

Human Health / **Kesihatan Manusia**

Sickness is a condition when your body and mind feels uneasy and / **Penyakit adalah keadaan yang tidak normal berlaku pada badan atau minda manusia**

Contagious Diseases / Penyakit Berjangkit	In contagious Diseases / Penyakit Tidak Berjangkit
<ol style="list-style-type: none">1. Disease that is transmissible by either physical contact (touch) or by casual contact with their secretions or objects touched person suffering the diseases. Penyakit berjangkit boleh berpindah dari secara sentuhan fizikal ataupun sentuhan pada bendalir hos badan yang sakit.2. Diseases are commonly derived from pathogen through air, vectors, water and touch Penyakit kebiasaannya datang dari pathogen melalui air, vector, udara dan sentuhan3. Each diseases will how their sign and symptoms Setiap penyakit menunjukkan gejala gejala yang dialami oleh pesakit4. Examples of diseases are H1N1, SARS, AIDS	<ol style="list-style-type: none">1. Disease that cant be spread from one person to another Diseases that cant be spread by one person to another2. Diseases due to genetic factors and lifestyle Penyakit disebabkan oleh factor genetic dan gaya hidup3. The diseases does not have symptoms Penyakit yang tidak menunjukkan gejala4. Examples are like Cancer, Diabetes, heart diseases



Transmission / Cara berjangkit



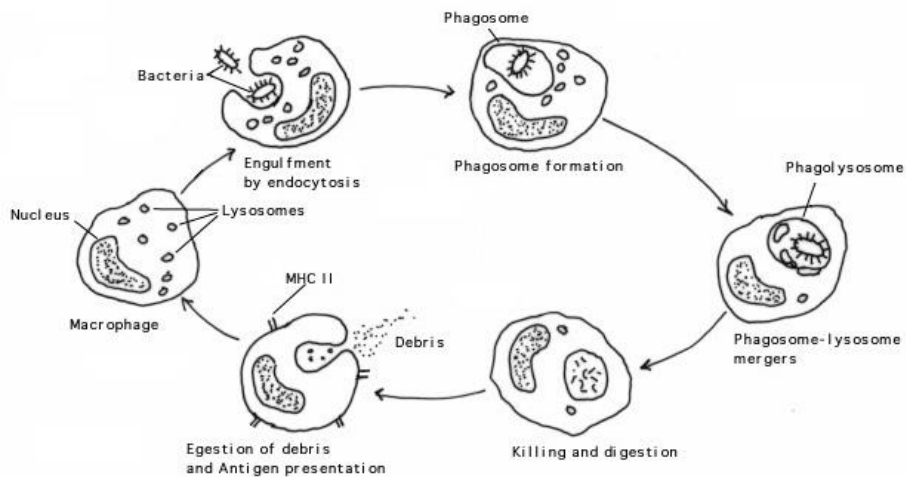
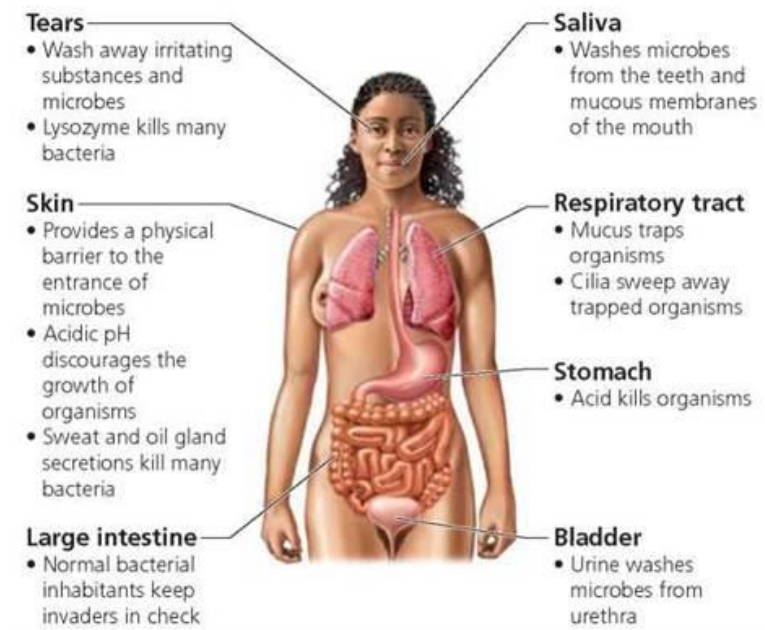
Defense System / Sistem Pertahanan Badan

Human defense system consist of 3 layers

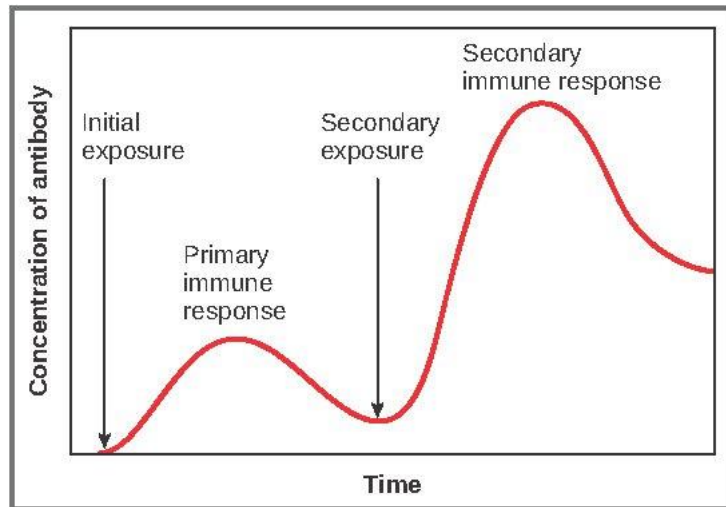
- a) **1st Level Defence:** Skin & mucus membrane / Kulit dan membrane mukus
- b) **2nd Level Defence:** Phagocytosis / Fagositosis
- c) **3rd Level Defence:** Antibody or Immune system / Penghasilan antibody

1 st Level Defence	2 nd Level Defence	3 rd Level Defence

How your Body React to Antigen

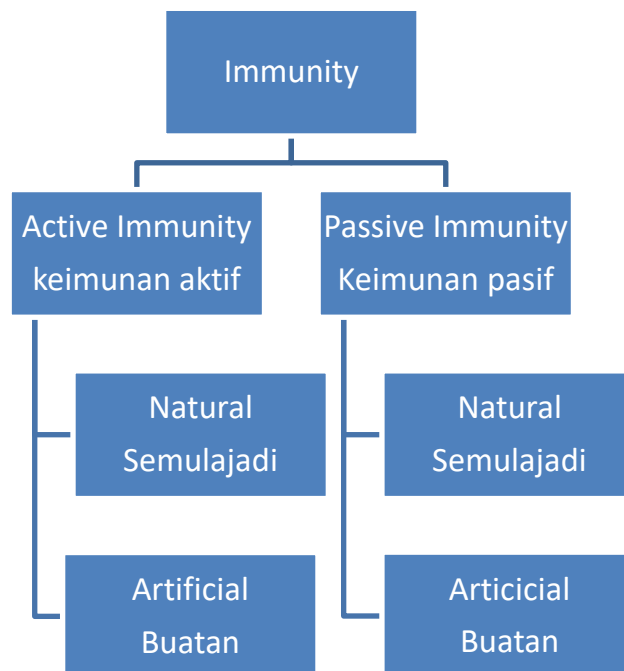


Immunity/ Imunisasi



Secondary immune response will increase the concentration of antibody. The graph above shows the second injection. **Pengulangan imunisasi penting penting untuk meningkatkan antibody badan.**

Two types of antibodies / **Dua jenis antibodi**



Active Immunity

Natural	Artificial
<ul style="list-style-type: none"> - Once in a life time - Antibodies developed once the body fight off diseases - Example: Chicken Pox 	<ul style="list-style-type: none"> - Vaccination - Example: Polio and BCG
<p><i>kepekatan antibodi</i> <i>concentration of antibody</i></p> <p><i>time / masa</i></p>	<p><i>kepekatan antibodi</i> <i>concentration of antibody</i></p> <p><i>time / masa</i></p>

Passive Immunity

Natural	Artificial
<ul style="list-style-type: none"> - Obtain from breast feeding - Obtain from foetus 	<ul style="list-style-type: none"> - Obtain from serum - Serum is antibody from animals - Example Disease: Diphtheria
<p><i>kepekatan antibodi</i> <i>concentration of antibody</i></p> <p><i>time / masa</i></p>	<p><i>kepekatan antibodi</i> <i>concentration of antibody</i></p> <p><i>time / masa</i></p>