

Student Learning Advisory Service

Contact us

Please come and see us if you need any academic advice or guidance.

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Open

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Open

Monday to Friday, 09.00 – 17.00

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The Student Learning Advisory Service (SLAS) is part of the Unit for the Enhancement of Learning and Teaching (UFLT)

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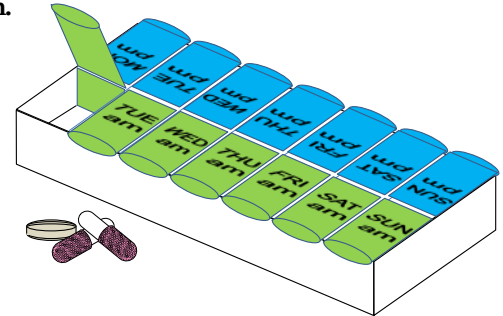
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AT A GLANCE/ PHARMACY CALCULATIONS PRESCRIPTIONS (1)

Calculating the quantity of tablets/capsules required for a prescription.



Example 1

A patient is prescribed ibuprofen orally, 800mg three times daily for one month. You have 400mg tablets. How many should you supply?

Method

Step 1: Calculate

$$2 (\times 400\text{mg}) \times 3 (\text{times daily}) \times 28 \text{ days} = \mathbf{168 \text{ tablets}}$$

NB: in prescribing practice one month is 28 days

Example 2

How many tablets of Drug A will you need for a full supply for the following prescription.?

Drug A tablets 200mg. Use the following dosage regime:

	OM*	ON*
1 Day	200mg	200mg
2 Days	200mg	400mg
3 Days	400mg	400mg
4 weeks	400mg	600mg

* OM = every morning; ON = every night

Method

Step 1: Convert the amounts into the number of tablets to be taken

$$\begin{aligned}200mg &= 1 \text{ tablet} \\400mg &= 2 \text{ tablets} \\600mg &= 3 \text{ tablets}\end{aligned}$$

Step 2: Calculate the number of tablets for each period

$$\begin{aligned}1 \text{ day} \times 2 \text{ tablets} &= 2 \text{ tablets} \\2 \text{ days} \times 3 \text{ tablets} &= 6 \text{ tablets} \\3 \text{ days} \times 4 \text{ tablets} &= 12 \text{ tablets} \\28 \text{ days} \times 5 \text{ tablets} &= 140 \text{ tablets}\end{aligned}$$

Step 3: Add together to calculate the total

$$2 + 6 + 12 + 140 = \mathbf{160 \text{ tablets}}$$
 ✓

Example 3

A prescription calls for 1000mg of drug B to be taken daily for 3 months, thereafter to be reduced by 200mg daily to zero over 4 weeks. Assuming drug B is available in 200mg tablets, how many will be needed for a full supply?

Method

Step 1: Convert the amounts into the number of tablets to be taken

$$1000mg = 5 \text{ tablets}, 800mg = 4 \text{ tablets, etc ...}$$

Step 2: Calculate the number of tablets for each period

$$\begin{array}{l} \text{Reduction to} \\ \text{zero over 4} \\ \text{weeks} \end{array} \left\{ \begin{array}{l} 3 \times 28 \text{ days} \times 5 \text{ tablets} = 420 \text{ tablets} \\ 7 \text{ days} \times 4 \text{ tablets} = 28 \text{ tablets} \\ 7 \text{ days} \times 3 \text{ tablets} = 21 \text{ tablets} \\ 7 \text{ days} \times 2 \text{ tablets} = 14 \text{ tablets} \\ 7 \text{ days} \times 1 \text{ tablet} = 7 \text{ tablets} \end{array} \right.$$

Step 3: Add together to calculate the total

$$420 + 28 + 21 + 14 + 7 = \mathbf{490 \text{ tablets}}$$
 ✓

Q1

A patient is prescribed Drug C, two 150mg tablets four times daily for two weeks. How many tablets should you supply?

Q2

You are presented with the following directions on a prescription:

Drug A tablets 100mg. Use the following dosage regime:

	OM*	ON*
3 Days	100mg	100mg
3 Days	100mg	200mg
5 Days	200mg	200mg
6 weeks	200mg	300mg

How many tablets of Drug E will you need for a full supply?

Q3

A prescription calls for 1000mg of drug D to be taken daily for 1 month, thereafter to be reduced by 250mg daily each week to zero. How many 250mg tablets should you supply?

Q4

A patient is prescribed metformin tablets, 500mg twice daily for one week, thereafter to be increased by 500 mg increments daily each week, as tolerated, up to a maximum of 2000mg daily. How many 500mg tablets should you supply for the first month?

Q5

A prescription asks for 10mg of drug F, once daily for 3 months, thereafter to be reduced by 2mg daily each week to zero. You have 2mg capsules in stock; how many should you supply?

Answers

Q1 = 112 tablets. **Q2** = 245 tablets. **Q3** = 154 tablets.

Q4 = 91 tablets. **Q5** = 490 capsules.