

Gender Differences in Moral Distress and Ethical Conflict: A Survey of Indian Veterinary Practitioners

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ABSTRACT

Background: Gender differences are steadily increasing in the moral distress and ethical conflict of practicing veterinarians internationally and little research has been done to identify the root causes of these problems. Gender differences in ethical conflict and resultant moral distress may lead to decreased job satisfaction in one specific gender.

Methods: A mixed-methods sequential explanatory methodology was used to conduct this study on randomly selected Indian veterinary practitioners. The survey was conducted between April 2022 and March 2023.

Result: The study found that only 426 veterinarians participated in the survey, with responses analyzed for demographic characteristics and training of respondents, causes of ethical conflict and moral distress levels and coping methods. The majority of respondents were male and worked in State Services. Female respondents reported less conflict resolution training and less training on self-care. The causes of ethical conflict varied, with some respondents reporting frequent disagreements with animal owners regarding their preferred course of treatment. Coping mechanisms included discussion with colleagues and seniors, seeking professional help and discussing with a partner or friend.

Key words: Ethical conflict, Gender differences, Job satisfaction, Moral distress, Veterinarian.

INTRODUCTION

Veterinarians have a responsibility of representing the silent voices of the healthy animals as well as those nearing the end of their lives (Fine and Mackintosh, 2016). They are regarded as "high achievers" in society, primarily due to the rigorous academic requirements, personality traits of perfectionism, neuroticism and conscientiousness (Allister, 2014). Veterinarians in their line of duty have to daily face complex web of ethical dilemmas, akin to navigating a "moral maze" (Hobson-West and Jutel, 2020). Apart from these stress factors, there is a growing recognition of the stress caused while trying to maintain the ethical aspect of the profession to promote an optimal approach. Instances of this include acknowledging the potential consequences on public health when prescribing antimicrobials excessively in animal production (Littmann and Viens, 2015), assessing the fitness for transport of acutely injured animals (Cullinane et al., 2012), making decisions regarding euthanasia and excessive treatment of companion animals (Yeates and Main, 2011), reporting incidences of animal abuse (Benetato et al., 2011) while caring for their health and welfare.

Ethics in the veterinary profession encompasses principles and beliefs that guide individuals' perceptions of right and wrong, good and bad, fair and unfair and just and unjust as a fundamental aspect of professional behavior (Magalhães-Sant'Ana et al., 2015). Moral distress and ethical conflict are two related but distinct concepts experienced by veterinary practitioners (Lamiani et al., 2017). Moral distress is a phenomenon or a psychological response that arises "when one has knowledge regarding what is the right thing to do, but external barriers or institutional constraints make it nearly impossible to pursue

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the right course of action" leading to a moral conflict, restraint, or uncertainty (Fourie, 2015). It was originally discussed for nursing professionals, but recently the concept of moral distress has evolved and been explored in various healthcare professionals, including veterinary practitioners (Corley, 2002). Veterinarians very often find themselves in situations involving conflicts of interest. For example, there are times where providing best patient care will conflict with what is best for the organization, the patient's owners or other patients (Moses et al., 2018). Ethical conflicts generally occur when there is a clash of values or principles guiding professional conduct (Hilliard et al., 2007). These conflicts in veterinary practitioners can arise from a variety of situations, such as animal welfare concerns, financial

considerations, conflicts of interest, or disagreements with colleagues or clients (Kipperman *et al.*, 2018). Veterinarians frequently have to perform euthanasia, which is known to place significant emotional strain on the practitioners (Hatch *et al.*, 2011).

In this research paper we try to find an answer to the question: Do significant gender differences exist in the moral distress and ethical conflict of practicing veterinarians?

MATERIALS AND METHODS

This study utilized a mixed methods sequential explanatory methodology, where researchers employed both quantitative and qualitative research methods in a sequential manner. In this case, the initial phase involved quantitative data collection through an online survey. The survey was administered to randomly selected Indian veterinary practitioners through an online survey using a secure online google form to explore their moral distress and ethical conflict levels and to determine whether gender differences exist in their mean scores.

Survey design

The survey study was conducted on the World Veterinary Day- 2022 theme of "Strengthening Veterinary Resistance". An online based questionnaire was developed consisting 2 sections and 27 questions and took approximately 20 minutes to complete the questionnaire. In the first section, participants were asked personal details viz. name, gender, nature of their job, experience, training received and support received, etc. Following this, they were asked to answer about moral distress and ethical conflict, coping mechanisms, etc. In the second session, a set of 24 questions was administered, focusing on ethical conflict and moral distress. These questions encompassed topics such as conflicting opinions with pet owners, ethical dilemmas encountered, personal moral conduct in different situations and various coping strategies employed to manage ethical stress. The entire survey questionnaire was contained in an URL link accessible online and completely explaining its purpose. The questionnaire was initially pretested with 10 veterinary professionals to identify any poorly worded or repetitive questions and responses. Additionally, assessment for the questionnaire's flow, relevance and overall acceptability was also done. Following the revisions based on the pretesting feedback, it was then sent to 20 selected respondents for piloting. Minor corrections were made and the questionnaire received from pilot participants was finalized for circulation.

Respondents irrespective of their age, who are currently or were formerly practicing veterinary clinical services in rural as well as urban areas of India, were invited to take part in a 20-minute online questionnaire. An email was sent to a total 1000 randomly selected veterinarians having equal numbers of male and female candidates, consisting of a message regarding the aim and purpose of the survey and a link within the email. No incentives were offered and

respondents were invited to participate on a voluntary basis. Veterinary practitioners who chose to participate clicked on the link in their email that redirected them to Google forms online survey with 27 questions with drop-down menu options for answers and for submitting the responses of the survey they all must have been answered.

Study area

The developed questionnaire was administered through online mode to the veterinary practitioner respondents belonging to India. Participation was open to all geographic locations of India for the period April, 2022 to March 2023. The data was collected through online mode from the participants and results were tabulated into Excel Sheets from the Google Sheet.

Sampling procedure

To meet the inclusion criteria, respondents were required to be a veterinary graduate or higher, animal health specialist and a licensed veterinary practitioner registered with their respective State Councils' or Veterinary Council of India (VCI). The representative sample of diverse Indian veterinary practitioners representing different regions, types of practice and levels of experience were selected through random sampling. Prior to the commencement of the online survey, the study was explained to the participants and the anonymity and confidentiality of the participants and their answers confirmed through a survey disclaimer. A sample size of 1000 individuals (500 of each gender) for the survey was planned. This was done using a random number generator from the list of registered Indian Veterinary Practitioners and a small number of the veterinary practicing staff of the parent institute (LUVAS, Hisar).

Questionnaire design

The landing page of the survey was a participant information statement, providing detailed information about the purpose of the study, the estimated completion time (20 minutes), information about data storage and feedback and assurance of the confidentiality and anonymity of responses. Submission of responses by the respondents indicated consent to participate and stored data was accessible only by the study team.

The objective of this questionnaire survey study was to accomplish the following: examining the occurrence and intensity of moral distress and ethical conflict among veterinary practitioners in India, investigate potential gender disparities in the encounter of moral distress and ethical conflict among veterinary practitioners, ascertain the coping mechanism employed by veterinary practitioners to address moral distress and ethical conflict, evaluate the effectiveness of training and to explore the need for additional educational support regarding their ethical issues.

The questionnaire consisted of closed questions on: the details of the respondents (03 questions); details about the demographics of respondents (04 questions) and questions related to the ethical conflict and moral distress (20 questions). The questions were available to the respondents in English language only and their answers were recorded online.

Data management and statistical analysis

The responses on the questionnaire sheet were transferred onto a Microsoft EXCEL 2010 spreadsheet and made compatible for subsequent analysis using the SPSS 25.0 (IBM Corporation, 2017) software. Five percent of the questionnaires were checked to detect data errors; no errors were observed. The data were classified as responses by 'male' versus 'female' responders. The responses to each question were further coded numerically and their frequencies were calculated and transformed to percent values. Further the data were subjected to Chi-square analysis. The rationale for choosing the Chi-square analysis as the statistical method for testing the null hypothesis of gender differences in work stress for veterinarians was due to the fact that the data were obtained as frequency of responses per class, which were then transformed to percent scale and the test suitable for such data is Chi-square. The 2 x 'N' contingency tables created for each question. The 2 classes pertained to 'male' versus 'female' sex and 'N' corresponded for the type of responses received for each question. Construction of 2 x 'N' contingency tables was completely dependent on the number of variable responses. Chi-square test of significance was assessed at 5% and 1% level of significance. For every test performed, corresponding Chi-square statistics, likelihood ratio and 'P' value were recorded.

RESULTS AND DISCUSSION

In total, 426 respondents completed the survey and pressed the "Submit" button at the end of the survey indicating their consent and their participation. Therefore, responses of 426 respondents were analyzed. In order to submit the responses, it was made mandatory to attempt all the questions. So, all the respondents completed all the questions and kept the cumulative proportions of all the questions to 100%.

Characteristics, demographics and relevant training of respondents

The majority of those who responded were males [(69.01%, n=294) vs. females (30.99%, n=132)] and mainly worked in State Veterinary Services [(62.93%, n=185, males) vs.

(53.03%, n=70, females)]. Male and female respondents who were employed outside of State Veterinary Services listed their nature of job as State University/ICAR Job (At Veterinary Clinical Complex/Farms, etc.) [male (9.52%, n=28) vs. female (8.33%, n=11)], State University/ ICAR Job (Non-Clinical) [male (7.48%, n=22) vs. female (12.12%, n=16], Private practitioner (Large/Small Animals) [male (18.37%, n=54) vs. female (23.48%, n=31)] and Fresh Graduate [male (1.7%, n=5) vs. female (3.03%, n=4)] (Table 1).

When questioned about the extent of instruction or training they had received in their entire career regarding the resolution of disagreements pertaining to the optimal care for their patients, more female respondents [(33.33%, n=44) vs. male respondents (28.57%, n=84)] reported they had received no conflict resolution training; whereas more male respondents [(48.64%, n=143) vs. female respondents (33.33%, n=44)] reported they had received more than 5 hours of training. When questioned about the extent of education or training hours received on the topic of self-care, majority of female respondents [(71.97%, n=95) vs. male respondents (42.52%, n=125)] reported they had received no such training; whereas more male respondents [(30.61%, n=90) vs. female respondents (9.85%, n=13)] reported more than 5 hours of training (Table 2).

Causes of ethical conflict

When inquired about the frequency of disagreements with animal owners regarding your preferred course of treatment, 9.52% (n=28) males reported "never" as compared to 3.79% (n=5) female respondents; and 19.70% (n=26) females reported "often" as compared to 11.56% (n=34) males. In these situations, discussion with colleagues followed by discussion with seniors was a way to sort out conflict. However, significantly (P<0.01) higher percentage of male veterinarians (11.22%, n=33) did nothing as compared to females (1.52%, n=2) to solve the issue; and more females discussed the issue with superior officer [(37.88%, n=50) vs. male respondents (27.89%, n=82)] as well as with their colleagues [(51.52%, n=68) vs. male respondents (47.62%, n=140)] (Table 3).

On being asked about the frequency of requests to perform a task that seems incorrect or inappropriate in the context of their clinical practice, 30.30% (n=40) females reported "never" as compared to 27.55% (n=81) male respondents; and 7.58% (n=10) females reported "often" as compared to 5.44% (n=16) males. Although more female

Table 1: Demographics of the respondents detailing the nature of their job and sex.

Number (%)

Row labels	Female	Male	Total
State Veterinary Services (Field job)	70 (53.03%)	185 (62.93%)	255 (59.86%)
State University/ICAR Job (At Veterinary Clinical Complex/Farms, etc.)	11 (8.33%)	28 (9.52%)	39 (9.15%)
State University/ ICAR Job (Non-Clinical)	16 (12.12%)	22 (7.48%)	38 (8.92%)
Private practitioner (Large/Small Animals)	31 (23.48%)	54 (18.37%)	85 (19.95%)
Fresh Graduate	4 (3.03%)	5 (1.7%)	9 (2.11%)
Total	132 (30.99%)	294 (69.01%)	426 (100%)

Table 2: Survey responses of the respondents about instruction or trainings received.

Number (%)

Row labels	Female	Male	Total	Pearson Chi square	Likelihood ratio	P value
Throughout your	entire career as a v	eterinarian, how n	nany hours of inst	ruction or training hav	ve you received re	garding
	resolution o	f disagreements a	bout the most opt	timal care for patients?	?	
None	44 (33.33%)	84 (28.57%)	128 (30.05%)	9.437	9.513	0.009
1-5 hours	44 (33.33%)	67 (22.79%)	111 (26.06%)			
More than 5 hours	44 (33.33%)	143 (48.64%)	187 (43.9%)			
	What was the nur	mber of instruction	n or training hours	s you received on self-	care?	
None	95 (71.97%)	125 (42.52%)	220 (51.64%)	34.39	36.56	0.00
1-5 hours	24 (18.18%)	79 (26.87%)	103 (24.18%)			
More than 5	13 (9.85%)	90 (30.61%)	103 (24.18%)			

respondents said they "never complied" [(45.45%, n=60) vs. male respondents (39.46%, n=116)] and more male respondents said "rarely complied" [(30.27%, n=89) vs. female respondents (25.00%, n=33)] with these requests. Both male and female respondents stated similar responses to our question about "the authority to refuse these requests" as well as "to refuse to provide a treatment that you feel would not produce desired outcome" (Table 3).

Moral distress levels and coping methods

When faced with such scenarios where improper requests were made, a higher percentage of male respondents [(12.59%, n=37) vs. female respondents (6.06%, n=8)] indicated that they did not take any action (Table 3). A higher percentage of female respondents [(28.03%, n=37) vs. male respondents (16.33%, n=48)] opted to "discuss with partner or friend" or "seek professional help" [(21.21%, n=28) vs. male respondents (16.67%, n=49)]. On the other hand, a greater number of male respondents [(47.62%, n=140) vs. female respondents (38.64%, n=51)] chose to "discuss with a colleague", (P=0.01).

When asked about their conflicting emotions or distress when an animal owner declines to comply with their treatment recommendations, a higher percentage of male respondents [(11.56%, n=34) vs. female respondents (6.82%, n=9)] replied with "Never" or "Rarely" [(25.17%, n=74) vs. female respondents (22.73%, n=30)], (P=0.06). The stress levels escalated when the animal owner disregarded the advice given by the veterinarian. Although the majority of respondents experienced mild to moderate distress, a notable difference was observed between females (17.42%, n=23) and males (6.12%, n=18) in terms of significantly more severe distress (P<0.01). A higher percentage of male respondents [(16.33%, n=48) vs. female respondents (9.09%, n=12)] indicated that they experienced "No stress". In order to cope with these feelings, the results were similar to responses recorded while dealing with the situations about wrong requests. Females coped up with stress mostly by talking with partners or friends, which was significantly higher (P<0.01) as compared to males [40.91% (n=54) vs. 20.07% (n=59)]. Males were more robust to cope up with stress (P<0.01), as 17.69% (n=52) males did nothing as compared to only 5.3% (n=7) females, who did nothing to cope up with stress.

When inquired about the frequency of feeling distressed or anxious about their work, a greater percentage of male respondents reported "Never" [(13.95%, n=41) vs. female respondents (7.58%, n=10)] or "Rarely" [(23.47%, n=69) vs. female respondents (12.12%, n=16)] and more percentage of female respondents reported "Always" [(6.82%, n=9) vs. male respondents (3.06%, n=9)] or "Often" [(27.27%, n=36) vs. male respondents (15.31%, n=45)]. Both male and female respondents stated their responses to our question about "frequency of disagreements with other veterinarians in jointly managing a case" as well as "distress caused by this disagreement". However, female respondents find disagreements with other veterinarians more distressing [(29.55%, n=39) vs. male respondents (22.11%, n=65)] while male respondents find it more distressing [(58.16%, n=171) vs. female respondents (53.03%, n=70)] than when you disagree with an animal owner? (Table 3).

25.51% (n=75) male respondents said their ability to feel empathy or compassion towards their patients had decreased over time as compared to 22.73% (n=30) female respondents; and 11.90% (n=35) male respondents said that their level of compassion towards animal owners had diminished with time as compared to 8.33% (n=11) female respondents. 47.28% (n=139) male respondents conveyed that they perceive themselves as prioritizing the demands of animal owners over their patients as compared to 43.94% (n=58) female respondents; and at the same time "Never" felt conflicted about this stress [(33.67%, n=99) vs. male respondents (28.03%, n=37)] (Table 3).

The aims of this study were two fold, firstly to determine the frequency of moral distress arising from ethical conflict in Indian Veterinarians and secondly to determine the relationship of the frequencies to the demographic variables of gender of veterinary practitioners. This paper reports the results of a large-scale online survey of all registered veterinarians and demonstrates that veterinarians have higher mild to moderate levels of distress on conflict with the animal owner regarding best interest of their patient; and majority of them felt anxious about their work. Hatch *et al.* (2011) reported similar findings in Australian Veterinarians having higher levels of psychological distress including depression, anxiety, stress and burnout. Similarly, veterinary surgeons of the United Kingdom regularly face ethical

Row labels	Female	Male	Total	Pearson Chi square	Likelihood ratio	P value
How frequently have you en	ncountered disagr	eements with anin	nal owners about	your preferred o	ourse of treati	ment?
Never	5 (3.79%)	28 (9.52%)	33 (7.75%)	9.01	9.33	0.061
Rarely	34 (25.76%)	87 (29.59%)	121 (28.4%)			
Sometimes	63 (47.73%)	133 (45.24%)	196 (46.01%)			
Often	26 (19.7%)	34 (11.56%)	60 (14.08%)			
Always	4 (3.03%)	12 (4.08%)	16 (3.76%)			
What action	ons, if any, as me	ntioned below hav	e you taken in suc	ch circumstance	s?	
Nothing	2 (1.52%)	33 (11.22%)	35 (8.22%)	14.99	18.33	0.002
Discussed with colleague	68 (51.52%)	140 (47.62%)	208 (48.83%)			
Discussed with superior officer	50 (37.88%)	82 (27.89%)	132 (30.99%)			
Other (please specify)	12 (9.09%)	39 (13.27%)	51 (11.97%)			
How frequently have you been re	quested to carry o	ut a task in your cli	nical practice that	appears to be in	correct or inap	propriate?
Never	40 (30.30%)	81 (27.55%)	121 (28.4%)	1.57	1.55	0.82
Rarely	43 (32.58%)	97 (32.99%)	140 (32.86%)			
Sometimes	37 (28.03%)	96 (32.65%)	133 (31.22%)			
Often	10 (7.58%)	16 (5.44%)	26 (6.1%)			
Always	2 (1.52%)	4 (1.36%)	6 (1.41%)			
,	, ,	ly have you acced	,	sts?		
Never	60 (45.45%)	116 (39.46%)	176 (41.31%)	3.98	3.87	0.41
Rarely	33 (25%)	89 (30.27%)	122 (28.64%)			
Sometimes	29 (21.97%)	75 (25.51%)	104 (24.41%)			
Often	5 (3.79%)	9 (3.06%)	14 (3.29%)			
Always	5 (3.79%)	5 (1.7%)	10 (2.35%)			
	` ,	ve that you had th	` ,	ise?		
No	22 (16.67%)	53 (18.03%)	75 (17.61%)	0.12	0.12	0.73
Yes	110 (83.33%)	241 (81.97%)	351 (82.39%)			
	,	s to deal with such	, ,	so, what were the	hev?	
Done nothing	8 (6.06%)	37 (12.59%)	45 (10.56%)	12.68	12.74	0.01
Discussed with partner or friend	37 (28.03%)	48 (16.33%)	85 (19.95%)			0.0.
Discussed with colleague	51 (38.64%)	140 (47.62%)	191 (44.84%)			
Sought professional help	28 (21.21%)	49 (16.67%)	77 (18.08%)			
Other	8 (6.06%)	20 (6.8%)	28 (6.57%)			
Have you ever decline	, ,	` ,	,	ot vield the des	ired outcome?	,
Yes	87 (65.91%)	-	275 (64.55%)	-	0.15	0.70
No	45 (34.09%)	106 (36.05%)	151 (35.45%)	0.10	0.10	0.70
How frequently do you	,	` ,	,	nimal owner de	clines to comp	nlv
	-	judgment regardin			omics to comp	,.y
Never	9 (6.82%)	34 (11.56%)	43 (10.09%)	8.94	8.82	0.06
Rarely	30 (22.73%)	74 (25.17%)	104 (24.41%)	0.54	0.02	0.00
Sometimes	63 (47.73%)	143 (48.64%)	206 (48.36%)			
Often	28 (21.21%)	34 (11.56%)	62 (14.55%)			
Always	26 (21.21%) 2 (1.52%)	9 (3.06%)	11 (2.58%)			
•	, ,	emotional distress	, ,	n calledd Aons		
None	12 (9.09%)	48 (16.33%)	60 (14.08%)	15.85	15.07	0.00
Mild distress	59 (44.7%)	133 (45.24%)	192 (45.07%)	10.00	13.07	0.00
Moderate distress	38 (28.79%)	95 (32.31%)	133 (31.22%)			
	,	, ,	, ,			
Severe distress	23 (17.42%)	18 (6.12%)	41 (9.62%)			

Table 3: Continue...

Table 3: Continue						
What str	ategies have you c	hosen to employ i	n order to manage	these emotion	s?	
Done nothing	7 (5.3%)	52 (17.69%)	59 (13.85%)	26.15	27.04	0.00
Talked with partner or friend	54 (40.91%)	59 (20.07%)	113 (26.53%)			
Discussed with colleague	54 (40.91%)	139 (47.28%)	193 (45.31%)			
Sought professional help	11 (8.33%)	27 (9.18%)	38 (8.92%)			
Other	6 (4.55%)	17 (5.78%)	23 (5.4%)			
How frequent	ly have you experie	enced feelings of o	distress or anxiety	related to your	work?	
Never	10 (7.58%)	41 (13.95%)	51 (11.97%)	18.95	19.15	0.00
Rarely	16 (12.12%)	69 (23.47%)	85 (19.95%)			
Sometimes	61 (46.21%)	130 (44.22%)	191 (44.84%)			
Often	36 (27.27%)	45 (15.31%)	81 (19.01%)			
Always	9 (6.82%)	9 (3.06%)	18 (4.23%)			
How frequentl			veterinarians in joir		a case?	
Never	21 (15.91%)	35 (11.9%)	56 (13.15%)	5.22	5.30	0.27
Rarely	56 (42.42%)	103 (35.03%)	159 (37.32%)			
Sometimes	48 (36.36%)	137 (46.6%)	185 (43.43%)			
Often	6 (4.55%)	14 (4.76%)	20 (4.69%)			
Always	1 (0.76%)	5 (1.7%)	6 (1.41%)			
At its	worst, how much		s has this situation	caused you?		
None	33 (25%)	87 (29.59%)	120 (28.17%)	8.15	7.64	0.04
Mild distress	70 (53.03%)	170 (57.82%)	240 (56.34%)			
Moderate distress	26 (19.7%)	36 (12.24%)	62 (14.55%)			
Severe distress	3 (2.27%)	1 (0.34%)	4 (0.94%)			
Do disagreements wit	h fellow veterinaria	ins cause you moi	re or less distress o	compared to w	hen you have	а
	_	reement with an a	nimal owner?			
More distressing	39 (29.55%)	65 (22.11%)	104 (24.41%)	2.74	2.68	0.25
Less distressing	70 (53.03%)	171 (58.16%)	241 (56.57%)			
About the same	23 (17.42%)	58 (19.73%)	81 (19.01%)			
How frequently have you	_			-	our staff rega	rding
Name	•		for a clinical case?	1.47	1.47	0.00
Never	32 (24.24%)	80 (27.21%)	112 (26.29%)	1.47	1.47	0.83
Rarely Sometimes	40 (30.3%) 44 (33.33%)	83 (28.23%)	123 (28.87%)			
	,	94 (31.97%)	138 (32.39%)			
Often	9 (6.82%)	26 (8.84%)	35 (8.22%)			
Always	7 (5.3%)	11 (3.74%)	18 (4.23%)	nal nationts be	و مانسنسنم م	
Do you believe that you		ation of your vete		nai patients na	s alminisnea (over
Yes	30 (22.73%)	75 (25.51%)	105 (24.65%)	1.99	1.98	0.37
Sometimes	44 (33.33%)	111 (37.76%)	155 (36.38%)	1.00	1.50	0.01
No	58 (43.94%)	108 (36.73%)	166 (38.97%)			
Do you feel that your comp	,	,	` ,	duration of you	ır veterinary c	areer?
Yes	11 (8.33%)	35 (11.9%)	46 (10.8%)	1.85	1.90	0.40
Sometimes	48 (36.36%)	114 (38.78%)	162 (38.03%)	1.00	1.50	0.40
No	73 (55.3%)	145 (49.32%)	218 (51.17%)			
Do you experience a sens	` ,	,	` ,	of your anima	l patients at ti	mes?
No	74 (56.06%)	155 (52.72%)	229 (53.76%)	0.41	0.41	0.52
Yes	58 (43.94%)	139 (47.28%)	197 (46.24%)			0.02
	,	,	or thoughts about the	nis situation?		
,	37 (28.03%)	99 (33.67%)	136 (31.92%)	7.06	6.78	0.13
Never		\ / - /	()			2
		72 (24.49%)	98 (23.00%)			
Rarely	26 (19.7%)	72 (24.49%) 94 (31.97%)	98 (23.00%) 139 (32.63%)			
Never Rarely Sometimes Often		72 (24.49%) 94 (31.97%) 21 (7.14%)	98 (23.00%) 139 (32.63%) 39 (9.15%)			

dilemmas and that they find these stressful with implications on their wellbeing (Batchelor and McKeegan, 2012). Similarly, in various studies conducted by Batchelor and Keegan (2012) and Moses et al. (2018), veterinarians have encountered a moral dilemma when they perceive a client's inability or failure to provide care for the animal patient, with euthanasia representing the most extreme example of this conflict. Furthermore, Tannenbaum (1993) also highlighted that veterinarians encounter the fundamental ethical aspect that underlies all interactions between humans and animals on a daily basis. In a study conducted by Kogan et al. (2004), it was observed that female veterinary students possess higher self-expectations compared to their male counterparts. This finding may help explain why female veterinarians face a greater risk of experiencing depression, anxiety, overall stress and burnout. Many women establish excessively high standards of excellence and place undue pressure on themselves to succeed in their careers, which may be linked to increased vulnerability to psychological distress and physical illness (Caltabiano and Caltabiano, 1994 and Phillips-Miller et al. 2001). Moreover, unrealistic academic or professional expectations can contribute to an unbalanced lifestyle, leading to physical and emotional exhaustion, depression and addiction (Firth-Cozens, 1987). For instance, depression can manifest as heightened irritability, diminished concentration, decision-making difficulties and memory impairment (Firth-Cozens, 1987). Several studies among female medical students and physicians have also identified similar gender differences, revealing elevated rates of distress (Frank and Dingle, 1999; Lloyd, 1984). Hsu and Marshall (1987) discovered that female physicians are 1.5 times more likely to experience depression and eight times more likely to suffer from severe depression compared to male physicians.

The results of the survey further revealed a statistically significant gender difference in the mean moral distress scores of participants. In situations when there was conflict of opinion with owners, discussion with colleagues followed by discussion with seniors was a way to sort out conflict. However, a significantly (P<0.01) higher percentage of male veterinary practitioners (11.22%) did nothing as compared to females (1.52%) to solve the issue. In situations, when veterinarians felt something as non-ethical, most of them preferred to discuss the issue with colleagues followed by superior officers. However, females were significantly proactive to discuss (P<0.01) as compared to males. To compound this, it is inferred that males have a false belief of coping well to the situation or a perceived stigma in seeking help from others (Addis and Mahalik, 2003). Likewise, Kogan et al. (2004) discovered that female veterinarians exhibited significantly higher levels of certain attributes like "Effective client relations", "Effective relationships with staff members" and "Relationships with other veterinarians" compared to their male counterparts.

When the animal owner refused advice from the veterinarian, the stress levels increased. Most respondents

were mildly distressed; however, significantly severe distress (P<0.01) was observed for females as compared to males. The female veterinary surgeons of the United Kingdom also reported significantly higher stress ratings than the male veterinary surgeons (Batchelor and McKeegan, 2012). The research conducted by Kogan et al. (2004) and McLennan et al. (2005) had confirmed the presence of a high-stress environment among veterinary students, with implications that 30% of the students in their sample were at a high risk of experiencing burnout. Similarly, Batchelor and McKeegan (2012) reported that this scenario is a common and stressful dilemma faced by practicing veterinarians. Similarly, in a study on small animal veterinarians of the USA, the female respondents were more likely to find ethical dilemmas stressful (Kipperman et al., 2018). Subjectively, the higher stress level in female veterinarians could also be because of an additional factor of perceiving their psychological workload to be higher than that of their male counterparts (Pohl et al., 2022). Females coped up with stress mostly by talking with partners or friends, which was significantly higher (P<0.01) as compared to males. Nevertheless, veterinarians have shown an innate ability to navigate through ethical dilemmas, as observed in the research conducted by Knesl et al. (2017). Veterinary students were found to approach hypothetical ethical dilemmas with the aim of achieving a fair outcome for all parties involved and exhibited a carecentered approach, displaying empathy towards both the companion animal and the human caregiver (Quinn et al., 2012). The distress and anxious behavior of respondents overlap and are related, with major distressing episodes of respondents frequently also involving their anxious behavior. Perseverative cognition of these stressful events in their daily life very often leads to anxiety (Brosschot et al., 2010). This necessitates, whenever and wherever they occur concurrently, interventions and counselling at the personal level or even at the workplace; and increased provision of training and support (Batchelor and McKeegan, 2012).

Gender differences in how individuals experience moral distress and ethical conflict have extensively been studied in various healthcare professions, including medicine and nursing. Research has shown that women are more likely than men to experience moral distress and ethical conflict (Fox-Robichaud et al., 2019 and Hamric et al., 2012). Women may also experience moral distress more intensely and for a longer duration than men (Hamric et al., 2012). A re-analysis of meta-analytic studies revealed that when faced with conflicting decisions between utilitarian and deontological principles, men tend to exhibit a stronger preference for utilitarian judgments compared to women (Friesdorf et al., 2015). Additionally, Austin et al. (2017) proposed that variations in moral distress could be attributed to factors such as differences in values, communication styles and coping mechanisms between men and women. Furthermore, women may be more likely to seek support and engage in discussions about moral distress and ethical conflict compared to men (Hamric et al., 2012). This may

be due to social norms and expectations around gender roles and communication. Similarly, research suggests that women may be more likely to experience ethical conflict in the workplace, particularly in male-dominated fields where their values and perspectives may be marginalized (DeCastro et al., 2014).

CONCLUSION

The results showed that both male and female respondents experienced moral distress about their work, but there were differences in the frequency and severity of distress. It is also important to note that gender is a complex and multifaceted construct and such gender differences should be interpreted with caution. Coping mechanisms also differed between genders, with females more likely to seek support from partners or friends. The findings emphasize the importance of providing adequate training and support to veterinary practitioners to navigate ethical dilemmas and promote well-being in the profession. As most respondents, across gender, have little to no training on resolving difference of opinion or selfcare, educational programs and resources to support veterinary practitioners in ethical decision-making and coping with moral distress need to be developed. Providing curriculum and training resources to both male and female veterinarians can assist them in effectively managing the emotional distress that is likely to arise in the course of their daily professional activities. Such changes would result in improved mental health, increased job engagement and work satisfaction of veterinarians, eventually contributing to the overall improvement of animal welfare.

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Conflict of interest

All authors declared that there is no conflict of interest.

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