COVID-19: Snapshot of the Immune Response

Functional and Dysfunctional Immune Response to SARS-CoV-2

![Diagram of Functional Immune Response]

**Functional Immune Response**
- NK cells recognize and cleave infected cells.
- T cells and B cells initiate and coordinate the immune response.
- Adaptive immunity is stimulated by memory B cells and T cells.

**Pathology of SARS-CoV-2**
- SARS-CoV-2 infects and damages cells, leading to inflammation and tissue damage.
- Immune response can sometimes be overactive, causing detrimental effects.

![Diagram of Pathology of SARS-CoV-2]

**Dysfunctional Immune Response**
- Dysregulation of immune response can lead to severe outcomes.
- NK cells and T cells may not function properly.
- Immune system can be overwhelmed or underactive.

![Diagram of Dysfunctional Immune Response]