Doctors’ authoritarianism in end-of-life treatment decisions. A comparison between Russia, Sweden and Germany

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Abstract

Objectives—The study was performed in order to investigate how end-of-life decisions are influenced by cultural and sociopolitical circumstances and to explore the compliance of doctors with patient wishes. Participants and measurement—Five hundred and thirty-five physicians were surveyed in Sweden (Umeå), Germany (Rostock and Neubrandenburg), and in Russia (Arkhangelsk) by a questionnaire. The participants were recruited according to availability and are not representative. The questionnaire is based on the one developed by Molloy and co-workers in Canada which contains three case vignettes about an 82-year-old Alzheimer patient with an acute life-threatening condition; the questionnaire includes different levels of information about his treatment wishes. We have added various questions about attitudes determining doctors’ decision making process (legal and ethical concerns, patient’s and family wishes, hospital costs, patient’s age and level of dementia and physician’s religion).

Results—Swedish physicians chose fewer life-prolonging interventions as compared with the Russian and the German doctors. Swedish physicians would perform cardiopulmonary resuscitation (CPR) in the event of a cardiac arrest less frequently, followed by the German doctors. More than half the Russian physicians decided to perform CPR irrespective of the available information about the patient’s wishes. Level of dementia emerged as the most powerful determining attitude-variable for the decision making in all three countries.

Conclusions—The lack of compliance with patient wishes among a substantial number of doctors points to the necessity of emphasising ethical aspects both in medical education and clinical practice. The inconsistency in the treatment decisions of doctors from different countries calls for social consensus in this matter. (Journal of Medical Ethics 2001;27:186–191)

Keywords: End-of-life decision; DNR order; advance directive; physicians; cross-cultural comparison; survey

Introduction

The care and treatment of severely ill incompetent patients is associated with some very complicated medical, ethical, and legal problems. The achievements of modern medicine in terms of technology and treatment enable physicians to prolong life and to postpone death even in the presence of severely debilitating conditions. Often, however, beneficial medical technology may be harmful when used as a life-sustaining measure in terminally ill patients. Elderly people themselves often fear that an overzealous application of high-tech life-saving procedures will just prolong their suffering and compromise their dignity where there is a life-threatening condition. It is now widely agreed that in good clinical practice, when deciding on an appropriate level of treatment, physicians should consider the wishes of the patient and his or her family, the patient’s prognosis, age and quality of life, the legal implications of providing or withholding care, the institution’s policy, the availability and costs of health care resources and the prevailing cultural and social norms. Do-not-resuscitate (DNR) orders and more extended advance directives (AD) have been developed in an attempt to increase patient autonomy and to reduce doctors’ conflicts in their decision making. Some authors have highlighted the ethical tension between physician autonomy and patient autonomy. This is further complicated by another ethical principle of medical practice: beneficence. The utilisation of DNR orders and advance directives is regulated by laws in, for example, the US, Canada and Australia, but not in most European countries.

Studies have shown that a majority of patients would not feel disturbed by questions relating to their choice for or against CPR, would like to discuss DNR orders or advance directives under all circumstances; would prefer to maintain a good quality of life, even with a shorter life expectancy, and would not wish CPR, for example in case of severe dementia. Fortunately, discussions about the use of a DNR order or an advance directive initiated by physicians have been intensified following the implementation of laws in various countries. However, doctors on average spend only a few minutes of the time they devote to a particular patient discussing this topic. In most European countries it is obvious that many physicians are still reluctant to find out what the patient really wants. Processes and related determinants of doctors’ decision making are relatively unexplored.
In order to investigate how the decision making process is influenced by cultural and sociopolitical circumstances, the present study was conducted using samples of physicians from three European countries with different health care systems: Sweden, Germany and Russia. The comparison with the Russian doctors is of particular interest because of differences in the medical curriculum and training in Russia and because of the strained situation within the Russian health care system, which is characterised by a widespread lack of various resources. The aims of the present study are a) to explore treatment decisions for severely ill incompetent patients in relation to underlying attitudes, and b) to test for crosscultural differences in the physicians’ decisions and attitudes.

Methods
Physicians (see table 1 for characteristics of the sample), who frequently encountered treatment situations with incompetent elderly patients were surveyed in Sweden (Umeå), Germany (Rostock and Neubrandenburg), and in Russia (Arkhangelsk) by a questionnaire. The participants were recruited according to availability and are not representative. The questionnaire was administered either during regular grand rounds or individually.

As far as general characteristics are concerned, the Russian doctors were to a larger extent female, older, and had more clinical experience compared with their Swedish and German counterparts. Furthermore, there were fewer residents and interns among the Swedish doctors.

The questionnaire in the present study is based on the original developed by Molloy and co-workers from McMaster University in Canada.32,34 It was translated according to established guidelines35 and adapted to the various countries, considering the prevailing terminology. It contains three case vignettes, in each of which the same patient provides different levels of information about his treatment wishes (see table 2), and various questions about factors determining the doctor’s decision making process (legal and ethical concerns, patient’s and family wishes, hospital costs, patient’s age and level of dementia and physician’s religion—on a five-point scale). Finally, there were demographic questions about the physician’s age, gender, level of training and years of practice. The presented case was as follows.

An 82-year-old is brought, accompanied by a nurse, to the emergency room with gastrointestinal bleeding. At the nursing home where he lives, he vomited copious amounts of blood and passed a large, abnormally dark stool earlier that night. He is now pale, stuporous, diaphoretic, understands simple commands, but can’t answer simple questions coherently. His heart rate is 120 beats/minute and his blood pressure is 70/40 mm Hg. The note from the nursing home states that he was investigated three years ago by a neurologist, who diagnosed Alzheimer’s disease following a complete investigation. The nurse describes him as an active 82-year-old, who occasionally displays agitated behaviour with the staff. He needs assistance washing and dressing and wanders about during the day. He has difficulty remembering names and occasionally does not recognise his daughter. He is incontinent of urine all the time and incontinent of faeces occasionally.

Three different paragraphs were added at the end of the case-vignette indicating the level of information about his treatment wishes.

Table 2 Treatment options given to physicians in the questionnaire

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supportive measures only (SUPP)</td>
<td>Measures that enhance comfort or minimise pain (for example, use of morphine); no intravenous lines; don’t group &amp; cross-match; don’t investigate cause of bleeding; start intravenous line, cross-match and transfuse; N/G tube, blood tests and x-ray exam</td>
</tr>
<tr>
<td>Limited therapeutic effort (LIM)</td>
<td>Cimitidine or Ranitidine intravenous; don’t transfer to intensive care unit (ICU); don’t operate even if the patient continues to bleed</td>
</tr>
<tr>
<td>Maximum effort (MAX)</td>
<td>LIM plus the following: emergency gastroscopy if necessary; emergency surgery if necessary; don’t ventilate (except for surgery)</td>
</tr>
<tr>
<td>Maximum effort with ICU (MICU)</td>
<td>MAX plus the following: transfer to ICU; if necessary; may insert central lines, etc if necessary</td>
</tr>
</tbody>
</table>

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Table 1 Characteristics of the sample (in per cent - \( x^2; df; p \))

<table>
<thead>
<tr>
<th></th>
<th>Sweden</th>
<th>Germany (East)</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender (45.84;2;&lt;.0001)</td>
<td>Male</td>
<td>Female</td>
<td></td>
</tr>
<tr>
<td></td>
<td>70</td>
<td>30</td>
<td>65</td>
</tr>
<tr>
<td>Age category (43.84;8;&lt;.0001)</td>
<td>20–29</td>
<td>30–39</td>
<td>40–49</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>20</td>
<td>41</td>
</tr>
<tr>
<td>Level of training (72.31;8;&lt;.0001)</td>
<td>Intern</td>
<td>35</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>General practitioner</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Specialist</td>
<td>55</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Number of years in practice (68.48;8;&lt;.0001)</td>
<td>0–9</td>
<td>68</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>10–19</td>
<td>24</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>20–29</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>30–39</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>40–49</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total number</td>
<td>104</td>
<td>191</td>
<td>232</td>
</tr>
</tbody>
</table>
2) In the second situation a DNR request is available, written by the family physician on a doctor’s order sheet in the nursing home, which is signed by the daughter. This paragraph read as follows: “A note from the family physician indicates that three weeks previously the patient and his daughter had requested that in the event of a cardiac arrest no attempt should be made to resuscitate the patient”.

3) In the third situation a completed detailed therapeutic and resuscitative effort chart (DTRÉC), including an advance directive (AD), was available: The family physician has spoken to the patient, his daughter and the primary care physician in the nursing home and other concerned health professionals. They have documented the wishes of the patient and his daughter in the event of cardiac arrest or acute life-threatening illness. The purpose of discussions and documentation was to provide guidance and facilitate clinical decision making by physicians who are not familiar with the patient or his wishes regarding treatment. The patient, his daughter, and the family physician had each chosen the maximum therapeutic effort (MAX) (see table 1). The signatures of both the patient and his family physician were included to maximise the likelihood of another physician complying with the expressed wishes in the patient’s directive. In addition, it was also stated that in the event of cardiac arrest no cardiopulmonary resuscitation (CPR) be attempted.

The physicians were asked to chose one of the four treatment options which are shown in table 1 and to indicate whether they would attempt CPR in the event of cardiac arrest.

Data analysis
We calculated χ²-square tests, one-way Anovas, and simple factorial ANOVAs (df = degrees of freedom, depends on sample size; p = probability of significant differences) with attitude variables as covariates in order to explore differences in decision making between the groups under study. Also, multiple regression analyses (method: enter stepwise) have been applied for testing for relationships between attitude-variables and the chosen treatment-option concerning the three different scenarios. Because of multiple tests of comparisons and relationships only findings at the level of p < .01 were considered in order to minimise the risk of overinterpretations. Statistical data analysis has been performed by SPSS 5.1 on an Apple Macintosh computer.

Results
CHOOSEN TREATMENT OPTION
There are significant differences between the Swedish, the German and the Russian doctors as to the treatment choices for all three situations (table 3). In each case, the Swedish physicians decided, on average, for more intensive options. The Russian and the German doctors did not differ from each other as to the chosen level of treatment.

The background variables (age, gender, level of training, years of practice) seemed of minor importance for the treatment choices. Swedish female doctors chose less intensive options than males for the “no info” situation (χ²-square = 17.69; df = 3; p = .0005) whereas those German physicians who had a longer period of clinical experience decided for a less intensive treatment level for the DNR situation (χ²-square = 22.64; df = 9; p = .007).

The importance attached to the level of dementia emerged as the most powerful determining attitude-variable. It remains as a covariate within stepwise multiple regressions as the most predictive variable for all three samples and all situations (multiple regression r² between .27 and .11; p < .0001).

CPR DECISIONS
The Swedish physicians would perform CPR in the event of a cardiac arrest in fewer cases, followed by the German physicians (table 3). More than half the Russian physicians decided to perform CPR independently of the available information about patient wishes. For the Swedish and the German physicians, there was a trend to a reduced CPR rate with increasing information about patient wishes. For the Russian group the likelihood of performing CPR was the same in the the none information situation as in the the AD situation.

The data analysis yielded no significant relationships between the background variables and the CPR decisions for the Swedish and the Russian physicians. For the German sample only, the number of years in clinical practice influenced the probability of performing CPR in the DNR situation (χ²-square = 22.64; df = 9; p = .007); the
The Germans reported more difficulties than the Russians and the Swedes reported the most difficulties.

The fewer difficulties German and Russian physicians reported for the “no info” situation the more likely they were to choose a more intensive treatment option (German: \( \chi^2 = 44.24; \text{df} = 12; \ p < .0001; \) Russian: \( \chi^2 = 41.80; \text{df} = 12; \ p < .0001 \)). A comparable relationship was found for the Russians concerning the DNR situation (\( \chi^2 = 30.82; \text{df} = 12; \ p = .0021 \)). For the Swedish and for the German group a reverse relationship occurred, i.e., the more difficulties the more likely was a more intensive option to be chosen (\( \chi^2 = 31.92; \text{df} = 12; \ p = .0014/\chi^2 = 25.83; \text{df} = 12; \ p = .0113 \)). For the German doctors only, a significant relationship was found between the perceived difficulties in decision making and the treatment option chosen for the AD situation. When they scored more difficulties then they were more likely to prefer less intensive treatment options (\( \chi^2 = 34.44; \text{df} = 12; \ p = .0006 \)).

The decision to perform CPR was rated as statistically independent of the perceived difficulties in each situation across the countries.

Furthermore, for the Russian doctors only, the less importance they attached to family wishes and patient wishes for the AD situation, the less difficult the decision was for them (\( \chi^2 = 44.17; \text{df} = 16; \ p = .0002/\chi^2 = 43.71; \text{df} = 16; \ p = .0002 \)).

HELP FROM INFORMATION ABOUT PATIENT WISHES (DNR ORDER AND/OR ADVANCE DIRECTIVE)

Significant differences occurred between the groups for both situations (table 4) implying that the Russian physicians were less influenced by patients’ wishes than the other groups.

In each group the physicians who perceived the patient DNR to be of more benefit were the more likely to favour less intensive treatment options (\( \chi^2 = 49.57; \text{df} = 12; \ p < .0001 \) for the Russian and \( \chi^2 = 33.21; \text{df} = 12; \ p = .0009 \) for the Swedish). Whereas we could not find any
The interpretation of the results is limited by the hypothetical character of the situations and by the nonrepresentativeness of the samples under study. Nevertheless, some important findings can be discussed because the results from the various countries are based on the same standardised method.

Whereas Swedish doctors chose, on average, less intensive treatment options, their German and Russian colleagues were at a level similar to each other. Possibly, the Swedish physicians could be characterised as having less fearful attitudes towards dying and death. Swedish and German physicians are similar as to CPR decisions. It became obvious that the more information about patients’ wishes was available (DNR order and AD) the more intensively they were treated. Similar relationships were established concerning the advance directive for all groups ($\chi^2$-square between 67.29; df = 12; p < .0001 for German—DNR and $\chi^2$-square = 20.02; df = 4; p = .0005 for Swedish—AD).

There was only one significant influence of the background variables among the Russian physicians, and this implied that the younger they were the higher was the benefit they derived from the advance directive ($\chi^2$-square = 47.41; df = 16; p < .0001).

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However, more than 50 per cent of the Russian doctors would perform CPR irrespective of the available information about patient wishes. This might be due to their strong authoritarian attitudes, which we discovered in another aspect of our study and/or their almost total unfamiliarity with such patient documents. The authoritarianism of the Russian physicians is confirmed by the relationship between the level of help and chosen treatment option for the Russian physicians, the Swedish as well as the German physicians were more compliant with the advance directive the more they derived benefit from this document (Swedish: $\chi^2$-square = 30.06; df = 12; p < .0027/German: $\chi^2$-square = 23.43; df = 12; p = .0243).

Correspondingly, if a physician from Sweden or Germany had decided to perform CPR in the event of a cardiac arrest he or she was more likely to perceive only a small amount of benefit from the DNR order. Similar relationships were established concerning the advance directive for all groups ($\chi^2$-square between 67.29; df = 12; p < .0001 for German—DNR and $\chi^2$-square = 20.02; df = 4; p = .0005 for Swedish—AD).

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should be a mandatory part of the medical curriculum. This could result in a more pronounced view of the patient as a subject, with the consideration of his/her wishes as to treatment, becoming part of the decision making process, alongside prognosis and quality of life.

Finally, the very divergent views of doctors from different countries on the issues of the present study call for a social consensus on how treatment decisions should be made. This seems even more appropriate because of the increasing mobility of people between countries. Before implementing uniform standards for decision making in health care, however, the legal prerequisites have to be established.

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