

into 8 equal pieces and taking 1 piece) =

MEASURING

The amount of medicine in each tablet or capsule is usually given as grams (g), milligrams (mg), or micrograms (mcg).

1 g = 1000 mg	1 gram has 1000 milligrams
1 mg = 0.001 g	This means a milligram is much smaller than a gram.
1000 mcg = 1 mg	It takes 1000 milligrams to make 1 gram.

Examples:

One regular aspirin tablet contains 300 milligrams of aspirin.	.3 g 0.3 g 0.300 g 300 mg	}	All these are different ways of saying 300 milligrams.
One low-dose aspirin contains 75 milligrams of aspirin.	.075 g 0.075 g 75.0 mg 75 mg	}	All these are different ways of saying 75 milligrams.

Note: Where medicines are still weighed in grains (gr), 1 gr = 65 mg. This means a 5 gr aspirin tablet has about the same amount of aspirin as a 300 mg tablet.

Many times it is important to know how many grams or milligrams are in a medicine.

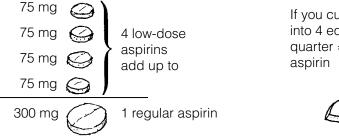
For example, if you want to give a low-dose aspirin to a pregnant person to prevent pre-eclampsia but only have regular aspirin, read the small print on the labels of each.

On the regular aspirin it says: aspirin (acetylsalicylic acid) 0.3 g

On the low-dose aspirin it says: aspirin (acetylsalicylic acid) 0.075 g



0.3~g = 300 mg and 0.075 g = 75 mg. So one regular aspirin has 4 times as much medicine as one low-dose aspirin.



If you cut the regular aspirin into 4 equal pieces, each quarter = one low-dose aspirin



So if you cut a regular aspirin into 4 pieces, you can give the pregnant person 1 piece in place of a low-dose aspirin. Both are equal, and the piece of regular aspirin costs less.

CAUTION: Many medicines, especially antibiotics, come in different strengths and sizes. For example, tetracycline may come in 3 sizes of capsules:



Be careful to only give medicine in the recommended amounts. It is very important to check how many grams or milligrams the medicine contains.

For example: if the prescription says: Take tetracycline, 1 capsule of 250 mg 4 times a day, and you have only 50 mg capsules, you have to take five 50 mg capsules 4 times a day (20 capsules a day).

MEASURING PENICILLIN 50 mg + 50 mg + 50 mg + 50 mg + 50 mg = 250 mg $\bigcirc + \bigcirc + \bigcirc + \bigcirc + \bigcirc = \bigcirc$ Penicillin is often measured in units. U = unit 1,600,000 U = 1 g or 1,000 mg Many forms of penicillin (pills and injections) come in doses of 400,000 U.

400,000 U = 250 mg

MEDICINE IN LIQUID FORM

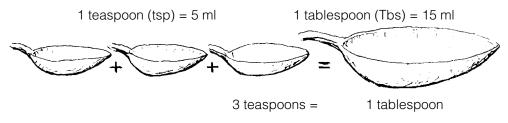
Syrups, suspensions, tonics, and other liquid medicines are measured in milliliters:

ml = milliliter

liter =
$$1000 \text{ ml}$$

1

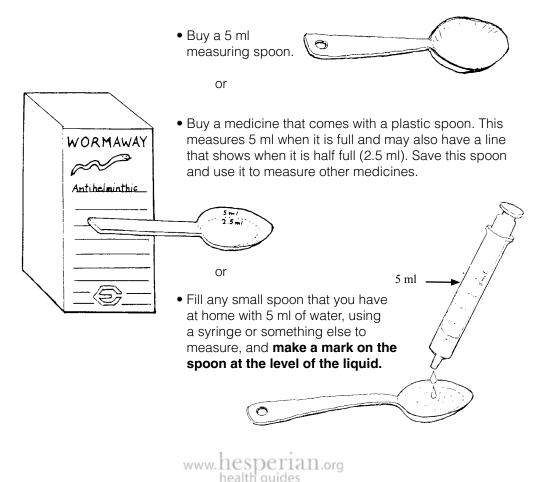
Often liquid medicines are prescribed in tablespoons or teaspoons:



When instructions for a medicine say: Take 1 tsp, this means take 5 ml.

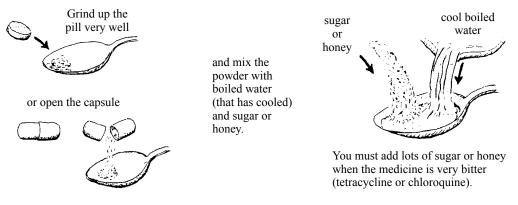
Spoons that people use at home are often called "teaspoons" but they may be smaller or bigger than a teaspoon used for measuring medicines. When using a teaspoon to give medicine, it is important that it measure 5 ml.

How to Make Sure that the Teaspoon Used for Medicine Measures 5 ml



HOW TO GIVE MEDICINES TO SMALL CHILDREN

Many medicines that come as pills or capsules also come in syrups or *suspensions* (special liquid form) for children. If you compare the amount of medicine you get, the syrups may be more expensive than pills or capsules. If there are no syrups or to save money, you can make your own syrup:

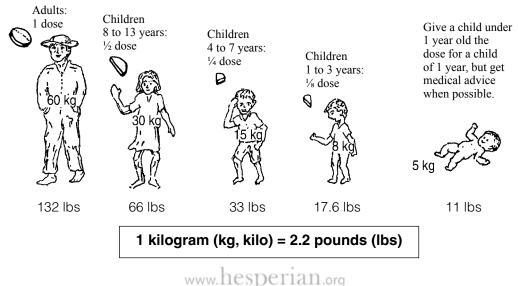


When making syrups for children from pills or capsules, be very careful not to give too much medicine. Also, do not give honey to babies under 1 year of age. Though it is rare, some babies can have a dangerous reaction.

CAUTION: To prevent choking, do not give medicines to a child while she is lying on her back, or if her head is pressed back. Always make sure she is sitting up or that her head is lifted forward. Never give medicines by mouth to a child while she is having a seizure, or while she is asleep or unconscious.

HOW MUCH MEDICINE SHOULD YOU GIVE TO CHILDREN WHEN YOU ONLY HAVE THE INSTRUCTIONS FOR ADULTS?

Generally, the smaller the child, the less medicine he needs. Giving more than needed can be dangerous. If you have information about the doses for children, follow it carefully. If you do not know the dose, figure it out by using the weight or age of the child. Children should generally be given the following portions of the adult dose:



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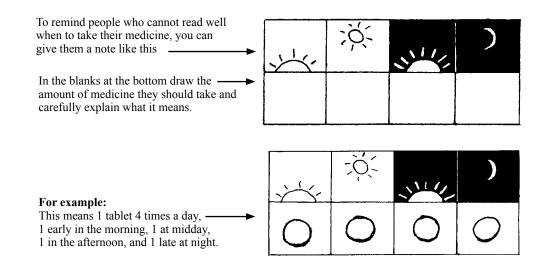
HOW OFTEN TO TAKE MEDICINES



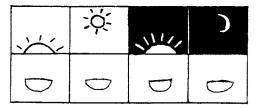
It is important to take medicines as close as you can to the times recommended. Some medicines should be taken only once a day, but others must be taken more often. If you do not have a clock, there are other ways you can do this. If the directions say "1 pill every 8 hours," take 3 a day: one early in the morning, one in the afternoon, and one at night. If they say "1 pill every 6 hours," take 4 each day: one in the

morning, one at midday, one in the afternoon, and one at night. If the directions are "1 every 4 hours," take 6 a day, allowing about the same time between pills.

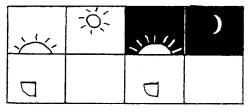
Whenever you give a medicine to someone else, it is a good idea to write the instructions and also to have the person repeat to you how and when to take the medicine. Make very sure he understands.



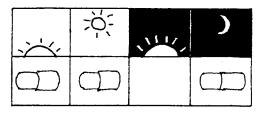
This means 1/2 tablet 4 times a day.



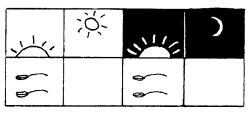
This means 1/4 tablet twice a day.



This means 1 capsule 3 times a day.



This means 2 teaspoons twice a day.

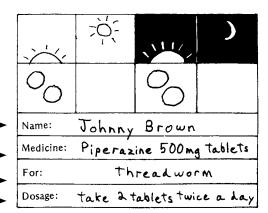


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WHEN YOU GIVE MEDICINES TO ANYONE . . .

Always write all the following information on the note with the medicine—even if the person cannot read:

the person's name ______ the name and strength of _____ the medicine _____ what it is for ______ the dosage _____



This information can be put on the same note as the drawing for dosage.

A page of these dosage blanks is included at the end of the book. Cut them out and make extra copies to use as needed. You can also draw these yourself.

When you give medicine to someone, it is a good idea to keep a record of this same information. If possible, keep a complete Patient Report (p. 44).

TAKING MEDICINES ON A FULL OR EMPTY STOMACH

Some medicines work best when you take them when the stomach is empty—that is, one hour before meals or at least 2 hours after a meal.

Other medicines are less likely to cause upset stomach or heartburn (chest pain) when taken along with a meal or right afterwards.

Take these medicines 1 hour before or 2 hours after meals:

- penicillin
- ampicillin
- doxycycline
- tetracycline

It is better not to drink milk or take antacids 2 hours before or after taking doxycycline or tetracycline. Take these medicines together with or soon after meals (or with a lot of water):

- aspirin and medicines that contain aspirin
- ibuprofen
- iron (ferrous sulfate)
- vitamins
- erythromycin

Antacids do the most good if you take them when the stomach is empty, 1 or 2 hours after meals and at bedtime.

Note: It is best to take medicines while you are standing or sitting up. Also, try to drink a glass of water each time you take a medicine. If you are taking a sulfa medicine, it is important to drink lots of water, at least 8 glasses a day, to prevent harm to the kidneys.