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Abstract
Retaining vets in farm practice has been identified as a key strategy to maintain an adequately trained and experienced workforce to provide animal health services for livestock enterprises and government. This qualitative study aimed to explore vets’ experiences of UK farm animal practice and their perceptions of the factors that influenced their career choices. Thematic analysis of free-text survey responses from 187 vets working in farm practice and 141 who had given up farm work identified four main themes: affect (experiences of feeling or emotions), personal life, the job and the bigger picture. Those who stayed in farm practice described satisfaction with their career and enjoyment of physical, outdoor work in rural communities. Choosing to give up farm work was influenced by both personal and professional circumstances, and related frequently to management issues in practice. Veterinary businesses also face challenges from the broader agricultural and veterinary sectors which affect their ability to support and retain vets. The findings presented build on previous quantitative analysis of factors associated with retention, and demonstrate the complexity of individual vets’ career choices.
Introduction

Workforce issues in rural veterinary practice are a major concern in many countries, including the UK. Retaining vets in farm animal practice has been identified as a key strategy to address this issue and maintain an adequate population of trained and experienced vets to provide health services to livestock enterprises and government (Lowe 2009; Ruston and others 2016). A survey conducted in 2013 to identify the factors associated with retention (Adam, Baillie, & Rushton, 2015) demonstrated that factors linked to remaining in farm practice included receiving staff appraisals; coming from a family with a commercial farm; spending more working time with farm animals and being on call with an experienced vet in the first job after graduation. Factors associated with leaving farm practice were having accommodation provided by the practice and an increasing number of years since graduation. However, these results were limited to the closed questions that were included in the questionnaire. For this reason, open-ended questions were also included to provide a more detailed insight into vets’ experiences of working in UK farm practices and their related career choices (Boynton and Greenhalgh, 2004). The analysis presented in this paper is intended to build on the earlier quantitative findings, with the aim of exploring the perceptions of farm animal practitioners of the factors that influenced their career decisions. The findings are likely to be of interest to the veterinary profession as a whole, as part of the evidence base to inform the ongoing discussion around veterinary workforce issues. They may also be of interest to employers with concerns about staff retention in farm practice, and to veterinary students considering a career as farm vets.

The terms “farm practice” or “farm work” are used here to refer to working in either mixed or farm-only practice. At the risk of echoing the ongoing Brexit discussions at the time of writing, but for the sake of clarity and brevity, vets who were working in farm practice when they responded to the survey are referred to as “stayers” and those who had given up farm work are referred to as “leavers”.

Methods

Qualitative research has been used to address a range of important issues in the livestock veterinary sector, including challenges facing the profession (Ruston and others 2016), decision making in disease outbreaks (Christley and others 2013) and communication between vets and clients (Bard and others 2017). It is a flexible and robust approach to addressing complex, human-orientated research questions, based in the perspective of reality as a social construct. Open-ended questions are a common feature of questionnaires and give respondents the opportunity to provide additional information, but these responses are frequently not analysed or included in presentations of survey results (O’Cathain and Thomas 2004; Rich and others 2013). They are, however, a rich and valuable source of data, particularly when used to support and enhance the results from the closed questions. There are a range of theoretical frameworks around job retention (Ramlall 2004; Das and Baruah 2013) but none that relate specifically to the veterinary profession, with its unique challenges and rewards. An inductive, data-driven approach to coding and analysis was therefore used in order to identify the main themes around retaining vets in farm animal practice.

Data collection

Data were collected through an online survey on veterinary retention in UK farm animal practice. The details of the survey instrument and sampling approach are described in (Adam and others 2015) and were approved by the ethics review committee of the Royal Veterinary College. At the end of the questionnaire, the vets who had remained in farm practice were asked “Please describe briefly why you have chosen to continue with farm animal work.” Survey respondents who were no
longer working with farm animals were asked “Please describe briefly why you chose to give up farm animal work.” These questions aimed to capture vets’ perceived reasons for their decision to remain in or leave farm practice. In addition, stayers were asked “If you could change anything about farm animal work, what would it be?” in order to explore their perceptions of negative aspects of the job and identify constructive ideas to improve retention. Leavers were asked “What, if anything, would have encouraged you to continue with farm work?” to identify factors that may contribute to retention. These additional questions were intended to stimulate reflection on both sides of their career choices, in order to capture the full complexity of the decisions involved.

Data analysis
The free text responses were analysed thematically to identify patterns, or themes, which occur within the data (Joffe and Yardley 2004): in this case, the reasons behind vets’ career decisions in relation to farm animal practice, as described by the vets themselves. It is a flexible approach to qualitative analysis which can incorporate both theory-driven and data-driven codes (Braun and Clarke 2006). The coding was predominantly data-driven, or inductive, in that the themes were mainly developed from the data rather than the researcher’s knowledge of the subject or underlying theory. All coding was carried out manually using QDA Miner Lite software (v2.0.5, Provalis Research, Montreal, Quebec, Canada). The process of analysis of the responses to each question began with data familiarisation while reading through the responses. Primary coding was carried out to identify the reasons behind the respondents’ career decisions. Secondary coding involved identifying patterns, or themes, within the primary codes, which were then reapplied to the data to check for validity. This process was repeated as necessary until the researcher was satisfied that the key themes had been identified. Initially, the responses to each question were analysed separately, but common themes were identified across the dataset as a whole. Coding was conducted by the first author, with support from the second and third author. The coding framework was refined and finalised through group discussions with farm animal clinicians and social scientists.

Results
A total of 380 useable responses to the survey were received from 231 stayers, consisting of 187 responses to why they stayed and 173 responses to what they would change, and 149 leavers, comprising 141 responses to why they left and 130 responses on what would have encouraged them to stay. Responses relating to negative experiences came from 42 stayers and 40 leavers. Four common, overarching themes were identified: affect, personal life, job and bigger picture. Each theme and the associated sub-themes (see Figure 1) are presented in greater detail below, with a particular focus on the tensions identified around individuals’ decisions to stay in or leave farm practice.

[INSERT FIGURE 1: Coding tree]

Due to the large sample size, the frequencies with which the main themes occurred within the coding of the responses to each of the four survey questions are presented in Figure 2. This is intended to provide a descriptive overview of the occurrence of the main themes within the codes; the absolute values of the frequencies are not relevant to the analysis. The “job” theme occurred most frequently throughout the dataset, and the “affect” theme occurred more frequently in questions relating to the choice to remain in farm practice than to leave.

[INSERT FIGURE 2: Code frequency]
Affect
The word “affect” is used in psychology to describe people’s experiences of feelings or emotions, and respondents described their emotional responses towards farm practice as an influence on their career decisions. These feelings were predominantly positive among stayers, including enjoyment, satisfaction, and even love for their work. Leavers described negative emotions such as dissatisfaction, boredom and frustration. In general, the feelings described were linked to particular extrinsic aspects of the job, and these contributing factors are explored across the other three themes identified. However, many of stayers stated simply that “I enjoy it” or “I love it”, indicating an intrinsic sense of satisfaction with their work.

The respondents’ perceptions of their competence in farm animal practice was a recurring sub-theme relating to affect. Confidence in their abilities supported stayers’ sense of satisfaction, while many of leavers felt that they were not good enough at farm work. Aptitude, education, further training, support and experience all influenced respondent’s perceived competence. Their perceived ability to make a difference also contributed to respondents’ sense of competence and job satisfaction. Stayers felt that they were able to have a positive impact on UK livestock production by helping farmers to build and maintain a successful business, as well as making a broader contribution to animal welfare, the sustainability of British agriculture and the production of safe food. Leavers felt that their work didn’t make a difference, or even had a negative impact on animal health and welfare.

“It feel that I can make a difference with regard to animal health and welfare, and help clients’ ventures be as successful as possible” (Stayer)

“It’s a real job, putting food on plates and making a real difference to clients’ livelihoods.” (Stayer)

Personal life
This theme encompasses the compatibility of respondents’ life outside work with a career in farm practice. The terms “lifestyle” and “work-life balance” were used frequently, emphasising the connections between respondents’ working and personal lives. Some stayers described achieving – or aiming to achieve – a work-life balance that worked for them, but many leavers had found this unattainable in farm practice. Stayers valued highly the opportunity to be part of and contribute to their rural community through their role. A background in farming or an earlier interest in agriculture was described by several stayers, and was often linked to their initial motivation to become farm vets, supporting the association between a farming background and retention identified in the quantitative results. Conversely, one respondent who had left farm work described feeling uncomfortable with their identity as the vet in a rural community, and another described a sense of isolation in their rural location, despite growing up in a similar environment.

“Live in a rural area and like to be a part of the local community, agriculture is central to this way of life.” (Stayer)

“In a rural community I found it hard to be identified as the vet when I don't identify strongly with it, and began to feel trapped.” (Leaver)

Family circumstances were described mainly by leavers. Some respondents had given up, or felt that they would have to give up, farm work when they started a family, due to a lack of support from employers in balancing work and family commitments, and a perceived incompatibility of farm practice with part-time or flexible working. However, one leaver felt that they may have stayed in
farm practice if they had had a family and been more settled. Other personal situations such as relationship breakdown or relocating for a partner’s career had also led some leavers to a move away from farm work. Leavers in relationships with other vets described the difficulty of balancing two out-of-hours rots with family life.

Health was also a recurring sub-theme among the leavers’ responses. Farm work had affected some respondents’ physical health, such as injuries from animals or car accidents, with back injuries given as the reason for two respondents leaving farm practice. Several leavers had also experienced mental health issues including depression, stress and burnout as a result of their work. The increasing difficulty of performing the physical work required in farm practice with increasing age, or doubts about future capability, was a concern.

The job
The influence of the nature of the job on retention reflected both intrinsic aspects of the work itself, such as the working environment on farms and the tasks carried out by farm vets, and employment conditions such as pay, working hours and staff management.

“Love the farm vet profession, but the farm vet jobs for employees are shit.” (Stayer)

The working environment was mentioned frequently by both stayers and leavers. Cold, wet, dirty and sometimes dangerous working conditions had contributed to leavers’ decisions and were identified as challenges by stayers. Poor handling facilities and organisation on farms was widely cited by leavers and identified as an area for desired change by those who stayed, although it was acknowledged that financial limitations on farms imposed constraints. Despite this, many stayers gained a sense of satisfaction from the physical nature of the job, working outdoors and working with animals, particularly cattle.

“Love being outdoors, seeing the countryside.” (Stayer)

“I hated the work, the people, the hours, the facilities, the poor directions, the awful back roads, the dirty yards, the economics and the pressure. Oh yes and the shit.” (Leaver)

The services provided to farmers provoked diverse responses across the two groups. The vets who had stayed in farm work were generally positive about the shift towards a more preventative, herd-level approach and wanted to see a further move in this direction in the future. However, those who left farm work often felt that the lack of opportunity to use their clinical skills to treat individual animals was not what they wanted from their career, prompting a move into other areas such as companion animal work. Opinions about bovine tuberculosis (bTB/TB) testing were universally negative: both stayers and leavers disliked carrying out testing and many wished to see it outsourced to technicians in the future.

“No TB testing. Least favourite part of the job that is also the most dangerous, and the most likely to get me struck off.” (Stayer)

Mixed practice, as opposed to purely farm practice, offered some additional challenges. In practices with few farm clients where much of the routine farm work was done by senior vets, a lack of exposure to farm work and negative out-of-hours experiences affected some leavers’ confidence. Mixed practice may also be seen by new graduates as a way of keeping their career options open, even if they don’t plan a long-term career in farm practice. Some stayers appreciated the variety of the role and the demand for experienced mixed vets, while leavers found it hard to balance the needs of farmers and pet owners. One leaver described their ethical discomfort with the differing welfare norms for farm and companion animals:
“On a personal level I found the division between large and small animal work grew so much it was hard to rationalise e.g. two types of analgesia plus anaesthesia for a 5-month cat castrate vs nothing for an 18-month old bullock.” (Leaver)

Good relationships with clients were one of the main sources of job satisfaction for stayers. This appeared to be linked to both the ability to have a positive impact for clients and their animals, and the satisfaction that vets derived from being an important part of an agricultural community. For both stayers and leavers, difficult clients such as farmers who don’t listen to advice or have unrealistic expectations of the service their vet can provide, were also cited as a negative aspect of the job.

“You build close relationships with farm clients who value you as a person as well as a professional.” (Stayer)

Out-of-hours work was almost universally felt to be a negative aspect of farm practice across both groups. However, one leaver mentioned a lack of out-of-hours work as contributing to their decision due to lack of confidence in dealing with emergencies. Particularly among the stayers, there was an acknowledgement that out-of-hours work was an unavoidable aspect of the job, but that management practices such as time off in lieu would help to make it more acceptable.

“1 in 2 rota, up all night calving cows, all weekend from Friday morning through to Tuesday evening at 7pm (routinely did Monday night as night of week on call) was just ridiculous.” (Leaver)

“Less/no on call (but someone has to do it!) So not possible on a universal basis.” (Stayer)

Employment conditions such as poor pay and long, antisocial working hours were given as the reason for their decision by many leavers. Many stayers described similar circumstances as desired areas for change but had not altered their career path as a result. Issues with staff management were described mainly by leavers, such as a sense of not feeling appreciated, or even bullying from employers. A lack of flexibility or understanding of employees facing challenging personal circumstances was also described. Opportunities for professional growth and career progression were important to employees – some stayers were motivated by the prospect of partnership, while some leavers saw that as the only option open to them and chose to pursue a different path as a result.

Support in the transition into practice after graduation was identified as an important factor for retention by many of the respondents. Several leavers and employers felt that better training at university would also help retention in farm practice. However, some employers reported that new graduates’ expectations of support in practice were unrealistic. One employer described the importance of broader life skills and experience:

“A farm is a lonely place for someone who has had no life experience of dealing with people, every student should work as a barman before qualifying!” (Stayer)

Several respondents framed their decisions in terms of the positive (for leavers) or negative (for stayers) aspects of alternative areas of veterinary work, including small animal practice, equine practice, research and industry. Only one respondent reporting having left the veterinary profession entirely, reflecting the difficulty of accessing this group. Stayers described their dissatisfaction with aspects of companion animal practice, such as the more emotionally and less economically driven approach of pet owners. Leavers described a greater interest or stronger skills in other areas, or found that other career paths were more compatible with their personal life.
“Don’t like horse owners, don’t like dog muck.” (Stayer)

“The thought of being stuck inside the clinic all day fills me with horror.” (Stayer)

“I swapped over to the dark side and am a very happy, satisfied, non-stinky smallies vet.” (Leaver)

The bigger picture

The fourth and final theme identified related to factors influencing retention beyond the personal and professional sphere of the individual vet. The decision to continue with or give up farm work was not always personal, but sometimes driven by business decisions at a practice level. Several of those who stayed stated that they did farm work as it was an important part of their mixed practice, while some leavers had left due to their employer or their business giving up farm work as it was no longer financially viable for the business to continue to provide farm animal services. Difficulties with recruiting and retaining farm vets also contributed to practices giving up farm work.

“Farm animal turnover was only 8% of our total turnover and we were putting more of our resources into it than this so it was financially unviable. Coupled with inability to recruit good quality experienced farm animal vets.” (Leaver)

Broader social, political and economic factors within the livestock sector, such as the decline in the number of farms and livestock, are ongoing challenges, and some leavers stated that they could not see a future for farm work in light of these changes. The financial constraints on many farmers are perceived by the respondents to reduce demand for veterinary services and contribute to the practical problems identified in other themes, such as unsafe handling facilities and vets’ frustrations at being unable to provide optimal treatment. Major disease outbreaks had affected some vets severely and left them disillusioned with their career path. These crises also impacted on the younger generation of vets involved – one leaver had had minimal support in their first job while the senior vets were dealing with the 2001 foot and mouth disease outbreak. Several respondents commented negatively on the effectiveness of animal health policy, particularly in relation to TB, and felt that government needed to play a stronger role in leading disease control and promoting the role of the farm vet.

“TB testing - it is a political nightmare which is getting worse” (Stayer)

“I wish there was an organised farm animal health service using private vets to do proper disease control work. (That would help to get rid of bTB much better than shooting badgers!)” (Stayer)

Discussion

The richness and depth of data from open survey questions is more limited than data obtained from interviews or focus groups (LaDonna and others 2018). It does, however, incorporate a greater breadth of experience from a wider range of respondents. The findings presented in this paper should not be interpreted as stand-alone insights, but as providing direction for further qualitative research and enhancing the results of the earlier quantitative analysis of the closed survey questions (Adam and others 2015). It should be noted that the data were collected in 2013, and for many of the leavers, relate to their experience of farm work years or even decades earlier.

The “affect” theme provided an insight into the respondents’ emotional responses to their work and career choices, with respondents’ perceptions of their competence in farm work identified as a sub-theme. The employment factors that were most strongly associated with retention from the results
of the quantitative analysis (staff appraisals and being on call with an experienced vet) appear likely to reflect a supportive working environment. Retention was also linked to spending a higher proportion of time on farm work, which could help vets to feel more confident in their abilities. More tangible issues relating to the “job” theme, such as salary, working hours and challenging working environments on farms, were not found to be strong predictors of retention from the quantitative analysis and were described by both stayers and leavers in the free-text responses. These factors are cited as sources of dissatisfaction, but do not appear to be the main issues that influenced respondents’ career decisions.

Within the “personal life” theme, being part of a farming community and enjoying a rural lifestyle was found to contribute to stayers’ decision to remain in farm practice. Coming from a farming background was a strong quantitative predictor of retention, and it may be that respondents who grew up on farms are more comfortable with this way of life. Respondents’ concerns about declining health and aging from the “health” subtheme could explain the negative association identified between retention and the number of years since graduation.

The “bigger picture” theme demonstrates the influence of broader factors within the veterinary and agricultural sectors on retention. These issues were not identified from the quantitative analysis, as the closed survey questions focussed on individuals’ experiences and career choices. The pressures on rural veterinary businesses as a result of ongoing changes in the veterinary and agricultural sectors (Adam and others 2014; Ruston and others 2016) appear to contribute to some of the practical challenges faced by the respondents and contributed to leavers’ decisions to pursue a different career path.

Conclusions
Farm vet retention is a complex issue that needs to be addressed at multiple levels, from individual vets’ wellbeing to national animal health policy. Employment factors appeared to have the strongest influence on retention, suggesting that management interventions in practices may be a practical way forward. The findings indicate the importance of more intangible, human-focussed employment issues within practices, such as the organisational culture and relationships with clients. Supporting employees to integrate into the local farming community may be a practical strategy for employers. The concerns raised by respondents about the economic viability of private farm practice in some geographical areas, and the desire for more public support for animal health services, also suggest that these broader challenges have an influence on workforce shortages.

Farm practice isn’t for everyone and remains a minority activity within the profession – the 2014 RCVS Survey of the Profession showed that only 3.7% of vets work in farm-only practice and 15.8% in mixed practice (Buzzeo and others 2014). However, the stayers’ responses demonstrate that farm practice can provide an enjoyable, fulfilling career and lifestyle, given the right circumstances. The question remains: how can farm animal veterinary practices meet the needs of their staff and their clients? Current discussions and recommendations around workforce shortages tend to focus on education and recruitment, rather than retention (Waters 2018). Some practices have taken a proactive approach to addressing retention and recruitment by considering generational differences and the needs of their employees and implementing innovative approaches to staff management (Allcock 2016). These strategies are feasible in large, farm-only practices in areas of high livestock density, but may be impractical in smaller, mixed practices in more remote areas. Further qualitative research is required to gain a more detailed understanding of how employers can retain staff successfully in a changing business landscape and employees’ perceptions of what is required for a
fulfilling and sustainable career as a farm vet, in order to develop constructive, evidence-based solutions.

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