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Summary Ipratropium is an anticholinergic drug used in the control of symptoms related to bronchospasm in chronic obstructive pulmonary disease (COPD). Brand Names Atrovent, Combivent, Ipravent Generic Name Ipratropium DrugBank Accession Number DB00332 Background Ipratropium is a quaternary ammonium derivative of atropine4 that acts as an anticholinergic agent. It is commonly administered through inhalation which allows producing a local effect without presenting a significant systemic absorption.4 Ipratropium as a therapeutic agent was developed by Boehringer Ingelheim and its first monotherapy product was FDA approved in 1986, while the combination product of ipratropium and albuterol was approved in 1996.12,11 Type Small Molecule Groups Approved, Experimental Structure Weight Average: 332.463 Monoisotopic: 332.2220205 Chemical Formula C20H30NO3 Synonyms bromuro de ipratropio Ipratropium cation Ipratropium ion Indication Inhaled ipratropium is indicated in combination with inhaled beta-agonist systemic corticosteroids for the management of severe exacerbations of asthma flares requiring treatment.1 Asthma exacerbations are characterized by a progressive increase in one or more of asthma symptoms accompanied by a decrease in expiratory flow.13 As a single agent, ipratropium was indicated for the symptomatic relief of rhinorrhea associated with the common cold or seasonal allergic rhinitis for patients 5 years or older. It does not alleviate nasal congestion nor sneezing. Label Rhinorrhea refers to recurrent or chronic watery nasal discharge. This condition is debilitating and its pathogenesis and etiology is complex and not very well understood presenting very substantial cost burden.14 Additionally, ipratropium is indicated as a bronchodilator for maintenance treatment of bronchospasm associated with chronic bronchitis and emphysema. Label The chronic obstructive pulmonary disease a large number of conditions characterized by breathlessness. As this includes several conditions, the etiology, symptoms, and treatments are diverse.15 Ipratropium has also been studied to be used for the treatment of sialorrhea.2 Sialorrhea is a common symptom that accompanies different neurologic conditions and it is characterized by drooling or excessive salivation.5 Reduce drug development failure rates Build, train, & validate machine-learning models with evidence-based and structured datasets. Build, train, & validate predictive machine-learning models with structured datasets. Associated Conditions Contraindications & Blackbox Warnings Avoid life-threatening adverse drug events Improve clinical decision support with information on contraindications & blackbox warnings, population restrictions, harmful risks, & more. Avoid life-threatening adverse drug events & improve clinical decision support. Pharmacodynamics Ipratropium is a short-acting agent that inhibits the parasympathetic nervous system at the level of the airway which then produces bronchodilatation. The effect of this agent starts after 1-2 hours and it is known to last only from 4 to 6 hours.3 As part of the effect, ipratropium relaxes the bronchial airways which reverse the narrowing that accounts for wheezy breathing, chest tightness, cough and abnormal gas exchange.6 In clinical trials where ipratropium was used in the initial management of status asthmaticus, it was demonstrated a clear benefit in pulmonary function in children and adults. However, the continuous use of ipratropium after an acute asthmatic attack is not proven to be significantly advantageous1 nor the prophylactic administration of this agent.8 Mechanism of action Ipratropium acts as an antagonist of the muscarinic acetylcholine receptor.1 This effect produces the inhibition of the parasympathetic nervous system in the airways and hence, inhibit their function. The function of the lla ll lla ,noitrop detanimile neht morf 3. 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Improve decision support and search results with our structured negative effects data. Toxicity The LD50 reported in mice after oral administration of ipratropium is 1500 mg/kg. MSDS However, overdose is not very likely due to the bad absorption of ipratropium. Label Ipratropium has not been shown to present carcinogenesis, teratogenesis non mutagenesis potential and has no effects on fertility. The only effect after high administration of ipratropium was a reduction in the rate of conception. Label Pathways Not available Pharmacogenomic Effects/ADR not available Drug interaction This information should not be interpreted without the help of a health care provider. If you think you have an interaction, contact a health care provider immediately. The absence of an interaction does not necessarily mean that there are no interactions. Drug Interaction 1,2-Benzodiazepine 1,2-Benzodiazepine can increase the depressor activities of the central nervous system (depressive CNS) of Ipratropium. 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