

Comprehensive Review of the Toxicity of Coffee for Animals

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Abstract: Coffee is a popular drink among people because it provides a sense of refreshment, but it is highly toxic to animals. Coffee beans contain caffeine, which is the primary source of animal toxicity. Caffeine is a stimulant that directly affects the central nervous system, and animals are more sensitive to it than humans are. If taken in large quantities, it may cause the animal's death. The intensity of these symptoms varies according to the amount of caffeine consumed and the type of animal. This review paper provides an overview of the toxicity of coffee for animals and its consequences, with citations from trustworthy studies.

Keyword: Coffee, toxic to animals, trustworthy studies.

1. INTRODUCTION

Coffee contains caffeine. Caffeine is a compound called methylxanthine, which is toxic to animals and causes various symptoms in animals. Symptoms will appear over the next several hours, such as vomiting, stumbling, muscle weakness, convulsions, a high body temperature, and death. This review paper provides an overview of the toxicity of coffee for animals, with citations from trustworthy studies.



[<https://www.akc.org/expert-advice/can-dogs-drink-coffee/>]

Toxic components of Coffee

Caffeine is a substance that causes toxicity in animals. Caffeine is a compound of methylxanthine. This substance will cause the secretion of catecholamine and increase the delivery of calcium into the cells, and inhibit the process of phosphodiesterase. This reduces the level of cAMP. The higher the level of cAMP in the cells, the more the heart beats faster. The intensity of these symptoms varies according to the amount of caffeine consumed and the type of animal. Caffeine toxicity can cause vomiting, stumbling, muscle weakness, convulsions, a high body temperature, and death. Pets begin to

develop symptoms when they are exposed to 20 milligrams of caffeine per kilogram, and the amount of caffeine that causes cardiac abnormalities is 50 milligrams per kilogram, with 100 grams of coffee containing 40 milligrams of caffeine.

Effects of Toxicity

The effects of coffee toxicity in animals cause vomiting, diarrhea, panting, excessive thirst and urination, abnormal heart rhythm, tremors, and seizures. These signs usually occur within 1-2 hours of ingestion. The intensity of these symptoms varies according to the amount of caffeine consumed and the type of animal.

Treatment

If your pet has been exposed to a substantial dose of caffeine, take them to the veterinarian right away. Your veterinarian will determine a treatment plan based on how much caffeine your pet consumed and how long ago the product was consumed. Your veterinarian will induce vomiting to avoid caffeine absorption, and if your pet is experiencing tremors or seizures, medication will be given to manage these clinical symptoms. There is currently no direct antidote to caffeine toxicity, but fluid therapy is used to help prevent dehydration and flush out the caffeine through the kidneys.

2. CONCLUSION

In conclusion, Caffeine is primary toxic components of coffee. The intensity of these symptoms varies according to the amount of caffeine consumed and the type of animal. Ingesting pets can cause a variety of symptoms and can be deadly. Therefore, we should not allow pets to consume drinks or foods that contain caffeine. If a pet ingests it, it should be taken to a veterinarian quickly to prevent death.

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