MEDICATIONS ADMINISTERED BY METERED-DOSE INHALER (MDI)



	Metered-Dt	JSE IIIIdielS			
What is a metered-dose inhaler?	Commonly used drugs in metered-dose inhalers:		Medication canister		
 Most common type of inhaler Uses a press-and-breathe method Delivers a specific dose of medications 	 Inhaled cortico Combination di 	 Short-acting beta-2 agonists (SABAs) Inhaled corticosteroids (ICS) Combination drugs: long-acting bronchodilate 		Inhaler –	
in aerosol form	(LABAs) and ICS			Barrel device	
Advantages of MDIs	Disadvantages of MDIs				
 Convenient and easy to carry Non breath activated More cost effective than dry powder inhale Requires no preparation 	 High pharynge 	 Patient coordination required High pharyngeal deposition Challenging to ascertain the remaining doses 			uthpiece
	Types o	of inhalers			
Metered-dose inhalers	Dry powder inhalers		Soft mist inhalers		
 Hold medication in a pressurized canister Propellant sends medication out of the mouthpiece. 	Store medicine as a powder inside capsules Capsules are activated when the inhaler is ready to be used.		 Turn liquid medicine into a low-velocity aerosol mist Can be slowly inhaled through the mouth No propellant used 		
Rescue inhalers			Maintenar	nce inhalers	
Short-acting bronchodilators Not meant to be used on		 Long-term control 			

Metered-Dose Inhalers

For acute symptoms a daily basis Reduce swelling and tightening of airways Quickly open the airways • Block immune system chemicals

Patient Education

- How to use a metered dose inhaler 1 in 10 easy steps
- 1. Take off cap, shake inhaler, prime.
- 2. Stand up or sit up straight.
- 3. Breathe out completely and empty your lungs.
- 4. Place mouthpiece on your mouth.
- 5. Close lips to form a tight seal or use 2-finger space as directed.
- 6. Start to breathe in, press down top of canister to release one "puff" of medicine.
- 7. Continue to breathe in for 3–5 seconds.
- 8. Hold your breath and count to 10.
- 9. Take mouthpiece off your mouth and release your breath, rinse your mouth with water.
- 10. Put cap back on the inhaler.

NOTES

- How to use a metered-dose 2 inhaler with a spacer
- 1. Take off cap, shake inhaler, prime.
- 2. Stand up or sit up straight, take cap off.
- Connect inhaler into 3 chamber/spacer.
- Breathe out away from the device.
- 5. Put the chamber mouthpiece into your mouth.
- 6. Press inhaler once and breathe deep and steadily.
- 7. Hold breath for 10 seconds, then breathe out slowly.
- Rinse your mouth with water.
- Put the cap back on the inhaler.



- Mnemonic:
- S Shake well

press

- Prime inhaler Ρ
- 0 Breathe out
- R Rest inhaler on mouth or use 2-finger spacing

T Ten seconds, hold breath

- Headache 5. Shakiness Take deep breath and
 - 6. Tachycardia

Thrush

steroids)

2. Mouth sores

3. Hoarse voice

(with cortico-

1.