



**UNIVERSITY
OF TURKU**

This is a self-archived – parallel-published version of an original article. This version may differ from the original in pagination and typographic details. When using please cite the original.

AUTHOR	Hauhio Nora, Leino-Kilpi Helena, Katajisto Jouko, Numminen Olivia
TITLE	Nurses' self-assessed moral courage and related socio-demographic factors
JOURNAL	Nursing Ethics
PUBLISHER	SAGE Publications LTD
YEAR	2021
DOI	https://doi.org/10.1177/0969733021999763
VERSION	Author's accepted manuscript
CITATION	Hauhio, N., Leino-Kilpi, H., Katajisto, J., & Numminen, O. (2021). Nurses' self-assessed moral courage and related socio-demographic factors. <i>Nursing Ethics</i>

ABSTRACT

Background: Nurses need moral courage to ensure ethically good care. Moral courage is an individual characteristic and therefore it is relevant to examine its association with nurses' socio-demographic factors.

Objective: To describe nurses' self-assessed level of moral courage and its association with their socio-demographic factors.

Research design: Quantitative descriptive cross-sectional study. The data were collected with Nurses' Moral Courage Scale and analyzed statistically.

Participants and research context: A total of 482 registered nurses from a major university hospital in Southern Finland completed the Finnish language version of Nurses' Moral Courage Scale in autumn 2017.

Ethical considerations: Ethical approval was obtained from the university ethics committee and permission for the data collection from the participating hospital. Ethical principles and scientific guidelines were followed throughout the research process.

Findings: Nurses' self-assessed level of moral courage was rather high. On Visual Analogy Scale (0–10), the mean value was 8.20 and the mean score of the four dimensional, 21-item Nurses' Moral Courage Scale was 4.09 on a 5-point Likert-type scale. Respondents' gender, present work role, ethical knowledge base, additional ethics education, self-study as a means to acquire ethical knowledge, and frequency of work situations needing moral courage were statistically significantly associated with nurses' moral courage.

Discussion: Strongest association was found between nurses' higher moral courage level and formal and informal ethics education. Honesty and patient's humane and dignified encounter received the highest scores indicating respondents' internalization of the core values of nursing.

Conclusion: Although nurses were fairly morally courageous, moral courage should be a part of nurses' basic and continuing education thus covering its theoretical and practical learning. Since moral courage is a virtue that can be taught, learnt, and practiced, education is a relevant way to maintain and further strengthen nurses' moral courage.

Keywords: Moral courage, nurses, nursing ethics, virtue ethics

Introduction

Ethical conflicts are part of everyday nursing and therefore moral perspective is inherent in all nursing activities.¹ Thus, moral competence is fundamental in nursing, and moral courage is a key element of moral competence.² In nursing, moral courage denotes knowledge of one's own ethical and professional values and principles and fortitude to stand up for them in ethically conflicting situations.³ Moral courage is a virtue, an individual characteristic manifested as actions in the practice of nursing.² Moral courage, like other virtues, can be practiced, developed and strengthened.¹⁰

However, it is not always easy to do the right thing, that is, to act according to one's values and principles. Taking the morally right course of action might require standing up against others and it can cause harm to the actor.^{2,4} This requires moral courage of the nurse which is needed to ensure quality nursing care.⁴ Courageous action requires overcoming fear, and a morally courageous nurse is aware of the personal risk involved in defending good and ethically high-quality care as the goal of health care.⁵

Nursing environment is a complex system, also ethically.^{6,7} Several organizational and individual factors are associated with ethical questions, which arise daily in different nursing contexts and levels of care. Moral courage is a way to address these ethical issues and it is a manifestation of values which the nurse is not willing to compromise.⁹ Nursing and ethical decision-making do not take place in a vacuum. The nurse is always a part of the wider care environment, and every nurse can contribute to promoting, or conversely to undermining the culture of moral courage by displaying moral courage in multiple ways.^{4,8} Speaking up her concerns, pointing out and intervening in unethical practices, and admitting her own mistakes are all morally courageous actions for safeguarding good care.⁸

However, research of moral courage in nursing has been scarce. Most of the previous studies of nurses' moral courage have approached the concept using qualitative research designs.¹¹⁻²² Studies have revealed that moral courage appears as a desire to protect patients and to defend their rights.^{8,13,17,19} Studies have identified moral courage as a personal virtue. Some socio-demographic factors, such as nurses' length of work experience,^{19,20} higher level of education^{23,24}, age,²⁴ the frequency of encountering ethically challenging situations²⁰ and education in ethics²⁵⁻²⁷ have been associated with nurses' level of moral courage.

Notwithstanding, assessing and developing moral courage would benefit from further evidence-based knowledge of nurses' moral courage and from valid and reliable instruments to measure it. Scales to measure moral courage have been previously developed in the field of psychology^{27,28} and medicine²⁹. Nurses' moral distress have been studied and measured fairly much, but moral courage as a mitigating

factor to it has received fairly little attention.³⁰⁻³² A questionnaire to measure perioperative nurses' moral courage has been developed, but the instrument has not been validated^{33,34}.

The Nurses' Moral Courage Scale© (NMCS)³⁵ is a new, validated^{35,36} instrument intended to measure nurses' self-assessed moral courage. The NMCS enables the examination of associations between nurses' socio-demographic factors' and their moral courage. In order to strengthen nurses' ability to defend ethically good care, and to stand up for their values, it is crucial to examine nurses' perceptions of their moral courage and what kind of factors are associated with it using a valid and reliable instrument developed especially for nursing context.

Objective

The aim of this study is to describe nurses' self-assessed level of moral courage and to find out whether their socio-demographic factors are associated with it.

Methods

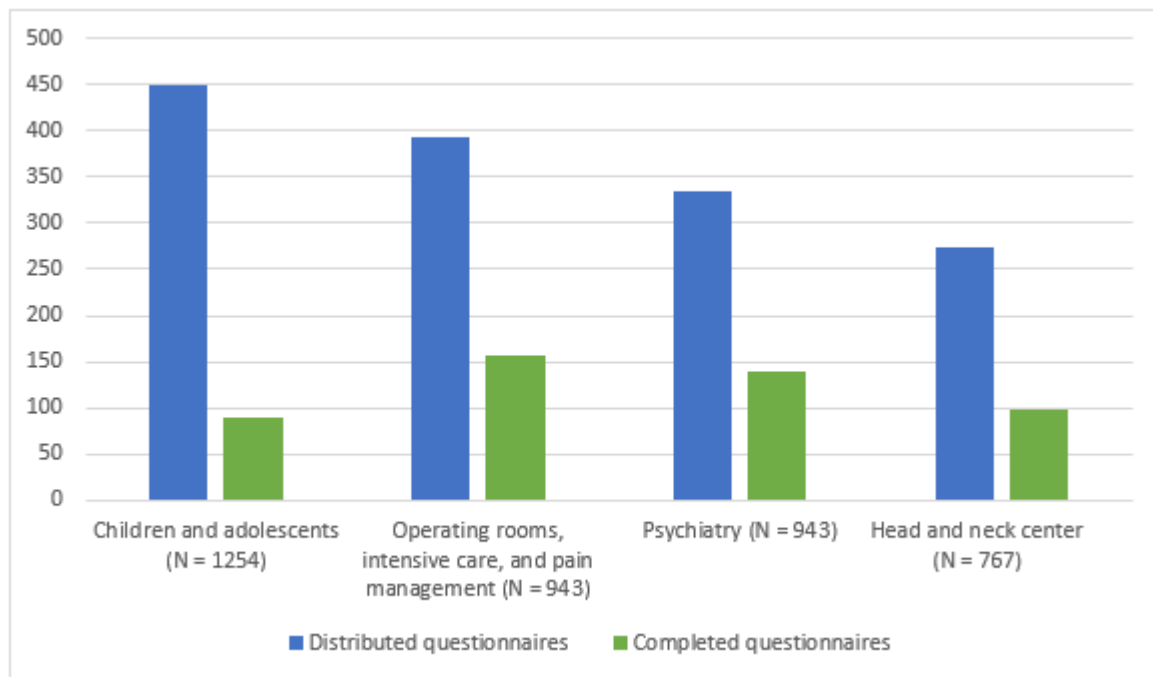
Research design

This was a quantitative descriptive cross-sectional study. The data consisted of nurses' socio-demographic factors and their responses to the structured Nurses' Moral Courage Scale (NMCS)³⁵ self-assessment questionnaire. The data were analyzed with the SPSS 22.0 (IBM Corporation) –program.

Participants and Data Collection

The data were collected in September-October 2017 from a major university hospital in Southern Finland. Hospital's human resource manager, acting as the study's liaison person, defined four clinical areas for data collection. The selected areas were 1) children and adolescents, 2) operating room, intensive care and pain management, 3) psychiatry, and 4) head and neck center (Table 1). The clinical areas were of different sizes in terms of the number of nursing staff and provided a representative sample of nurses representing a large variety of different care contexts.

Table 1. The total number of nurses in clinical areas, and distributed and completed questionnaires



The total number of nurses in the four units was 3907. Based on the statistical power analysis, the required number of the participants was 402 nurses at 90%; 0,05 significance level. The estimated response rate was 30 % based to previous knowledge³⁷. The questionnaires were distributed in proportion to the total number of the nursing staff in the four units, and as many as was estimated to reach the minimum 30 % response rate. The final response rate was 34.2 %.

Inclusion criteria for the participants were: 1) registered nurses, midwives or public health nurses licensed by National Supervisory Authority for Welfare and Health (<http://Valvira.fi>), 2) currently employed at one of the four clinical areas, and 3) sufficient Finnish language skill to complete the questionnaire.

Instrument

Data were collected with the original Finnish language version of NMCS.³⁵ The scale consists of 21 items measuring nurses' self-assessed level of moral courage in four dimensions: 1) *compassion and true presence* (5 items), 2) *moral responsibility* (4 items), 3) *moral integrity* (7 items) and 4) *commitment to good care* (5 items) (Table 2). The Cronbach's alpha values of the four dimensions in the original NMCS³⁵ were respectively: 0.81; 0.81; 0.82; 0.74. The Cronbach's alpha value of the total scale was 0.93.

The items are presented in a random order so they cannot be associated directly with the dimensions they belong to. Items were assessed on a five-point Likert scale (from 1- Does not describe me at all to 5- Describes me very well). In addition to the NMCS the questionnaire comprises 10 socio-demographic questions and a VAS (Visual Analogy Scale: 1–10) requesting nurses to assess their overall moral courage. (Table 2.) A detailed description of the NMCS is presented elsewhere.³⁵

Table 2. Nurses' socio-demographic background variables (n = 482)

	n	%	MEAN	SD	RANGE
Age (years)			41 years	10.7	22–67
Work experience (years)			14.5 years	10.5	0.3-44.3
Gender					
Female	427	88.6			
Male	51	10.6			
Missing	4	0.8			
Highest degree					
Registered nurse/Midwife/Public Health Nurse	430	89.2			
University degree in nursing science	32	6.6			
PhD in nursing science	1	0.2			
Other	17	3.5			
Missing	2	0.4			
Current work role					
Staff nurse	421	87			
Assistant ward manager	37	7.7			
Ward manager	21	4.4			
Other	2	0.4			
Missing	1	0.2			
Working unit					
Children and adolescents	87	18.0			
Operating rooms, intensive care, and pain management	156	32.4			
Psychiatry	138	28.6			
Head and neck center	98	20.3			
Other	2	0.4			

Missing	1	0.2
Healthcare ethics knowledge base		
Unsatisfactory	4	0.8
Satisfactory	61	12.7
Good	334	69.3
Excellent	16	3.3
Missing	16	3.3
Sources of acquiring ethical knowledge base		
Professional healthcare education		
Yes/No	442/33	91.7/6.8
Missing	7	1.5
Other ethics education		
Yes/No	214/260	44.4/53.9
Missing	8	1.7 %
Self-study		
Yes/No	272/202	56.4/41.9
Missing	8	1.7
Nursing practice		
Yes/No	426/48	88.4/10.0
Missing	8	1.7
Other way		
Yes/No	38/437	7.9/90.7
Missing	7	1.5
Participation in other activities related to health care ethics or its development		
Yes	35	7.3
No	439	91.1
Missing	8	1.7
Frequency of facing situations that require moral courage at work		
Never	0	0
Seldom	29	6.0
Sometimes	247	51.2
Quite often	160	33.2
Very often	36	7.5
Missing	10	2.1

Questionnaires were distributed to the head nurses of the four clinical areas to be forwarded to nurses working in the wards of each clinical area. Participating nurses received a pen-and-paper version of the questionnaire to obtain a better response rate than using an electronic questionnaire.^{38,39} The cover letter contained instructions for completing the NMSC, information of the purpose of the study, of voluntary participation and of the guarantee of anonymity of the participants. Completed questionnaires were returned

in a sealed envelope to the human resource manager, from whom the researcher picked them up for analysis.³⁵

Data analysis

The data were analyzed with the SPSS 22.0 (IBM Corporation) -program. Description of the data was carried out by examining the frequency distributions of variables and parameters. The sum of different variables was formed by summing the response codes of the variables related to the equivalent dimension of moral courage and dividing it by the total number of variables. To test the internal consistency, the Cronbach's alpha coefficient was computed. The association of socio-demographic variables with summed variables describing the self-assessed level of moral courage was tested by multivariate analysis of variance (MANOVA). For a significant categorical explanatory variable for categorical variable, pairwise comparisons were performed using Sidak's multiple comparison test. For a significant numerical explanatory variable, the correlation was interpreted using a regression coefficient. The statistical significance level was set at p-value <0.05.^{35,40}

Ethical considerations

The principles of good scientific practice were followed throughout the research process.⁴¹ An ethical approval was obtained from the Ethics Committee of University of Turku (No. 63, 12 December 2016).³⁵ Permission to conduct the study was obtained from the participating hospital (No 71;15 March 2017). Participants were informed in the cover letter of voluntary participation, anonymity, confidentiality letter and possibility to withdraw from the study any time.³⁶ Completion of the questionnaire was considered a consent to participate.⁴²

Results

Participants

The majority of the respondents were female (88.6 %), registered nurses, midwives or public health nurses by their highest degree (89.2 %), and currently working as staff nurses (87 %). Most of the respondents estimated that their knowledge base in health care ethics was at a good (69.3%) or excellent level (13.9%). The vast majority of respondents had not been actively involved in activities related to health care ethics or its development (92.6%). Most of the respondents had encountered situations requiring moral courage at work sometimes (51.2%) or quite often (33.2%). (Table 2)

Nurses' self-assessed moral courage level

The overall level of nurses' self-assessed moral courage measured using Visual Analogue Scale (VAS 0-10) was quite high (mean 8.20; SD 0.973). The lowest single rating was 5.0 and the highest 10.0.

The mean score from the four dimensional, 21-item scale NMCS, assessed by five-point Likert -scale, was also quite high, 4.10 (SD = 0.498). The lowest single value of the summed averages of all items was 3.60 and the highest 4.70. Of the four dimensions, the highest mean score of the answers was 4.32 in *compassion and true presence* (Table 3), and lowest 3.95, in *moral responsibility* (Table 4).

The overall level of self-assessed moral courage (VAS 0–10) was associated with all four moral courage dimensions. Nurses who had higher overall moral courage had better compassion and true presence ($p<0.001$), moral responsibility ($p<0.001$), moral integrity ($p<0.001$) and commitment to good care ($p<0.001$).

Compassion and true presence

The first dimension, *compassion and true presence*, was evaluated by five items*. On average, the highest score was obtained for the statement that nurse would treat the patient with dignity even if someone else disagreed (4.54). The second highest rating was given for the statement that the nurse tends to be genuinely present for the patient despite her own fears (4.39). (Table 3.)

Table 3. Nurses' self-assessment for moral courage dimension *Compassion and true presence* (n = 482)

Key content of the item*	n	Mean score	SD
Encountering each patient as a dignified human being even if someone else disagrees.	482	4.54	0.644
A genuine presence for the suffering patient regardless one's own fears.	481	4.39	0.708
Facing also difficult care situations to ensure good care.	482	4.27	0.744

Discussing about patient's fears even if would have to face one's own fears.	480	4.24	0.826
Creating a human encounter with the patient, even if the superficial relationship is easier.	481	4.17	0.824

*Statements are abbreviated from the original copyrighted NMCS.

Moral responsibility

Of the four statements* indicating nurses' *moral responsibility* the highest rating was given to the item describing the nurse's courage to express her own views on difficult ethical issues (4.04). The second highest rating was given to the item, that the nurse advocates for the patient's right to good care even if someone else involved in the patient's care disagrees (4.03). (Table 4.)

Table 4. Nurses' self-assessment for moral courage dimension Moral responsibility (n = 482)

Key content of the item*	n	Mean score	SD
Expressing an honest opinion even on difficult ethical issues.	482	4,04	0,844
Defending patient rights if someone else advises violating the principles of good care.	478	4,03	0,760
Participating in an ethical decision-making regardless of someone else's differing views.	481	3,91	0,815
Participating in an ethical decision-making debate despite the uncertainty of the right solution.	481	3,81	0,852

*Statements are abbreviated from the original copyrighted NMCS.

Moral integrity

Moral integrity was assessed with seven items*. The highest score of the dimension and the entire NMCS concerned the item that a nurse would admit her own care mistake (4.70). The standard deviation of the answers in this item was also the smallest (0.593), which could be interpreted that very few of the respondents would be concealing a care mistake. The second highest score in the dimension got the item pointing out the nurse's willingness to broach someone else's professionally dishonest conduct (4.39). (Table 5.)

Table 5. Nurses' self-assessment for moral courage dimension *Moral integrity* (n = 482)

Key content of the item*	n	Mean score	SD
Admitting one's own care mistakes.	480	4.70	0.593
Bringing another person's professionally dishonest behavior into the debate.	480	4.39	0.791
Bringing it up for discussion if someone else is trying to conceal a care mistake she made.	481	4.26	0.776
Acting in accordance with professional principles despite the opposition of someone else.	479	4.23	0.709
Bringing an ethical problem for discussion, even if someone else wants to remain silent about it.	481	3.85	0.809
Commitment to professional principles, even at the risk of being bullied in the workplace.	479	3.75	0.830
Bringing up for discussion another person's unethical behavior despite negative feedback.	481	3,64	0,862

*Statements are abbreviated from the original copyrighted NMCS.

Commitment to good care

The fourth dimension, *commitment to good care*, was assessed in five items*. Two of the items received equal and the highest scores (4.16). The first item concerned the nurse's unwillingness to compromise on a patient's right to good care even if someone else urges to do otherwise, and the second item declared that a caregiver is willing to bring to discussion the lack of resources necessary for good care. (Table 6.)

Table 6. Nurses' self-assessment for moral courage dimension *Commitment to good care* (n = 482)

Key content of the item*	n	Mean score	SD
Uncompromising the patient's right to good care, despite pressure from someone else.	481	4.16	0.722
Bringing the lack of resources required for care into the debate.	482	4.16	0.797
Bringing it into the debate if someone else violates the principles of good care.	482	3.95	0.791
Willingness to break prevailing treatment practices to ensure good care.	481	3.91	0.865
Bringing someone else's lack of professionalism into the debate.	474	3.60	0.855

*Statements are abbreviated from the original copyrighted NMCS.

Nurses' socio-demographic factors associated with their self-assessed moral courage

Socio-demographic factors which were statistically significantly associated with nurses' self-assessed moral courage were gender, present work role, ethical knowledge base, additional ethics education and self-study as the means of acquiring the ethical knowledge base, as well as the frequency of situations needing moral courage at work. (Table 7.)

Table 7. Socio-demographic variables and their correlations with dimensions of moral courage based on multivariate analysis of variance (MANOVA) (n = 482)

Socio-demographic variable	Dimension of moral courage			
	<i>Compassion and true presence</i>	<i>Moral responsibility</i>	<i>Moral integrity</i>	<i>Commitment to good care</i>
Gender	F=8.61 p=0.004			
Present workrole			F=3.87 p=0.022	
Ethical knowledge base in health care ethics		F=4.39 p=0.005	F=2.79 p=0.040	F=3.66 p=0.019
Additional ethics education	F=8.67 p=0.003	F=9.30 p=0.002		F=5.48 p=0.02
Self-study	F=9.65 p=0.004		F=8.74 p=0.003	F=5.47 p=0.02
Facing situations that require moral courage		F=6.48 p<0.001		F=3.90 p=0.009
Overall level of moral courage (VAS)	F=104.21 p<0.001	F=118.50 P<0.001	F=197.94 p<0.001	F=28.79 p<0.001

F = Value of the explanatory variable F-test variable in a multivariate analysis of variance
p = p-value of the F-test, only significant p-values at the level $p \leq 0.05$ are indicated in the table

According to the results, female nurses had stronger compassion and true presence than male nurses. Furthermore, the present work role was a statistically significant background factor, since assistant nurse managers had higher moral integrity than staff nurses. There were no statistically significant differences between the other work roles. (Table 7.)

As to ethical knowledge base, nurses who had acquired additional ethics education were more compassionate and truly present, more morally responsible and more committed to good care than nurses who didn't have any additional ethics education (Table 7). Slightly less than a half (44.4%) of nurses had acquired additional knowledge of nursing ethics through some additional ethics education, such as formal education, courses or advanced education. Also, nurses who had studied ethics independently were more compassionate and truly present and had higher moral integrity and commitment to good care. Furthermore, nurses who had faced challenging situations very often were statistically significantly more morally responsible than nurses who had faced challenging situations sometimes or only seldom. (Table 7.) Also previous studies have shown, that encountering ethically challenging situations enables nurses' to identify and reflect on their values which strengthens their moral courage.²⁰

Socio-demographic factors that were not statistically significantly associated with nurses' moral courage were nurses' age, work experience, highest degree, working department and participation in activities related to ethics.

Discussion

This study described nurses' self-assessed level of moral courage and examined its association with their socio-demographic factors. Overall, nurses considered themselves to be morally quite courageous. Ethical knowledge base and encountering situations requiring moral courage were positively associated with nurses' moral courage.

Nurses' level of moral courage

Nurses' fairly high level of moral courage was not a surprising finding, because moral courage is an admired and appreciated attribute and probably everyone would like to consider themselves to be morally courageous.^{43,44} And there is always a risk of response bias in subjective evaluation because a self-assessment instrument allows the response to be adjusted unconsciously to a socially desirable level.⁴⁵ Also, to achieve a reliable assessment, understanding the complex concept of moral courage and behavior²⁸ is essential and that may vary between nurses, needing further investigation.^{14,45,46}

Particularly, nurses' courage focused on the patient's humane and dignified encounter as the center of care, and on honesty as moral integrity. Respect for the patient and defending it was central, nurses dared to commit to confidentiality, honesty and advocacy for the patient. Respect for human dignity is a core ethical principle which guides nurses' action.⁴⁷ The principle includes values such as confidentiality, honesty and the promotion of individuality.⁴⁸ Thus, nurses who have internalized the values and principles of nursing are likely to be committed to them and courageous to act according to them.¹⁴

Previous studies indicate that nurses' moral courage is manifested in a desire to protect patients and defend their rights.^{8,13,17,19} It becomes visible as actions in accordance with one's own values, such as telling the truth^{19,24} and intervening in the shortcomings of the care environment.^{14,17,23,44} The nurse's personal qualities, such as empathy²¹, honesty¹⁹, perseverance^{13,15} and sensitivity to perceive the patient's vulnerability¹¹, have been found to promote moral courage.

The lack of moral courage was associated to interfering with other professionals' behavior, fear of other professionals' opinions and attitudes towards the nurse herself, and resorting to conventionalism in ethical decision-making. Earlier research has shown that nurses' ethical decision-making is conformist, nurses feel themselves insecure and that they are not involved in the decision-making^{49,50} manifesting as moral distress and lack of moral courage.^{14,20,51,52} Furthermore, within the nursing profession, collegiality is an important

value for many. In some situations it can be distorted in such a way that one does not want to question a colleague's actions or ideas.⁵³ Based on previous research, intervening in unethical behavior can be influenced by several factors.^{14,22,23} For example, nurse's own assessment of the severity of harm to the patient, their personal feeling of uselessness²³, or interfering with another person's activities may be perceived as difficult, and remaining silent may be desired to avoid conflicts.^{23,24} Whistle blowing as a form of moral courage can have a number of adverse consequences, such as criticism, bullying or discrimination.⁷ However, it should be noted here that the lowest levels of moral courage did not indicate clear lack of moral courage. For example, nurses' ethical and responsible action during the present global Covid-19 pandemic in taking care of their patients at the same time risking their own health and even life manifests nurses' generally morally courageous action.^{54,55}

Factors related to moral courage

Education in ethics, including both formal and informal learning methods, was one of the strongest factors associated with moral courage, its value in strengthening nurses' moral courage should not be neglected. The outcome affirms the notion that moral courage is a personal quality and a virtue that can be learned and developed.¹⁰ Also previous studies have reported that ethical decision-making and moral courage as a part of it can be taught and learned.^{26,27}

Another important association concerned frequency of facing situations requiring moral courage at work which seemed to increase moral responsibility and commitment to good care. Similar results have been reported also in previous studies.^{18,20,25,26,56} Also, according to Aristotle, virtues must be constantly practiced and developed. An image of a brave person is formed when she repeatedly acts courageously.¹⁰

Teaching moral courage and facing morally challenging situations may be effectively combined in the ethics education using multiple methods in teaching such as simulations and vicarious learning⁵⁷, digital stories²⁶, ethics workshops⁵⁸ and narrative writings⁵⁹. Based on previous research, reflecting on ethical problem situations in the work team is important and promotes learning^{20,25,26,56} and various safe practical exercises and simulation instructions contribute to the development of nursing students' ethical competence.^{18,25,26,42} Model learning is also important for the development of nurses' moral courage.^{12,17,20,23} It is suggested, that ethics education should be eclectic⁶⁰ and continue beyond graduation.⁵⁶

As to associations between moral courage and socio-demographic variables, women appeared to be more compassionate and more genuinely present than men. This finding should be interpreted with caution. Just a minority of participants in this study were male providing too small a sample to be representative of the male gender. Thus, such conclusion that women are generally more compassionate and truly present than men cannot be drawn from this finding. Larger samples and multi-disciplinary approach including psychological research would be needed to examine the differences in characteristics between genders in

more detail. Also, previous studies have indicated that gender does not appear to be a significant background factor to nurses' moral courage.^{12,17,20}

Assistant ward managers were more morally uncompromising than staff nurses. There were no significant differences between the other work roles. Assistant ward managers typically work at the interface between administrative tasks and clinical nursing forcing them to have an insight into the ethical quality of care and taking wider responsibility. Therefore, assistant ward managers may be more accustomed to interfering with another person's actions and to see and raise ethical issues into the debate⁶¹

Nurses' age, work experience, highest degree, working department and participation in activities related to ethics were not related to their self-assessed moral courage level. However, these findings are inconsistent with some previous research findings.²²⁻²⁴

In studies concerning nursing students short work experience has been found to be a debilitating factor in moral courage. Student nurses' have reported a perceived lack of appreciation and sense of not being qualified to attend moral debate in work community, which causes them to remain silent.^{20,22,23} However, nurses' older age has actually been found to be a debilitating factor in willingness to report on inadequate acts of their colleagues and risk their own, usually already well established position in the work community.²⁴

Higher educational level has previously been associated with a more positive attitude towards bringing an ethical problem for discussion in work community despite the risk of negative consequences.²⁴ Also, a higher education level tends to strengthen the position in a work community and may boost persons' self-confidence to act bravely.^{22,23} However, our findings did not confirm these findings and more research is needed.

Interestingly, in this study participation in activities related to ethics was not a significant factor on moral courage although person's ethical activity in form of self-study was associated with moral courage. Whether the finding is a consequence of lack of supply or opportunities in participation in ethical activities, would need further research.

Limitations

A relatively low response rate (34.2 %) limits the generalization of the results. In future survey studies attention should be paid to the rigor of data collection. Furthermore, the data was collected from a single hospital offering tertiary level care, but comprised a representative sample of nurses working in various professionally and ethically demanding nursing care environments. The risk of the social desirability response bias should be acknowledged in relation to self-assessment instruments.⁴⁵

Implications and further research

Education was significantly related to enhancement of nurses' moral courage. Consequently, further research of moral courage from the viewpoint of education is important and it should cover both basic and continuing nursing education. Educational research should focus on evaluation of teaching contents, teaching methods and evaluation itself. Target groups should include nursing students, nurse educators and practicing nurses. Various educational intervention studies and their impact on and efficiency in developing nurses' moral courage at all organizational and educational levels should be considered in addition to measuring the level of moral courage.

Also, nurse leaders' role in enhancement of practicing nurses' moral courage was found important. Nurse leaders' moral courage and its role in good ethical leadership needs exploring including nurse leaders' knowledge base concerning the concept of moral courage, and how courageous they are as leaders and in their role as role models.

Moral courage was also related to nurses' ethical sensitivity to observe situations needing moral courage. Various factors in the process involving the movement from an observation of ethical problem into action needs exploring.²⁸

Measuring nurses' moral courage could be extended also to various nursing environments and other professional groups in health care team, because moral courage manifests itself differently in different environments and care contexts.^{8,11,28,}

Furthermore, ethical decision-making and moral courage as a part of it does not concern only nurses and nursing profession, but all professionals and participants involved in ethical situations. Nurses' ethical decision-making and its relation to nurses' moral courage in the multi-professional health care team should be further studied, since nurses often feel themselves suppressed in these situations and they need moral courage to speak out their opinions in ethical questions.²³ An open and multidisciplinary approach to research in moral courage would be useful bringing in a larger perspective and depth to our understanding of moral courage in nursing and in health care environment in general.

Conclusion

Nurses assessed themselves to be morally quite courageous. Their level of moral courage was related most importantly with multifaceted ethics education, good ethical knowledge base and frequency of encountering situations requiring moral courage. Personal activity and interest in ethical issues as well as ethics education seems to be factors that promote nurses' moral courage. Consequently, attention should be paid to both

basic and continuing ethics education to maintain and develop nurses' moral courage as part of their ethical competence both in theoretical and practice contexts. Future studies should focus on other contextual factors in nursing environment related to moral courage.

Conflict of interest

The Authors declares that there is no conflict of interest.

Funding

This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

References

1. Thompson I, Melia K, Boyd K and Horsburgh D. *Nursing Ethics*. Churchill Livingstone: Elsevier, 2006.
2. Zafarnia N, Abbaszadeh A, Borhani F, et al. Moral competency: meta-competence of nursing care. *Electronic Physician* 2017; 9: 4553–4556.
3. Lexico. Moral Courage. https://www.lexico.com/definition/moral_courage (2020, accessed 7 June 2020).
4. Numminen O, Repo H and Leino-Kilpi H. Moral Courage in Nursing: A Concept Analysis. *Nurs Ethics* 2017; 24: 878–891.
5. Gastmans C. A Fundamental Ethical Approach to Nursing: Some Proposals for Ethics Education. *Nurs Ethics* 2002; 5: 494–507.
6. Leino-Kilpi H. Hoitotyön etiikan perusta. In: Leino-Kilpi H and Välimäki M (eds) *Etiikka hoitotyössä*. 10th ed. Helsinki: WSOY, 2014, pp. 19–28.
7. Pohjanoksa J, Stolt M, Suhonen R, et al. Wrongdoing and whistleblowing in health care. *J Adv Nurs* 2019;75: DOI: <http://dx.doi.org/10.1111/jan.13979>.
8. Kleemola E, Leino-Kilpi H and Numminen O. Care situations demanding moral courage: Content analysis of nurses' experiences. *Nurs Ethics* 2020; 3: 714–725. Epub ahead of print 26 Jan 2020. DOI: 10.1177/0969733019897780.
9. Gallagher A. Moral distress and moral courage in everyday nursing practice. *Online J Issues Nurs* 2011; 2:8.
10. Aristotle: *The Nicomachean ethics* (trans. JAK Thompson). London: Penguin Books, 2004.
11. Thorup C, Rundqvist E, Roberts C, et al. Care as a matter of courage: vulnerability, suffering and ethical formation in nursing care. *Scand J Caring Sci* 2012; 3: 427–435.
12. Black S, Curzio J and Terry L. Failing a student nurse: A new horizon of moral courage. *Nurs Ethics* 2014; 2: 224–238.
13. Dahl BM, Clancy A and Andrews T. The meaning of ethically charged encounters and their possible influence on professional identity in Norwegian public health nursing: a phenomenological hermeneutic study. *Scand J Caring Sci* 2014; 3: 600–608.
14. Ion R, Smith K, Moir J, et al. Accounting for actions and omissions: a discourse analysis of student nurse accounts of responding to instances of poor care. *J Adv Nurs* 2016; 5: 1054–1064.
15. Janzen K & Perry B. Taking action: An exploration of the actions of exemplary oncology nurses when there is a sense of hopelessness and futility perceived by registered nurses at diagnosis, during treatment, and in palliative situations. *Canadian Oncology Nursing Journal* 2015; 25: 179–185.
16. Willassen E, Blomberg AC, von Post I, et al. Student nurses' experiences of undignified caring in perioperative practice – Part II. *Nurs Ethics* 2015; 6: 688–699.
17. Bickhoff L, Levett-Jones T and Sinclair PM. Rocking the boat - nursing students' stories of moral courage: A qualitative descriptive study. *Nurse Educ Today* 2016; 42: 35–40.
18. Nash W, Mixer S and McArthur P. The moral courage of nursing students who complete advance directives with homeless persons. *Nurs Ethics* 2016; 7: 743–753.
19. Tomaschewski-Barlem JG, Lunardi VL, Barlem ELD, et al. How have nurses practiced patient advocacy in the hospital context? – A foucaultian perspective. *Texto & Contexto Enfermagem* 2016; 25: 1–9.

20. Callwood A, Groothuizen J and Alla HT. The “values journey” of nursing and midwifery students selected using multiple mini interviews; year two findings. *J Adv Nurs* 2018; 5: 1139–1149.
21. Ko HK, Tseng HC, Chin CC, et al. Phronesis of nurses: A response to moral distress. *Nurs Ethics* 2020; 1: 67–76.
22. Oelhafen S, Monteverde S and Cignacco E. Exploring moral problems and moral competences in midwifery: A qualitative study. *Nurs Ethics* 2019; 5:1373–1386.
23. Yeh MY, Wu SM and Che HL. Cultural and hierarchical influences: ethical issues faced by Taiwanese nursing students. *Med Educ* 2010; 5: 475–484.
24. Malmedal W, Hammervold R and Saveman BI. To report or not report? Attitudes held by Norwegian nursing home staff on reporting inadequate care carried out by colleagues. *Scand J Public Health* 2009; 37:744–50.
25. Krautscheid L. Embedding Microethical Dilemmas in High-Fidelity Simulation Scenarios: Preparing Nursing Students for Ethical Practice. *J Nurs Educ* 2017; 56: 55–58.
26. LeBlanc R. Digital story telling in social justice nursing education. *Public Health Nurs* 2017; 34: 395–400.
27. DeSimone B. Curriculum Redesign to Build the Moral Courage Values of Accelerated Bachelor’s Degree Nursing Student. *SAGE Open Nursing* 2019; 5: 1–10.
28. Sekerka LE, Bagozzi RP and Charnigo R. Facing Ethical Challenges in the Workplace: Conceptualizing and Measuring Professional Moral Courage. *Journal of Business Ethics* 2009; 89: 565–579.
29. Martinez W, Bell S, Etchegaray J, et al. Measuring moral courage. *Acad Med* 2016; 91: 1431–1438.
30. Corley MC, Elswick RK, Gorman M et al. Development and evaluation of a moral distress scale. *J Adv Nurs* 2001; 33: 250–256.
31. Schaefer R, Zoboli EL and Vieira MM. Psychometric evaluation of the Moral Distress Risk Scale: A methodological study. *Nurs Ethics* 2019; 26: 434–442.
32. Bordignon SS, Lunardi VL, Barlem EL, et al. Development and Validation of a Moral Distress Scale for Nursing Students. *J Nurs Meas* 2020; 28:583–597.
33. Dinndorf-Hogenson G. Perioperative nurses’ perceptions of moral courage. Doctoral Dissertation, 2013, https://sigma.nursingrepository.org/handle/10755/20596_
34. Dinndorf-Hogenson G. Moral courage in practice: implications for patient safety. *J Nurs Regulat* 2015; 6: 10–16.
35. Numminen O, Katajisto J and Leino-Kilpi H. Development and validation of Nurses’ Moral Courage Scale. *Nurs Ethics* 2019; 26: 2438–2445.
36. Numminen O, Konings K, Claerhout R, et al. Validation of the Dutch-language version of Nurses’ Moral Courage Scale. *Nurs Ethics*. Epub ahead of print 11 January 2021. DOI: 10.1177/0969733020981754.36.
37. Badger F and Werrett J. Room for improvement? Reporting response rates and recruitment in nursing research in the past decade. *J Adv Nurs* 2005; 51: 502–510.
38. Iversen HH, Holmboe O and Bjertnaes O. Patient-reported experiences with general practitioners: a randomised study of mail and web-based approaches following a national survey. *BMJ Open* 2020; 10: e036533. DOI: 10.1136/bmjopen-2019-036533.
39. Rolfson O, Salomonsson R, Dahlberg LE, et al. Internet-based follow-up questionnaire for measuring patient-reported outcome after total hip replacement surgery-reliability and response rate. *Value Health* 2011; 14: 316–321.

40. Lang TA and Secic M. *How to Report Statistics in Medicine: Annotated Guidelines for Authors, Editors, and Reviewers*. 2nd edition. USA: American College of Physicians, 2006, p. 56.
41. TENK. Finnish National Board on Research Integrity. Responsible conduct of research and procedures for handling allegations of misconduct in Finland, https://tenk.fi/sites/tenk.fi/files/HTK_ohje_2012.pdf (2012, accessed 18 August 2020).
42. Polit D and Beck C. *Nursing research: generating and assessing evidence for nursing practice*. 8th ed. Philadelphia, PA: Wolters Kluwer; Lippincott Williams & Wilkins.
43. Scarre G. *On Courage*. New York: Routledge, 2010.
44. Seligman M and Chiskszentmihalyi M. Positive Psychology. Introduction. *American Psychologist* 2000; 55: 5–14.
45. Fisher RJ and Katz JE. Social-desirability response bias and the validity of self-reported values. *Psychology and Marketing* 2000; 17: 105–120.
46. Austin V and Gregory P. Evaluating the accuracy of pharmacy students' self-assessment skills. *Am J Pharm Educ* 2007; 71:89.
47. Gallagher A. Dignity and respect for dignity-two key health professional values: implications for nursing practice. *Nurs Ethics* 2004; 11: 587–599.
48. Sosiaali- ja terveystieteiden ministeriö. ETENE-julkaisuja 1: Terveystieteiden yhteinen arvopohja, yhteiset tavoitteet ja periaatteet. 2001.
49. Numminen O and Leino-Kilpi H. Nursing students' ethical decision-making: a review of the literature. *Nurs Educ Today* 2007; 27:796–807.
50. Dierckx de Casterle B, Izumi S, Godfrey N, et al. Nurses' responses to ethical dilemmas in nursing practice: a meta-analysis. *J Adv Nurs* 2008; 63: 540–549.
51. Afsar B, Shahjehan A, Afridi S, et al. How moral efficacy and moral attentiveness moderate the effect of abusive supervision and moral courage? *Economic research-ekonomska istrazivanja* 2019; 32: 3431–3450. Doi: 10.1080/1331677X.2019.1663437.
52. Woods M. Moral distress revisited: the viewpoints and responses of nurses. *Int Nurs Review* 2020; 67: 68–75.
53. Padgett S. Professional collegiality and peer monitoring among nursing staff: an ethnographic study. *Int J Nurs Stud* 2013; 50: 1407–15.
54. Sun N, Wei L, Shi S, et al. A qualitative study on the psychological experience of caregivers of COVID-19 patients. *Am J Infect Control* 2020; 48: 592–598.
55. Sperling D. Ethical dilemmas, perceived risk, and motivation among nurses during the COVID-19 pandemic. *Nurs Ethics*. Epub ahead of print 1 October 2020. DOI: 10.1177/0969733020956376.
56. Escolar-Chua R. Moral sensitivity, moral distress, and moral courage among baccalaureate Filipino nursing students. *Nurs Ethics* 2018; 25: 458–469.
57. Roberts D. Vicarious learning: A review of the literature. *Nurse Educ Pract* 2010; 10:13–16.
58. Beumer CM. Innovative solutions: the effect of a workshop on reducing the experience of moral distress in an intensive care unit setting. *Dimens Crit Care Nurs* 2008; 27: 263–267.
59. Tsuruwaka M and Asahara K. Narrative writing as a strategy for nursing ethics education in Japan. *Int J Med Educ* 2018;9:198–205.
60. Gallagher A. In: Davis A, Tschudin V and de Raeve L (eds) *Essentials of Teaching and Learning in Nursing Ethics: Perspectives and Methods*. 1st ed. New York: Churchill Livingstone Elsevier, 2006: 223-239.

61. Laaksonen H and Ollila S. *Lähijohtamisen perusteet terveydenhuollossa*. 3th ed. Helsinki: Edita, 2017.