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# Classification Acute rhinitis Acute rhinitis Anon-allergic: Anon-allergic Anon-allergic Anon-allergic Anon-and cond (coryza or flu) Acterial: Usually occurs as a secondary infection. Acomotor rhinitis. Acterial: Common cold (coryza or flu) Acterial: Usually occurs as a secondary infection.





























# **Chronic Atrophic Rhinitis**

### Definition

characterized by atrophy of its epithelium and glands due to endarteritis and periarterial fibrosis.

# Primary Atrophic Rhinitis (Ozena) Definition

characterized by atrophy of the nasal mucosa, increased nasal Patency, offensive odor crust formation, and anosmia.

### Incidence

The disease is more common in females around the age of puberty.



# Treatment

- 1. saline washes
- 2. Lubricant drops e.g. paraffin drops and 25% glucose in glycerin
- 3. Surgical treatment is also of limited value.
- i. Submucosal implantation of inert materials to narrow the roomy nasal cavities.
- ii. Temporary closure of the nostrils.

# Secondary Atrophic Rhinitis Secondary atrophy of the nasal mucosa may develop due to:

- 1. Excessive surgical resection of the inferior turbinates.
- 2. Radiotherapy of the head.
- 3. Marked deviation of the nasal septum (on the roomy side).
- 4. Granulomata e.g. Scleroma.

## <u>empty nose.avi</u> empty nose.avi

# Scleroma Definition Chronic specific inflammation of the upper respiratory tract caused by <u>bacillus or Klebsiella</u> <u>rhinoscleromatis</u> Incidence Scleroma is present sporadically all over the world and is endemic in Egypt, Eastern Europe, Russia, and Central and South America (scleroma belt). It more common in adults and has a higher incidence among low socio-economic classes.

### Pathology 1. In the active granulomatous stage the characteristic cellular infiltration MCJ of the vestibule of the noses and the respiratory nasal mucosa. The submucosa appears infiltrated by lymphocytes, plasma cells as well as two characteristic components: i. Mickulicz cells which are derived from histiocytes and appear as large vacuolated foam cells containing the scleroma bacilli. ii. **Russell bodies** which are eosin-staining degenerated plasma cells. Electron microscopy showed a third type of cells called *Mott cells*. thought to be the precursors of Russell bodies. 2. In the fibrotic stage the cellular infiltration is gradually replaced by fibroblasts and dense fibrous tissue giving the lesions its characteristic hardness. Contraction of the fibrous tissue may lead to narrowing or complete obliteration of the nasal cavity as well as external deformities.

3. Atrophic Stage of the epithelium and sero-mucinous glands.







# **Rhinitis Medicamentosa**

### Definition

iatrogenic condition where rhinitis develops as a result of inappropriate use of vasoconstrictor nasal drops **Pathophysiology** 

### **Clinical features**

1. Rebound nasal obstruction following the use of vasoconstrictor nasal drops.

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2. Fiery red edematous nasal mucosa.

### Treatment

- 1. Withdrawal of the offending nasal drops.
- 2. Topical steroid preparations



# Vasomotor Rhinitis

increase reactivity of the nasal mucosa, It is often identical to true allergic rhinitis in its clinical picture However, allergic tests are *negative*.

### Etiology

Autonomic imbalance:

- 1. Sudden temperature and humidity changes.
- 2. Cooling of the skin which is the cause of sneezing on getting out of bed.
- 3. Emotional instability.
- 4. Non-specific irritants, such as fumes and smoke.
- 5. Pregnancy

### Treatment

1. Drug treatment is similar to that of allergic rhinitis

