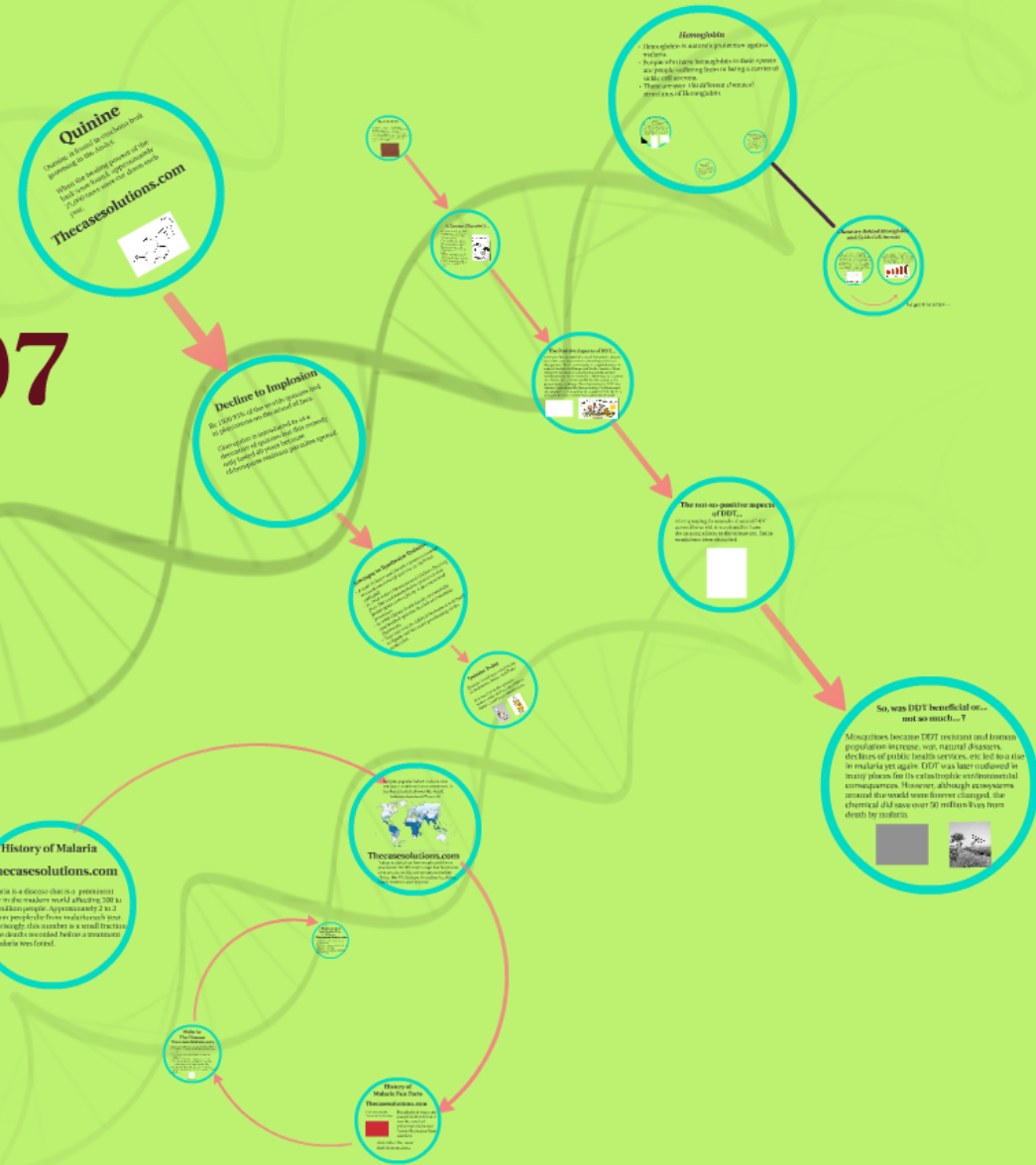




Thecasesolutions.com

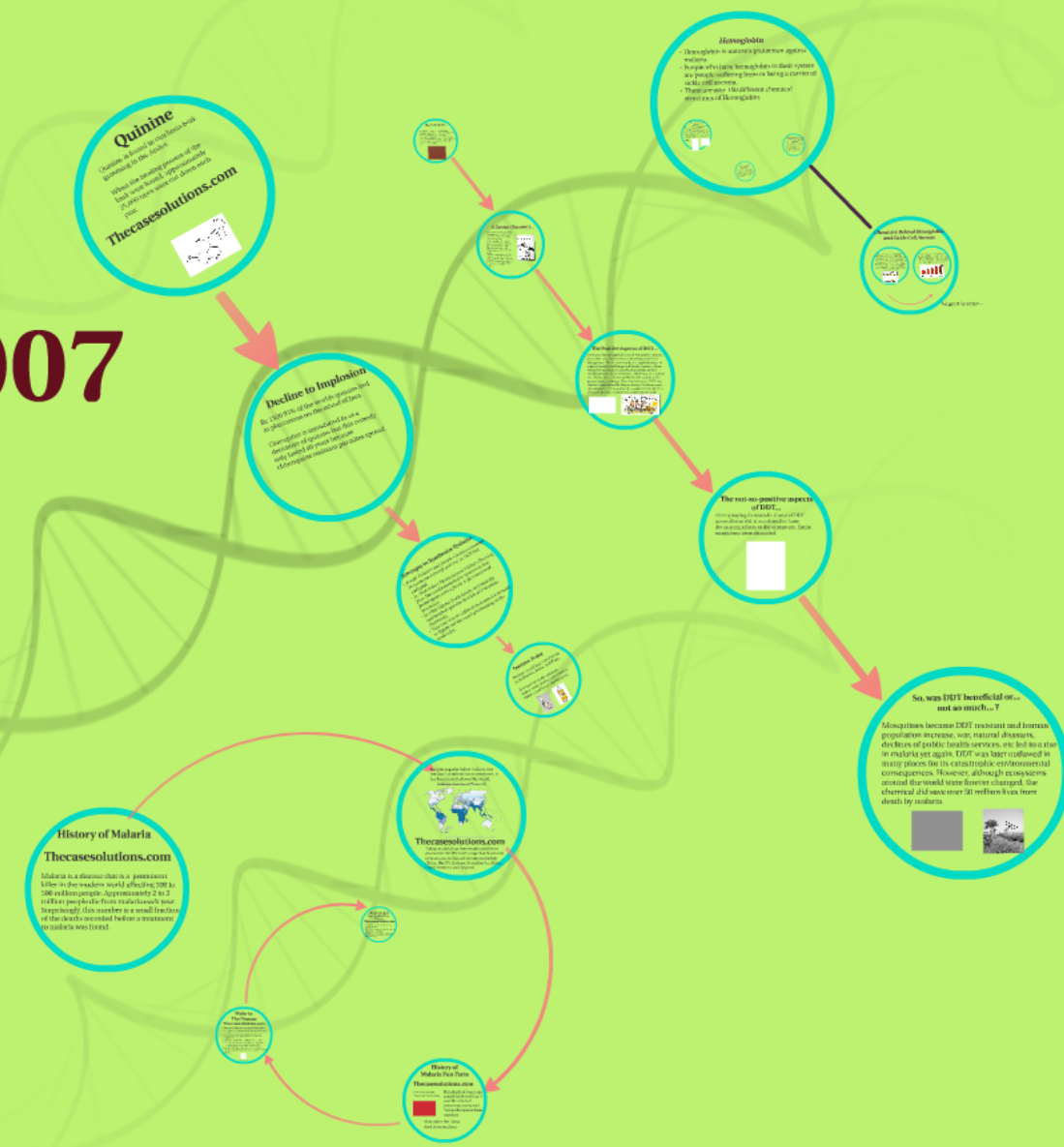
# Microsoft Office 2007 (Abridged)





Thecasesolutions.com

# Microsoft Office 2007 (Abridged)



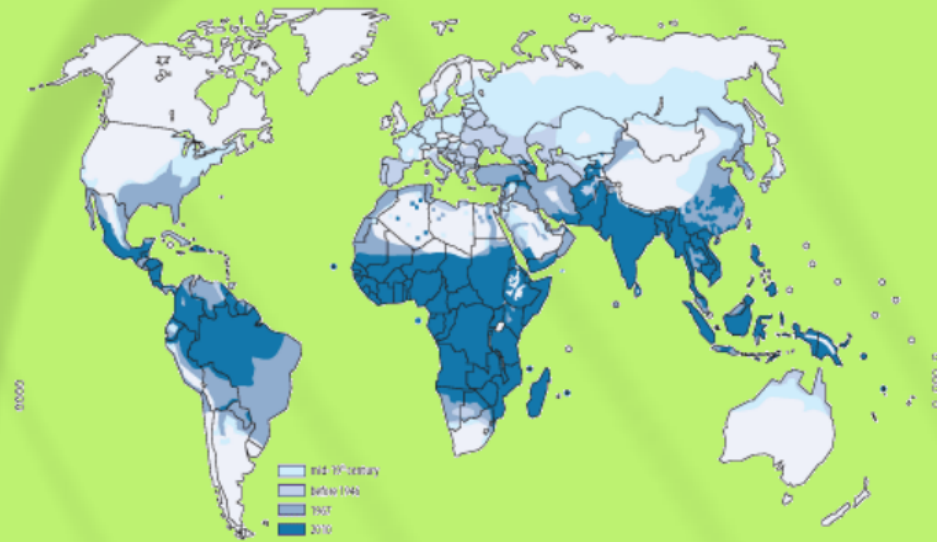
# History of Malaria

**Thecasesolutions.com**

Malaria is a disease that is a prominent killer in the modern world affecting 300 to 500 million people. Approximately 2 to 3 million people die from malaria each year. Surprisingly, this number is a small fraction of the deaths recorded before a treatment to malaria was found.

Despite popular belief, malaria was not just a problem in one continent, it has been found all over the world.

World distribution of malaria, from mid-19<sup>th</sup> century to 2010



This map is based on the work of the World Health Organization (WHO) and the Centers for Disease Control and Prevention (CDC).

## Thecasesolutions.com

Today, malaria has been eradicated from places like the US and Europe but hundreds of years ago it effected regions including China, the US, Europe, Scandinavia, Africa, South America and beyond.

# History of Malaria Fun Facts

**Thecasesolutions.com**

Malaria means  
"bad air" in Italian.



Hundreds of years ago  
people believed that it  
was the result of  
poisonous mists and  
vapors that came from  
marshes.

Alexander the Great  
died from malaria.

# Malaria: The Disease

## Thecasesolutions.com

- There are 4 different parasites of malaria that effect humans, the most lethal being falciparum malaria.
- Malaria is transmitted through anopheles mosquitos.
- Symptoms of malaria include intense fever, chills, headache, and periodic muscle pains.
- In 1891 scientists developed a method of determining which species of malaria was infecting a patient by staining the patient's blood with dyes.





**Thecasesolutions.com**

**3 Treatments have  
been used to Treat  
Malaria**

**Thecasesolutions.com**

- Quinine -a naturally occurring plant product.
- DDT- man made products and how then can be harmful
- Hemoglobin- natural product of animal origin



# Quinine

Quinine is found in cinchona bark growing in the Andes.

When the healing powers of the bark were found, approximately 25,000 trees were cut down each year.

**Thecasesolutions.com**

