***Immunity Types Notes***

TOC #10

**Immune System Notes: Acquired**

*1. Non-Specific*

1st Line: KEEP OUT

Skin

Snot

2nd Line: Don’t care who you are ill kill you

Review

Fever/Inflammation

Interferon: Stop Reproduction

*2. Specific AKA* Cell Mediated Response:

1.Plasma B-Cells: Recognize pathogen, Make Antibody

2.Phagocytes:

**Macrophage**: Capture and eat

**Neutrophils**: Bleach

3.T-Cells:

**Helper T**: Call for killer with chemicals

**Killer T**: Stab to death

**Suppressor T**: Shut down immune response

4.Memory B-Cells: Recognize pathogen, Make Antibody

*3. Active Immunity*

•*Immunity after first exposure*

•*What cells are left over?*

•*We can get ACTIVE IMMUNITY IN 2 WAYS:*

1.*Get Sick*

•*Have* ***Memory B*** *Cells left over to fight faster next time*

2.*Vaccine: Injecting a weakened form of the pathogen to “train” your immune system.*

*How the FLU makes you sick:*

[H1N1 Vaccine Production](http://www.youtube.com/watch?v=ABYrGSCn4M0)

[Creating Vaccine](http://www.health.gov.on.ca/en/public/programs/publichealth/flu/)

•Memory Cells

•A few b-cells become **memory cells**!

- Vaccination triggers the immune system response, leaving you with memory cells.)

*Passive Immunity: : ADDING ANTIBODIES TO YOUR BODY*

1. ***Natural****: From your mom through* ***breast milk***
2. ***Unnatural****:* ***Injected*** *(ex: Immunotherapy)*

**Summary**:

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| --- | --- | --- | --- | --- |
| What are the 3 types of Acquired Immunity? | | | What are the 2 types of Passive Immunity? | |
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