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Child and Family Factors Associated With Child Maltreatment in Vietnam

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Abstract

This study aims to explore possible risk factors for child maltreatment in Vietnam by investigating the association of child and family factors with different types of child maltreatment (i.e., sexual abuse, physical abuse, emotional abuse, witnessing parental conflict, and neglect) and the occurrence of multiple types of child maltreatment. Cross-sectional data of 1,851 secondary and high school students aged 12 to 17 years (47.3% boys) in four provinces of Northern Vietnam were obtained using selfreport questionnaires. Results indicated that the likelihood of emotional abuse, witnessing parental conflict, and experiencing multiple types of child maltreatment during lifetime increased with age. Boys had a higher risk than girls on lifetime sexual abuse, and past year and lifetime physical abuse. Living in a single parent family was the risk factor related to most types of child maltreatment including lifetime sexual abuse, neglect, and multiple types of child maltreatment, and both past year and lifetime witnessing parental conflict. Interestingly, low socioeconomic status (SES) and parental unemployment were associated with a decreased risk on experiencing emotional abuse in the past year and during lifetime, respectively. "Tiger

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parenting," a parenting style observed frequently in East Asian parents, may be more common in families with high SES and might explain this finding. This study highlights the importance of prioritizing single parent families in parenting programs and implementing child maltreatment interventions early because of the risk on child maltreatment increased with age. More research on emotional abuse and "Tiger parenting" in Vietnam could clarify the association of emotional abuse with high SES and parental employment. Finally, the underlying mechanisms of the risk factors in Vietnam should be studied more to inform interventions.

Keywords

child maltreatment, child abuse and neglect, risk factors, Vietnam

Introduction

Child maltreatment has negative consequences for individuals and societies at large (Fang et al., 2015; Tran, van Berkel, van IJzendoorn, & Alink, 2017). Child maltreatment was found to be highly prevalent in Vietnam, with lifetime prevalence estimates for the different types ranging from 7.1% to 59.9% and past-year prevalence ranging from 2.6% to 31.8% (Tran, Alink, van Berkel, & van IJzendoorn, 2017). Empirical inquiry on the risk factors for child maltreatment could provide scientific evidence for developing prevention and early intervention programs. However, most of the research on risk factors for child maltreatment was conducted in high income countries. Vietnam is a middle-income country with some specific characteristics such as high tolerance of harsh discipline and a long war history. Research on the risk factors for child maltreatment considering this specific context is very much needed. In this article, we explore risk factors for several types of child maltreatment separately as well as risk factors for having experienced multiple types of child maltreatment in Vietnam.

Etiological Framework

The etiological framework of child maltreatment by Belsky (1980, 1993) which was based on Bronfenbrenner's social ecological model (Bronfenbrenner, 1979) proposes that the occurrence of child maltreatment depends on factors at multiple subsystems in an interactive way. The model includes proximal factors including child and family factors and distal factors including social and cultural structures in which individuals and families are embedded. Proximal factors may affect child maltreatment more directly than distal factors. Therefore, the current study

focuses on a number of proximal risk factors for child maltreatment in Vietnam: child age (within adolescence), gender, ethnic minority status, number of children in the family, single parenthood, parental unemployment, and socioeconomic status (SES). In addition, we will explore a risk factor related to the Vietnamese history: war veteran status of the father.

Proximal Risk Factors for Child Maltreatment

There is evidence that child age and gender are significantly related to the occurrence of one or more different types of child maltreatment. When zooming in on the period of adolescence, there is evidence for an increased risk of child maltreatment in general for older adolescents (Euser et al., 2013). Less is known about the association with age in adolescence for the specific types of maltreatment. Using data for a broader age range, meta-analytic results show that the risk for neglect and physical abuse appears to be unrelated to age (Stith et al., 2009). The risk for sexual abuse and emotional abuse seems to increase with age in samples ranging from 0 to 17 years of age (Black, Heyman, & Smith Slep, 2001; Black, Smith Slep, & Heyman, 2001). A systematic review of risk factors for intimate partner violence, which—in case this is witnessed by children—is considered a form of emotional abuse, showed that intimate partner violence occurs more often within younger couples, so younger children may be at increased risk for this type of emotional neglect (Capaldi, Knoble, Shortt, & Kim, 2012). However, it is unknown whether this association also exists within adolescence.

Meta-analytic evidence shows that worldwide, the only gender difference is related to sexual abuse, with girls being more at risk than boys (Stoltenborgh, Bakermans-Kranenburg, Alink, & van IJzendoorn, 2014). However, a meta-analysis on sexual abuse in China showed a higher risk among boys (Ji, Finkelhor, & Dunne, 2013). The absence of gender differences for the other types of maltreatment is confirmed by several studies (Black, Heyman, & Smith Slep, 2001; Black, Smith Slep, & Heyman, 2001; Stith et al., 2009). In addition, ethnic minority status seems to be related to a number of maltreatment types. There is evidence that maltreatment occurs more often in families with a minority background as compared with other families (Alink, Euser, van IJzendoorn, & Bakermans-Kranenburg, 2013; Black, Smith Slep, & Heyman, 2001). However, these studies mostly report about minorities with a (recent) immigrant status. It is not known whether the same risk applies to minorities in Vietnam, whose immigrant status was not explored in this study.

Regarding family factors, several large prevalence studies have shown an increased risk of child maltreatment in families with low SES, unemployment, single parents, and large family size (Euser et al., 2013; Sedlak et al.,

2010). More specifically, low SES was shown to increase the risk of physical abuse, emotional abuse, neglect, and intimate partner violence as a proxy for witnessing parental conflict (Black, Smith Slep, & Heyman, 2001; Capaldi et al., 2012; Stith et al., 2009). Single parenthood and parental unemployment were found to be associated with higher risk of sexual abuse, physical abuse, and neglect (Black, Heyman, & Smith Slep, 2001; Stith et al., 2009). Parental unemployment also increased the risk of intimate partner violence (Capaldi et al., 2012). Large family size is another family risk factor related to physical abuse and neglect (Stith et al., 2009).

Child Maltreatment in Vietnam

Data from the current study revealed that all types of child maltreatment were highly prevalent in Vietnam, ranging from 2.6% for sexual abuse to 31.8% for emotional abuse. With the exception of sexual abuse, the prevalence of all types of child maltreatment in Vietnam was higher than in the Netherlands (Tran, Alink, et al., 2017). Similar as in other South East Asian countries, the saying "Spare the rod, spoil the child" describes the cultural norms on parenting in Vietnam that harsh discipline (emotionally and physically) is considered necessary to raise well-behaved children (Beazley, Bessell, Ennew, & Waterson, 2006). Authoritarian parenting is common in Confucian cultures such as Vietnam (Ang & Goh, 2006; Nguyen, 2008). Available research on parenting with Vietnamese/Asian immigrants in developed countries suggests the existence of Tiger parenting, a practice of harsh discipline with the emphasis on study achievements and family obligations among Vietnamese/Asian parents (Kim, Wang, Orozco-Lapray, Shen, & Murtuza, 2013; Nguyen, Chang, & Loh, 2014).

Another specific characteristic of Vietnam is its long war history. Irrespective of ethnic background, military service was compulsory in Vietnam for male residents from 18 to 45 years old. It is known that war exposure is related to psychiatric disorders such as depression and posttraumatic stress disorder (Leone, 2017; Miller & Rasmussen, 2010), which in turn are related to dysfunctional parenting and child maltreatment (Smith, 2004; Stith et al., 2009). There is also some evidence for the direct association between war experience and maltreatment. For example, combat-related deployment has been associated with higher rates of child maltreatment in military families in the United States (Gibbs, Martin, Kupper, & Johnson, 2007; Rentz et al., 2007) and a study in Uganda showed that the severity of posttraumatic stress disorder (PTSD) was associated with more child maltreatment reported by the veterans' children (Saile, Ertl, Neuner, & Catani, 2014). The effect of parental war experience on child maltreatment in Vietnam has not been examined in previous research.

One of the few studies on risk factors for child maltreatment in Vietnam (Nguyen, 2006) revealed several risk factors, such as a low family SES, gender, rurality, family composition, and employment. Unfortunately, these results have not been published, and they reflect the situation in Vietnam more than 10 years ago. In addition, a Vietnamese study on risk factors for intimate partner violence specifically found that lower education, a history of sexual violence, and experiences with child physical abuse were risk factors for women to be victims, and young age, alcohol use, extramarital relationships, and child abuse experience were risk factors for men to be perpetrators. Moreover, low SES was related to more intimate partner violence. Child gender, number of children in the family, ethnicity, and employment status were not related to intimate partner violence (Jansen, Nguyen, & Hoang, 2016).

Clearly, most research on child maltreatment has been conducted in Western settings, in particular in North American and European societies (Stoltenborgh et al., 2014). Research on risk factors in limited resource settings is lacking. In addition, worldwide there is a wide range of literature exploring risk factors for sexual abuse and physical abuse but fewer studies focus on risk factors for emotional abuse, witnessing parental conflict, and neglect. A large number of studies did not examine all types of child maltreatment, and were thus unable to explore the risk factors for experiencing multiple types of child maltreatment. In addition, absence of multivariate analysis limits the possibility to control for the role of other risk factors when exploring a specific factor (H. T. Nguyen, 2006; Stith et al., 2009).

Aim of the Current Study

To address the limitations of previous research as well as to provide scientific evidence for preventive child maltreatment interventions in the context of high child maltreatment prevalence in a limited resource country, we studied risk factors for maltreatment in the cross-sectional "Vietnam Prevalence Study on Child Maltreatment" (VPM-2014) study using a representative student sample in Northern Vietnam (see also Tran, Alink, et al., 2017; Tran, van Berkel, et al., 2017). We used multivariate analyses to investigate the association between proximal factors on the level of the child (age, gender, ethnic minority) and the family (number of children in the family, single parenthood, parental unemployment, low SES, war veteran experience of father), and the various types of child maltreatment including sexual abuse, physical abuse, emotional abuse, witnessing parental conflict, neglect, and the occurrence of multiple types of child maltreatment to explore possible risk factors for child maltreatment in Vietnam.

Method

Sample

The study was conducted in four provinces of Northern Vietnam, namely Hanoi, Nam Dinh, Ha Tinh, and Tuyen Quang. Hanoi, the capital of Vietnam, was selected because of its unique metropolitan characteristics. Next, one province was randomly selected from each of the three geographic areas of Northern Vietnam. In each province, two secondary schools and two high schools were randomly selected. In Hanoi, only schools in urban areas were selected because this province has the largest metropolitan population. In each of the other three provinces, one secondary school (for children aged 12 to 14 years) was selected from a list of schools in urban areas and the other secondary school from a list of schools in rural areas. In addition, for logistical reasons, for each province, the two high schools (for children aged 15 to 17 years) that were nearest to the secondary schools were selected. Exclusion criteria included schools for blind students, schools with fewer than 40 students per grade, and boarding schools where children live full time. One or two classes per grade of each participating school, depending on the number of students in a class, were randomly selected (Tran, Alink, et al., 2017; Tran, van Berkel, et al., 2017).

Our sample thus consisted of a total of eight secondary schools and eight high schools. In total, 2,360 students from 71 classes participated in the study. Students were excluded when unreliable answers were suspected based on outlying scores (more than 3.29 SD above the mean; Tabachnick & Fidell, 2012) on the Wildman Symptom Checklist, a scale consisting of bogus symptoms, such as "The buzzing in my ears keeps switching from the left to the right" (Merckelbach, Smeets, & Jelicic, 2009; Wildman & Wildman, 1999; n = 31), or based on a specific pattern in their answers on the maltreatment questionnaire (e.g., all questions answered with the highest possible score; n = 23). In addition, students who were older than 17 (n = 331) or younger than 12 years (n = 2) or with missing data concerning age (n = 123) were excluded. The final sample consisted of 1,851 students (47.3%) boys, 57.6% secondary school students; Table 1). The students were equally distributed among the four provinces. Most of the students were Kinh (81.7%), which is the majority ethnic group of Vietnam, and 17.8% belonged to one of the ethnic minority groups (the other 0.5% had missing values for ethnicity). The mean age of the students was 14.2 years (SD = 1.4).

Procedure

After the Provincial Department of Education and the school boards approved the implementation of the study in the schools, passive informed consent was

Table 1. Sample Description (N = 1,851).

Variable	N	%
Gender		
Boys	875	47.3
Girls	961	51.9
School		
Secondary schools	1,066	57.6
High schools	785	42.4
Ethnicity		
Major ethnicity	1,512	81.7
Minor ethnicity	329	17.8
	М	SD
Age	14.2	1.4

Note. 0.8% of sample missing on gender; 0.5% of the sample missing on ethnicity.

obtained from both the students and their parents. The students filled out the questionnaire during class hours. Students who refused or students whose parents refused participation in the study filled out dummy questionnaires to avoid making these students a special group in the classroom. These questionnaires were destroyed after the study and were thus not used in our analyses. The students were provided with contact details of the researcher and of the Child Protection Helpline for consultation and support. The Child Protection Helpline, the free hotline of Ministry of Labour, Invalids and Social Affairs, provides consultation, referral, and support for child abuse and neglect cases. The research proposal was approved by the Ethics Committee of the Institute of Education and Child Studies of Leiden University and the Ethics Committee of the Institute of Population, Health and Development of Vietnam.

Measures

Child maltreatment. The child maltreatment questionnaire (see also Euser et al., 2013) contained 32 items and was based on the Dating Violence Questionnaire (Douglas & Straus, 2006) and the Parent–Child Conflict Tactics Scales (CTSPC; Straus, Hamby, Finkelhor, Moore, & Runyan, 1998). The scale consists of the following subscales: Emotional Abuse (one item), Physical Abuse (eight items), Witnessed Parental Conflict (seven items), Sexual Abuse (eight items), and Neglect (eight items). The maltreatment items were

embedded in a questionnaire with filler items, which concerned unpleasant and nasty incidents, nonviolent parental discipline (CTSPC; Straus et al., 1998), and the social desirability items of the Dating Violence Questionnaire (Douglas & Straus, 2006). The Cronbach's alpha of the whole maltreatment scale was .75. In addition, the Cronbach's alphas of the Child Maltreatment subscales were also adequate ($\alpha s \ge .69$). We also computed the sum of all types of child maltreatment during the past year and lifetime, respectively (for neglect only lifetime experience was available), so a higher score indicates that the participant had experienced more types of child maltreatment.

Child and family risk factors. Participants were asked to report their age, gender, ethnicity, and the number of children living with them in the family. In addition, they were asked about the type of family they were living in (e.g., two parents, single parent, with relatives, in a boarding school), the unemployment status of each parent, the educational level of their parents (never went to school, primary school, secondary school, high school, college/university or higher), items their family owned (such as a color television, fridge, mobile phone, etc.), and whether or not their father had served in the army during the war. Regarding living situation, 89.8% of the students lived with two parents, 6.7% lived in single parent families, and 3.5% had other living situations. We first focused on single parent families versus two-parent families, and repeated all analyses with the variable representing single parent families versus all other families. Concerning unemployment status, parents without an income from a job were considered unemployed. Parental unemployment was computed as the sum of the unemployment status of father and mother (0 = neither)of the parents unemployed, 1 = one parent unemployed, 2 = both parents unemployed). For single parent families, parental unemployment was defined using only the unemployment status of the parent that the child lived with. Finally, SES was computed as the standardized sum of the metropolitan level of the living area (urban vs. rural), the parents' level of education, and the number of items in the household. The combination of these three variables was based on the results of a principal components analysis, indicating that a one-factor solution explained 65% of the variance and factor loadings were high (metropolitan level of the living area: 0.71; parental education: 0.80, number of items in household: 0.87). Lower SES was indicated by a rural living area, low parental education, and fewer items in the household.

Statistical Procedures

As missing values were not missing completely at random (MCAR) and the percentage of missing values ranged from 0.3% (neglect) to 19.8% (having a

war veteran father), we imputed the missing values using all study variables. Multiple imputation was performed in SPSS 23 using all background, predictor, and outcome variables (van Buuren, 2012). To deal with nonnormal distribution and outliers, the variable "number of children in the family" was transformed using a log10 transformation and winsorized before imputing missing data. One hundred data sets were imputed to allow for detection of small effect sizes even with variables with a rather high percentage of missing values, as in the case of having a war veteran father (Graham, Olchowski, & Gilreath, 2007).

To explore the relation between risk factors and child maltreatment, logistic regression analyses with each type of child maltreatment as outcome variable and child and family factors as predictors were conducted. Separate models were tested for past year and lifetime maltreatment. Results are based on the pooled standardized regression coefficients of the 100 imputed data sets and the pooled explained variance that was computed by calculating the mean (pseudo) R^2 of the 100 imputed data sets. Because of the number of tests, we used a conservative significance level of alpha < .01.

Results

Bivariate Associations Between Variables

The positive correlations between most types of maltreatment, both past year and lifetime, indicate modest comorbidity among types of child maltreatment (Table 2). All maltreatment variables were significantly intercorrelated for past year and lifetime experiences with a few exceptions. Lifetime emotional abuse was negatively associated with neglect and was not associated with both past year and lifetime sexual abuse and witnessing parental conflict. Past year emotional abuse was not related to lifetime experience of sexual abuse and neglect.

Based on the correlation matrix, multicollinearity among child and family factors was not an issue (the maximum r = .43). Child age was positively related to lifetime emotional abuse, witnessing parental conflict, and the number of child maltreatment types a child experienced. In addition, boys were more likely to have experienced lifetime sexual abuse and physical abuse and to have experienced more types of child maltreatment during the past year than girls. Belonging to an ethnic minority was positively associated with lifetime sexual abuse and negatively with lifetime physical abuse. Living in a single parent family was positively related to lifetime sexual abuse, neglect, witnessing parental conflict, and the number of experienced child maltreatment types both past year and lifetime. Parental unemployment was negatively associated

Table 2. Correlations Between Predictors and Outcome Variables.

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91																		.07	*90'-	.50*
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4						03	90:	.20*	*60'-	0.	02	03	02	03	.05	03		.02	.02	<u>o</u> .
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	Age	Gender	Minor ethnicity	Number of children in	family	Single parent	Unemployment	Low family SES	Father war veteran	Sexual abuse, P	Physical abuse, P	Emotional abuse, P	WPC, P	Number of CM types, P	Sexual abuse, L	Physical abuse, L	Emotional abuse, L	WPC, L	Neglect, L	Number of CM types, L
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Note. Gender (0 = girls, 1 = boys); minor ethnicity (0 = major ethnicity, 1 = minor ethnicity); single parent (0 = two-parent families, 1 = single parent families, 1 = single parent families); war experience of father (0 = not served in military during a war, 1 = served in military during a war); unemployment (0 = neither of the parents unemployed, 1 = one parent unemployed, 2 = both parents unemployed). CM = child maltreatment; WPC = witnessed parental conflict; P = past year; L = lifetime; SES = socioeconomic status. *p < .01.

Table 3.	Results of the	Logistic I	Regression	Models	Predicting	Sexual Abuse.
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	Sexu	al Abus	se Past \	Sexi	Sexual Abuse Lifetime			
	Na	gelkerk	$Re R^2 = .$	Na	Nagelkerke R ² = .05			
	В	SE	Þ	Odds Ratio	В	SE	Þ	Odds Ratio
Age	12	.09	.168	0.89	02	.06	.786	0.98
Gender	.68	.27	.011	1.98	.65	.19	.001	1.92*
Ethnic minority	.53	.37	.151	1.69	.55	.27	.046	1.73
Number of children in family	.48	.56	.392	1.62	.93	.42	.026	2.55
Single parent ^a	.59	.41	.146	1.81	.75	.29	.009	2.12*
Parental unemployment	.20	.23	.383	1.22	.24	.17	.153	1.27
Low social economic status	.02	.03	.459	1.02	.01	.02	.551	1.01
Father war veteran	10	.30	.727	0.90	17	.21	.406	0.84

Note. Gender (0 = girls, I = boys).

with emotional abuse during lifetime. Lower SES was associated with more past year witnessing parental conflicts and more lifetime sexual abuse, and with less emotional abuse both past year and lifetime.

Multivariate Associations Between Child and Family Factors and Maltreatment

The results of the logistic regression models predicting sexual abuse are described in detail in Table 3. Boys were more likely to have experienced sexual abuse during lifetime compared with girls, odds ratio (OR) = 1.92, 95% confidence interval (CI) = [1.32, 2.78]. Similarly, living in a single parent family was associated with a higher risk of experiencing lifetime sexual abuse (OR = 2.12, 95% CI = [1.20, 3.74]).

The odds of being physically abused, both in the past year and during lifetime, were higher for boys than for girls (Table 4; OR = 1.46, 95% CI = [1.13, 1.89], for past year; OR = 1.46, 95% CI = [1.20, 1.78], for lifetime). Furthermore, both past year and lifetime physical abuse were not associated with child age or any of the family factors.

aSingle parent families vs. two-parent families; we also conducted the logistic regression with single parent families versus all other families and the results are similar (sexual abuse past year: odds ratio = 2.06, p = .072; sexual abuse lifetime: odds ratio = 2.32, p = .003). p = 0.01.

	Physic	al Abu	se Past	Year	Physical Abuse Lifetime			
	Nag	gelkerk	e R ² =	.02	Nagelkerke R ² = .02			
	В	SE	Þ	Odds Ratio	В	SE	Þ	Odds Ratio
Age	07	.05	.122	0.93	.07	.04	.070	1.07
Gender	.38	.13	.003	1.46*	.38	.10	.000	1.46*
Ethnic minority	27	.22	.216	0.77	38	.17	.021	0.68
Number of children in family	.03	.31	.931	1.03	03	.25	.914	0.97
Single parenta	06	.24	.816	0.94	.03	.20	.875	1.03
Parental unemployment	.01	.15	.969	1.01	02	.12	.862	0.98
Low social economic status	01	.01	.398	0.99	.00	.01	.840	1.00
Father war veteran	.01	.15	.944	1.01	02	.12	.861	0.98

Table 4. Results of the Logistic Regression Models Predicting Physical Abuse.

Note. Gender (0 = girls, I = boys).

Regarding emotional abuse, child age was the only child characteristic that was significantly related to emotional abuse (Table 5). The odds of emotional abuse during lifetime increased with age (OR = 1.12, 95% CI = [1.04, 1.22]). With respect to family factors, lower SES was significantly associated with less emotional abuse in the past year (OR = 0.96, 95% CI = [0.94, 0.98]) and parental unemployment was related with less emotional abuse during lifetime (OR = 0.72, 95% CI = [0.57, 0.91]).

The logistic regression analysis predicting witnessing parental conflicts showed that child age was the only child factor that was positively associated with lifetime experience of witnessing parental conflicts (Table 6; OR= 1.14, 95% CI = [1.05, 1.23]). Among the family factors, the odds of witnessing parental conflicts were higher for past year experiences (OR = 3.45, 95% CI = [2.29, 5.22]) and for lifetime experiences among children living in single parent families (OR = 2.51, 95% CI = [1.70, 3.71]).

For lifetime experience of neglect, the regression analysis only showed an effect of living situation (Table 7). Children living in single parent families were more likely to experience neglect (OR = 2.09, 95% CI = [1.42, 3.10]). None of the child factors and other family factors were associated with neglect.

Finally, the number of child maltreatment types that children experienced during lifetime increased with age (Table 8). In addition, controlling for other

^{*}Single parent families vs. two-parent families; we also conducted the logistic regression with single parent versus all other families and the results are similar (physical abuse past year: odds ratio = 1.04, p = .872; physical abuse lifetime: odds ratio = 1.14, p = .528). *p < .01.

Table 5. Results of the Logistic Regression Models Predicting Emotional Abuse.

	Emo	Abuse ear	Past	Emotional Abuse Lifetime Nagelkerke R ² = .02				
	Nag	ke R ² =	.02					
	В	SE	Þ	Odds Ratio	В	SE	Þ	Odds Ratio
Age	.08	.04	.037	1.09	.12	.04	.002	1.12*
Gender	.07	.11	.520	1.07	24	.10	.019	0.78
Ethnic minority	.24	.17	.143	1.28	.01	.16	.938	1.01
Number of children in family	05	.27	.861	0.95	12	.25	.632	0.89
Single parenta	18	.21	.399	0.83	16	.20	.424	0.85
Parental unemployment	19	.13	.147	0.82	33	.12	.004	0.72*
Low social economic status	04	.01	.004	0.96*	02	.01	.074	0.98
Father war veteran	12	.13	.328	0.88	03	.12	.807	0.97

Note. Gender (0 = girls, I = boys).

family and child factors, living in a single parent family was associated with experiencing more types of child maltreatment during lifetime and the past year (but only when comparing with living in any other type of family). Figure 1 summarizes the results of all child and family risk factors associated with the different types of child maltreatment.

Discussion

This study examined the association between all specific types of child maltreatment and proximal risk factors in Vietnam. Results indicated that child gender and age were child factors related to several types of child maltreatment. In addition, living in a single parent family was the most frequent family factor associated with child maltreatment, followed by low SES and parental unemployment. In contrast, child ethnicity, the number of children in the family, and war veteran status of the father were not associated with any type of child maltreatment when potential confounders were controlled for.

Specifically, controlling for the other factors, age (12-17 years) was the child factor that was most frequently associated with child maltreatment. The likelihood of emotional abuse, witnessing parental conflict, and multiple

aSingle parent families vs. two-parent families; we also conducted the logistic regression with single parent versus all other families and the results are similar (emotional abuse past year: odds ratio = 0.85, p = .444; emotional abuse lifetime: odds ratio = 0.83, p = .363). *b < .01.

Table 6.	Results of the Logistic Regression Models Predicting Witnessing Parental
Conflict.	

			d Parer Past Ye		Witnessed Parental Conflicts Lifetime Nagelkerke R ² = .04			
	Nag	gelkerk	$Re R^2 =$.05				
	В	SE	Þ	Odds Ratio	В	SE	Þ	Odds Ratio
Age	.06	.05	.282	1.06	.13	.04	.003	1.14*
Gender	11	.14	.450	0.90	10	.12	.403	0.91
Ethnic minority	09	.21	.679	0.92	21	.18	.262	18.0
Number of children in family	37	.36	.313	0.69	.02	.30	.951	1.02
Single parent ^a	1.24	.21	.000	3.45*	.92	.20	.000	2.51*
Parental unemployment	14	.17	.428	0.87	11	.14	.427	0.89
Low social economic status	.03	.02	.119	1.03	.02	.01	.075	1.02
Father war veteran	.15	.17	.395	1.16	09	.14	.539	0.92

Note. Gender (0 = girls, I = boys).

Table 7. Results of the Logistic Regression Models Predicting Neglect.

	Neglect Lifetime Nagelkerke $R^2 = .02$							
Variable	В	SE	Þ	Odds Ratio				
Age	02	.04	.637	0.98				
Gender	23	.12	.050	0.80				
Ethnic minority	18	.18	.319	0.83				
Number of children in family	.22	.29	.431	1.25				
Single parent ^a	.74	.20	.000	2.09*				
Parental unemployment	.17	.13	.190	1.18				
Low social economic status	.01	.01	.270	1.01				
Father war veteran	08	.14	.591	0.93				

Note. Gender (0 = girls, 1 = boys).

^aSingle parent families vs. two-parent families; we also conducted the logistic regression with single parent families versus all other families and the results are similar (witnessed parental conflicts past year: odds ratio = 3.87, p = .00; witnessed parental conflicts lifetime: odds ratio = 2.78, p = .00).

^{*}p < .01.

^aSingle parent families vs. two-parent families; we also conducted the logistic regression with single parent families versus all other families and the results are similar (odds ratio = 2.21 and p = .000).

^{*}p < .01.

Table 8. Results of the Regression Models Predicting Number of Maltreatment Types.

	Number o Child Malt Past	reatment	Number of Types o Child Maltreatment Lifetime $R^2 = .02$		
	$R^2 =$.01			
	β	Þ	β	Þ	
Age	.01	.719	.06	.003*	
Gender	.10	.028	.03	.582	
Ethnic minority	.04	.581	10	.275	
Number of children in family	02	.881	.10	.473	
Single parent ^a	.21	.017	.40	.000*	
Parental unemployment	04	.473	04	.509	
Low social economic status	01	.315	.00	.713	
Father war veteran	02	.777	06	.412	

Note.Gender (0 = girls, I = boys).

types of child maltreatment experience during lifetime increased with age, but we did not find significant associations between age and past year experience of any type of child maltreatment. A possible explanation for this is that as children grow older, they have had more experiences in general and possibly also more experiences of child maltreatment.

In our study, child gender was also frequently related to child maltreatment. Boys were at higher risk than girls for sexual abuse during lifetime and physical abuse during past year and lifetime, similar to the finding in a meta-analysis on child sexual abuse in China (Ji et al., 2013). It could be that sexual abuse among boys in the East Asian culture is indeed higher than that among girls. However, the taboo for girls to lose virginity before marriage in the East Asia culture, to some extent, may induce reluctance to report sexual abuse among girls. More studies on child sexual abuse in East Asia could clarify this concern. The finding that boys were at higher risk of physical abuse than girls was inconsistent with the meta-analysis of Stith et al. (2009) with studies available internationally on risk factors in child maltreatment which showed child gender not related to physical abuse. However, research on child maltreatment is mostly conducted in high-income countries, rather than in limited resource

^aSingle parent families vs. two-parent families; we also conducted the logistic regression with single parent families versus all other families. And the results are similar for number of types of child maltreatment lifetime: unstandardized β = .47, p = .000. For number of types of child maltreatment past year, single parents became significant: unstandardized β = .27, p = .004. *p < .01.

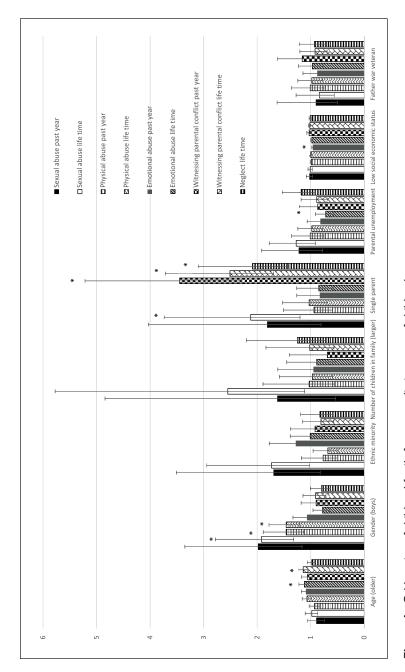


Figure 1. Odds ratios of child and family factors predicting types of child maltreatment. *p < .01.

contexts (Mikton & Butchart, 2009). In Vietnam and other similar East Asian cultures, there is a saying "Spare the rod, spoil the child." In addition, boys are generally preferred to girls (Guilmoto, 2012), so the harsher behaviors of parents with boys might express their greater focus on boys.

Among family factors, living in a single parent family was related to more sexual abuse, neglect, and the number of types of child maltreatment experience during lifetime, and witnessing parental conflict during both past year and lifetime. The finding that living in a single parent family increased the risk of sexual abuse during lifetime is in line with a review of studies based on U.S. samples (Black, Heyman, & Smith Slep, 2001). There might be a lack of adequate supervision of children in single parent families, which may provide more opportunities for perpetrators to sexually abuse children. The result that living in single parent families was a significant risk factor of witnessing parental conflict was in line with the finding of a study about intimate partner violence in Vietnam indicating that conflicts still occurred after a separation or divorce (Jansen et al., 2016). Perhaps a considerable part of single parenthood in our sample concerned separated or divorced parents, or parents in the process of a separation, which would increase the risk of witnessing parental conflicts. Regarding neglect, it is interesting that neither socioeconomic nor employment status predicted neglect experiences, but living situation played an important role. The overload single parents may experience from taking care of the household, providing family income, and being responsible for their child's education, physical, and emotional needs on their own, and may increase the likelihood of child neglect. This finding is partly consistent with a meta-analysis that found that in addition to unemployment, large family size, and low SES, single parenthood was related to neglect (Stith et al., 2009). However, only univariate associations were addressed in this meta-analysis.

SES and parental employment status were only associated with emotional abuse experience. In contrast with previous literature that low SES is a risk factor for emotional abuse (Black, Smith Slep, & Heyman, 2001), we found that low SES and parental unemployment *lowered* the likelihood of experiencing emotional abuse in the past year and during lifetime, respectively, although the effect for SES in particular was very small. In our previous article on the consequences of child maltreatment, we also found that emotional abuse was associated with better academic performance (Tran, van Berkel, et al., 2017). The practice of "Tiger parenting" may play a role in this discrepancy (Chua, 2011). This parenting style, which favors harsh discipline and puts pressure on children to achieve high academic results and gain honor for the family, has been found to be common in Asian families (Kim et al., 2013; Nguyen et al., 2014) and may be reflected in experiences of emotional

abuse. Parents with low SES or unemployment may put lower expectations of academic performance on their children than parents with higher SES or better employment status, so their children may report fewer emotional abuse experiences. This phenomenon, its risk factors, and consequences need more exploration in future research.

Some of the discrepancies between our findings and those from previous meta-analyses and reviews could be explained by the difference in societies and cultures. Most of the previous studies were conducted in Western high-income countries, where there may be better social programs, a larger and more skilled social service workforce, and less harsh discipline acceptance than in a limited resource country such as Vietnam. Another explanation could be that in many previous studies, risk factors were examined independently from other factors, so it was impossible to control for the effects of other factors. In the current study, we tested multivariate effects of risk factors, thus controlling for the other risk factors.

Some limitations should be mentioned. First, this is a cross-sectional study, so the chronological order between child and family factors and child maltreatment could not be specified. Nevertheless, the chronological order is obvious for some factors including gender, age, ethnicity, and war experiences of fathers. Even in case the chronological order is unclear, knowledge on associations between these factors and child maltreatment is still valuable for designing targeted intervention programs. Second, this study was conducted in Northern Vietnam only, although there is no clear evidence on differences in parenting practice between the North and the South, we should be cautious in generalizing these findings to the whole country. Third, the Emotional Abuse scale and the measure for war veteran status of fathers are based on only one single item, which limits the validity of these measures. However, a meta-analysis about emotional abuse by Stoltenborgh et al. did not find an association between the number of items (from 1 to 20 items) for the emotional abuse scale and the prevalence of emotional abuse (Stoltenborgh, Bakermans-Kranenburg, Alink, & van IJzendoorn, 2012). A more extensive and detailed measure on traumatic war experiences administered directly to fathers could make it possible to examine the association between war experience and child maltreatment better. In addition, other factors such as social cohesion among soldiers or social support after the war could be taken into account as possible protective factors.

In sum, among all explored factors, single parenthood was associated with most types of child maltreatment including sexual abuse, witnessing parental conflict, neglect, and multiple types of child maltreatment. Therefore, single parent families should be a prioritized target population in prevention/early intervention programs. The next factor most frequently associated with child

maltreatment was child age. Lifetime maltreatment experiences increased with age. This confirms the advantage of early intervention on child maltreatment, so additional maltreatment experiences can be prevented. Our findings also show that boys were at higher risk of experiencing sexual abuse and physical abuse than girls. More studies on these differences and on whether they are specific to East Asian cultures could clarify the underlying mechanisms so that intervention programs for these types of child maltreatment could become gender specific, and therefore better adjusted to the specific problems for boys and girls. Last but not least, more studies on emotional abuse and "Tiger parenting" in Vietnam could clarify the association of emotional abuse with high SES and parental employment.

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