	15ml
1 dram (dr)	3.69ml	5ml
1 fluid ounce (fl oz)	29.57ml	30 ml
8 fluid ounce (1 cup)	236.56ml	240ml
16 fluid ounce (1 pint)	473ml	480ml
1 pint (96 tsp)	480ml	
2 pints (1 quart)	946ml	960ml
1 gallon (4 quarts)	3784 ml	3840 ml

% strength: all over 100 (x/100)
w/v = weight(g)/Volume(ml)
w/w = weight(g)/weight(g)
v/v = volume(ml)/volume(ml)

Household (solid)	Exact	Approx
1 grain (gr)	65mg	65mg
5 grains	325mg	325mg
10 grains	650mg	650mg
1 ounce (oz)	28.35g	28.35g
1 pound (lb)	373.2g	454g
2.2 pounds (lbs)	1kg	1kg

Ratio/proportions
a:b::c:d = ration denotion
a/b = c/d proportion denotion

Ratio strength
1 unit active drug: X units of total form.
$\frac{\text{known amount active}}{\text{known amount total}} = \frac{1 \text{ unit active}}{X \text{ units total}}$

Weight based dosage Calculations
$\frac{\text{mg of drug}}{\text{kg of body weight}}$ convert wt to kg
set up equation
solve for unknown

Alligations		
A:		D:
	B:	
C:		E:
A: greatest % strength total parts: D+E		
B: desired % strength		
C: weakest % strength		
D: (B-C)= parts of greatest % strength		
E: (A-B) = parts of weakest % strength		
$\frac{D}{\text{Total Parts}}$	X desired volume	= volume of A
$\frac{E}{\text{Total Parts}}$	X desired volume	= volume of C

Drip Rates
$\frac{\text{total volume being infused(ml)}}{\text{total time of infusion (hr/min)}} \times \text{drop factor (gtts/ml)} = \text{drip rate (gtts/min)}$
$\frac{\text{desired dosage (want)}}{\text{dosage available (have)}} \times \text{drop factor (gtts/ml)} = \text{drip rate (gtts/min)}$

IV Flow Rate
$\frac{\text{total volume being infused(ml)}}{\text{total time of infusion (hr/min)}} = \text{rate of infusion (ml/hr(min))}$ (used when entire volume of IV bag is to be infused)
$\frac{\text{desired dosage (want)}}{\text{dosage available (have)}} = \text{rate of infusion (ml/hr(min))}$ (used when a given concentration is known)
$\frac{\text{known ml of fluid infused (known rate)}}{1 \text{ hour}} = \frac{X \text{ ml (unknown value)}}{\text{Total time of infusion (hr or min)}}$

**When determining % to actually what you need; put the % given over 100**

<b>Fried's Rule:</b> (age in months/ 150) X adult dose
<b>Young's Rule:</b> (age in years/age +12) X adult dose
<b>Clark's Rule:</b> (weight in lbs/150) X adult dose

1:10,000 = 1 unit (g/ml) active ing/10,000 (g/ml) of total formulation