Short informative title:

- Long-term care nurses’ attitudes and the incidence of voluntary stopping of eating and drinking: a cross-sectional study

Short running title:

- Attitudes of VSED in long-term care

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<table>
<thead>
<tr>
<th>Criteria</th>
<th>Author Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Made substantial contributions to conception and design, or acquisition of data, or analysis and interpretation of data;</td>
<td>SS, AF</td>
</tr>
<tr>
<td>Involved in drafting the manuscript or revising it critically for important intellectual content;</td>
<td>SS, WS, DB, AF</td>
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<tr>
<td>Given final approval of the version to be published. Each author should have participated sufficiently in the work to take public responsibility for appropriate portions of the content;</td>
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<td>Agreed to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.</td>
<td>SS, WS, DB, AF</td>
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No conflict of interest has been declared by the author(s)

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ABSTRACT

Aims: To assess the incidence of voluntary stopping of eating and drinking in long-term care and to gain insights into the attitudes of long-term care nurses about the voluntary stopping of eating and drinking.

Design: A cross-sectional study

Methods: Heads of Swiss nursing homes (535; 34%) answered the Online-Survey between June and October 2017, which was evaluated using descriptive data analysis.

Results: The incidence of patients who died in Swiss nursing homes by voluntarily stopping eating and drinking is 1.7% and 67.5% of participants consider this phenomenon highly relevant in their daily work. Most participants (64.2%) rate voluntary stopping of eating and drinking as a natural death accompanied by health professionals and patients are also granted the right to care (91.9%). This phenomenon is expected by the participants less at a young age and more in old age.

Conclusion: Participants' overall views on the voluntary stopping of eating and drinking are very positive, whereas it is assumed that voluntary stopping of eating and drinking is a phenomenon of old age. Professionals still lack sufficient knowledge about this phenomenon, which could be clarified through training.

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Impact:
1. Voluntary stopping of eating and drinking is much discussed interprofessional, but there is a lack of knowledge on how this is perceived in the context of long-term care and about the incidence of the phenomenon.

2. Voluntary stopping of eating and drinking is rare but noticeable end-of-life practises that is considered by professionals to be mainly dignified and peaceful, although moral concerns make it difficult to accompany.

3. These findings call on long-term care institutions to discuss voluntary stopping of eating and drinking as an end-of-life practice. Positioning on the issue provides clarity for staff and patients and promotes to develop standardized care.

**Key words:** long-term care, nurse, food refusal, decision at the end-of-life, nursing home, VSED, advance nursing practice, self-determination, end-of-life practice, attitudes
INTRODUCTION

Switzerland cultivates a right-to-die society where the desire to die is openly communicated. Over the past 20 years, health professionals have increasingly been confronted with the desire of patients to die (Schmid, Zellweger, Bosshard, Bopp, & Swiss Medical End-Of-Life Decisions Study Group, 2016) and the number of assisted suicides is also increasing (Wiler, 2019). In Switzerland, the Swiss Academy of Medical Sciences (SAMS) (2018) issues a guideline for all health professions, which regulates the handling of death and dying. In 2018, for the first time, in addition to assisted suicide, the forgoing life-prolonging treatments, pain relief measures and sedation, a further option to end life prematurely was included and discussed. It is about the voluntary stopping of eating and drinking, VSED for short; an autonomous decision of a discerning person who would still be able to eat and drink, stops the intake of food and liquid with the intention of prematurely ending one's own life (Bernat, Gert, & Mogielnicki, 1993; Ganzini et al., 2003; Ivanović, Büche, & Fringer, 2014; Mattiasson & Andersson, 1994). It should be emphasised that VSED should be clearly distinguished from discontinuation of artificial feeding (Druml et al., 2016), treatment of people with dementia (Volkert et al., 2015), or malnutrition, including anorexia and cachexia (Arends et al., 2017; Hopkinson, 2015a, 2015b). The topic of VSED is not a marginal issue, as can be seen in international studies which showed that between 32% and 62% of the participating health care professionals have already accompanied at least one person during VSED (Bolt, Hagens, Willems, & Onwuteaka-Philipsen, 2015; Chabot & Goedhart, 2009; Ganzini et al., 2003; Hoekstra, Strack, & Simon, 2015; Shinjo et al., 2017). Empirical data on the incidence of VSED in long-term care in Switzerland has not yet been recorded.

Background

The decision to VSED is made autonomously and self-determined by the person willing to die (Bolt et al., 2015; Ivanović et al., 2014). It affects people of all ages, with an increasing frequency from the age of 60 (23 - 32%) and further from the age of 80 (48 - 70%) and an expected life span up to four weeks (32%), one year (41%) or longer (26%) (Bolt et al., 2015; Chabot & Goedhart, 2009; Stängle, Schneppe, & Fringer, 2019). Most people die through VSED in their own home (52%) or nursing home (42%) (Bolt et al., 2015). The persons frequently suffer from a somatic disease (39%) or cancer (27%) or have no previous illnesses except for...
old-age fractures (24%) (Bolt et al., 2015; Chabot & Goedhart, 2009; Stängle, Schnep, & Fringer, 2019). In the decision-making process, somatic complaints (79%), existential causes (77%), dependencies (58%), loss of autonomy (37%), loneliness (21%) or psychiatric symptoms (14%) are present among those who are willing to die (Bolt et al., 2015).

While the decision on the VSED is self-determined, a need for care develops over time (Fringer, Fehn, Büche, Häuptle, & Schnep, 2018). It is therefore advisable to have health professionals accompany you right from the start (Lachman, 2015), which is not always the case (Bolt et al., 2015). In the preparation phase, the first step is to assess the capacity of the person who is willing to die and to prepare all persons involved in the process for the coming period (Bickhardt & Hanke, 2014; Birnbacher, 2015; Quill, 2015; Simon & Hoekstra, 2015). The Guideline of the Netherlands can serve as a basis for this (Royal Dutch Medical Association (KNMG) & Dutch Nurses’ Association (V&VN), 2014).

For a long time, the course was described as predominantly positive (Ganzini et al., 2003; Ivanović et al., 2014), but in recent years some cases have been reported where the course was described as cumbersome, long and with severe side effects (e.g. delir) (Fehn & Fringer, 2017; Gärtner & Müller, 2018; Saladin, Schnep, & Fringer, 2018). The accompaniment of a VSED case can still be seen as an unknown challenge in everyday professional life. This can lead to tensions between the professional stance and one's attitudes, resulting in fears and uncertainties in the accompaniment (Saladin et al., 2018).

THE STUDY

Aims

This study aimed to access the incidence of VSED in Swiss nursing homes and to explore the attitudes and professional stance of nurses for long-term care about VSED.

Design

A cross-sectional study on VSED in Swiss long-term care.

Sample

Switzerland has a total of 1562 nursing homes (Federal Statistical Office (FSO), 2018b), which are very well organised by the professional association CURAVIVA (CURAVIVA Schweiz, 2019). Due to CURAVIVA’s willingness to send our questionnaire by e-mail and newsletter to
all members, all Swiss nursing homes were invited to participate in the survey. The study population was defined as either the nursing director, institute director or head nurse.

**Data collection**

According to our research protocol (Stängle, Schnep, Mezger, Büche, & Fringer, 2018), an evidence-based questionnaire (Stängle, Schnep, Mezger, Büche, & Fringer, 2019) was used in this study to determine the incidence of VSED and attitudes and professional stance among health professionals to VSED. In addition to the managers of nursing homes, managers of outpatient nursing and family physicians were also interviewed in this research project, but these are not dealt with in this article. The questionnaire was created with the survey software Questback (EFS 10.9) and the recruitment took place between June and October 2017. Access to the questionnaire is subject to the consent of the declaration of consent. There the research project was described, and the objectives defined. It was emphasized that participation in the study was voluntary and anonymity was guaranteed.

**Ethical considerations**

The study was reviewed and approved by the responsible institutional review board of the Greater Region of Eastern Switzerland (EKOS 17/083) (May 2017).

**Data analysis**

Descriptive analysis was carried out using statistical software IBM SPSS Statistics (Version 25). The characteristics of the study participants, as well as the results from the survey, are given in means, standard deviations, percentages and frequencies.

**Validity, reliability and rigour**

The questionnaire used in this study was checked and tested in advance using standard pre-test (Colton & Covert, 2007) and content validity index (Polit & Beck, 2006; Polit, Beck, & Owen, 2007).

**RESULTS**

**Description of the participants**

A total of 535 out of 1562 participants answered the questionnaire, resulting in a response rate of 34%. In addition to the overall response rate, the distribution of feedback in Switzerland is also...
of interest. To calculate this, Switzerland is divided into seven major regions, consisting of one or more cantons and an average population density of 1,041,144 persons (Schuler, Dessemontet, & Joye, 2005, p. 67ff). Figure 1 shows that the response rate per region is between 21% and 48%.

The majority of the participants (59.5%) are women and on average 52(8) years old. Half of the participants (52.6%) have acquired further training in palliative care and have been working for an average of 28(10) years (Table 1).

**Incidence of VSED in Swiss nursing homes**

First, we wanted the nurses to assess the relevance of VSED in their daily work. For 67.5% (n=355) of those surveyed, VSED is already an important topic in everyday professional life and a half (55.3%, n=280) assume that confrontation with VSED will increase in the future. We also wanted to know if the participants knew and were familiar with VSED and how many people had already accompanied a person during VSED. It turned out (n=535) that most (88.2%) know VSED as an option to end life prematurely and a little less (61.3%) feel more familiar with the topic. VSED was accompanied by almost half (47.1%) of all nursing home managers surveyed.

Those who accompanied a person during VSED (n=252) were asked to provide more detailed information on the frequency of accompaniment. Since the beginning of their professional career, the participants have accompanied an average of 12 patients during VSED (total 3061, mean 12(19), range 1 - 100). To calculate the incidence of VSED, used the previous year of the recruitment period, in this case, the year 2016. To this end, participants were asked to indicate the number of VSED cases they accompanied in 2016. In 2016, a total of 462 patients were accompanied by nurses, which is two patients per nurse in 2016 (mean 2(3), range 0 - 30). In 2016, 64’964 deaths were reported in Switzerland (Federal Statistical Office (FSO), 2018a). To measure the incidence, the percentage of all VSED cases in 2016 was calculated based on all deaths. This leads to an incidence of VSED in Switzerland of 0.7%. While 41% (≈ 26’635 deaths) of all people in Switzerland die in nursing homes (Federal Office of Public Health (FOPH), 2016), the incidence of having died in 2016 in a nursing home as a result of VSED is 1.7%.

We also wanted to know if the nurses recommended VSED to the patients in 2016. The nurses have recommended VSED as an option to an average of one person (total 251, mean 1(2), range
0 - 20). Among these, 47 (18.7%) participants did not make a recommendation but would have done so, while 120 (47.6%) would never make a recommendation.

Classification of VSED

Nurses were asked to indicate how they felt VSED should be classified. Most (64.2%) feel that VSED is a natural death accompanied by healthcare professionals and a quarter (25.7%) feel that it is passive euthanasia in the sense of forgoing life support measures. The remaining 10.1% say that it is a self-determined decision, suicide, an alternative form of death or can be evaluated differently depending on the case (Figure 2).

Factors that influence the decision of nurses for or against an accompaniment

Basically, nurses see that people during VSED have a right to medical and nursing care (91.9% strongly agree) and most can respect the decision to VSED (87.2% strongly agree), in the sense it is not for me to judge, the person has the right to do that (see Table 2). This overlaps in most cases (72%) with the strong agreement (or 86.7% agreement) that VSED is consistent with one's worldview or religion. The acceptance for the decision is strongly agreed by 80.8% of the respondents, which means they can agree and approve the decision. Almost everyone would be willing to accompany a patient during the VSED (93.2%). In 7.7% (agreement), the accompaniment contradicts the culture of the institutions of the participants, whereas in 79.9% (disagreement) of the cases no objections are to be feared on the part of the institutions. For 77.7% (agreement) of the participants, a clarification of the patient's ability to judge is an important step that influences the decision to accompany them, 11.8% have a neutral attitude and 10.5% (disagreement) feel this step is not necessary. Two thirds (67%) of those involved can imagine recommending VSED as an option to a person and the many (72.6%) could imagine choosing VSED as an option if they wanted to end their lives prematurely.

Challenges in accompanying a patient during VSED

Most (71% agreement) consider the dying process through VSED to be dignified, 11.6% (disagreement) can only contradict this and express moral concerns (12.7% agreement) (see Table 2). Most, on the opposite, see no moral concerns during the accompaniment (74.5% disagreement). While the professionals tend to feel burdened during the accompaniment (35.9% neutral attitude, 48.7% agreement), most professionals agree (75.3% agreement) that the
relatives are burdened during this time. Also, nurses assume that relatives have problems accepting VSED decisions (61.5% agreement).

**The influence of age on the decision VSED**

In the following, participants should not consider the incidence of VSED, but make assumptions about how patients express their desire to forego food and fluid. For this purpose, participants should relate their assumptions about the frequency of the expressed VSED to their assumptions about the frequency of the unspoken refusal of food and fluid. The nurses ($n=535$) assume that the majority (75.3%) of patients unspokenly reduce and stop food intake and only 24.7% openly express their desire to die through VSED. In the next step, we wanted to know if there was a connection between the two forms of food refusal and the age of the patients. We wanted to find out where age groups the participants expect the two forms of food renunciation. As can be seen in Figure 3, both forms are expected by about half of the participants at a younger age, while almost all expect it to occur at the age of 75.

**DISCUSSION**

In this research project, the incidence of VSED in long-term care in Switzerland and the attitudes of managers of long-term care facilities to VSED were to be recorded, which was also achieved. While in the Netherlands between 0.4-2.1% of all deaths can be attributed to VSED (Chabot & Goedhart, 2009; Onwuteaka-Philipsen et al., 2012), similar results could be obtained in this study, showing that 1.7% of all deaths in Swiss long-term care institutions and 0.7% of all deaths in Switzerland are attributable to VSED and that among respondents almost every second institution has already accompanied a VSED case. The proportion of participants who have already accompanied a person to the VSED with international studies (Bolt et al., 2015; Hoekstra et al., 2015; Shinjo et al., 2017) is also comparable. Especially by the assumption of the participants that for every patient who expresses the wish to die through VSED, four patients come who do not communicate their wish to die but refuse to eat. Since only two-thirds of the participants consider it necessary to check the patients' ability to judge, there is a danger that patients are wrongly attributed to the desire to die, although other causes such as pain or homesickness (Bartholomeyczik, 2019) may hinder the patient from eating.
Death by VSED is seen by most as a natural death that enables dignified dying and confirms the above-average positive attitude towards VSED (Ganzini et al., 2003; Ivanović et al., 2014). This can also be explained by the fact that nurses make a good death of relatives and health professionals acting according to the patient's wishes, dying without technical equipment and the ability to communicate till the end (Gibson et al., 2008). One quarter sees VSED as passive euthanasia, as it is also perceived in Germany (Hoekstra et al., 2015). The attitude, as it exists in the Netherlands (Bolt et al., 2015; Chabot & Goedhart, 2009), that VSED should be regarded as physician assisted suicide, is only supported by a few. There is a heterogeneous picture of the classification of VSED as found in international literature (Alt-Epping, 2018; Fringer et al., 2018; Requena & Andrade, 2018; Simon, 2018). The recommendation for VSED is rejected by most, which is also because changes in therapy are traditionally discussed with the attending physician.

Among all participants, less than half assume that expressed VSED and unspoken food refusal may occur in all age groups. Of the others, few believe that both can occur in age groups up to 75 years, while most expect both to occur from age 75. From these findings it becomes clear that the expectations of the participants are focused on people of an advanced age. This is probably since the average age of patients in Swiss nursing homes is over 80 years (Federal Statistical Office (FSO), 2019). However, international literature (Bolt et al., 2015; Chabot & Goedhart, 2009; Stängle, Schnepp, Büche, Häuptle, & Fringer, 2019; van der Heide, Brinkman-Stoppelenburg, van Delden, & Onwuteaka-Philipsen, 2012) has already shown that VSED can occur in all age groups of decision-competent persons. Even though it is the least common among the under-65s with about 7%, two thirds are 80 years and older. It seems important that health professionals are educated about these findings to be able to develop a differentiated approach to the topic.

**Limitations**

The strength of this study lies in the fact that all nursing homes in Switzerland invited one manager each to take part in the survey, so that in the extrapolation of the VSED accompaniment, it was not possible to duplicate a single VSED case. However, it is also possible that not every VSED case was communicated with the management level and thus remained undiscovered. Also, not all of the nursing homes we contacted answered our questionnaires,
which can lead to further cases not being discovered. Accordingly, a higher incidence of VSED cannot be ruled out.

The response achieved does not constitute a representative study. However, this time the focus was not on a sample, as in previous studies (Bolt et al., 2015; Hoekstra et al., 2015; Shinjo et al., 2017), but on a national survey of all nursing homes. With this participation, we met the expected 20% response rate according to our study protocol (Stängle, Schnepp, Mezger, et al., 2019) and were also able to exceed the average response rate of national studies worldwide (Sax, Gilmartin, & Bryant, 2003).

CONCLUSION

For the first time, the incidence of VSED in Swiss nursing homes was recorded, with the result that 1.7% of all patients die from VSED in nursing homes. Participants expect four times as many unreported cases of patients who do not eat, but do not communicate openly.

Participants view VSED very differently, but predominantly as a natural dying process and have an overall positive attitude towards VSED. In particular, the participants' assumption that VSED is only expected by a few at a young age reveals an important knowledge gap. It can therefore be expected that there will be further knowledge deficits which can be remedied by targeted further training and conferences.
Conflict of Interest statement

The authors declared no potential conflicts of interest concerning the research, authorship and/or publication of this article.
References


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Table 1: Characteristics of participants

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<thead>
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<th>535</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age (in years) (24 missings)</strong></td>
<td></td>
<td></td>
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<tr>
<td>&lt; 30 years</td>
<td>6</td>
<td>(1.2%)</td>
</tr>
<tr>
<td>30 – 39 years</td>
<td>48</td>
<td>(9.4%)</td>
</tr>
<tr>
<td>40 – 49 years</td>
<td>107</td>
<td>(20.9%)</td>
</tr>
<tr>
<td>50 – 59 years</td>
<td>287</td>
<td>(56.2%)</td>
</tr>
<tr>
<td>≥ 60 years</td>
<td>63</td>
<td>(12.3%)</td>
</tr>
<tr>
<td><strong>Gender (16 missings)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>210</td>
<td>(40.5%)</td>
</tr>
<tr>
<td>Female</td>
<td>309</td>
<td>(59.5%)</td>
</tr>
<tr>
<td><strong>Profession (0 missings)</strong></td>
<td></td>
<td></td>
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<tr>
<td>Head nurse</td>
<td>84</td>
<td>(15.7%)</td>
</tr>
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<td>Institute director</td>
<td>283</td>
<td>(52.9%)</td>
</tr>
<tr>
<td>Nursing director</td>
<td>168</td>
<td>(31.4%)</td>
</tr>
<tr>
<td><strong>Competence level in Palliative Care (20 missings)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level A1 (1-2 ECTS)</td>
<td>58</td>
<td>(11.3%)</td>
</tr>
<tr>
<td>Level A2 (2-3 ECTS)</td>
<td>94</td>
<td>(18.3%)</td>
</tr>
<tr>
<td>Level B1 (5-6 ECTS)</td>
<td>71</td>
<td>(13.8%)</td>
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<td>Level B2 (17-18 ECTS)</td>
<td>37</td>
<td>(7.2%)</td>
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<tr>
<td>Level C (60-180 ECTS)</td>
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<td>No additional qualification in Palliative Care</td>
<td>244</td>
<td>(47.4%)</td>
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<td><strong>Work experiences (20 missings)</strong></td>
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<tr>
<td>&lt; 10 years</td>
<td>31</td>
<td>(6.0%)</td>
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<tr>
<td>10 – 19 years</td>
<td>75</td>
<td>(14.6%)</td>
</tr>
<tr>
<td>20 – 29 years</td>
<td>139</td>
<td>(27.0%)</td>
</tr>
<tr>
<td>30 – 39 years</td>
<td>208</td>
<td>(40.4%)</td>
</tr>
<tr>
<td>40 – 49 years</td>
<td>62</td>
<td>(12.0%)</td>
</tr>
</tbody>
</table>
### Table 2: Nurses’ attitudes and stance towards VSED

<table>
<thead>
<tr>
<th>Attitudes (A) and stance (S) towards VSED</th>
<th>Coding Mean(SD)</th>
<th>Strongly disagree</th>
<th>Disagree somewhat</th>
<th>Neutral</th>
<th>Agree somewhat</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(A) Compatible with world view or religion</strong></td>
<td>n=532, 4.5(1.0)</td>
<td>17</td>
<td>19</td>
<td>35</td>
<td>78</td>
<td>383</td>
</tr>
<tr>
<td><strong>(S) Contradicts culture of institution/professional ethics</strong></td>
<td>n=532, 1.7(1.1)</td>
<td>307</td>
<td>118</td>
<td>66</td>
<td>23</td>
<td>18</td>
</tr>
<tr>
<td><strong>(S) Determination of the patient’s ability to judge</strong></td>
<td>n=534, 4.2(1.2)</td>
<td>26</td>
<td>30</td>
<td>63</td>
<td>103</td>
<td>312</td>
</tr>
<tr>
<td><strong>(S) Entitled to medical and nursing care</strong></td>
<td>n=530, 4.9(0.5)</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>34</td>
<td>487</td>
</tr>
<tr>
<td><strong>(S) Accept decision</strong></td>
<td>n=533, 4.8(0.5)</td>
<td>2</td>
<td>1</td>
<td>13</td>
<td>52</td>
<td>465</td>
</tr>
<tr>
<td><strong>(S) Respect decision</strong></td>
<td>n=533, 4.8(0.5)</td>
<td>2</td>
<td>1</td>
<td>13</td>
<td>52</td>
<td>465</td>
</tr>
<tr>
<td><strong>(A) Option for yourself</strong></td>
<td>n=530, 1.7(0.4)</td>
<td>145</td>
<td>385</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>(S) Recommend VSED</strong></td>
<td>n=521, 1.3(0.5)</td>
<td>349</td>
<td>172</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>(S) Care for a patient during VSED</strong></td>
<td>n=529, 1.9(0.3)</td>
<td>36</td>
<td>493</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>During VSED support</strong></td>
<td>n=529, 1.9(1.2)</td>
<td>271</td>
<td>123</td>
<td>68</td>
<td>37</td>
<td>30</td>
</tr>
<tr>
<td><strong>(A) Having moral doubts</strong></td>
<td>n=528, 4.0(1.1)</td>
<td>22</td>
<td>39</td>
<td>92</td>
<td>148</td>
<td>227</td>
</tr>
<tr>
<td><strong>(A) Worthy culture of dying</strong></td>
<td>n=532, 3.5(1.1)</td>
<td>25</td>
<td>57</td>
<td>191</td>
<td>139</td>
<td>120</td>
</tr>
<tr>
<td><strong>(S) Professionals are burdened</strong></td>
<td>n=531, 4.1(0.9)</td>
<td>6</td>
<td>15</td>
<td>110</td>
<td>180</td>
<td>220</td>
</tr>
<tr>
<td><strong>(S) Relatives are burdened</strong></td>
<td>n=528, 3.8(0.9)</td>
<td>5</td>
<td>26</td>
<td>172</td>
<td>195</td>
<td>130</td>
</tr>
<tr>
<td><strong>(S) Relatives have trouble accepting the decision</strong></td>
<td>n=528, 3.8(0.9)</td>
<td>5</td>
<td>26</td>
<td>172</td>
<td>195</td>
<td>130</td>
</tr>
</tbody>
</table>
Figure 1: Response rate of long-term care facilities in the seven regions of Switzerland
Source: Map of Tschubby (2019), with information on long-term care provided by the authors.
Figure 2: Classification of VSED by nurses

VSED is...

- (physician and nursing assisted) natural dying: 64.2%
- passive euthanasia: 25.7%
- (the right to) self-determination/autonomy at the end of life: 10.1%
- (physician and nursing assisted) suicide: 4.4%
- an alternative form of dying: 3.6%
- depends on the case: 1.5%
- other: 0.6%

n=525
Figure 3: Participants’ assumptions about the different forms of food renunciation depending on the age of the person willing to die.

- ≤ 45 years: 46.2% expressed VSED, 43.6% unspoken food refusal
- 46 - 65 years: 50.1% expressed VSED, 43.4% unspoken food refusal
- 66 - 75 years: 57.0% expressed VSED, 49.2% unspoken food refusal
- > 75 years: 85.0% expressed VSED, 96.8% unspoken food refusal

n = 535