



Attitude towards animal testing and cell testing in Thailand

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Abstract

People in Thailand have various views on the use of cells and animals in experiments. A group of people expect that animal testing would be abolished. The authors had conducted a questionnaire to explore the opinions of Thai people regarding using cells instead of animals in experiments. The authors had created an online survey in order to observe, analyze, and find solutions including troubleshooting. The survey was based on more than one hundred Thai people of different age groups.

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INTRODUCTION

From the survey, taking place from 1 June 2021 until 7 June 2021, opinions on the use of cells and animals in experiments conducted through 102 Thai people.

Most of them spoke with one voice that using cells in experiments is more ethical. and will have a test result at level 4 or good and should be converted from animal to cell more than 74.5% and 72.5 means that it can be assured that it can be converted from animal to cell in the experiment and from the question of which one is more efficient, the result is equal and the negative effect of using cells instead of animals in the experiment was at level 3 or moderate. The objectives of the project are as follows: Ask the opinions of Thai people if they should change or not. How ready is the

Results

change? and want to know the attitude of Thai people in this regard.

Methodology

The questionnaire consisted of 8 questions showing motivation, gender, class, ethics, good and bad, change, outcome, etc . Randomly distribute this questionnaire to people in Thailand. and has responded to as many as 103 people data analysis by statistics have an attitude of people in Thailand and finally, this project was done to study the understanding of people in Thailand What are your opinions about Using cells or animals in experiments in Thailand

Gender	Percentage
Male	20.4
Female	75.7
Other	3.9

Table 1: The gender group we surveyed.

According to the survey, it was found that the most female respondents were surveyed in the table, there were female respondents to the survey 75.7% followed by male 20.4% and 3.9% other gender of the respondents.

Age group	Percentage
Grade 7-9	1.9
Grade 10-12	87.4
College student	5.8
Others	4.9

Table 2: Education level of the people who look from.

According to the survey, it was found that the most grade 10-12 respondents were surveyed in the table, there were grade 10-12 respondents to the survey 87.4% followed by college students 5.8% as a second. Next is the other age group respondents to the survey 4.9% and 1.9% grade 7-9 of the respondents.

Using cells and animals in experiments Which option is more ethical?	Percentage
cell testing	96.1
animal testing	3.9

Table 3 : The method more ethical way between cell testing and animal testing in people's opinion.

According to the survey, the majority of respondents answered 96.1% of cell tests, followed by 3.9% in animal tests, being the second of respondents

How beneficial it is to use cells instead of animals in an experiment?	percentage
extremely defective	0

seem to be defective	7.7
medium	35.6
seem to be not defective	39.4
not defective at all	17.3

Table 4: Benefit from using cells instead of laboratory animals in people's opinion.

There were five levels of defective opinions related to the use of cells instead of animals in experiments. The majority of 39.4% had no minor defects. followed by moderate, 35.6% for a second, followed by no defects, 17.3, minor damage 7.7%, and 0% severe damage, respectively.

Using cell test instead of animal test	Percentage
Agree	74.8
Disagree	3.9
depend on the situation	21.3

Table 5: Opinion associated with changing from using animal tests to cell tests.

According to the survey, people answered Agree 74.8 % followed by Depending on the situation 21.3 % and finally Disagree 3.9%. Do you think it can be possible in reality?

Possibility of cell instead of animal test	Percentage
Yes	72.8
No	14.6
Partly possible	12.6

Table 6: Possibility of changing from animal test to cell test in all companies or institutes.

As expected, People believe that we as humans can change our testing to a cell instead of an animal by 72.8% Yes 14.6 No and 12.6 partly possible respectively.

efficiency	Percentage
Animals	57.14%
Cell	14.28%
the same	28.60%

Table 7: Efficiency of each type of testing

Pretty close to the guesswork score is the people who come to answer most often said that using animal for experiment test is animal 57.14% is more efficient compare with cell test that is 14.28% and the remaining one in the same 18.60%.

How defective of cell testing	percentage
extremely defective	1.9%
seem to be defective	10.7%
medium	42.7%
seem to be not defective	31.1%
not defective at all	13.6%

Table 8: defectivity of cell testing of people opinion

There are five levels of defective opinion associated with cell testing. Most people by 42.7% are in the medium level followed by a bit not defective 31.1% as a second. Next is the not defective at all 13.6 a bit defective 10.7% and extremely defective 1.9% respectively.

Discussion

There are eight questions in total, divided into tables as you can see above. Each question is confirmed from the survey conducted. To begin with, the survey indicated that most of the respondents are female and are in high school. Secondly, most people, above 70%, agreed that cell testing should be used instead of animal testing since 96.3% of them believed that cell testing is more ethical. Next, above 70% believed that it is possible to replace animal testing with cell testing. Still, only half of the respondents claimed that animal testing is more effective than cell testing. More specifically, almost half of the people believed that cell testing is relatively defective.

Conclusion

From the table, it can be concluded from table 1 that 75.4% of the respondents are female and 20.4% are male. In table 2, 87.4% of respondents are high school students. In table 3, 96.1% of people believed that cell testing is more ethical. In table 4, more than 90% of people believed that cell testing is moderately to extremely beneficial. In table 5, 74.8% agreed to

change animal testing to cell testing while 21.3% said that it depends on the situation. In table 6, as expected, 72.8% of people supposed that cell testing is possible. Interestingly, in table 7, 57.14% of people still thought that animal testing is more effective. Finally, in table 8, 42.7% of people believed that cell testing is moderately defective.

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