A career in veterinary surgery can be demanding. Although the potential exists for substantial financial compensation, results of a recent survey of ACVS diplomates indicate that surgeons generally work more (in some situations, substantially more) than a traditional 40-hour work week, spend a mean of 1 to 2 weeks on-call per month, and may also be subject to additional institutional expectations for research, teaching, and public speaking. These demands and others can make it challenging to find a balance between one’s professional career and one’s responsibilities outside of work. Achieving such balance may be even more challenging for professionals who wish to have children and who must consider financial implications, timing of childbirth and family leave, and division of labor at home.

In the United States, women with a master’s, PhD, or other postgraduate degree are significantly less likely to have children than are those without such advanced degrees.2–5 The mean age when American women begin having children is approximately 26 years,6 which coincides with the most active years of professional training (veterinary school, internship, and residency) for most veterinary surgeons.7 However, older age in women is associated with decreased fertility and increased complications during pregnancy,8–11 and female surgical professionals specifically have lower fertility rates and higher pregnancy complication rates than the general population.5,12–14 In a dual-income household, these issues are of considerable concern to both income earners.

In many ways, the social changes triggered by the feminist movement of the 1960s and 70s are largely incomplete, as evidenced by the lingering income and advancement gap between men and women in various professional realms.15–17 Ample data demonstrate underrepresentation of women in certain surgical subspecialties in human medicine.16,18,19 In a study in which women who left their surgical training program were interviewed, many responded that

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**The intersection of personal and professional lives for male and female diplomates of the American College of Veterinary Surgeons in 2015**

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**OBJECTIVE**

To characterize objective and subjective elements of the personal lives of American College of Veterinary Surgeons (ACVS) diplomates and identify elements of personal life associated with professional life or career success.

**SAMPLE**

836 ACVS diplomates.

**PROCEDURES**

An 81-item questionnaire was sent to 1,450 diplomates in 2015 via email and conducted by means of an online platform. Responses were analyzed to summarize trends and identify associations among selected variables.

**RESULTS**

Men were more likely than women to be married or in a domestic partnership (88% vs 68%, respectively) and to have children (77% vs 47%). Among women but not men, respondents in large animal practice were less likely than were those in small animal practice to be represented in these categories. Women had children later in their career than did men and indicated that their stage of training played an important role in family planning. Respondents with children worked significantly fewer hours than did those without children, with a greater reduction in hours for women versus men (6.0 vs 3.1 hours, respectively). Women were more likely to require external childcare services than were men. Women were more likely to report that having children had negatively impacted their professional lives. No negative associations between measures of professional success (eg, advancement or personal income) and parenthood were identified.

**CONCLUSIONS AND CLINICAL RELEVANCE**

Family demographics differed between male and female ACVS diplomates, yet no objective impact on career success was identified. Work-life balance may play an important role in recruitment, retention, and job satisfaction of veterinary surgeons. (J Am Vet Med Assoc 2019;255:1283–1290)

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**ABBREVIATIONS**

ACVS American College of Veterinary Surgeons
it was too difficult to balance the clinical workload with starting a family. Furthermore, despite the legislative and societal changes of the past 5 decades, women are still more likely than men to serve as primary caregiver for children, even when they are also the primary income earner for the family.\textsuperscript{20–22}

The reciprocal effects of pursuing a career as a veterinary surgeon and maintaining a rich personal life, particularly as it relates to family, have not previously been explored to our knowledge. The purpose of the study reported here was to examine the interface between career and family life in veterinary surgery, focusing on relationship status, family structure, timing and number of children, and other factors likely to affect work-life balance among ACVS diplomates with and without children. Another objective was to investigate whether having children had an objective or perceived impact on career success and, conversely, whether a career in veterinary surgery had an objective or perceived impact on family life. We believed the findings would be informative for veterinary students considering surgical specialization, particularly those who desire to have or raise children. We also anticipated such data would be useful for academic institutions and private specialty hospitals wishing to create an environment that is more conducive to successful integration of career and family life.

Materials and Methods

Study population

The study population comprised all ACVS diplomates who were in good standing as of February 2015 and for whom email addresses could be obtained from the ACVS diplomate directory, via publicly accessible websites (ie, websites for practices or universities), or through personal contact (n = 1,450). The Institutional Review Board at the University of Wisconsin-Madison waived formal review of the protocol owing to the nature of the study in accordance with federal regulation 45 CFR 46.102(d).

Survey

An 81-item questionnaire was designed to elicit objective data about the respondent’s demographics, professional information, compensation, and personal and family information. Details of the survey content and method of administration are described elsewhere.\textsuperscript{1} Relevant to the present study, respondents were asked to share subjective information about their perceptions of their own career advancement, factors impacting their sense of career fulfillment, and the perceived effects of gender and family life on career success and vice versa. Both objective data (eg, marital status, children, child-care arrangements, and age at first child) and subjective data (perceptions, personal experiences, and professional or personal decision-making) were used.

Statistical analysis

Statistical analysis was performed by use of statistical software.\textsuperscript{4} Response counts and percentages (for nonmissing responses) were calculated. For responses involving numeric data categories (eg, age or number of hours worked per week), category midpoints were used and treated as continuous values for analysis. For comparisons involving categorical responses, the $\chi^2$ test, Cochran-Mantel-Haenszel test for adjustment by a single categorical covariate, or logistic regression for adjustment by single continuous covariates or multiple covariates was used. For comparisons involving numeric responses (including category midpoints for numeric data categories), linear regression models were used. For analyses involving how much time respondents with children took off from work for parental leave, if a respondent reported $> 1$ instance of parental leave owing to multiple children, the maximum total time taken for $1$ leave period was used for analysis.

Smoothed estimates of the percentages of respondents having children as a function of the year when diplomate status was achieved (ie, diplomate year) were fit with a generalized linear (logistic) model in which a B-spline basis was used for diplomate year and gender was entered as a main effect; separate models were fit for $\geq 1$ and $\geq 2$ children. For personal income, for which the maximum possible response was $\$300,000$ (resulting in right censoring of responses), regression models with adjustments for covariates were fit by means of parametric survival analysis with a Weibull distribution assumption. Single imputation of covariates (including medians for numeric values and medians of category midpoints for numeric data categories) was used when respondents were missing values for numeric variables. Values of $P < 0.05$ were considered significant for all analyses.

Results

Respondents

Of the 1,450 ACVS diplomates invited to participate, 836 (58%) completed the survey via the online platform. Personal and professional demographics of these respondents are reported elsewhere\textsuperscript{1} and were considered representative of the target population.

Marital status and spousal information

Overall, 79% (621/783) of respondents reported that they were married or in a domestic partnership at the time of the survey, 14% (107/783) were single, 5% (43/783) were divorced, 1% (8/783) were widowed, and $< 1\%$ (4/783) were separated. Significant ($P < 0.001$, after adjustment for age) differences were identified in relationship status by gender, with those who identified as male more likely than those who identified as female to be married or in a domestic partnership (88% [365/416] vs 68% [200/294], respectively) and women more likely than men to be single and never previously married (24% [71/294] vs 6% [27/416]). Men were significantly ($P = 0.002$) more likely than women to report that their spouse or partner was also a veterinarian (45% [170/382] vs 35% [76/217], respectively). The proportion of men
who were (ever) married or in a domestic partnership did not differ significantly \((P = 0.87)\) between those practicing large animal (including equine) surgery versus small animal surgery \((94\% [136/145] \text{ and } 93\% [252/270], \text{ respectively})\); however, women in small animal surgery were significantly \((P = 0.003)\) more likely to be or have been married or in a domestic partnership than were women in large animal surgery \((81\% [156/192] \text{ vs } 66\% [67/102]).\) There were no differences in the prevalence of marriage or domestic partnerships between respondents in academia and those in private practice for either gender (Table 1).

**Number and timing of children**

Overall, 65% \((510/781)\) of respondents reported having children, with a significantly \((P < 0.001)\) higher prevalence of parenthood among men versus women \((77\% [320/418] \text{ vs } 47\% [136/291], \text{ respectively}; \text{ Figure 1}).\) This difference remained significant after adjustment for age. In particular, among respondents \(\geq 36\) years of age, 77% \((287/371)\) of men had children, compared with 52\% \((125/242)\) of women. Even after adjustment for relationship status, fewer women \(\geq 36\) years of age who identified themselves as not single had children than did men of that same demographic \((66\% [123/187] \text{ vs } 82\% [284/348], \text{ respectively}; P = 0.01).\) Among women, large animal surgeons were less likely to have children than small animal surgeons \((35\% [35/101] \text{ vs } 55\% [101/190], \text{ respectively}; P = 0.003).\) This difference was not observed among men \((75\% [110/146] \text{ vs } 77\% [209/271], \text{ respectively}; P = 0.68; \text{ Table 1}).\)

Among respondents who reported having children, the mean number of children was 2.2, with no significant \((P = 0.17)\) difference by gender noted after adjustment for age. Among those with children, women reported having or adopting their first child at a slightly later mean age than did men \((34.6 \text{ vs } 33.2 \text{ years, respectively}; P = 0.02).\)

The timing relative to career training of when ACVS diplomates had or adopted children differed significantly \((P < 0.001)\) between men and women, with women having had their first child or planning to have their first child later in their career than did men (Figure 2). In particular, more women than men \((95\% [261/275] \text{ vs } 74\% [290/393], \text{ respectively})\) had or adopted, or planned on having or adopting,

<table>
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<td>Women</td>
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<tr>
<td>Any</td>
<td>Large animal</td>
<td>136/145 (94)</td>
<td>67/102 (66)</td>
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<td></td>
<td>Small animal</td>
<td>252/270 (93)</td>
<td>156/192 (81)</td>
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<td>223/294 (76)</td>
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<td>54/60 (90)</td>
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<td>85/113 (75)</td>
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<td>67/72 (93)</td>
<td>22/36 (61)</td>
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<tr>
<td></td>
<td>Small animal</td>
<td>188/200 (94)</td>
<td>103/127 (81)</td>
</tr>
<tr>
<td></td>
<td>Overall</td>
<td>255/272 (94)</td>
<td>125/163 (77)</td>
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**Figure 1**—Smoothed estimates for the percentage of male (blue; \(n = 416)\) and female (red; 289) ACVS diplomates who responded to a survey regarding career-life balance and indicated that they had children, by year of diplomate status achievement. Solid lines represent those with \(\geq 1\) child, and dashed lines represent those with \(\geq 2\) children.

**Figure 2**—Strip plots showing the distribution of male (\(n = 385)\) and female (262) ACVS diplomates who responded to the question “When during your career did you/\(do\) you plan to have or adopt your first child?” Each strip shows the proportions of respondents who planned to have or adopt their first child before (red) or during (yellow) veterinary school, during internship (lime green), during residency (turquoise), or within (blue) or after (purple) the first 5 years of full-time work or had no plans for children (pink).
their first child after finishing their residency training. Even after adjustment for diplomat year, men were still significantly (P < 0.001) more likely than women to have children (Figure 1). Of those responding, significantly (P < 0.001) more women than men agreed or strongly agreed that their stage of career (in training vs employment or number of years practicing) played or would play an important role in family planning (68% [199/294] vs 59% [246/418], respectively).

**Employment status**

The median category for number of hours worked per week for both men and women was 50 to 59, with no consistent differences by gender across practice types (ie, private practice vs academia) and species specialty (ie, large animal vs small animal; data reported elsewhere). Respondents with children worked fewer hours than did those without children (P < 0.001), with evidence of a greater reduction for women than men (estimated reduction, 6.0 hours and 3.1 hours, respectively; P = 0.01) after adjustment for age and practice type. In particular, women were more likely to indicate that they worked < 40 h/wk if they had children than were women who did not have children (18% [24/130] vs 7% [11/154], respectively; P = 0.005). Among male respondents, the proportion working < 40 h/wk was not significantly (P = 0.31) different between those with versus without children (13% [41/312] vs 9% [9/97], respectively).

**Work flexibility and responsibilities in the home**

When asked about flexibility in work schedules, more men than women felt that their significant other had a more flexible schedule (67% [255/382] vs 49% [117/239], respectively; P < 0.001). Among respondents with children, this gap was similar (72% [221/305] vs 53% [68/129], respectively), with more men than women indicating their significant other worked from home or stayed at home (31% [95/305] vs 11% [14/129]) or had a job that was part-time or otherwise allowed for significant time off (21% [65/305] vs 9% [12/129]). Among respondents without children, 44% (34/77) of men and 44% (48/108) of women felt that their significant other had more flexibility in their work schedule (P = 0.97). When asked about provision of child care, more women than men indicated they had required the use of external childcare services (75% [101/134] vs 51% [153/302], respectively), and more men than women indicated their partner or spouse stayed home with the children (40% [121/302] vs 13% [17/134]; P < 0.001 for both comparisons; Figure 3). Among respondents with children, gender differences in responsibility for childcare were also evident outside of normal working hours (P < 0.001), whereby 28% (37/133) of women and 3% (8/300) of men indicated that they were the primary caregiver, and 6% (8/133) of women and 4% (13/300) of men reported that their spouse filled this role. Approximately equal proportions of female and male respondents reported sharing this responsibility equally with their partner (51% [68/133] vs 46% [138/300], respectively).

Women with children took significantly (P < 0.001) more maternal leave than did men with children (mean, 13.8 weeks vs 2.4 weeks, respectively), and this difference remained significant after adjustment for practice type and species specialty. There was no difference (P = 0.91) between genders in the use of paid versus unpaid leave. Among both genders, respondents working in academia were significantly (P < 0.001 for both comparisons) more likely to take paid leave than were those working in private practice (91% [100/110] vs 35% [54/154], respectively, for women; 88% [105/120] vs 42% [101/239] for men). Self-assessment of adequacy of parental leave did not differ by gender, practice type, or species specialty, with 38% (107/443) of respondents agreeing or strongly agreeing that their parental leave had been adequate and 29% (130/443) disagreeing or strongly disagreeing.

**Objective measures of professional success**

In an analysis stratified by gender, respondents with children were more likely to be more advanced in their careers (academic rank or title or practice ownership) than were respondents without children; however, this difference was no longer significant (P = 0.29) after adjustment for species specialty, age, and relationship status. Nevertheless, even after adjustment for multiple covariates, including gender, age, diplomat year, practice type, species specialty, employment status, job title, and others, respondents with children reported a higher salary than did those without children (mean, 9.6% higher; P = 0.007), with no evidence that this relationship between having children and higher salary differed by gender (P = 0.57).

**Figure 3**—Strip plots showing the distribution of male and female ACVS diplomates who responded to the questions “If one or more of your children are under the age of 13, do you require childcare?” (n = 192 and 102, respectively) and “If one or more of your children are older than 13, did you require childcare before they were 13?” (189 and 69, respectively). When respondents answered both questions, the answer from the first question was used in the analysis. Response options included “No, I stay home with them” (red), “My partner and I share this responsibility” (lime green), “No, my partner/spouse stays home with them” (turquoise), and “Yes” (purple).
Subjective measures of the relationship between personal life and a successful career

Overall, 25% (186/754) of respondents reported that their career had positively affected their relationship, and 41% (311/754) reported a negative effect. Women were significantly ($P < 0.001$) more likely to report a negative effect (50% [141/283] vs 35% [147/415], respectively) and less likely to report a positive effect (16% [45/283] vs 30% [125/415]).

When respondents with children were asked if having children had affected the type of practice or career path they had chosen, significantly ($P < 0.001$) more women than men indicated that it had (51% [70/136] vs 34% [109/319], respectively). In addition, more women than men perceived that family had an overall negative impact on their career development (48% [65/136] vs 19% [60/320], respectively), whereas more men than women perceived a positive impact (43% [137/320] vs 16% [22/136]; $P < 0.001$). Similarly, when respondents who had not had children (or not had children yet) were asked what sort of impact they believed having children would have had (or would have) on their career path, women were significantly ($P < 0.001$) more likely to expect a negative impact than men (81% [125/154] vs 50% [49/98], respectively). Overall, a significantly ($P < 0.001$) greater proportion of respondents without children expected a negative impact of having a family on their career, compared with the perceived experiences of those who were already parents (Figure 4).

When asked whether maintaining their professional occupation had had a negative impact on their ability to participate in family life, especially with respect to raising children, many respondents (with or without children) agreed (49% [241/487]) or strongly agreed (23% [110/487]), with no significant ($P = 0.24$) difference identified between genders.

Discussion

In 2017, the proportion of first-year class seats occupied by women in US veterinary schools surpassed 80%. This demographic change has been accompanied by a generational shift of priority, given that both male and female millennials believe that women are more focused than men on their careers. In 2015, nearly half of 2-parent households featured 2 working parents, compared with 31% in 1970, and this situation can pose a challenge to achieving work-life balance. In human medicine, incompatibility between work and family life has been identified as a leading cause for physician dissatisfaction, particularly among those who discontinue a career in the clinical or academic sector. The results of the study reported here, unsurprisingly, suggested that a similar struggle may exist for ACVS diplomates with the competing devotions of professional and personal lives.

One of the most striking findings of the study reported here was the gender disparity in the proportion of respondents who were married. Men were significantly more likely than women to be married or in a domestic partnership, a difference that was further highlighted within the large animal surgical specialty. A similar pattern has been noted in human surgical disciplines. The reason underlying this disparity between genders is unclear because there is a longstanding trend for educated women to be more likely than educated men to be married. Female ACVS diplomates participating in the survey reported here were significantly more likely than male diplomates to indicate that they perceived their career had a negative impact on their personal relationships; this finding offered a possible explanation for our observations. Specifically, with respect to large animal surgeons, the time burden (eg, mean number of hours worked and number of on call shifts per month) was greater than that of small animal surgeons, and this factor may have contributed to the lower prevalence of marriage for women in large animal surgery in the present study.

We also found dramatic differences in the prevalence of parenthood between male and female respondents, independent of relationship status and age. Similar findings have been reported in human surgical fields and among women with PhDs or other postgraduate degrees. Echoing the pattern seen across evaluated human surgical fields, most (95%) female ACVS diplomates in the present study began having children in the first 5 years after surgical residency training (vs 74% of male diplomates). This statistic corresponded with a mean age of 34.6 years when the first child was born. Although having
children after residency training may be considered ideal to avoid a break in career development. Advanced maternal age is associated with increased risks to maternal and fetal health during pregnancy. In addition to advanced age, the physical and emotional stress associated with high-intensity jobs (such as surgery) can adversely impact fertility. Physical stress may be an especially important factor for large animal surgeons and may have contributed to our observation that female diplomates working in large animal surgery were the least likely to have children. Although already demonstrated among human surgeons, evaluation of fertility and pregnancy complications among veterinary surgeons may help to delineate the role these factors play in the gender differences observed in the veterinary surgical profession.

The design of the present study did not allow evaluation of the role of personal choice in the prevalence of marriage and parenthood among ACVS diplomates. Although time constraints and biological factors may have affected these outcome measures for specific individuals, our results also likely represented lifestyle choices made by ACVS members. In 2016, the prevalence of marriage among US adults > 18 years old was 50% and among those > 25 years old with a bachelor degree was 65%. Our results indicated a perceived negative impact of children on career advancement among respondents; thus, some graduating veterinary students who plan to raise children may opt out of a career in surgery. Studies of physicians in human medicine show that those rejecting a career in surgical specialties are more likely to specify reasons related to quality of life. Because we surveyed only current ACVS diplomates, we could not analyze the population of veterinarians who chose not to pursue a career in surgery or opted to leave this field. The unmeasurable role of personal choice must be considered when interpreting our findings.

Another finding of note in the present study was the pattern of childcare responsibilities among male and female diplomates. With a continued increase in dual-career families in the United States, responsibilities at home have shifted, with both men and women participating in childcare duties. Despite this trend, studies in human medicine show that only 25% to 58% of male physicians with children have a spouse who works outside of the home, whereas 90% of female physicians with children report the same. The results from our survey echoed these findings, whereby more male than female ACVS diplomates indicated that their significant other worked from home, stayed at home, or worked part-time. Not surprisingly, we also found that more women than men required external childcare services and more men than women indicated that their partner or spouse stayed at home with the children. Gender differences in childcare responsibilities were also evident outside working hours, whereby more women than men indicated that they were the primary caregiver. These findings suggested that both the need or desire to provide childcare personally and the need to secure it externally differs between men and women in the profession. In our analysis of other elements of career and personal life evaluated in the survey, more women were more likely than men to be the primary earners in their household (81% vs 65%, respectively), providing a possible explanation for the observed discrepancy in division of labor.

The subjective opinions of male and female ACVS diplomates about the perceived impact of children on career success also differed significantly in the present study. More women than men believed that having a family had negatively impacted their career development, whereas men were more likely to believe that having a family resulted in a positive impact on their career. Even among those who did not have children, women were significantly more likely than men to expect a negative impact. Although the expectations of diplomates were more likely to be negative than the actual experiences of those with children, 49% of women (vs 19% of men) still believed that they had experienced some negative impact on their career. The aforementioned perceptions likely contributed to more women than men choosing not to have children. This information is important because perception differs from reality; therefore, mentorship and education can be valuable to new veterinary graduates considering starting families. In the present study and others, women have subjectively experienced more difficulty in balancing work and family than have men, so it would be important to address these barriers in the veterinary surgical profession, in which the proportion of women is increasing.

Despite the characterized perceptions, we did not find any measurable difference in career success for ACVS diplomates, men or women, with or without children, in any practice setting or species specialty. On the contrary, after adjustment for covariates such as age, years in practice, and relationship status, among others, the prevalence of parenthood was associated with a higher personal income (and no significant differences in level of career advancement) for both men and women. The phenomenon in the US labor force termed the motherhood penalty was first described in 2001 and indicated that, for each child a woman had, her mean income would decrease by 5% to 7%, depending on the years of job experience and social class. The opposite effect, termed the fatherhood bonus, indicated an increase in annual income for fathers during the years when they were having children. It was interesting that our study showed no association between gender and the personal income of diplomates with children. The cause for the income discrepancy between those with and without children could not be determined from the collected data; however, the proportionally greater financial needs of a larger household might be expected to lead to efforts or decisions that would result in greater income.

The present study had several limitations that warrant consideration. As a survey-based study, some response bias would be expected. For example, people...
who were more passionate about the subject matter may have been more likely to respond than others. Because only current ACVS diplomates were surveyed, we were unable to investigate factors that might have influenced the decision to pursue a career in veterinary surgery. In a survey of female pediatric surgeons, respondents expressed concerns about lifestyle issues imposed by a career in surgery as a barrier to their overall quality of life and suggested that these concerns are likely to influence individuals considering the career path. In addition, workload and lifestyle of surgical residents are reportedly deterrents for fourth-year medical students from pursuing a surgical career.

Overall, a lack of female mentors, difficulties related to childbearing and childcare, and workload and lifestyle issues have all been implicated as possible disincentives to a career in human surgery. A more complete picture would be captured through longitudinal evaluation of veterinary students in their final year to determine not only what the deterrents might be in veterinary surgery but also how those deterrents might affect the changing generational and gender demographic of new veterinary surgeons. Finally, although questions were included in the survey to characterize family structure as it related to partnership and having children and responses were considered in depth, other responsibilities such as care of special-needs family members and other relationships of a personal nature were not specifically defined and investigated. Ongoing efforts to consider the broader elements of life as veterinary surgical professionals will help to identify a wider variety of issues and needs.

To achieve work-life integration and overall satisfaction, it seems likely that change is needed so that veterinary surgeons, both men and women, can be more involved in their personal lives and families without a detrimental effect on their career. Methods to achieve this in human medical fields include part-time and fixed-time schedules, flexible tenure programs for part-time faculty, and set parental leave packages for men and women. Although initially met with criticism, reduced working hours for physicians with children has been associated with stronger family relationships, greater achievement of professional goals, and greater overall career satisfaction. In veterinary medicine, importance is placed on the training years, and greater overall career satisfaction. In veterinary surgery, both men and women, can be more involved in their personal lives and families without a detrimental effect on their career. Methods to achieve this in human medical fields include part-time and fixed-time schedules, flexible tenure programs for part-time faculty, and set parental leave packages for men and women. Although initially met with criticism, reduced working hours for physicians with children has been associated with stronger family relationships, greater achievement of professional goals, and greater overall career satisfaction.

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