Surveys on attitudes towards legalisation of euthanasia: importance of question phrasing

J Hagelin, T Nilstun, J Hau, H-E Carlsson

Aim: To explore whether the phrasing of the questions and the response alternatives would influence the answers to questions about legalisation of euthanasia.

Methods: Results were compared from two different surveys in populations with similar characteristics. The alternatives “positive”, “negative”, and “don’t know” (first questionnaire) were replaced with an explanatory text, “no legal sanction”, four types of legal sanctions, and no possibility to answer “don’t know” (second questionnaire). Four undergraduate student groups (engineering, law, medicine, and nursing) answered.

Results: In the first questionnaire (n = 684) 43% accepted euthanasia (range 28–50%), 14% (8–33%) did not, and 43% (39–59%) answered “don’t know”. Two per cent of the respondents declined to answer. In comparison with previous surveys on attitudes to euthanasia the proportion of “don’t know” was large. The results of the second questionnaire (n = 639) showed that 38% favoured “no legal prosecution” (26–50%). However, 62% (50–74%) opted for different kinds of legal sanctions, and two of four groups expressed significantly different views in the two surveys. A proportion of 10% declined to answer the second questionnaire.

Conclusion: An introduction of an explanatory text and a wider range of response alternatives produced differences between the results of the two surveys conducted.

METHODS

The target group was undergraduate students at Uppsala University. Questionnaires, in Swedish, were distributed towards the end of lectures and were voluntarily and anonymously completed immediately after distribution. We arranged distribution at times when as many students as possible were present. A similar procedure was performed when collecting the questionnaires from every group.

All students present at the times of distribution of the surveys returned the questionnaires. Of all enrolled students more than 90% responded. Internal response rate varied slightly. Demographic characteristics of all the respondents are given in table 1. Respondents were students of years 1 and 2 from four educational programmes.

The first questionnaire contained 37 questions, of which only one addressed euthanasia (see box 1). No explanation of the term “euthanasia” was given. Forms were distributed in the period 1998–2000. In total, 684 out of 697 individuals (98.1%) responded to the question (360 females and 324 males).

The second questionnaire contained four questions, of which one addressed euthanasia, and it was phrased differently from the first questionnaire. A text was presented in which the term “euthanasia” was defined (see box 2). This questionnaire was distributed in the spring of 2001. In total, 639 out of 711 individuals (89.9%) responded (396 females and 243 males). Respondents were in corresponding years and programmes as those subjected to the first questionnaire. The likelihood ratio χ² test was used to measure differences between groups. p Values <0.05 were considered significant.

Calculations were done using the SPSS version 10.0 for Windows (SPSS Inc, Chicago, IL, USA).

RESULTS

In the first questionnaire, 43% answered “positive”, 14% answered “negative”, and 43% did not express an opinion on euthanasia. In general, the younger the students were the
more likely they were to accept euthanasia (p<0.001). Students in year 1 were more likely to accept euthanasia than students in year 3 (p<0.001). Compared with the other two programmes, nursing students and medical students had the lowest approval rates of euthanasia (p<0.001) (table 2).

Comparing the first and the second questionnaire, a similar proportion of all the students were positive about euthanasia (p<0.058). The proportion of positive respondents were significantly different for two of the four programmes’ responses in the two questionnaires (engineering, p<0.881; law, p<0.01; medicine, p<0.12; nursing, p<0.012). In the second questionnaire we replaced the alternatives “negative” and “don’t know” (first questionnaire) with four types of penalty of law and with forced choice—that is, no option to answer “don’t know”. The most favoured legal consequences were “charges dropped” (32%) and “remission of sentence” (18%). A higher proportion of respondents declined to answer the second questionnaire compared with the first questionnaire (10% vs 2%).

The second questionnaire showed no difference in opinion on legalisation of euthanasia according to sex, age, and year of study. A lower proportion of law students approved of the “no legal prosecution” alternative compared with students from the other programmes (p<0.001).

**DISCUSSION**

Forty three per cent of the respondents did not express an opinion about euthanasia in the first questionnaire. There may be at least two reasons for this. Some may not have given the issue much thought before being questioned. Others may have had an opinion but found that the response alternatives did not allow them to express their views. In the second questionnaire the students were given an explanatory text, a wider range of response alternatives, and no explicit “don’t know” alternative. The present results suggested that many of the respondents who answered “don’t know” in the first questionnaire would be replaced by respondents who could express an opinion in the second. Perhaps as a consequence of this, a higher proportion of respondents also declined to respond to the second questionnaire compared with the first. However, this group was much smaller (10%) than those who opted for “don’t know” in the first questionnaire (43%). A similar effect of the “don’t know” exclusion has been shown previously on issues not related to active euthanasia.13 14 There were no differences in proportion of acceptance among engineering students between the two surveys (table 2). This may be because of the fact that, unlike the other three groups, they do not have any professional interest in the question. Law students who in the first questionnaire were quite positive, were in the second questionnaire given the possibility of using the legal system. Almost three out of four students in the second sample opted for such intervention. The present results further suggested that neither medical nor nursing students support intervention by the legal system and perhaps found this an issue for themselves to decide upon.

In the present study a higher proportion of the medical students accepted legalisation of euthanasia compared with a pilot study by Nilstun.15 There may be several explanations—for instance, in the pilot study the students were informed that current legislation in Sweden treats active, voluntary euthanasia as manslaughter, whereas in the present questionnaire no such information was given.

There is an extensive literature on how to construct questionnaires, and effects related to the instruments and the respondents have been discussed for many years.16 Whether or not to offer a “don’t know” option is one

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**Table 1** Students in years one and three of education

<table>
<thead>
<tr>
<th>Subject</th>
<th>First questionnaire (acceptance)</th>
<th>Second questionnaire (legal sanction)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Did not reply</td>
<td>Female (%)</td>
</tr>
<tr>
<td>Engineering</td>
<td>214 4 29.5</td>
<td>21.8 (3.2)</td>
</tr>
<tr>
<td>Law</td>
<td>265 5 56.2</td>
<td>22.8 (5.2)</td>
</tr>
<tr>
<td>Medicine</td>
<td>67 2 32.9</td>
<td>25.0 (5.3)</td>
</tr>
<tr>
<td>Nursing</td>
<td>138 2 85.9</td>
<td>26.2 (6.5)</td>
</tr>
</tbody>
</table>

**Box 1: Questionnaire 1**

Are you positive or negative towards euthanasia?
- Positive
- Negative
- Don’t know

**Box 2: Questionnaire 2**

Definition: Active euthanasia is here defined as when a physician purposely ends the life of a terminally ill patient towards the end of life in order to prevent severe suffering—for example, by giving a combination of anaesthesia and muscle relaxing medium.

Whether euthanasia should be legalised or not is debated in many countries. In the Netherlands no legal charges will be brought forward for active euthanasia under the following criteria: that the physician performing active euthanasia has controlled that the patient;
- is mentally competent and requests active euthanasia;
- is informed about his/her state and possible treatments;
- is suffering severely—physically and/or psychically;
- does not accept alternative treatments to limit suffering;
- has seen another independent physician who has concurred that the above circumstances are correct.

How would you legislate?
- No sanction (as with other health care procedures)
- Charges should be dropped after assessment by a public prosecutor
- Remission of sentence after assessment by a court
- Prison corresponding to manslaughter
- Prison corresponding to murder.

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[Notes and references]
We sincerely thank participating teachers and students for their kind

ACKNOWLEDGEMENTS

Questions and possible responses are phrased.

Euthanasia may thus be modified by the way in which the

characteristics. Answers to questions on whether to legalise

and response alternatives in a population with similar

might be affected by the survey instrument used. The

results of the second questionnaire about acceptance of euthanasia and the second questionnaire

about reasonable legal sanction when a physician performs euthanasia

<table>
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<td>Acceptance</td>
<td>Legal sanction</td>
</tr>
<tr>
<td>Positive</td>
<td>Charges dropped</td>
</tr>
<tr>
<td>Negative</td>
<td>Remission of</td>
</tr>
<tr>
<td>Don’t know</td>
<td>Prison for</td>
</tr>
<tr>
<td>None</td>
<td>manslaughter</td>
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<tr>
<td>Yes</td>
<td>Prison for murder</td>
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<table>
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<tr>
<th>Type of legal sanction</th>
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<tbody>
<tr>
<td>Charges dropped</td>
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<td>Remission of sentence</td>
</tr>
<tr>
<td>Prison for manslaughter</td>
</tr>
<tr>
<td>Prison for murder</td>
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</tbody>
</table>

All values are shown as number (%).

CONCLUSIONS

We trust that our study illustrates the difficulties of

making direct

opinions.

Necessary to report the true opinions they do have. Further, it

has been suggested that inclusion of “don’t know” options in

attitude measures may not enhance data quality but instead

preclude measurement of some meaningful opinions.

In the first questionnaire, the students could only answer

“positive”, “negative”, or “don’t know” to the question about

legalisation of active euthanasia. Almost half of the

respondents answered “don’t know”. In the second ques-

tionnaire the students were, besides no legal control, given

the choice between four different degrees of legal control in a

split ballot fashion. The effect of excluding a “don’t know” alternative was similar to previous findings. These five options seem to have made it easier for many students to express their opinion about legalisation of active euthanasia. If this interpretation is correct, the results of the second questionnaire should be more valid than the first.

ACKNOWLEDGEMENTS

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REFERENCES


Table 2 Distribution of responses to the first questionnaire about acceptance of euthanasia and the second questionnaire about reasonable legal sanction when a physician performs euthanasia

<table>
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