

ARRIVE Checklist

1. Study one designed by our coauthor, Dr. Nematbakhsh. Ten 10 rats were randomized in 2 groups; the control group with 5 rats, each placed in separate cage. Each rat in control group was injected with 0.5 ml of sterile saline 5injections/week for 3 consecutive weeks for total of 15 injection. We had 5 rats in experimental group, each in separate cage that were injected with 0.5 ml of drug (Bicelin) 20mg/kg, 5 injection per week for 3 weeks.
2. Sample size were not determined using any scientific methodology. This was a pilot study to determine the cytotoxicity of our lead drug. We determined the sample size based on our available compound at that particular time. We will repeat this experiment in future along with efficacy test hopefully in near future. However, the result was so convincing that we decided to publish our data as soon as possible to start a pilot phase II clinical soon. Please be aware that this drug with liposome as drug carrier was tested in animals and the results were approved by FDA. Here the same drug is being tested without liposome and with new formulation that involves no chemical. The drug delivery is being facilitated by epigenic modification of this DNA-based drug.
3. We chose 10 healthy rats with approximately the same age and the same weight, randomly divided into two groups.
4. No specific method was used to randomized. We made sure that they all are physically comparable.
5. Only the two pathologists in our team were blinded to the study protocol.
6. Blood test and Urine tests as well as H&E staining determined the outcome of this study. The rat's behavior was also observed daily for any suspicious activity or inactivity during the course of drug injections.
7. Data were reported as mean \pm SEM. The t-Student test was applied for comparison between the groups. The KTDS between the groups were compared by non-parametric tests of Mann–Whitney U. The statistical P value was significant when it was less than 0.05. Methods, Animal Experiments, Statistical Analysis, page 4.
8. The animals were about 3 months old, all male wistar rats (279 \pm 10 grams) purchased from the animal house of Isfahan University of Medical Sciences.
9. The experimental procedure has all the details in animal experiment section of Methods, page 3 of the manuscript.
10. The results of each experiment are described on page 4 of the manuscript. The blood test results with a measure of variability is shown in table 1. The figures in a separate file shows the results of each experiment as well.