

Introduction

- Employment plays an important part of college life in the United States due to its various benefits, but can also negatively impact the health and safety of working students.
- Adolescents and young adults have a higher rate of occupational diseases, injuries, and deaths than their adult counterparts in similar jobs.
- The hazard exposures of working college students in their workplaces are not yet fully explored and characterized.

Aims of the Study

- To identify the health and safety hazards in the workplace
- To characterize related occupational diseases and injuries, and
- To describe worker training and education provided by employers
- Goal: To understand the unique characteristics of working college students and their hazard exposures for the development of occupational health and safety strategies that would target interventions for college-age workers

Methodology

- College students (n=1,147), \geq 17 years old, were assessed via online surveys about work history, workplace exposure to hazards, occupational diseases and injuries, and workplace health and safety training activities.
- Pearson chi-square tests were used to describe gender differences (p<0.05).
- The individual effects of demographic, workplace and other predictor variables on injury occurrence were examined using simple logistic regression by calculating odds ratios (OR).
- The effect of several predictor variables on injury occurrence was determined using multivariate logistic regression by calculating adjusted odds ratios (AOR).

Wc	ork Setti
1.	Restaura
	food
2.	Universit
3.	Home
4.	Others n
5.	Non-food
6.	Fast food
7.	Grocery
8.	Hospital,
	home
9.	Swimmir
10.	Daycare
11.	Construc
12.	Factory
13.	Farm
14.	Lawn ca
15.	Park
16.	Pharmac
17.	Movie th
18.	Hotel/Mc
19.	Convenie
20.	Gas stati
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Workplace Hazards

- 1. Very loud continuous noise 2. Hot liquids, grease and hot
- surfaces Extreme cold conditions
- Dust, fumes, thick smoke or foul smelling odors
- Needles, blood and other
- bodily fluids, body organs or medical waste
- Flammable or explosive
- substances Working outside in mosquito
- or tick-infested areas
- Solvents, paint thinner or
- spray paint
- Pesticides, herbicides and weed killers
- 10. Radiation

Effects

- . Sun burn 2. Mosquito and tick bites
- 3. Asthma
- 4. Dermatitis, eczema and other
- 5. Other
- asthma

Assessment of Occupational Health and Safety Hazard Exposures Among Working College Students

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Results









Figure 3. Diseases or Adverse Effects Caused or Aggravated by Workplace Hazards Among Working College Students by Gender

tings

- ty/ School
- not Listed
- d store
- store
- clinic or nursing
- ng pool center ction site
- re
- neater
- otel ence store

Diseases or Adverse

- skin problems
- 6. Respiratory illness aside from
- 7. Chemical poisoning

Figure 1. College Student Work Settings by Gender and Job Injury

Figure 5. Workplace Health and Safety Activities Among College Students



Results (cont'd)

- 20% of working students had experienced an injury at work; some were severe enough to limit their normal activities for more than three days (30%) or require medical attention (44%).
- Males had a higher prevalence of injuries $(\chi^2=3.962, p=0.047)$ and near-misses $(\chi^2 = 12.919, p = 0.000)$ at work than females, likely attributed to gender differences in work tasks (Figure 4).
- Job safety training was received by most (77.3%) students but was not significantly related to injury occurrence (χ^2 =3.380, *p*=0.066).
- 79.4% of working students reported using personal protective equipment (PPE) on the job, 56.7% of whom were women. Differences in PPE usage between genders are statistically significant (χ^2 =5.49, *p*=0.02).

Conclusions

- Improving the awareness of college students on workplace health and safety may positively influence workplace behaviors and practices.
- Reduction of workplace injuries and illnesses among working college students may be achieved by implementing occupational health and safety (OHS) strategies including:
- Developing workplace training designed for young workers
- Providing adequate PPE by employers
- Incorporation of OHS in the college curriculum
- Promotion of OHS by university and college student health services
- Improving awareness of online resources on OHS among college students, employers and educators

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