Drug report

In this report I am investigating the possible outcomes of taking Cormathzadrine and how much of the drug will be left within your body after one week. I tested four possible scenarios and it resulted in four different outcomes. This investigation shows you what route suits you the best.

The first scenario and route was 1000g every four hours with a half-life of 0.5. This was the typical scenario, which was tested first. Each day for the whole week ended with around the same amount of drug left in the body. It starts off at 332.0313 and throughout the week it stagnates at around 332.1123. As you can see from the bar chart it seems to be all around the same mark throughout the whole week. I believe that this route is very consistent over the week but also reasonably high. I wouldn’t personally choose this option but most people will, due to their metabolic rate.

The second scenario is 1000g every four hours but with a half-life of 0.75. This means that the drug dies down more and more slowly, therefore leaving more drug within your body every day. This route was very different from the first route. This is because the 0.75 half-life made the amount of drug left over in the body very high. The first day after 24 hours the amount of drug left within the body is 1156.997681. This is just over 800g more than route 1. Throughout the week the amount increases a lot. Once again, as the table shows, you can see how it stagnates after one day. This is a good route for people who have a high metabolic rate.

The third scenario is the same as the first scenario with the 0.5 half-life but you take a 1000g dose every two hours instead of four hours. This will show if the time period has any part to play within the route. The overall conclusion is that it plays a major part in the route. As you can see, it decreases by 250g – that’s major, although it was just over 300g in the first route. The first day it starts at 58.59375, then it just stays round the 58g mark. This is good for people with low metabolic rates.

The final scenario is 1000g over two hours and a half-life of 0.75. Like the second route it has the same half-life but different time periods. This route is to help the people with high metabolic rates over short times. This graph and route is different to every other route. This is because the original day starts at 730g but then decreases by 50g. Normally it should increase after the first day, due to the excess drug from the first day.