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Diploma in Pharmacy 2nd Year
Community Pharmacy & Management
Experiment

To study appropriate handling with correct administration techniques of oral liquids with measuring cup/cap/dropper

Aim:

To study appropriate handling with correct administration techniques of oral liquids with measuring cup/cap/dropper.

Reference :

‘ Dr. Gupta G.D. , Dr. Sharma Shailesh, Dr. Gupta Richa, “Practical Manual of Community Pharmacy and Management” Published by Nirali Prakashan, Page no 80 – 84

Theory :

Liquid drugs are a helpful alternative for children and adults (particularly older adults) who have problems swallowing pills or capsules.

Handling and Administration Technique of Oral Liquids Using a Measuring Cup/Cap

The bottle of liquid medication should be shaken vigorously before measuring the recommended amount, as part of the medication may have "settled" at the bottom. Frequently, the lid of a liquid over-the-counter drug has a tiny medicine cup.)

1. **Measuring Medicine:**
   - **i)** The cup that comes with the medicine should be used. These frequently cover the liquid cold and flu medication caps The cups should not be mixed and matched. The right amount of medicine should be given
   - **ii)** It should not be simply filled The lines and letters on the cap should be examined carefully The numbers should be used to fill

the cup to the right line. The pharmacist or doctor should be asked to mark the appropriate line for child. The cup should be placed on a flat surface, like a table, to confirm that the cup is filled to the right amount. The cup should not be held at the tip or at an angle because it can lead to measure wrong amount.

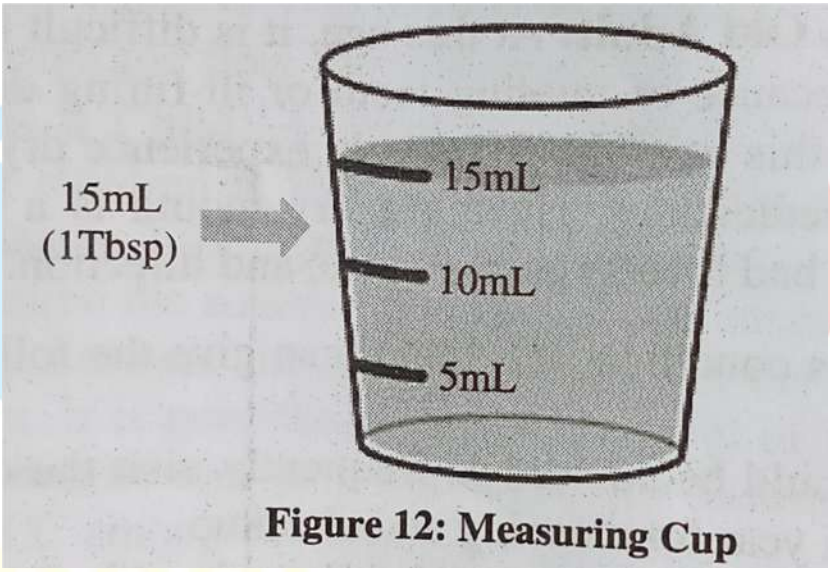

Figure 12: Measuring Cup

2. **Remove the Cap:** The cap should be removed from the bottle and placed it in a safe place with the opening facing up so that the interior will not be polluted by the environment.
3. **Before Filling the Medication Cup:** The cap should be placed on a flat, level, sturdy surface and bend down position should be maintained so that the measuring lines are easily seen during pouring. The cup should not be held in the air during pouring because doing so could result in inaccurate readings Additionally, distance should be maintained from the cup during pouring in order to prevent the reading from being distorted by the position.
4. **Starting Pouring the Medication:** The bottle of medication should be held in a way that protects the label from medication spillage For performing this. the medication label on the bottle should be held with the inside of the hand covering it and the label facing up.
5. **Pour the Liquid Medication:** The liquid medicine should be poured slowly up to the measurement line. The excess medication per facility's

protocols should be removed if there is extra medication in the cup. The medication should not be added back to the bottle because doing so can contaminate the medicine within.

6. **When Pouring is Finished:** A clean, dry napkin should be used to remove any excessive medication around the opening of the bottle once the pouring is done This prevents drug layers from accumulating and medicine from leaking onto the label.
7. **Secure the Cap:** The cap should be secured back onto the medication bottle.The medication should be stored as directed, for example, refrigerator or room temperature.
8. **Cleaning a Medicine Cup:**
   i) The cup should be washed with warm running water and a mild dishwashing soap to get rid of any drug traces
   ii) It should be washed under running water
   iii) It should be allowed to dry in air or wiped with a lint free towel.

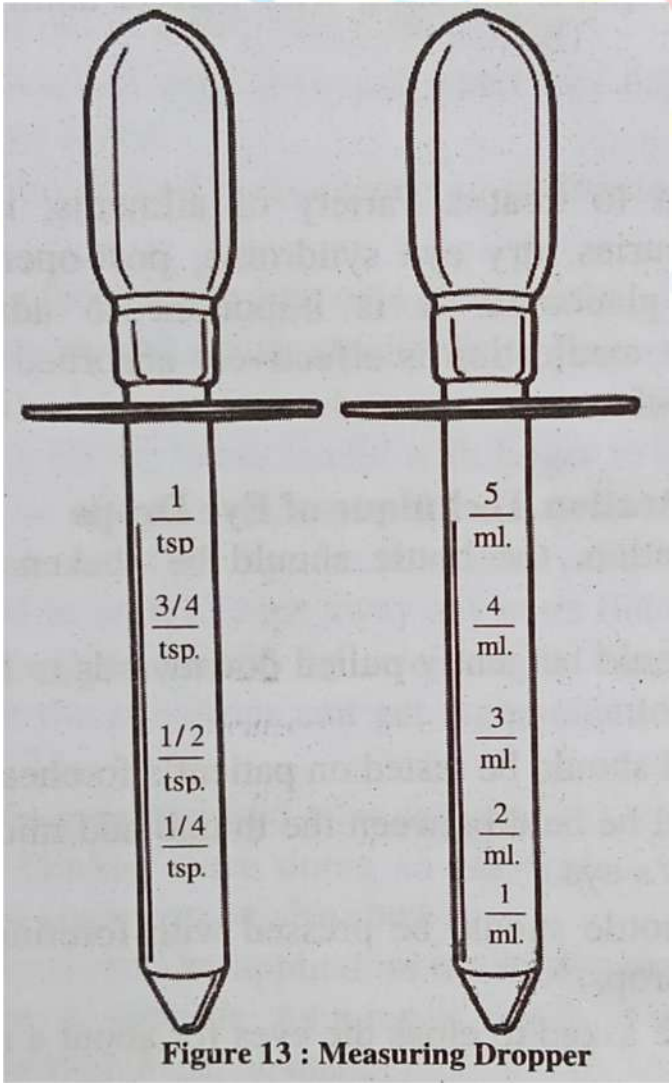

Figure 13 : Measuring Dropper

Handling and Administration Technique of Oral Liquids Using a Measuring Dropper (figure: 13)

1) The medicine bottle should be opened.
2) The dropper should be taken and marked for the amount or dose of drug required 2 different measurements, ie, teaspoon (tsp) and millilitre (ml),
3) The bulb end should be squeezed and the up of the dropper should be placed into the medicine bottle.
4) The pressure should be slowly discharged of the bulb and this results the medication to pull up into the dropper
5) The dropper tip should be pulled out from the liquid and the pressure on the bulb should be released after adjusting the dosage to the right level.
6) It should be confirmed that the dosage of the medication is accurate. The bulb should be squeezed to either remove extra medication to draw up more medication if necessary
7) The dropper tip should be squeezed gently to release the medication by inserting it into the child's mouth like a feeding spoon. It should be confirmed that the child is sarting up when providing the medication. The tip of the dropper should be inserted towards the children's cheek to prevent pushing the medicine out with their tongue
8) The bulb should he removed from the dropper and both pieces should be washed with warm water and mild soap. The pieces should be washed with clean water and the pieces should be air dried on a clean towel.

Result :

Appropriate handling with correct administration techniques of oral liquids with measuring cup/cap/dropper was studied.