TURIZAM Volume 23, Issue 2 107–119 (2019) ORIGINAL SCIENTIFIC PAPER

Tourism, Personality, and Risky Behaviors among Ukrainian Adolescents

Nicholas Hryhorczuk^A, Alexander Zvinchuk^B, Zoreslava Shkiriak-Nyzhnyk^B, Liudmyla Slobodchenko^B, Alla Matsola^B, Daniel Hryhorczuk^C

Received: February 2019 | Accepted: August 2019 DOI: 10.5937/turizam23-21982

Abstract

The aim of this paper was to determine whether engagement in tourism is associated with risky behaviors among Ukrainian adolescents. The study sample consisted of 1075 adolescents who were enrolled in the "Family and Children of Ukraine" birth cohort study. They self reported how they prefer to spend their leisure time as well as their smoking, drinking, and sexual behaviors. The adolescents also completed the revised Eysenck Personality Inventory (EPI). Engagement in tourism was not associated with smoking or alcohol use. It was associated with ever having had sexual relations (OR=1.63; p=0.022) and with having had recent sexual relations (OR=1.67; p=0.037). These associations were stronger for males than females. Adolescents who had ever had sexual relations and those who had recent sexual relations had significantly higher extraversion scores on the EPI than adolescents who had not (18.16 vs 16.65; p=0.002 and 18.45 vs 16.72; p = 0.002, respectively). In multivariable analyses, ever having sexual relations and having recent sexual relations were significantly associated with male gender, age, and marginally associated with extraversion, but not with tourism. The authors conclude that among Ukrainian adolescents, the association between engagement in tourism and sexual behavior is mediated by personality, specifically higher extraversion.

Keywords: Tourism, Personality, Adolescents, Risky Behavior

Introduction

The Choice of leisure activity is important to adolescent development. Participation in leisure activities has been associated with higher academic achievement, adolescent identity, and autonomy development (Caldwell, Faulk, 2013; Coatsworth et al., 2006; Eccles et al., 2003). Cohen (1974) identified tourism as a special form of leisure that is associated with pleasure, novelty, change, voluntariness, and non instrumentality. Adolescence is also the stage in devel-

^A Department of Family and Consumer Sciences, College of Health and Human Sciences, DeKalb USA

^B Institute of Pediatrics, Obstetrics, and Gynecology; Kyiv, Ukraine

^c Center for Global Health, University of Illinois College of Medicine, Chicago, USA

^{*} Corresponding author: nhryhorczuk@niu.edu

opment when children begin to experiment with risky behaviors such as alcohol, smoking, and initiation of sexual relations. Travel removes social mores in place at home, and is often associated with risk-taking behavior including alcohol, drugs, and sexual contact (Rogstad, 2018). The aim of this paper is to investigate whether engagement in tourism by adolescents from Kamianske, Ukraine increases their risk of alcohol use, smoking, and having sexual relations.

Tourism accounted for 1.5% of GDP in Ukraine in 2017 ("Tourism accounts for 1.5% of Ukraine's GDP in 2017 – Economic Development Ministry," 2018). Ukraine experienced a dramatic change in the organization of tourism opportunities and services after gaining independence in 1991. Prior to this date, there was a state monopoly in the tourism industry of the former Soviet Union (Mazaraki, Voronova, 1994). During the Soviet period, domestic tourism, including youth and children tourism was widespread (Akhmedova, 2017). After independence, state and local government support of institutions and activities in the tourism sector were reduced to a minimum. In addition, youth and children tourism is hampered by a number of negative factors which include: limited spectrum of tourism products, insufficient development of recreation and rehabilitation services, high prices, economic and political instability, limited information about the various possibilities of tourism for the mass consumer and insufficient representation of the experience, qualified personnel who can work with children. (Akhmedova, 2017). Hryhorczuk et al. (2019) observed that among adolescents in Kamianske, tourism is the least popular way for them to spend their leisure time. Despite these obstacles the World Council of Tourism and Travel predicts that the tourist market of Ukraine is going to flourish during the next 10 years (Akhmedova, 2017). The issuance of visa-free travel has increased the ease of Ukrainian tourists traveling abroad. Understanding the opportunities and obstacles for youth tourism in Ukraine is especially relevant, as this is the next generation of domestic and international tourists (Nikitenko, 2006). Perceptions that tourism is associated with risky behaviors could further impede the development of youth tourism.

In Ukraine, as in other European countries, the prevalence of weekly smoking among 15-year-olds decreased from 2002 to 2014, from 44.7% to 14.9% for boys and from 21.4% to 8.8% for girls (Mazur et al., 2016). In the WHO Framework Convention on Tobacco Control surveys completed between 2005 and 2012, factors associated with increased overall prevalence of smoking included older age, rural residence, being married, lower education, lower socioeconomic status, and occupation (Sreeramareddy, Pradhan, 2015). Palipudi et al. (2012) analyzed data from the Global Adult Tobacco Survey that was administered in Ukraine between 2008 and 2010. Risk factors for current tobacco use in adults age 15 years and above included being male, increasing age, lower socioeconomic status, and little knowledge of smoking. Sreeramareddy and Pradham (2015) analyzed data from the Demographic and Health Survey of the WHO Framework for Convention on Tobacco Control conducted in Ukraine in 2007 and found that risk factors for current smoking included age, urban versus rural residence, marital status, education, socioeconomic status, and occupation. Rahman et al. (2018) studied the influence of belief- and school-related factors among adolescents ages 13-15 in six European countries including Ukraine. Using data from the 2011 Global Youth Tobacco Survey, they found that among Ukrainian adolescents, factors that increased current smoking included older age, seeing a teacher smoke, peer influence, exposure to secondhand smoke in public places, involvement in tobacco brand promotions, and obtaining free cigarette samples. Smoking initiation by young people constitutes one of the main challenges for tobacco control (Andreeva et al., 2007). Webb et al. (2007) found that smoking initiation in Ukraine occurred primarily during the teenage years. Intervention at a young age is therefore important in combatting smoking dependence among this population.

Alcohol use tends to emerge during adolescent years, and early adolescent alcohol use has been linked to harmful social and behavioral function throughout adolescence and into adulthood. Observations from the Health Behavior in School-aged Children (HBSC) WHO collaborative cross-national study indicate that in 2014, 17% of boys and 10% of girls age 15 years drank alcohol weekly (WHO, 2018). While the prevalence has decreased significantly since 2002, use of alcohol by adolescents remains a serious health problem in Ukraine. Numerous risk factors have been associated with alcohol abuse in adolescents (Hawkins, 1992). Contextual factors, such as laws and cultural norms; availability; socioeconomic situation; and neighborhood disorganization. Individual and interpersonal factors include sensation seeking; genetics; family behavior, attitudes and conflicts (Sumskas, Zaborskis, 2017); low commitment to school; peer rejection; alienation and rebelliousness; and association with substance-abusing peers. Observations from the Health Behavior in School-aged Children (HBSC) WHO collaborative cross-national study indicate that in 2014, 17% of boys and 10% of girls age 15 years drank alcohol weekly (WHO, 2018). While the prevalence has decreased significantly since 2002, use of alcohol by adolescents remains a serious health problem in Ukraine.

Early initiation of sexual relations is yet another risk factor that warrants attention. Ukraine has the second largest HIV epidemic in eastern Europe and addressing safe sex practices among adolescents is critically important. Krauss et al. (2012) found that among Ukrainian youth ages 1-19 years (mean age of 15.9 years), 35.9% had sexual initiation. The mean age of initiation was 16.6 years for boys and 15.6 years for girls. Only 37.2% had used contraception methods. The most common source of sexual knowledge was television/internet and friends while parents were the least common source of information. Younger age at first sex has also been associated with multiple partnership and non-condom use (Pylypchuk, Marston, 2009). Unsupervised travel may offer adolescents opportunities to engage in unsafe sex practices.

Engagement in tourism and engagement in risky behaviors may be mediated through similar personality traits. The main personality scales that have been previously applied to tourism research include the Eysenck personality scales, the Plog psychocentric/allocentric scale, and Zuckerman's sensation seeking scale. Plog's (1972) original model matched people and places with their psychographic characteristics which jumpstarted the merger between psychology and tourism research. Plog categorized tourists on an allocentric/psychocentric scale. According to Plog, allocentrics prefer less developed destinations and independent vacations, while psychocentrics prefer to travel with groups to more developed destinations. In addition to Plog's model, Zuckerman's (1979) Sensation Seeking Scale (SSS) is also widely applied to tourism research. For example, the SS has been tested by Wang et al. (1998) in China, Roth et al. (2005) in Germany, and Li et al. (2015) in Taiwan. Sensation seeking is a personality trait that has been linked to participation in a variety of stimulating events (Litvin, 2008), including tourist choice. In testing the relationship between risk taking, sensation seeking, and tourist behavior, Pizam et al. (2004) found that risk taking and sensation seeking had a significant effect on travel choices and behaviors. In psychology research, risk taking and sensation seeking have been tied to Eysenck's (1990) Extraversion score which were used in our study.

Extraversion and sensation seeking have also been associated with increased engagement in risky behaviors. Schmitt (2004), who sampled 16362 participants from 52 nations, showed that higher levels of extraversion were generally associated with increased risky behavior. Donohew et al. (1998), who sampled 2949 ninth grade students, showed a strong connection between sensation seeking and risky behavior. Hoyle et al. (2000) showed sensation seeking to be positively correlated with all categories of sexual risk taking. Miller et al. (2004), who used a longitudinal study showed that high extraversion was significantly related to risky sexual behavior. Others have also observed that the association between extraversion/sensation seeking and risky behaviors are stronger for males than for females. Greene et al. (2000) showed that males are generally more sensation seeking than females. Horvath and Zuckerman (1993) found a correlation between sensation seeking and risky behavior but only in males. Josiam et al. (1998) showed higher levels of sexual risk taking among males than females. In a meta analysis of 137 studies, extraversion was positively related to sexual activity and risky sexual behavior with age and gender as moderators of effects.

Several studies have focused on the effects of various types of leisure activities on risky behaviors. Most have focused on the benefits of structured, as opposed to unstructured leisure activities (Caldwell, Faulk, 2013). Several investigators have shown that adolescents who participate in structured leisure activities are less antisocial and less likely to smoke, use marijuana, or other drugs (Mahoney, 2000; Zaff et al., 2003; Sinha et al., 2007). Bartko and Eccles (2003) observed higher levels of academic achievement among adolescents who participate in structured leisure activities. On the other hand, Kleiber (1999) and Elkins (2003), have high-lighted the benefits of unstructured activity, arguing that balance among activities provides a variety of benefits such as opportunities for self-expression, destressing, and creativity.

Fewer studies have focused on the direct associations between tourism and risky behaviors. Tourism can be structured, such as group excursions, or unstructured, such as camping. Engagement in certain types of tourism has been associated with risky behaviors, such as sexual activity in leisure travel contexts (Berdychevsky et al., 2013). Ours is one of the first studies, to our knowledge, to look at engagement in tourism and risky behaviors among a birth cohort of Ukrainian adolescents. We hypothesize that engagement in tourism in our adolescents will be associated with risky behaviors, such as smoking, alcohol, and sexual behavior, and that these effects may be mediated, in part, through personality type.

Methods

Study Sample

The study sample consisted of 1075 adolescents and their mothers/caregivers from Kaminaske (formerly known as Dniprodzerzhinsk) who were enrolled in the *Family and Children of Ukraine* (FCOU) birth cohort study and who had also completed the FCOU 3 years of age assessment. The FCOU study is the Ukrainian component of the *European Longitudinal Study of Pregnancy and Childhood* (ELSPAC). For this subcohort, the authors originally recruited all pregnant women from the city of Kamianske from December 1992 to June 1994, and 2156 chose to participate. A total of 1467 completed the 3 years of age assessment and of these 1075 children completed the 18 years of age assessment that was used for the current survey.

Survey Instruments

FCOU mothers/caregivers completed self administered questionnaires at the time of pregnancy, at birth, child's 6 months of age, 3 years of age, and 7 years of age. In 2011 the authors administered the 18 years of age ELSPAC questionnaires to the 1075 adolescents and their mothers/caregivers in the current study. The self administered questionnaires were constructed by researchers from the Institute of Pediatrics, Obstetrics, and Gynecology in Kyiv and the University of Illinois School of Public Health on the basis of similar survey instruments prepared for two other ELSPAC study sites: Avon, UK (the ALSPAC study) and Brno, Czech Republic (current ELSPAC coordinating center). All study instruments were translated from English into Ukrainian and/or Russian and reverse translated into English. The questionnaire data were entered and coded by the Louise Hamilton UIC Data Management Center in Kyiv, Ukraine. Data on parental age and socioeconomic status were taken from the parental questionnaire. The remainder of the data were taken from the adolescents' questionnaire.

Adolescents were asked the question: "How do you spend your free time?" Adolescents who responded that they engage in tourism frequently or sometimes were compared to adolescents who said that they never engage in tourism. In addition to the ELSPAC questionnaires, the revised Eysenck Personality Inventory (Eysenck, Eysenck, 1990, modified by Matolin, 1998) was used to measure neuroticism and extraversion. Eighty six percent of respondents completed the Ukrainian/Russian version of the questionnaire that included 24 items related to extraversion and 24 related to neuroticism.

Statistical Analysis

The Tourism (Often and Sometimes) and No Tourism (never) groups were compared on smoking, alcohol use, and sexual behavior using Chi square tests. Risky behaviors for smoking, alcohol, and engagement in sex were categorized as "ever engaged in that behavior" and, among those engaged, whether they had engaged in that behavior recently (i.e.in the last 30 days). The authors calculated the relative odds with 95% confidence intervals of engagement in tourism with each of the risky behavior variables. Analyses of tourism and sexual behavior was stratified on gender and compared using the Mantel Haenszel test. The Breslow Day test was used to test for interaction. Extraversion and neuroticism scores for the tourism and sexual behavior groups were compared using t tests. The relationship between sexual behavior and engagement in tourism was analyzed using multiple logistic regression after adjusting for age, gender, and extraversion score.

This study was approved by the IRB at the University of Illinois at Chicago and the Institute of Pediatrics, Obstetrics, and Gynecology in Kyiv, Ukraine.

Results

The characteristics of the study sample are presented in Table 1. The adolescents had a mean age of 16.2 (range 15.1 to 18.2) and 50.5% were male. Their mother's/caregivers had a mean age of 40.6 and father's a mean age of 43.0. 307 (28.6%) reported that they engaged in tourism often or sometimes during their free time, 578 (53.8%) reported that they never engaged in tourism, and responses for 190 (17.7%) were missing. Sixty seven percent of the study sample had ever drunk alcohol and 35.6% had used alcohol in the past 30 days. 49.6% had ever smoked, and 35.6% had smoked in the past 30 days. 12.5% ever had sex and 8.7% sex within the past 30 days.

	n	%	Mean	Range Min-Max	SD
Child's Age	1075		16.2	15.1;18.2	0.47
Mother's Age	1075		40.6	32.3;58.8	5.00
Father/Partner's Age	784		43.0	33.2;65.4	5.40
Gender	·				
Male	543	50.5			
Female	532	49.5			
Socioeconomic Status	·				
Above average	464	43.2]		
Average or below	594	55.3			
Missing	17	1.6			
Engage in Tourism	·				
Often or Sometimes	307	28.6	1		
Never	578	53.8			
Missing	190	17.7	1		
Ever drank alcohol					
Yes	725	67.4]		
No	264	24.6			
Missing	86	8.0			
Used alcohol in past 30 days	· ·				
Yes	383	35.6]		
No	532	49.5	1		
Missing	160	14.9]		
Ever smoked	·				
Yes	533	49.6	1		
No	507	47.2			
Missing	35	3.3	1		
Smoked in past 30 days	I				
Yes	383	35.6	1		
No	532	49.5			
Missing	160	14.9	1		
Ever had sexual relations					
Yes	134	12.5]		
No	521	48.5	1		
Missing	420	39.0			
Had sexual relations in past 30 days					
Yes	94	8.7]		
No	556	51.7			
Missing	425	39.5]		

Table 2 presents the relative odds of risky behaviors with engagement in tourism. Engagement in tourism was not associated with smoking or alcohol use. Engagement in tourism was significantly associated with ever having had sexual relations (OR=1.63; p=0.022) and with having had recent sexual relations (OR=1.67; p=0.037).

	Relative Odds	95% Confidence Interval	P value			
Smoking						
Ever Smoked	0.80	0.60-1.05	0.109			
Smoked in Past 30 Days	1.06	0.75-1.51	0.731			
Alcohol						
Ever Drank Alcohol	1.038	0.741-1.454	0.864			
Drank Alcohol in Past 30 Days	0.900	0.668-1.213	0.496			
Sexual Relations						
Ever Had Sexual Relations	1.63	1.07-2.48	0.022			
Had Sexual Relations in Past 30 Days	1.67	1.03-2.72	0.037			

Table 2. Engagement in Tourism and Relative Odds of Risky Behaviors

Table 3 presents the relative odds of ever having had sex and had sex within the past 30 days with engagement in tourism stratified by gender. Boys who engaged in tourism had significantly higher relative odds of ever having had sexual relations than those who had not, while the relative odds for girls was not significantly elevated. The Breslow Day test for interaction by gender was not significant (p = 0.164), and the Mantel Haenszel gender adjusted odds ratio of 1.59 was significantly elevated ($OR_{adj} = 1.59$; p = 0.044). Boys who engaged in tourism were also more likely to have had sex in the past 30 days, though this odds ratio was only borderline statistically significant. The Breslow Day statistic for interaction between gender, tourism engagement, and sex in the past 30 days was not statistically significant (p=0.539), and the Mantel Haenszel gender adjusted odds ratio was elevated ($OR_{adj}=1.62$) but only borderline statistically significant.

	Relative Odds	95% Confidence Interval	P value		
Ever had sexual relations					
Boys	1.516	1.113-2.066	0.011		
Girls	1.070	0.698-1.639	0.759		
Total	1.343	1.056-1.708	0.022		
Mantel-Haenszel Gender-Adjusted Odds Ratio	1.588	1.037-2.433	0.044		
Had sexual relations in past 30 days					
Boys	1.409	1.009-1.967	0.057		
Girls	1.187	0.714-1.973	0.525		
Total	1.358	1.037-1.779	0.037		
Mantel-Haenszel Gender-Adjusted Odds Ratio	1.620	0.986-2.663	0.076		

Table 3. Relative odds of sexual behavior with engagement in tourism stratified by gender.

The mean age for first sexual relations for adolescents who engaged in tourism was lower than those who did not engage in tourism (14.75 vs 15.9 years) and this difference was border-line statistically significant (p=0.058) using the t test. Table 4 presents the mean scores on

the Eysenck Personality Scales by adolescent behavior. Engagement in tourism was positively and significantly associated associated with higher extraversion scores and lower neuroticism scores. The Cronbach's alpha statistics for the questionnaire used in our study was 0.541 for extraversion and 0.845 for neuroticism. Both ever had sexual relations and recent sexual relations was positively and significantly associated with higher extraversion scores, while there were no significant differences for neuroticism scores.

Behavior	Yes	No	Difference	P value t test		
Extraversion Score	Extraversion Score					
Engage in Tourism	18.29	16.76	1.53	<0.001		
Ever Had Sexual Relations	18.16	16.65	1.51	0.002		
Had Sexual Relations in Past 30 Days	18.45	16.72	1.73	0.002		
Neuroticism Score						
Engage in Tourism	11.65	13.16	-1.51	0.002		
Ever Had Sexual Relations	13.30	12.44	0.86	0.162		
Had Sexual Relations in Past 30 Days	12.81	12.54	0.27	0.712		

Table 4. Mean scores on Eysenck Personality Scales by Behavior

Tables 5 and 6 present the results of multiple logistic regression analyses of predictors of ever having had sexual relations and recent sexual relations. Ever having had sexual relations was significantly associated with older age and being male and marginally associated with extraversion score but not with engagement in tourism. Similarly, having had recent sexual relations was again associated with older age and being male and marginally associated with extraversion score but not with engagement in tourism.

Variable	В	SE	Exp(B)	P value
Constant	-15.616	3.774		0.000
Age in years	0.818	0.234	2.267	0.000
Gender	0.616	0.267	1.853	0.021
Engage in tourism	0.402	0.277	1.496	0.147
Extraversion score	0.067	0.036	1.070	0.064

Table 5. Multivariable Logistic Regression of Factors Related to Ever Had Sexual Relations

Table 6. Multivariable Logistic Regression of Factors Related to Having Recent Sexual Relations

Variable	В	SE	Exp(B)	P value
Constant	-18.990	4.603		0.000
Age in years	0.969	0.285	2.635	0.001
Gender	0.728	0.320	2.071	0.023
Engage in tourism	0.368	0.327	1.445	0.260
Extraversion score	0.086	0.045	1.090	0.056

Discussion

In this study sample of Ukrainian adolescents, the authors observed that those who choose to engage in tourism as a leisure activity were significantly more likely to have ever had sex and to have had sex within the past 30 days than those who never engage in tourism. These associations were stronger for boys, than for girls. Other risky behaviors, including alcohol use and smoking, were not associated with engagement in tourism. When the authors looked at personality as a possible mediator of these associations, extraversion was a significant predictor of sexual behavior. Once these associations were adjusted for age, gender, and extraversion, tourism was no longer associated with ever having sex or having had sex within the past 30 days.

Age, gender, and extraversion are known risk factors for initiation of sexual behavior. Sexual initiation is associated with age and pubertal development (Goodson et al., 1997). The median age of initiating sexual intercourse among adolescent men averages about one year earlier than women (Santelli, Beilenson, 1992). Extraversion has also been shown to be positively related to sexual activity and risky sexual behavior in previous studies (Hoyle et al., 2000; Miller, 2004; Allen et al., 2018). It is not surprising that these variables also predict sexual behavior in our sample of adolescents.

Our lack of finding direct associations between engagement in tourism as a leisure activity and risky behaviors is encouraging, since tourism offers numerous benefits to adolescents. Akhmedova (2017) highlights the many benefits for Ukrainian adolescents. These include harmonious development of personality, cultural level expansion, social maturity, intellectual and physical training, and preparation for working life activities.

The major limitations of our study are lack of specificity on type of tourism engagement, a high non response rate for certain risky behavior questions and use of an earlier version of the Eysenck Personality Inventory that was adopted for use by Russian speaking populations. The authors asked adolescents to self report how they spend their leisure time with tourism being one of the choices. The United Nations World Tourism Organization defines tourism broadly as follows: "Tourism comprises the activities of persons traveling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business and other purposes." This all encompassing definition of tourism is consistent with our survey. Engagement in tourism may mean something different to Ukrainian adolescents then to adolescents from other parts of the world. For example, camping and hiking outside one's city are considered to be tourism behaviors. Tourism can take many forms, such as sports tourism, heritage tourism, and ecotourism to name just a few. The authors were also not able to differentiate between structured or unstructured tourist activities. As has been shown in the leisure literature, risks can vary depending on whether activities are structured or unstructured (Mahoney, 2000; Zaff et al., 2003; Sinha et al., 2007). It is also unclear from our study as to who makes the decision to engage in tourism, the child or the parent. Blichfeldt et al. (2010) in their interviews with Danish teenagers found that they were experienced tourists, were very active during upfront decision-making, and had a say in family destination choice. While similar research has not yet been conducted in Ukraine, it is reasonable to assume that teenagers have a choice in the types of leisure activities they pursue and that personality would affect these choices.

While there were high non response rates for some of our sensitive risky behavior questions, the results, among our respondents, are consistent with much of the previous literature. Finally, the authors also used an earlier version of the Eysenck Personality Inventory compared to more recent revisions. This version of the EPI was included in our FCOU study by Ukrainian adolescent psychologists because it was still in wide clinical use at the time of our survey. The internal consistency of this questionnaire ranged from poor for extraversion to acceptable for neuroticism. Despite the shortcomings of this instrument, the findings on the associations of extraversion with tourism and sexual behavior are consistent with those of other studies.

This study contributes to the literature on engagement in tourism, risky behavior and personality by adding a cohort of Ukrainian adolescents, a population that is generally under represented in tourism research. While engagement in tourism theoretically offers opportunities for engagement in sexual activity for adolescents, the authors found that engagement in tourism was not a predictor of sexual behavior after adjusting for age, gender, and extraversion. While our present study is a cross sectional assessment of personality, risk taking, and tourism behavior in adolescents, the longitudinal birth cohort design allows for future analyses on factors associated with tourism choices and risky behaviors. Youth tourism in Ukraine is an understudied area of tourism research. Moreover, tourism is one of the least popular leisure time activities among Ukrainian adolescents. Ukraine ranks well below other eastern European countries in the development of its tourism industry. Given that Ukrainian youth are the next generation of domestic tourists, additional studies are needed to identify their motivations and obstacles for engaging in tourism as a leisure time activity.

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