

CASE STUDY

- BIO MED/ BIO CHEM

Background

OM SUDHAN

Internship in an area
of Bio Med/ Bio Chem
Start Date: July 2021
Working hours per
week: 5 hours

A grade 12 student at Gems Modern Academy passionately interested in learning about medicine, especially the human anatomy in order to enrich the lives of others.

During the internship, I was given the tasks of completing a series of assignments relating to the topic of biogenic amines in neurotransmitters which included the connection between neurotransmitters and symptoms and treatments of diseases such as Alzheimer's and some autoimmune diseases like diabetes mellitus and rheumatoid arthritis.

The responsibility of completing the assignments within reasonable deadlines was assigned to me and I believe I was able to fulfill my duties conscientiously.

I was able to successfully complete the internship thanks to the excellent supervision provided by the firm who were not hesitant to answer any queries. I was able to learn a multitude of things which might not have been possible if not for the proper guidance that was provided.



Learning Outcome

The extensive research done and knowledge gained in my interested field certainly provided me with a better insight into my future line of study and helped me to further finalize my decision. I was able to gain a better professional etiquette and learned to adhere to expected norms.

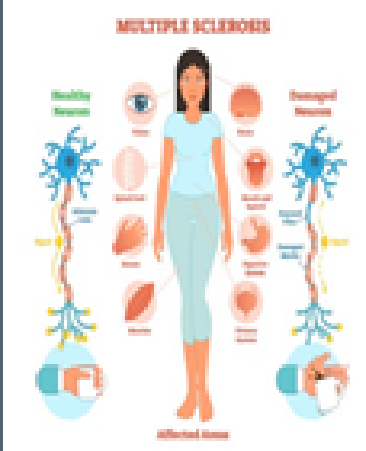
The assignments were far less challenging due to the Biology classes I take at school and this experience only served to deepen my understanding of certain engrossing topics.

Out of the substantial range of things I managed to learn through this experience, I believe one of my best accomplishments was to break my usual habit of procrastination. It occurred gradually and has now almost been abolished. It was this experience that made me realize this enthralling internship managed to exceed any expectations that I had.

For future students, this is a great opportunity that should not be squandered. Listening to and following the instructions from the supervisors should be more than enough to make the most of the internship as long as they have the will to learn.

***"TO MAKE THE MOST OF THE
INTERNSHIP, HAVE THE WILL TO
LEARN"***





MULTIPLE SCLEROSIS

The immune system attacks nerve cells, causing symptoms that can include pain, blindness, weakness, poor coordination, and muscle spasms.

Multiple sclerosis (MS) is a potentially disabling disease of the brain and spinal cord (central nervous system).

Various medicines that suppress the immune system can be used to treat multiple sclerosis.

World MS Day is held every year on May 30th.



TREATMENT FOR LUPUS



Nonsteroidal anti-inflammatory drugs (NSAIDs)

Over-the-counter NSAIDs, such as ibuprofen and naproxen, help reduce mild pain and swelling in joints and muscles.

Steroids

Corticosteroid medications, such as prednisone, reduce inflammation and pain and slow joint damage. Lupus symptoms usually respond very quickly to these powerful drugs. Once this has happened, your doctor will lower your dose slowly until you no longer need it.

Antimalarial drugs

Medicines that prevent or treat malaria also treat joint pain, skin rashes, fatigue, and lung inflammation. Two common antimalarial medicines are hydroxychloroquine and chloroquine phosphate.

B-cell-specific inhibitors

These drugs limit the amount of abnormal B cells found in people with lupus. A common type of B-cell-specific inhibitor that treats lupus symptoms, belimumab, blocks the action of a specific protein in the body that is important in immune response.

Immunosuppressive agents

These medicines may be used in severe cases of lupus, when lupus affects major organs and other treatments do not work. These medicines can cause serious side effects because they lower the body's ability to fight off infections.