



colistimethate

- Brand Name: Colymycin, Colistin
- Alternative to Tobi in drug-resistant strains of Pseudomonas.
- From a group of antibiotics known as polymyxins and is similar to polymyxin B.
- Supplied as a powder that needs to be reconstituted.
- Has been identified to produce bronchospasm in some patients.
 - May require pre-treatment with a bronchodilator.
- Dose:
 - Children less than 2 years of age: 1 MU twice daily.
 - Children older than 2 years of age & adults: 2 MU twice daily

A decorative graphic on the left side of the slide. It features a vertical bar with a color gradient from blue at the bottom to orange at the top. Three arrows are positioned at the top of the bar: a grey arrow pointing left, a red arrow pointing right, and an orange arrow pointing up.

Other Agents

- bupropion (Zyban, Wellbutrin)
 - Antidepressant usually used to treat major depressive disorders and season affective disorders.
 - Also decreases urge to smoke; mechanism is unclear.
- varenicline (Chantix)
 - Mechanism of action is to partially block the $\alpha 4$ - $\beta 2$ nicotinic receptor in the brain.
 - Within 10 to 20 seconds of a single puff from a cigarette, nicotine attaches to this receptor.
 - The receptor, in turn, triggers large increases in dopamine, which rewards the smoker with a pleasurable sensation.

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Nicotine Replacement Therapy

- Precautions/Instructions
 - Replacement formulas DO contain nicotine.
 - Side effects can occur if using replacement formulas with tobacco.
 - Transference of nicotine dependency can occur.
 - Replacement formulas should be gradually withdrawn and stopped within 3 months.
 - HCW should avoid handling nicotine products.
- varenicline and bupropion: Mood swings even after drug has been stopped; some instances of suicide ideation have been associated with Chantix.
 - Questionable whether Chantix had direct influence or not.

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