

BACKGROUND

- Firefighters have physically strenuous careers and must work long shifts^{1,2}
- Shift schedules are often 24 hours on, 48 hours off; 48 hours on, 96 hours off²
- Fire stations across a city receive varying quantities of calls³
- Quality of life is a metric that has been previously investigated within the fire service^{4,5}
- However, the influence of call volume, sex, and age on career firefighter quality of life is unknown

PURPOSE: The purpose of this study was to investigate the influence of call volume, sex, and age on the quality of life in career firefighters.

Participants

- Two hundred and forty career firefighters from a department in Texas completed an online surve
- 9 females; 231 males
- Age = 41 ± 9 years,
- BMI = 29.50 ± 4.55 kg/m²

Surveys

- Participants were asked self-rei to demographic data (i.e., age, sex)
- Quality of life was estimated using a visual and scale (VAS) from 0 to 100 arbitrary units (a.u.)
- Participants were asked to mark their curi quality of life on a line where "0" represented worse state and "100" represented perfect quality of life

DOES CALL VOLUME, SEX, AND AGE INFLUENCE QUALITY OF LIFE IN CAREER FIREFIGHTERS?

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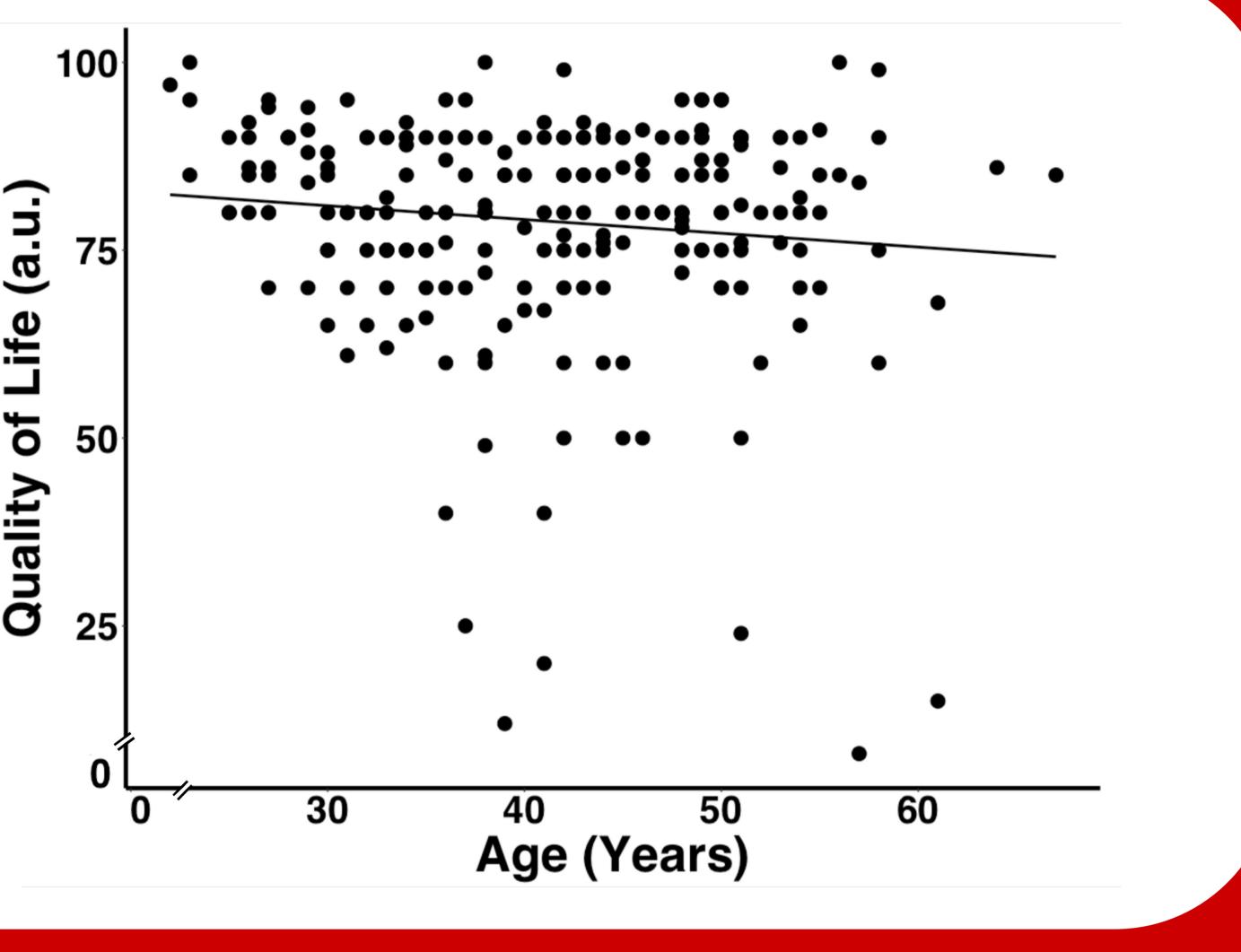
PRACTICAL APPLICATIONS

While the present results suggest that call volume, sex, and age may not impact quality of life in career firefighters, future investigations may wish to consider a larger sample or other **job-specific** variables that may influence quality of life in the fire service.

METHODS

a ey	42. Please rate your current health related quality of life. On the scale below, place a vertical mark on the line below to indicate your current health related quality of life. A score of "0" represents the worst health state you can imagine. A score of "100" represents perfect health					
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rent the	<i>Figure 1.</i> Participants estimated quality of life using a visual analog scale from 0 to 100 arbitrary units (a.u.). The 0 represents the worst state and 100 represents the best state. The quality of life					

value was used for analyses per participant.



Call Volume

• Stations' call volumes were categorized into low, medium, or high based on the number of calls received

Statistical Analyses

- A multiple linear regression analysis was completed to estimate the effects of call volume category (low, medium, high), sex, and age on quality of life in career firefighters
- The independent variables were call volume category (low, medium, high), sex, and age
- The dependent variable was quality of life
- Demographic data is reported as mean \pm standard deviations
- Alpha level was set to 0.05



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RESULTS

- The sample consisted of 9 female and 231 male career firefighters
- The quality of life reported for the sample was 78.87 ± 15.02 a.u.
- The multiple linear regression outcomes indicate no significant influence of call volume category (low, medium, high), sex, and age $(F(_{4,212}) =$ 1.921, p = 0.108, $R^2 = 0.017$) on quality of life

Variable	Estimate	SE	t	p
Age	-0.191	0.111	-1.722	0.087
Sex (Male)	-8.906	5.453	-1.633	0.104
Medium Call Volume	2.505	2.442	1.026	0.306
High Call Volume	2.906	2.542	1.143	0.254

CONCLUSION

- The findings suggest that call volume category, sex, and age do not influence quality of life in career firefighters
- Future work may want to consider other demographic or work-related variables impact on quality of life (i.e., BMI, hours on shift, overtime hours)

References

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