

# A Case Study in Cellular Respiration

## Part I – The Symptoms

Imagine that you work at the medical examiner's office for a province. As Chief Medical Officer, you investigate suspicious deaths and provide toxicology services for the province. Unfortunately, it's been a busy week. In the past five days, seven people have died, all with similar symptoms. It is your job to examine the data and determine the cause of death for these victims.

The first was a 17-year-old girl. Her parents said that she was awake in the middle of the night complaining of abdominal pain and a headache. They gave her an Ibuprofen and sent her back to bed. At 7am the next morning, the parents discovered that the girl had collapsed on the bathroom floor. An ambulance rushed the girl to a nearby hospital, where she was pronounced dead.

That same day, paramedics found the second victim unconscious on his kitchen floor after what they thought was an apparent heart attack.

In the next four days, four other similar deaths were reported, all in the same neighborhood and all with similar symptoms.

Are these related? What is causing these people to die? It is your job to answer these questions before more deaths are reported.

Symptoms exhibited by most patients:

- Dizziness
- Confusion
- Headache
- Shortness of breath/rapid breathing
- Vomiting
- Diarrhea
- Abdominal pain

Most deaths were very rapid, occurring within a few hours of symptoms.

### *Questions*

1. Are there any similarities or connections between these seven individuals? What questions would you want to ask the families to answer these questions?
  - The way of their deaths are practically the same. They showed similar symptoms and they are in a one neighbourhood. The questions most likely to be asked will be: 1. What is/are the last food they eat? 2. What are the similarities in environmental exposures? 3. When and how long the symptoms were observed? 4. Are there any health concerns or illness/es that run in the family?
2. In your opinion, are these deaths connected? Why or why not?

# Cellular Respiration Case Study Answers

**Roman Wölfel**



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