16.4: Immediate Hypersensitivities - Type V

Skills to Develop

1. Describe the mechanism for Type V (Stimulatory) hypersensitivity and give an example.

Type V (Stimulatory Hypersensitivity) involves making Antibodies against a particular hormone receptor on a hormone-producing cell. This leads to the overstimulation of those hormone-producing cells. An example is Graves' disease where antibodies are made against thyroid-stimulating hormone receptors of thyroid cells. The binding of the antibodies to the TSH receptors results in constant stimulation of the thyroid leading to hyperthyroidism.

Summary

1. During type V (stimulatory hypersensitivity) antibodies are made against a particular hormone receptor of a hormone-producing cell leading to the overstimulation of those hormone-producing cells.
2. An example is Graves' disease where antibodies are made against thyroid-stimulating hormone receptors of thyroid cells.

Questions

Study the material in this section and then write out the answers to these questions. Do not just click on the answers and write them out. This will not test your understanding of this tutorial.

1. Describe the mechanism for Type V (Stimulatory) hypersensitivity and give an example. *(ans)*
Contributors

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