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Protocol 5

1. A total of 328 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Guinea pigs receive a convulsive dose of the nerve agent soman which is thought to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The pain may be relieved to some extent by administration of one of the test drugs that successfully terminates the seizure. Anesthetics and analgesics are known to have profound effects on brain function that can interact with the drugs of interest and/or the toxicity of the nerve agent and thus complicate interpretation of the results. This is especially so since the purpose of the study is to model the pharmacological intervention a human nerve agent casualty would receive. Since the goal of the study is to evaluate the ability of novel anticonvulsant drugs to treat nerve agent-induced seizures, subjecting the animals to nerve agent intoxication that elicits seizures is essential.
4. No federal regulations mandate this procedure.

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Protocol 6

1. A total of 24 column "E" non-human primates were utilized in this study.
2. Painful procedure: All monkeys receive a convulsive dose of the nerve agent soman, which is thought to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The pain may be relieved to some extent by administration of one of the test drugs that successfully terminates the seizure. Anesthetics and analgesics are known to have profound effects on brain function that can interact with the drugs of interest and/or the toxicity of the nerve agent and thus complicate interpretation of the results. This is especially so since the purpose of the study is to model the pharmacological intervention a human nerve agent casualty would receive. Since the goal of the study is to evaluate the ability of novel anticonvulsant drugs to treat nerve agent-induced seizures, subjecting the animals to nerve agent intoxication that elicits seizures is essential.
4. No federal regulations mandate this procedure.

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