

# Salbutamol

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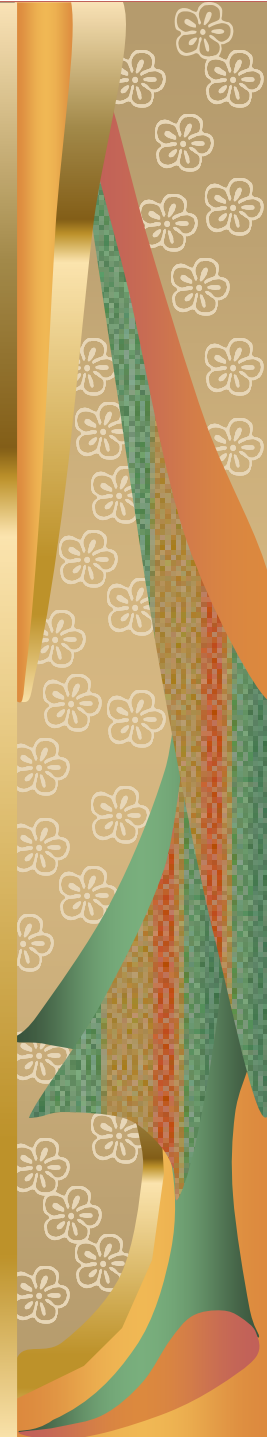
Chem. 1520

Tues & Thurs.



# Introduction

- **Asthma is a chronic respiratory disease characterized by inflammation of airways in the lungs, the bronchi.**
- **During an asthma attack, the smooth muscle surrounding the bronchi contracts and the lining of the bronchi swells; this swelling is life threatening because the airways can be blocked.**
- **Asthma affects more than 30 million people in the US.**
- **In 2002, more than 4000 people died of asthma.**



# Inventors of Salbutamol

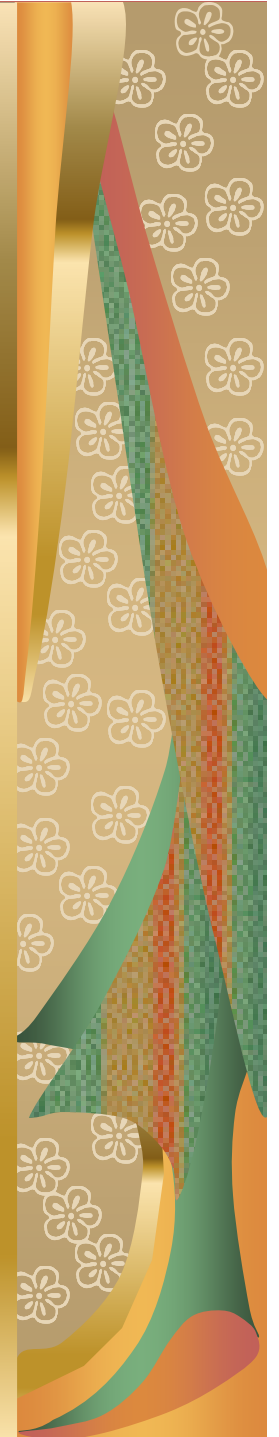
- In 1969, Allen and Hanburys (Part of GlaxoSmithKline) launched this successful asthma drug.
- It was marketed three years after its synthesis.



# What is Salbutamol

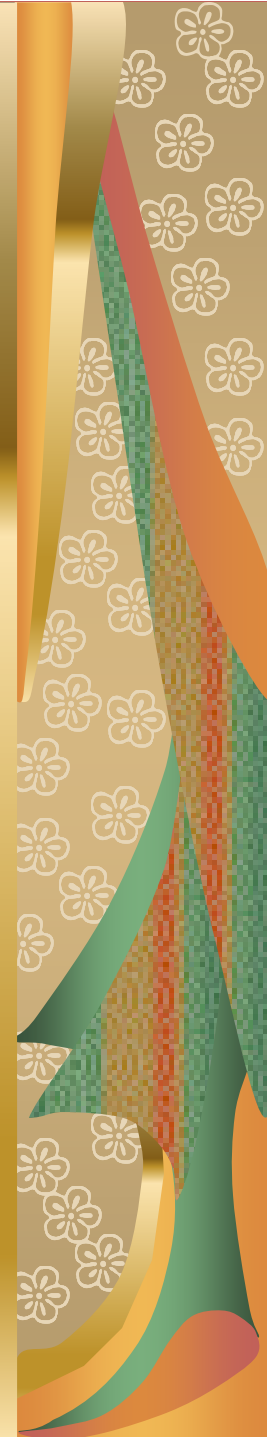
Salbutamol is one  $\beta$ -agonist bronchodilators, the largest group among the various classes of inhaled asthma drugs.

B-agonist can be traced back to adrenal extracts that were used to treat asthma in the late 1880's and the synthesis of epinephrine, is also known as adrenaline.

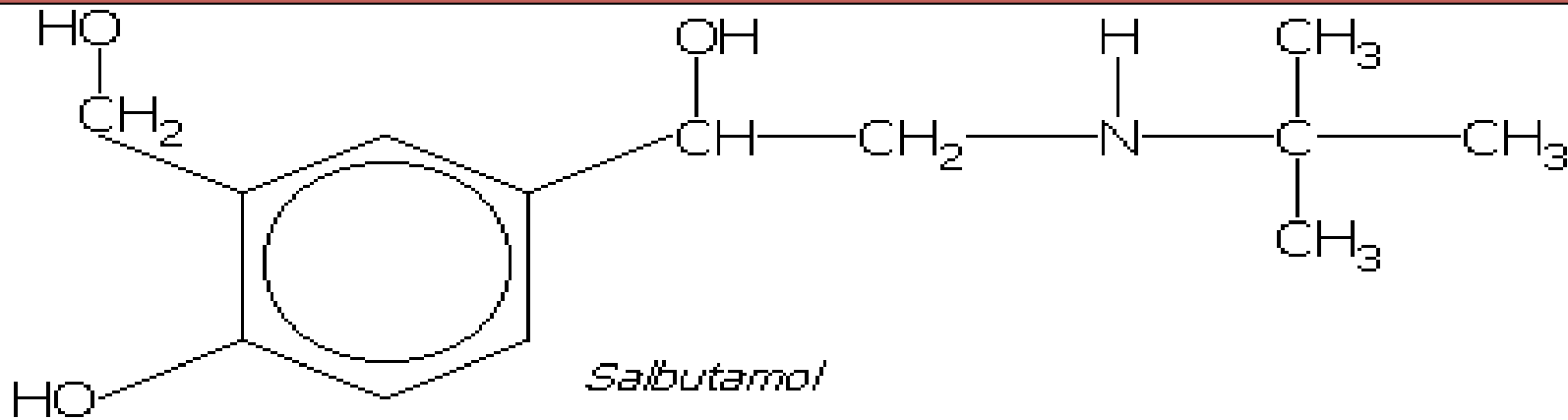


# What is Salbutamol

- Adrenaline is the body's natural bronchodilator.
- The benefits of epinephrine were recognized in the 20<sup>th</sup> century for treating asthma.







# The Structure and Names Of Salbutamol

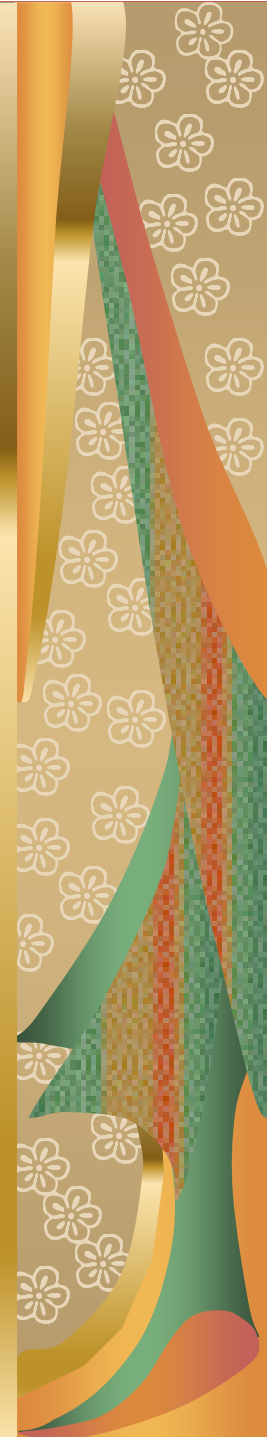


$\alpha$ -1-{1,1-Dimethylethyl)  
amino] methyl}-4-hydroxy-1,  
3-benzenedimethanol

# Other names for Salbutamol

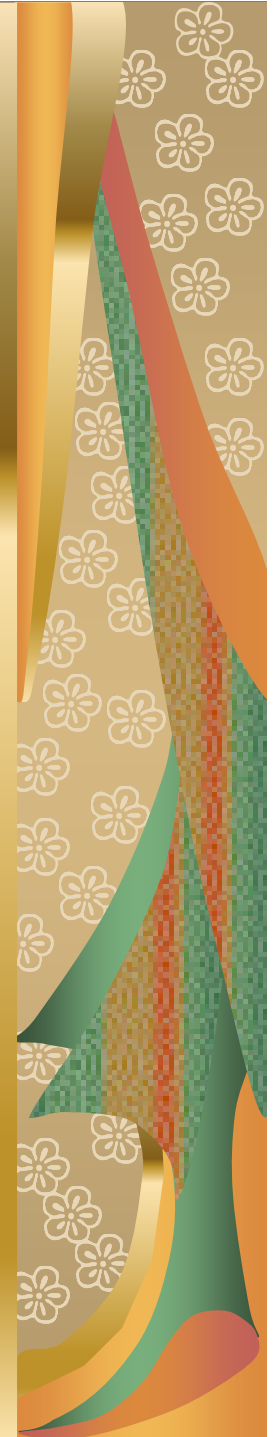
The other names of Salbutamol include

-  Ventolin
-  Respolin
-  Proventil
-  Salbulin e.t.c.



# Functions of Salbutamol

- Salbutamol helps in treating and control Asthma
- It help in preventing inflammatory disease
- Its helps in treating respiratory disease.
- It also helping in treating cardiovascular diseases





# Sales

 In 2004, the sales volume of Salbutamol was \$7.6 million dollars



# Reference

 [www.CEN-online.org](http://www.CEN-online.org)

 [www.microsoft.com](http://www.microsoft.com)

