Source: [KBBiologyMasterIndex]

1 | Overview of Human Diseases

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#flo #disorganized

Disease is an abnormal condition that causes impairment in/loss of function of an organism (a.k.a. decreased fitness) that is not due to immediate external injury.

- · What causes human disease?
 - · Infectious agents
 - Deficiency disorders
 - Heritable factors
 - · Physiological disorders (immunodeficiency, autoimmune disorders, allergies, etc.)

1.1 | Congenital vs. Acquired disease

Congenital diseases => diseases present at birth due to DNA abnormalities / pregnancy pathological issues Acquired diseases => diseases that begin during lifetime, including...

- Microrganism invasion => "infectios diseases"
- · Autoimmune reaction
- Nutrient deficiency
- · Mechanical wear
- · Ingestion of noxious chemicals

Infectious diseases actually smaller on the causes of death in the US

- Heart disease => wear + deficiency
- · Cancer => heritable + DNA
- Unintentional injuries => not a disease
- Chronic respitory disease => wear
- Stroke => not a disease
- Alhetimer disease => wear
- Diabetes => autoimmune, nutrient, wear
- Influenca <= here, finally, an infections disease.

1.2 Disease causing agents

- **Protozoan** => single-celled eukaryotes
- Fungal => single/multi-celled eukarotyes
- **Bacteria** => single-celled prokaryotes
- Viral => acellular parasitic infectious agent
- Helminuthus => multicellular worms
- Prions => acellular misfolded proteins
- Viroids => infections nucleic acids w/o protein coat to make virus

1.3 | Pathogenicity + Virulence

All of disease-causing things have two