



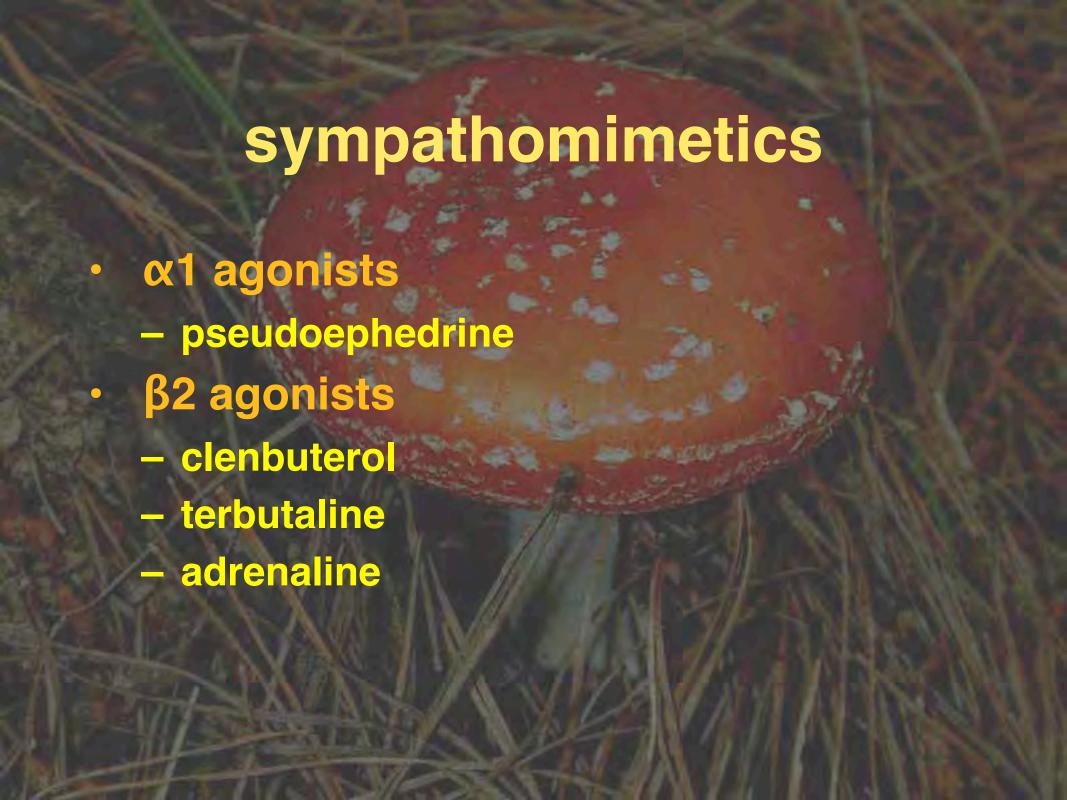




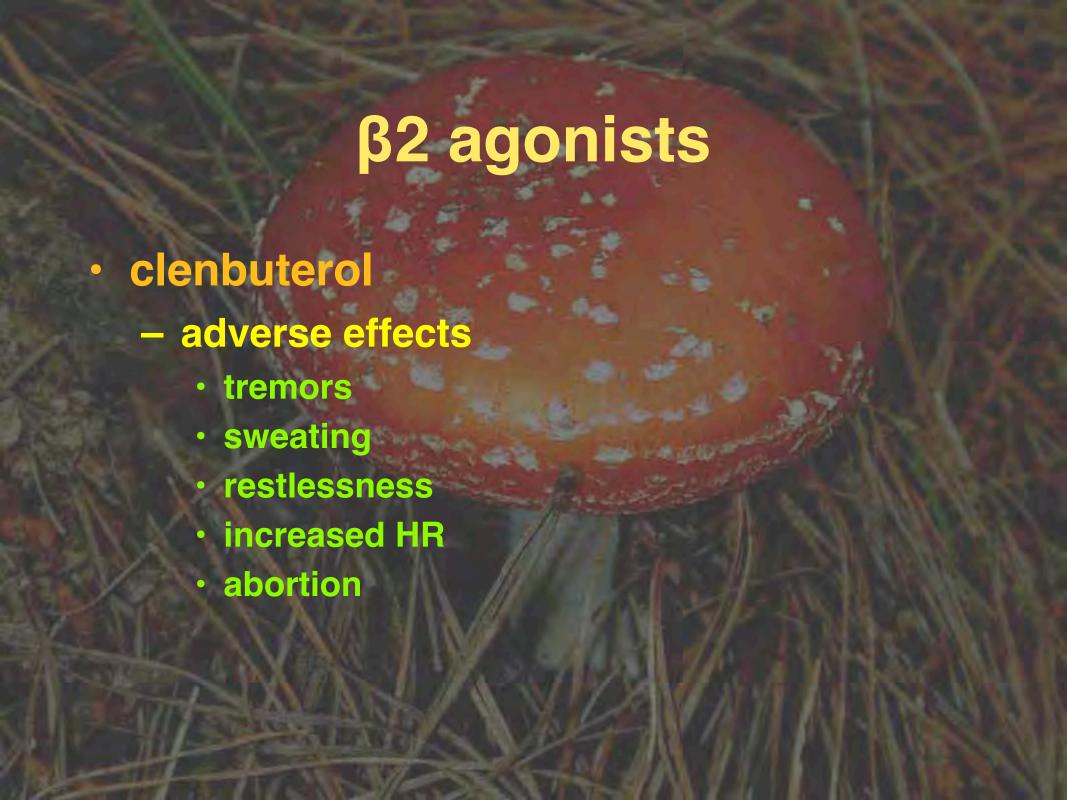
bronchodilators

- bronchoconstriction is a major problem in man (asthma)
- some importance in cats and horses
- dogs??
- not important in ruminants
- guinea pigs are the most susceptible species









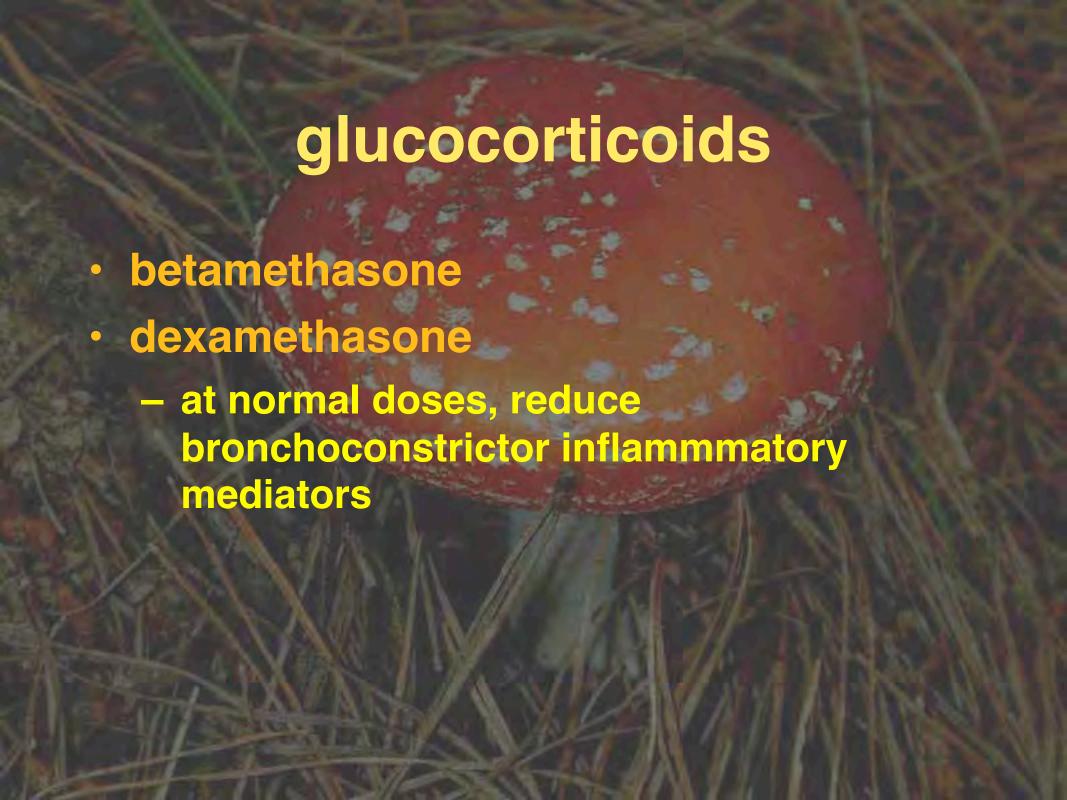


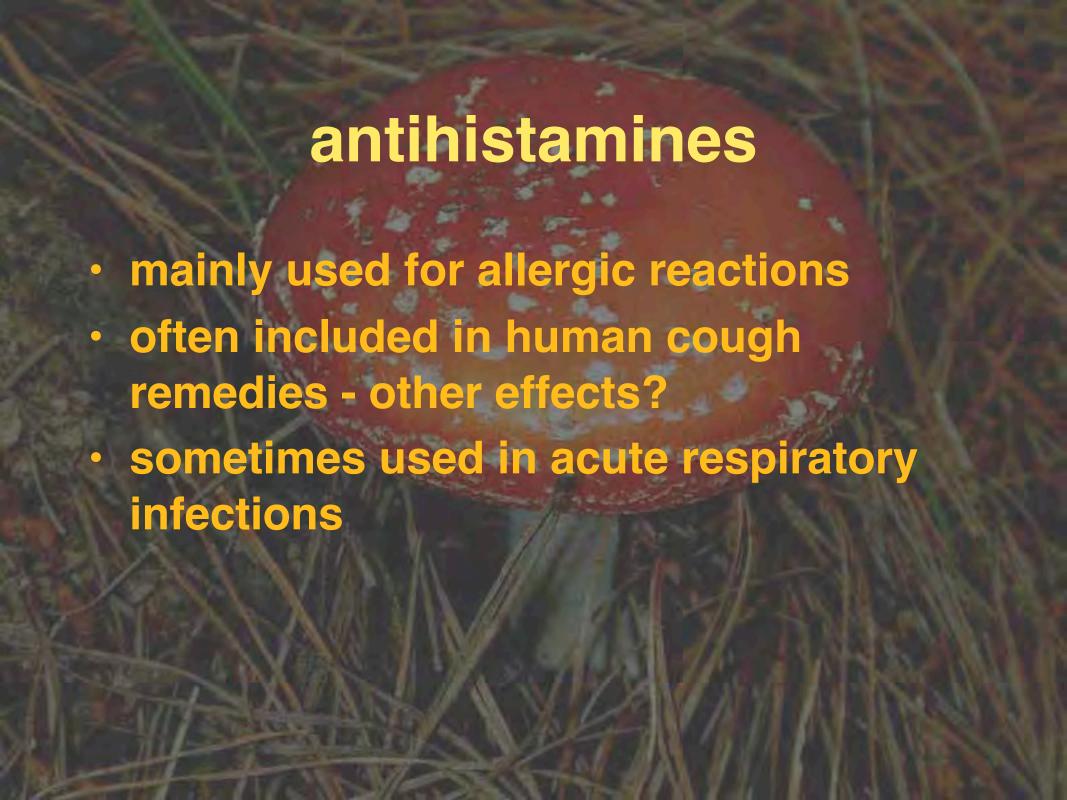


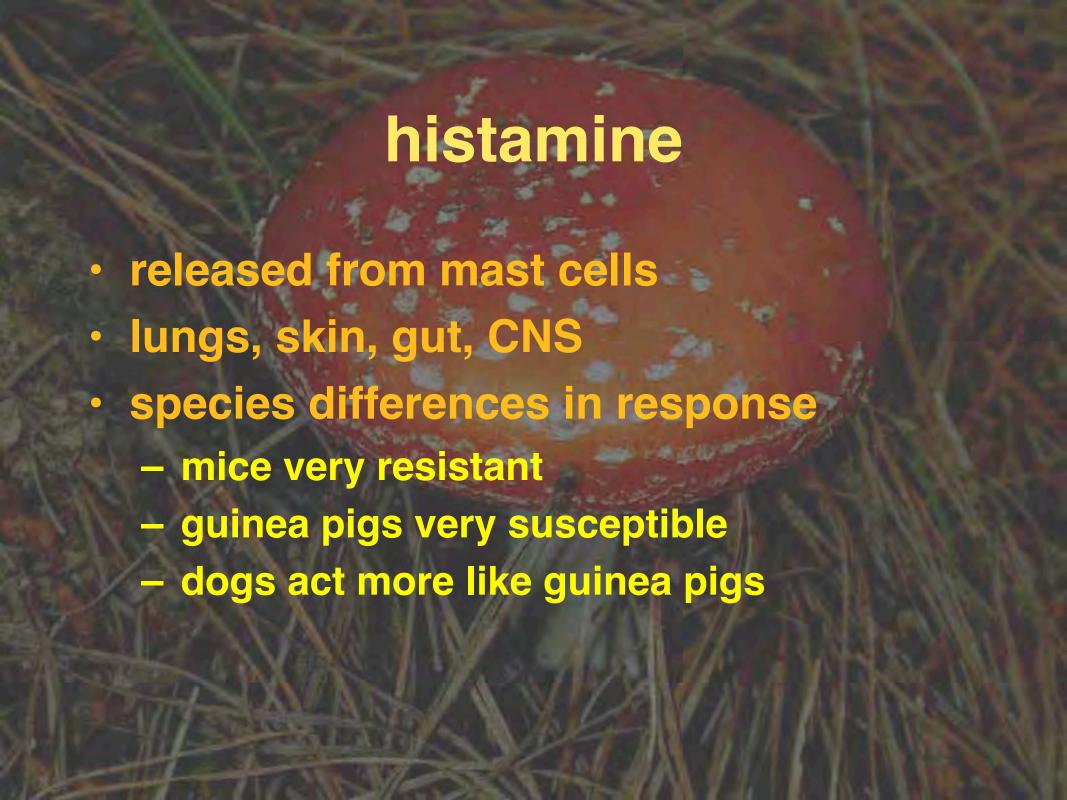
antimuscarinics

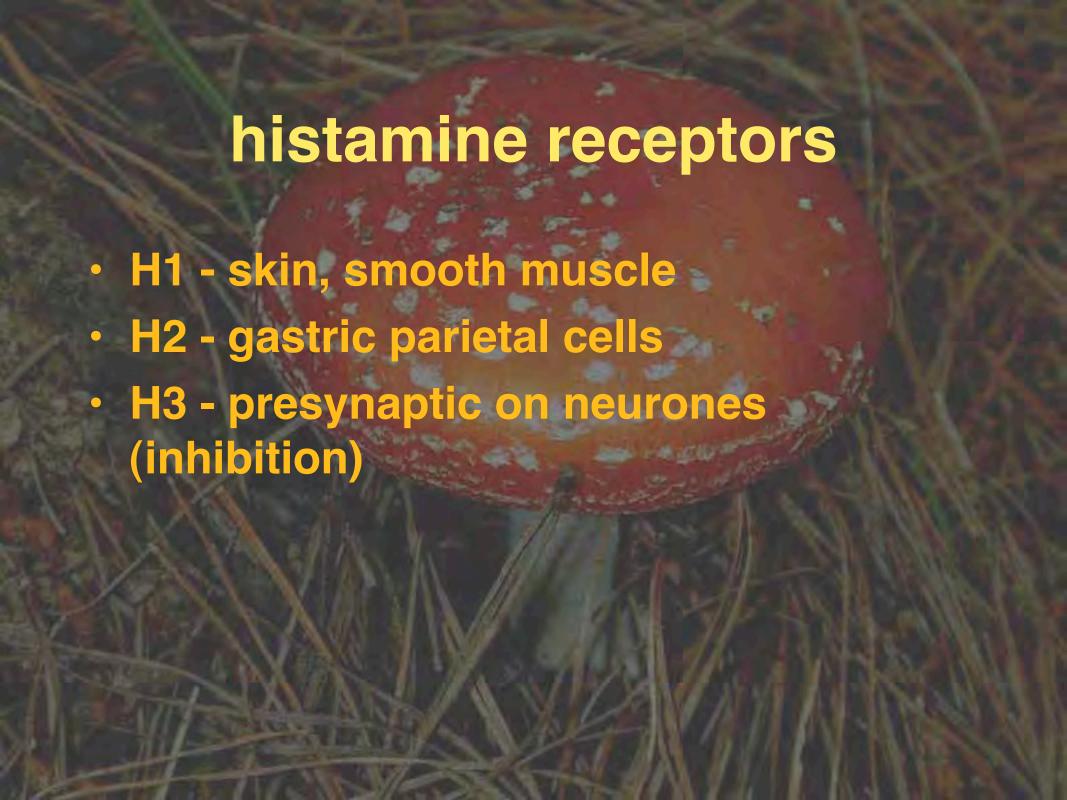
- atropine
 - historically used in horses
 - reduces secretions
 - increases viscosity of mucus
 - may be useful as an adjunct to other drugs
 - adverse effects
 - dry mouth, dysphagia, constipation, vomiting, thirst, sedation, 1 heart rate, blurred vision, etc.

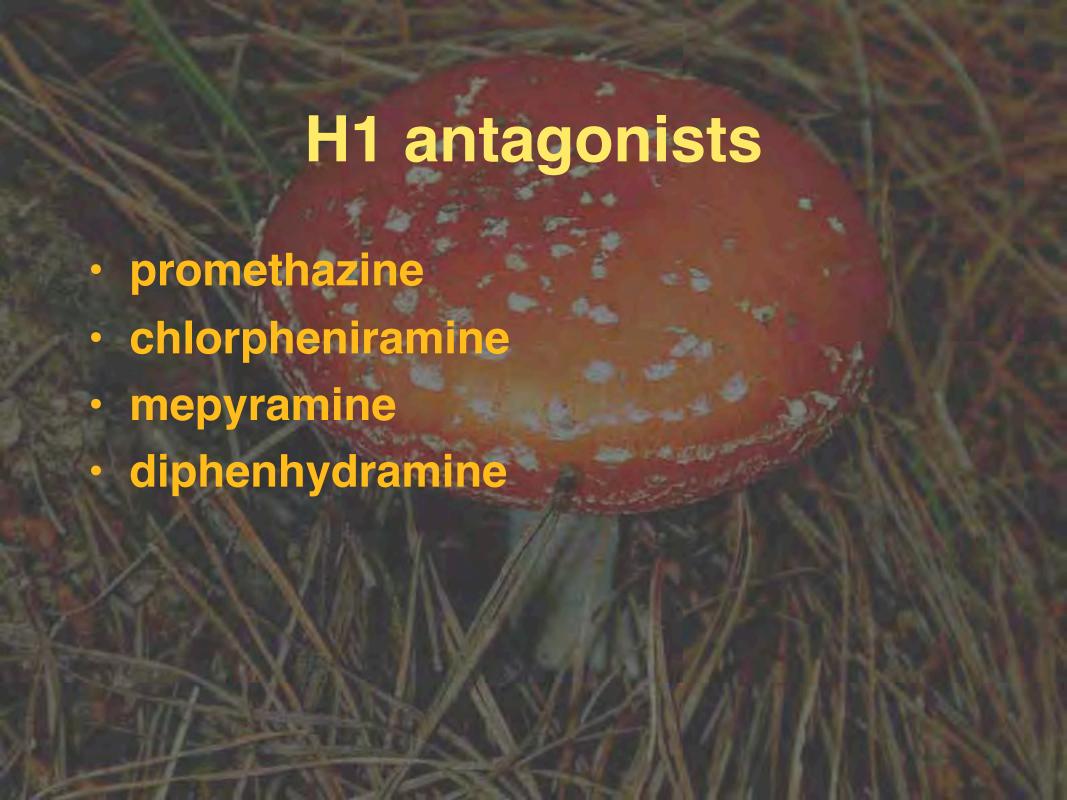


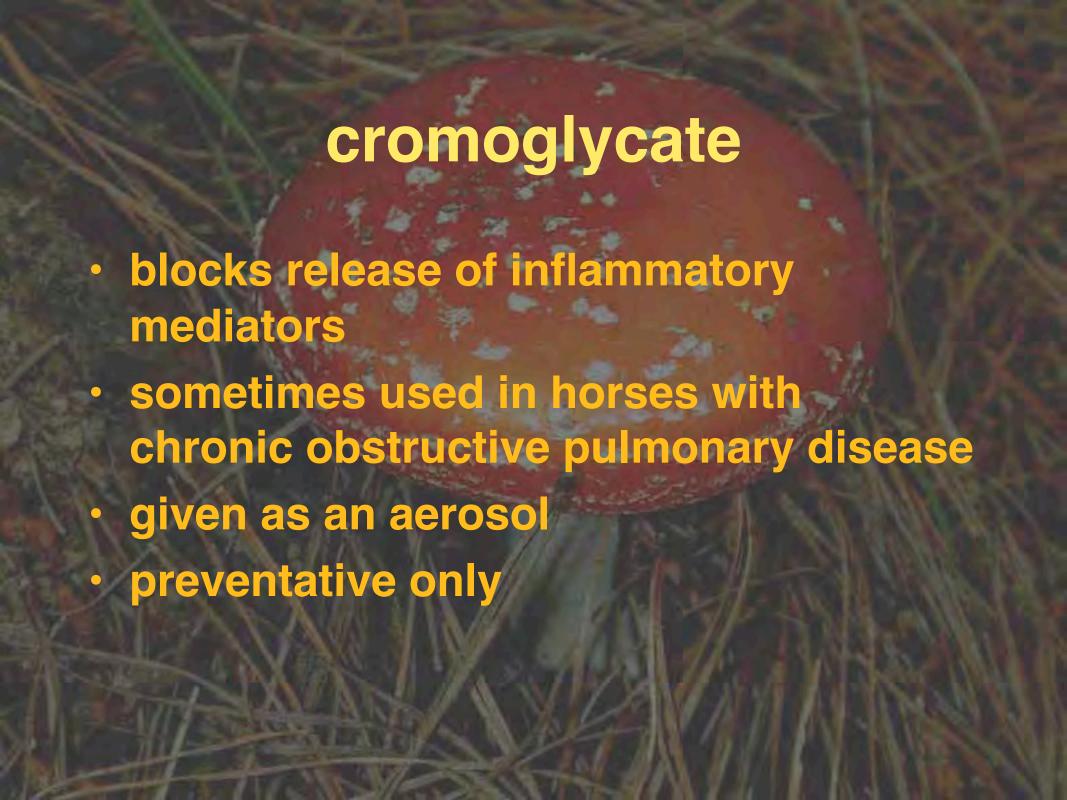


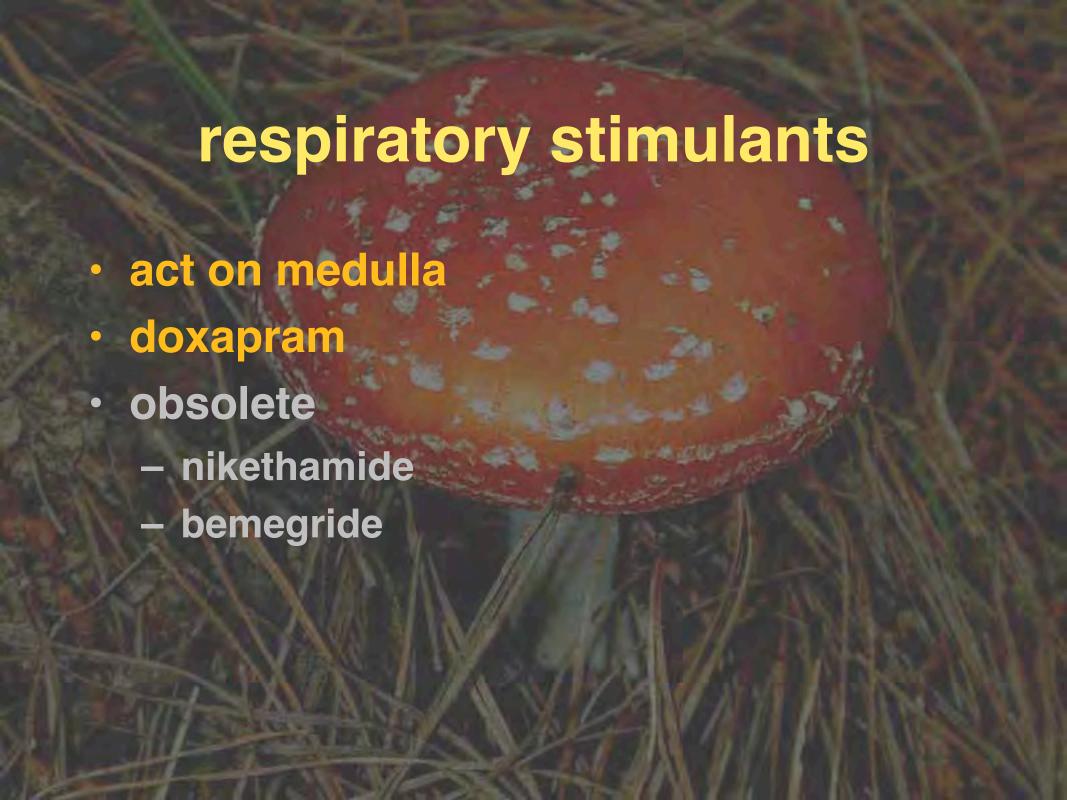












respiratory system

- antibiotics are given for infections stop secondary bacterial infections after viruses
- expectorants are used to loosen and remove mucus
- codeine and butorphanol stop unproductive coughing
- animals with fluid in the lungs require oxygen and sometimes diuretics