

Representation about physical activity among firefighters: A study in Wallonia



Introduction

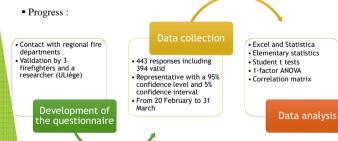
- To be a firefighter is a dangerous job
- That implies anxiety, stress, depression, sleep disorders, absenteeism and other deviant behaviors (Fullerton, Ursano & Wang, 2004; Carey, Al-Zaiti, Dean, Sessanna & Finnel, 2011)
- To adopt an active lifestyle can reduce these health risks and thus maximizing the chances of staying healthy (OMS, 1999)
- 53% of Belgian firefighters have a BMI ≥ 25 and 15% of them have a BMI ≥ 30. Which is more than the Belgian average (Mensura, 2012)

Objectifs

- · Analyse the firefighters' representations and lifestyle
- Identify the firefighters PA's level
- Assess their satisfaction with their profession

Methods

- Online questionnaire (SurveyMonkey)
- Age, gender, BMI, rank, status, PA representation and practices, ...
- Contact one of the main firefighters association (FRCSPB) to reach a significant number of subjects



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Results and discussion

- Results showed that firefighters :
- Have a positive representation of PA
- Are aware of the benefits of a regular practice on their health
- Are aware of the importance of good stress management and cardiovascular endurance qualities in this profession
- Deplore a lack of maintenance of these qualities
- Level of firefighters' PA:
- A highly significant difference (p= .000) between private and professional PA
- 18% of the subjects felt that they had a low physical activity



Average scores of firefighter's quality of life scores by rank or status (mean score / 10)		Averages	Standa rd deviation	P Value
Rank	No specific rank (261)	7.46	±1.0	.146
	Non- commissionned officer (68)	7.22	±0.7	
	Officer (57)	7.30	±0.9	
	Total (386)	7.39	±0.9	
Status	Voluntary (243)	7.38	±1.0	.721
	Professional (151)	7.42	±0.9	
	Total (394)	7.40	±0.9	

- Firefighters were generally satisfied with their job and considered that they have an acceptable quality of life
- The mean BMI of the subjects was above 26, indicating a slight overweight. Sedentary lifestyle, poor infrastructure, injuries due to lack of fitness allow us to suspect an insufficient training
- Other factors were pointed out by the subjects (stress, absenteeism, deviant behavior...)

Conclusion

Being firefighter is a perilous and physically and mentally demanding job. However the study shows existing problems such as high BMI, physical inactivity, poor infrastructure, injuries due to lack of fitness, etc. The study also highlights other problems inherent in the profession such as stress, cardiovascular events, absenteeism, deviant behavior, etc. The firefighters were generally satisfied with their job and considered that they have an acceptable quality of life. However lack of time, financial and human resources must not be a barrier to the practice of essential PA for those people who are directly related with danger. In the case of firefighters, the place given to PA in the workplace seems to not be significant and such situation should alert public authorities.

Implications

- Medical tests and standardized physical assessments should be proposed more regularly throughout the career
- Regional fire departments could enter into agreements with the municipalities or the Directorate-General for Sport to use the existing infrastructures

References

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