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Diploma in Pharmacy 1st Year
Pharmaceutics
Experiment
To demonstrate appropriate methods of usage and storage of spacers.

Aim:

To demonstrate appropriate methods of usage and storage of spacers.

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam’ “Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 116 – 119

Theory :

A spacer is a tube made of plastic with a mouthpiece on one end. On the other hand, a person can connect his/her inhaler to the device. The inhaler is a device that releases medication in the form of puffs into the air, allowing the patient to breathe it in. The time it takes for the drug to enter the lungs is prolonged by using a spacer It also allows a patient to take more time to inhale the drug. allowing it to reach the lungs more effectively.

In addition, the spacer concentrates the drug inside a tube, preventing it from escaping into the atmosphere Spacers are especially useful for younger children or those who are just beginning to use an inhaler,

Procedure :

The following are the steps for using most inhalers and spacers:

1) The inhaler, spacer, and mouthpiece should be inspected to make sure there is enough medicine left and for any dirt or debris.

2) The position of sitting or standing with the back straight, keeping the head in a normal position (not too far backward or forward) should be taken before and during delivering the medicine.
3) As much air as possible should be exhaledfrom the lungs.
4) One puff of medicine should be sprayed and inhaled slowly over about 3-5 seconds, sealing the mouth tightly around the inhaler so that the air cannot escape. If a whistling noise is been produced while inhaling the medicine, this means the inhalation is too fast.
5) The breath should be held for 10 seconds, counting in the head or using a timer.
6) Then the inhaler should be removed from the mouth and exhalation should be done.
7) The process should be repeatedby taking as many puffs as the doctor had prescribed. I minute gap should be made between each puff if the used inhalers contain albuterol, such as Ventolin or Pro Air.
8) The mouth should be rinsed with water if inhaled corticosteroid is used. This may reduce the chance of getting an oral infection.
9) The spacer should be cleaned once used, as the manufacturer directs. Usually, the spacer's rubber end should be removed and the remaining parts should be washed in warm, soapy water After rinsing, the spacer should be air-dried thoroughly..

Storage

The spacer should be kept away from dust and liquids. If the spacer is carried in the bag, it should be kept in a plastic-free sealed purse or small bag so it does not get scratched, and the small objects do not get stucked inside it.

Result :

The appropriate methods of using and storing the spacers were studied.