

LD 50: – lethal dose for 50% of exposed population **will die**

- Measures potency of a toxin → the lower the number, the worse it is

ciliary escalator: Ciliated mucosal cells of the **lower respiratory tract**(bronchiole) that move inhaled particulates/microbes away(upwards) from the lungs.

- This so-called ciliary escalator keeps the mucus blanket moving toward the throat at a rate of 1 to 3 cm per hour; coughing and sneezing speed up the escalator.
- Some substances in cigarette smoke are toxic to cilia and can seriously impair the functioning of the ciliary escalator by inhibiting or destroying the cilia.
- Mechanically ventilated patients are vulnerable to respiratory tract infections because the ciliary escalator mechanism is inhibited.
- Ciliary escalator moves particles toward the throat **via ciliary action**



Opsonization: The **enhancement of phagocytosis** by coating microorganisms

with certain **serum proteins (opsonin)**; also called immune adherence. Makes digestion easier.

Antigen: aka immunogen – substance that can induce production of antibodies and **cause immune response**

- ex – bacteria, virus
- Usually, components of invading microbes or foreign substances
- Antibodies interact with **epitopes**, or **antigenic determinants**, on the antigen

toxoid vaccine: inactivated toxins (**non-toxic for vaccination**). Use to **prevent diphtheria** or symptoms of **tetanus**.

- contain inactivated toxins produced by a pathogen, eliciting an antibody response against that particular pathogen component.
- The tetanus, diphtheria, and acellular pertussis toxoids are part of the standard childhood immunization series that requires a series of injections, followed by boosters every 10 years to maintain full immunity.
- Tetanus toxoid (DTaP)
 - Stimulated antibodies that neutralize the toxin
 - Fewer than 10 cases per year (mortality 25-50%)
 - Treatment with tetanus immune globin (TIG)
 - Infected tissue removed via **debridement**

Hybridoma: fusion of **myeloma** (cancer of the bone marrow cells) cells **and B-cells** that produces monoclonal antibodies for serological testing

- Unfortunately, a B cell reproduces only a few times under the normal cell culture conditions. This problem was largely solved by tapping cancerous plasma B cells for culture.
- These cancerous plasma B cells, known as myelomas, no longer make antibodies but can be isolated and grown indefinitely in cell culture.
- Combining an "immortal" cancerous B cell with an antibody-producing normal B cell creates a hybridoma that, when grown in culture, **produces the type of antibody characteristic of the ancestral B cell** indefinitely.

attenuated whole-agent vaccine: A vaccine containing live, attenuated (weakened) microorganisms that may cause lifelong cellular and humoral immunity.

- The live pathogen may revert back to its original strength and cause the same disease we're trying to prevent
- Ex: Polio, Measles



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