

**VR1251L - Rhinitis and sinusitis**  
 Order code: **4304.1001504**

VR1251

**Acute Rhinitis (nasal cold)**  
 An acute inflammation of the mucous membrane of the nasal cavity and paranasal sinuses.

**Causes:**

1. Cold virus (all rhinoviruses, coronaviruses, etc.) are transmitted by airborne droplets.
2. Infection by bacteria, fungi, viruses.
3. Change in the vascular permeability of the mucous membrane.
4. Allergic rhinitis (nasal allergy).
5. Irritation of the mucous membrane by dust, smoke, etc.

**Symptoms:**  
 The acute rhinitis is characterized by a runny nose, nasal congestion, and sneezing. The symptoms are usually accompanied by a fever, headache, and a general feeling of malaise.

**Treatment:**  
 The treatment of acute rhinitis is aimed at relieving symptoms. It includes the use of decongestants, antihistamines, and saline nasal sprays. It is also important to rest and drink plenty of fluids.

**Acute Sinusitis (infection of the paranasal sinuses)**  
 An acute inflammation of the paranasal sinuses, which are located in the facial bones. It is usually caused by a bacterial infection that spreads from the nasal cavity.

**Causes:**

1. Bacteria, e.g. Streptococcus pneumoniae, Haemophilus influenzae.
2. Fungi.
3. Allergy.
4. Extension of an infection from the nasal cavity to the paranasal sinuses.
5. Congestion of the paranasal sinuses in allergic rhinitis.

**Symptoms:**  
 During an infection of the paranasal sinuses, the patient experiences pain, swelling, and tenderness of the face. The symptoms are usually accompanied by a fever, headache, and a general feeling of malaise.

**Changes in the nasal cavity and the paranasal sinuses during sinusitis (nasal infection)**

**Healthy nasal cavity and paranasal sinuses (nasal cavity)**

**Chronic Rhinitis**  
 Chronic inflammation of the nasal cavity.

**Causes:**

1. Chronic rhinitis.
2. Irritation of the mucous membrane.
3. Extension of an infection from the acute rhinitis.
4. Allergic rhinitis.
5. Irritation of the mucous membrane by dust, smoke, etc.

**Symptoms:**  
 The symptoms of chronic rhinitis are a long-term, persistent runny nose, nasal congestion, and sneezing. The symptoms are usually accompanied by a fever, headache, and a general feeling of malaise.

**Treatment of acute and chronic sinusitis**  
 The treatment of acute and chronic sinusitis is aimed at relieving symptoms and eradicating the infection. It includes the use of antibiotics, decongestants, and saline nasal sprays. It is also important to rest and drink plenty of fluids.

**Chronic Sinusitis**  
 Chronic inflammation of the paranasal sinuses, which is characterized by a long-term, persistent runny nose, nasal congestion, and sneezing. The symptoms are usually accompanied by a fever, headache, and a general feeling of malaise.

**Symptoms:**  
 The symptoms of chronic sinusitis are a long-term, persistent runny nose, nasal congestion, and sneezing. The symptoms are usually accompanied by a fever, headache, and a general feeling of malaise.

**Treatment of acute and chronic sinusitis**  
 The treatment of acute and chronic sinusitis is aimed at relieving symptoms and eradicating the infection. It includes the use of antibiotics, decongestants, and saline nasal sprays. It is also important to rest and drink plenty of fluids.

**Changes caused by sinusitis showing the close anatomical proximity to neighboring organs**

**Signs of sinusitis**

1. Redness and swelling of the nasal mucosa.
2. Discharge of purulent nasal secretions.
3. Pain in the paranasal sinuses.
4. Fever and general malaise.
5. Swelling of the nasal mucosa.
6. Irritation of the mucous membrane by dust, smoke, etc.

**X-ray result showing sinusitis**

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This colorful anatomical chart provides information about Rhinitis and Sinusitis. Cause, effect, and anatomy of rhinitis and sinusitis are covered in this poster.

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