

Department of Psychology, Peking University, Beijing 100871, PR China
Department of Social Work and Social Administration, The University of Hong Kong, Hong Kong, PR China

ARTICLE INFO

Article history:

Received 22 May 2010
Accepted 19 January 2012
Available online 23 January 2012

Keywords:

Family violence
Domestic violence
Child abuse
Child maltreatment
Child protection

ABSTRACT

This study examined the relationship between child abuse and child maltreatment in Chinese families. A total of 1,000 parents were recruited from three Chinese cities. Results showed that child abuse was associated with child maltreatment. Child abuse was negatively related to child maltreatment. Child maltreatment was positively related to child abuse. The results indicated that child abuse and child maltreatment were two distinct but related concepts. © 2012

1. Introduction

Child abuse and child maltreatment have been considered as serious social problems in many countries.

of driving risk (e.g., *driving speed*, *driving distance*, *driving time*, *driving route*, *driving condition*, *driving behavior*, *driving environment*, etc.) (e.g., *Wang et al.*, 2007). In addition, driving risk has been found to be associated with individual factors such as *age*, *gender*, *education level*, *driving experience*, *driving license*, *driving motivation*, *driving attitude*, *driving perception*, *driving emotion*, *driving personality*, *driving cognitive appraisals* (e.g., *Perrow, 1998; Wang et al., 1998; Wang et al., 2004; Wang et al., 2007; Wang et al., 2008; Wang & Wang, 2008; Wang & Wang, 2008).*

1.2. Risky driving: perception and attitude

Risky driving refers to driving behaviors that pose a threat to drivers and passengers (e.g., *driving speed*, *driving distance*, *driving time*, *driving route*, *driving condition*, *driving behavior*, *driving environment*, etc.) (e.g., *Wang et al.*, 2007). *Risky driving* has been found to be associated with individual factors such as *age*, *gender*, *education level*, *driving experience*, *driving license*, *driving motivation*, *driving attitude*, *driving perception*, *driving emotion*, *driving personality*, *driving cognitive appraisals* (e.g., *Perrow, 1998; Wang et al., 1998; Wang et al., 2004; Wang et al., 2007; Wang et al., 2008; Wang & Wang, 2008; Wang & Wang, 2008; Wang et al., 2009; Wang & Wang, 2012; Wang et al., 2012; Wang et al., 1996; Wang et al., 2004).*

Perception refers to the process by which people interpret information from their environment (e.g., *driving environment*) based on their own knowledge, experience, and beliefs (e.g., *Wang & Wang, 1993*). *Attitude* refers to the evaluations of an object or behavior (e.g., *driving behavior*) based on personal experiences and social norms (e.g., *Wang & Wang, 2009*).

Emotion refers to the subjective experience of feeling (e.g., *driving emotion*) (e.g., *Wang, 1991*).

Personality refers to the individual's characteristic ways of thinking, feeling, and acting (e.g., *Wang et al., 2004; Wang et al., 2003; Wang & Wang, 1997; Wang & Wang, 2004*).

1.3. Emotion and risky driving: through perception and attitude

Emotion refers to the subjective experience of feeling (e.g., *driving emotion*) (e.g., *Wang, 1991*). *Emotion* is often considered as a key factor in decision making (e.g., *Wang et al., 2004*). *Emotion* has been found to be associated with individual factors such as *age*, *gender*, *education level*, *driving experience*, *driving license*, *driving motivation*, *driving attitude*, *driving perception*, *driving emotion*, *driving personality*, *driving cognitive appraisals* (e.g., *Perrow, 1998; Wang et al., 1998; Wang et al., 2004; Wang et al., 2007; Wang et al., 2008; Wang & Wang, 2008; Wang & Wang, 2008; Wang et al., 2009; Wang & Wang, 2012; Wang et al., 2012; Wang et al., 1996; Wang et al., 2004*).

Attitude refers to the evaluations of an object or behavior (e.g., *driving behavior*) based on personal experiences and social norms (e.g., *Wang & Wang, 2009*).

Personality refers to the individual's characteristic ways of thinking, feeling, and acting (e.g., *Wang, 1991*).

Perception refers to the process by which people interpret information from their environment (e.g., *driving environment*) based on their own knowledge, experience, and beliefs (e.g., *Wang & Wang, 1993*).

Cognitive appraisals refer to the cognitive processes involved in evaluating the potential consequences of a situation (e.g., *driving environment*) (e.g., *Wang et al., 2004*).

(2005) & (2007). (2006). (2004). (2003)

1.4. Current study

(2005) 1

2. Study 1

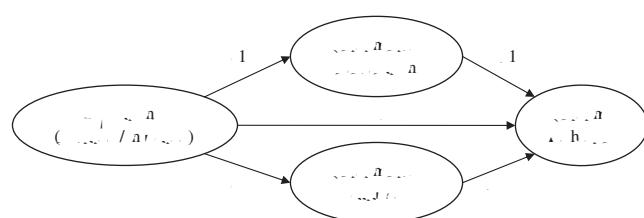


Fig. 1.

2.1. Method

2.1.1. Participants

204	(93.6%)	(4.1%)	(2.3%)	218
34.10	(7.70)	20	56	
7.33	(5.46)	1	30	
43		46	73	56

2.1.2. Materials of emotion induction

16.

2.1.3. Measures

2.1.3.1. Emotion.

$\alpha = .89$.
The results of the study are presented in Table 5.

2.1.3.2. Driving risk perception.

In general, $\alpha = .80$ (.84, .83, .83) (2005).

2.1.3.3. Driving risk attitude.

(2008)²⁾ perception
 $|df = 1.78, \alpha = .06, \beta = .90, \gamma = .86, \delta = .88)$. $\alpha = .82$.

¹ ² W. (2002).



Fig. 2. A winding road through a forest.

2.1.3.4. Risky driving behavior

As shown in Table 2, the results of the ANOVA indicated significant main effects of gender ($F(1,211)=11.27, p < .001, \eta^2 = .05$), age ($F(2,211)=2.79, p < .05, \eta^2 = .02$), and gender \times age ($F(2,211)=2.79, p < .05, \eta^2 = .02$).

2.1.4. Procedure

The participants were asked to drive a car on a computerized driving simulation system. The participants were seated in a car seat and were asked to hold a steering wheel. They were asked to drive the car on a winding road through a forest (see Fig. 2). The participants were asked to drive the car at their normal speed. They were asked to drive the car for 10 min. After the driving task, they were asked to complete a questionnaire about their driving risk perception, driving risk attitude, and risky driving behavior.

2.2. Result

2.2.1. Emotion induction

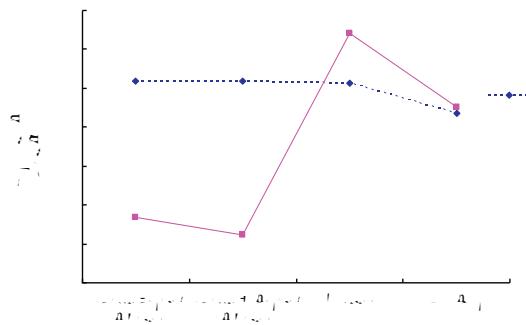
As shown in Table 3, the results of the ANOVA indicated significant main effects of gender ($F(1,211)=51.26, p < .001, \eta^2 = .42$), gender \times age ($F(2,211)=77.84, p < .001, \eta^2 = .52$), and age ($F(1,211)=11.27, p < .001, \eta^2 = .05$). There was no significant effect of gender \times gender \times age ($F(2,211)=2.79, p < .05, \eta^2 = .02$).

2.2.2. Driving risk perception

As shown in Table 4, the results of the ANOVA indicated significant main effects of gender ($F(1,214)=2.68, p < .05, \eta^2 = .04$), gender \times age ($F(2,214)=2.68, p < .05, \eta^2 = .04$), and age ($F(1,214)=2.68, p < .05, \eta^2 = .04$). There was no significant effect of gender \times gender \times age ($F(2,214)=2.68, p < .05, \eta^2 = .04$).

2.2.3. Driving risk attitude and risky driving behavior

As shown in Table 5, the results of the ANOVA indicated significant main effects of gender ($F(1,207)=2.79, p < .05, \eta^2 = .04$), gender \times age ($F(2,207)=2.79, p < .05, \eta^2 = .04$), and age ($F(1,207)=2.79, p < .05, \eta^2 = .04$). There was no significant effect of gender \times gender \times age ($F(2,207)=2.79, p < .05, \eta^2 = .04$).



the first two time points, $t(69)=1.941$, $p=.056$, $\eta^2=.05$; the last two time points, $t(54)=2.270$, $p=.027$, $\eta^2=.09$ ($n=5$).

2.3. Discussion

The results of this study support the hypothesis that the effect of the intervention on the outcome measure was significant. The results also support the hypothesis that the effect of the intervention on the outcome measure was significant at the first two time points.

Table 1

b_1	$b_1 + b_2$	b_2
	$b_1 + b_2$	b_2
	(β)	(β)
	-1.199*	-1.720
	-1.105	-1.497
	.019	-.316
	.000	.288
		3.482**
F	2.349	4.413**
$p @ b_2 = R$.027	.080

* $p < .05$.

** $p < .01$.

, 2007) ที่ “ ” (, 1985),

(2012)

(1946).

(5.49 .2.53, $F(1, 216) = 234.23, p < .001, \eta^2 = .52$).

et al., 2012).

(2005).

(Liu, & Li, 2005)

3. Study 2

3.1. Method

3.1.1. Sample

WST 700 \$ 570 (81.4%)
500 (71.4%) 500 430 (86.0%) 61 (12.2%)
(1.8%) 37.86 (9.85) 20 73
500 74 2 186 10
191 (38.2%)

3.1.2. Measures

3.1.2.1. Mood

(1995). 58, 5- (1, "5, 28), α .94, .86, .82, 51.76%

3.1.2.2. Driving risk perception and driving risk attitude.

3.1.2.3. Driving behavior

by (2008). In 21-[\(1990\)](#), the

3.1.3. Procedure

10. The following table shows the number of hours worked by each employee in a company.

3.2. Result and discussion

$z = 3.98, p < .01$.

($\chi^2/df = 3.41$, $p = .92$, $\eta^2 = .07$, $N = 6$).

Table 2

* $p < .05$.

** $p < .01$.

Table 3

β	β_1	β_2
	(β)	(β)
	-.063	.000
	.020	-.005
	-.111*	-.059
	.164**	.118**
		.448**
		.163*
		.015
F	6.230**	68.877**
R^2	.050	.374

* $p < .05$.** $p < .01$.**Table 4**

β	β_1	β_2
	(β)	(β)
	-.059	-.033
	.100	.090
	.028	.051
	.127*	.110*
		.218*
		.037
		.001
F	2.135	8.355**
R^2	.011	.064

* $p < .05$.** $p < .01$.**Table 5**

β	β_1	β_2
	(β)	(β)
	.059	

4. General discussion

Acknowledgements

This research was funded by the National Natural Science Foundation of China (No. 70522202), the National Social Science Foundation of China (No. 09& 072), and the Fundamental Research Funds for the Central Universities.

References

- (1991). *Organizational Behavior and Human Decision Processes*, 50, 179–211.
- (1968). *The nature of emotion: Selected readings* (pp. 203–221).
- & (2000). *Risk Analysis*, 20, 413–427.
- & (1986). *Journal of Personality and Social Psychology*, 51, 1173–1182.
- (1998). *Cognition and Emotion*, 12, 579–599.
- & (2001). *Review of General Psychology*, 5, 323–370.
- & (2005). *Cognition and Emotion*, 19, 847–878.
- & (2012). *Health Education and Behavior*, 39, 8–17.
- (2007). *Annual statistical report of road traffic accidents in 2006 in China*.
- (2011). Statistics released by the Bureau of Traffic Management. <<http://www.mot.gov.cn/jkqj/16/85753/85870/>> (11.02.12).
- & (2012). *Transportation Research Part F*, 15, 174–187.
- (1997). *Journal of Business Research*, 39, 81–92.
- & (2005). *Handbook of attitudes* (pp. 437–489).
- & (2007). *Handbook of consumer psychology* (pp. 297–348).
- & (2003). *Journal of Applied Social Psychology*, 33, 1–23.
- & (2003). *Journal of Safety Research*, 34, 559–566.
- & (1993). *The psychology of attitudes* (pp. 1–16).
- (1998). *Journal of Economic Literature*, 36, 47–74.
- & (2009). *Transportation Research Part F*, 12, 1–11.
- & (2004). *Risk Analysis*, 24, 1301–1309.
- (1995). *Psychological Bulletin*, 117, 39–66.
- & (1987). *Personality and Social Psychology Bulletin*, 13, 467–477.
- (1996). *Accident Analysis and Prevention*, 28, 243–250.
- & (2004). *Accident Analysis and Prevention*, 36, 893–904.
- & (2005). *British Journal of Psychology*, 96, 215–230.
- (1946). *Journal of Psychology*, 21, 107–112.
- & (2000). *Cognition and Emotion*, 14, 823–855.
- & (2007). *Journal of Experimental Social Psychology*, 43, 497–504.
- & (1988). *Journal of Personality and Social Psychology*, 55, 710–717.
- (2004). *Transportation Research Part F*, 7, 135–150.
- & (1983). *Journal of Personality and Social Psychology*, 45, 20–31.
- (1987). *Clinical Psychology Review*, 7, 77–104.
- & (2004). *Journal of Behavioral Decision Making*, 17, 59–74.
- & (2008). *International Journal of Hospitality Management*, 27, 563–573.
- & (2008). *Journal of Experimental Social Psychology*, 44, 848–856.
- (2008). *Expert Systems with Applications*, 34, 977–988.
- & (2001). *Psychological Bulletin*, 127, 267–286.
- & (1995). *Cognitive Therapy and Research*, 19, 563–587.
- & (2007). *Transportation Research Part F*, 10, 458–475.
- & (2009). *Transportation Research Part F*, 12, 91–98.
- & (2007). *Transportation Research Part F*, 10, 254–262.

- Clinical Rehabilitation, 19, 767-769.

& (2002). Ergonomics, 33, 1315-1332.

(1990). Journal for the Theory of Social Behaviour, 32, 417-435.

& (2004). Ergonomics, 33, 1281-1290.

Safety Science, 24, 1-21.

& (1998). Risk Analysis, 18, 111-118.

& (2012). Journal of Risk Research, <https://doi.org/10.1080/13669877.2012.657221>.

& (2007). European Journal of Operational Research, 177, 1333-1352.

(2005). Accident Analysis and Prevention, 37, 681-688.

(2003). The psychology of emotion: from everyday life to theory (5th ed., pp. 78).

(1985). Human behavior and traffic accidents (pp. 43-65).

(2006). Journal of Risk Research, 9, 125-139.

& (2002). Scandinavian Journal of Psychology, 43, 227-237.

& (2003). Safety Science, 41, 427-443.

(2003). Highway safety: Research continues on a variety of factors that contribute to motor vehicle crashes (pp. 436).

(1995). Chinese Journal of Traumatology, 11, 70-74.

& (1997). Applied Psychology: An International Review, 46, 253-264.

(2011). The top 10 causes of death. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3101112/> (Accessed 11.02.2011).

(2005). New theories about settlement of road traffic accidents.

& (2004). Social Behavior and Personality, 32, 791-796.

& (2003). Journal of Affective Disorders, 75, 11-18.

(1995). Journal of Tianjin Institute of Physical Education, 10, 35-37.

& (2008). Acta Scientiarum Naturalium Universitatis Pekinensis, 44, 475-482.