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Title: A matched case-control study of socioeconomic and lifestyle factors associated with HPV infection among pregnant women

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Abstract: (Minimum 250 words Maximum 450 words)

Background: Human papillomavirus (HPV) infection plays key role in the development of cervical cancer. The prevalence of HPV infection is increasing in China, but the socioeconomic and lifestyle factors associated with HPV infection in pregnant Chinese women have not been systematically analyzed. The purpose of this study is to investigate the relationship between socioeconomic/lifestyle factors and HPV infection among pregnant Chinese women in Beijing. The study hypotheses are: (1) when compared to pregnant women without HPV, pregnant women with HPV infection are more likely to be in the lower socioeconomic status (SES) as measured by education, occupation and household income; (2) when compared to pregnant women without HPV, pregnant women with HPV infection are more likely to choose unhealthy lifestyles as measured by tobacco smoking, alcohol consumption, and physical inactivity. Methods: In this age matched case-control study, we examined the effect of socioeconomic and lifestyle factors on 66 pregnant women (HPV positive) and 132 pregnant women (HPV negative) in two hospitals in Beijing. Results: Our data suggest that alcohol consumption during pregnancy is the strongest significant factor associated with HPV infection in Chinese women. There were no statistical differences observed in any of the socioeconomic factors when comparing the HPV positive and negative groups. Conclusion: Public health strategies that focus on regulation of the sales and consumption of alcohol in China, and development of health education programs for pregnant women, would be positive steps to approach solutions to this problem.

Keywords: human papillomavirus, socioeconomic factor, lifestyle factor, alcohol consumption during pregnancy, pregnant women.

Images/Graphs/Tables:

Table 4.Associated Factors Identified in Backward Stepwise Logistic Regression (Best Fit) Model. Variables entered into the Model: passive smoking at workplace, alcohol consumption, drinking during pregnancy, number of sexual partners, age at first pregnancy, number of pregnancy,cervical erosion or cervicitis, vaginitis (trichomonas + mold), and TCT check (trichomoniasis + mold) . *values are the estimated unstandardized regression coefficients. **OR indicates likelihood of HPV infection.

Variables	Estimate*	Standard Error	Wald Test	p-Value	OR** (95%CI)
Drinking during pregnancy	1.26	0.47	7.14	0.008	3.53 (1.40-8.69)

Recent Publications: (Former name Du Prel)

- Liang X, Carroll X*, Zhang WY, et al (2018) Socioeconomic and lifestyle factors associated with HPV infection: a matched case-control study in Beijing, China. Reproductive Health 15:200. (*Corresponding author) https://doi.org/10.1186/s12978-018-0645-x.
- Carroll X, Liang X, Zhang WY, et al (2018) Socioeconomic, environmental and lifestyle

factors associated with gestational diabetes mellitus: A matched case-control study in Beijing, China. Scientific Reports 8:8103. http://www.nature.com/articles/s41598-018-26412-6

- Carroll X DP, Yi H, et al (2012) Family-environmental factors associated with attention deficit hyperactivity disorder in Chinese children: a case-control study. PLoS One 7(11):e50543. http://dx.plos.org/10.1371/journal.pone.0050543
- Zou JM, Carroll X DP, et al (2011) Alterations of serum biomarkers associated with lung ventilation function impairment in coal workers: A cross-sectional study. BMC Environmental Health 10:83. http://www.ehjournal.net/content/10/1/83
- Du Prel X, Krämer U, et al (2006) Preschool children's health and its association with parental education and individual living conditions in East and West Germany. BMC Public Health. 6:312. http://www.biomedcentral.com/1471-2458/6/312

Biography: (Minimum 150 words Maximum 250 words)

Xianming Carroll, PhD and MPH from Heinrich-Heine-University Dusseldorf Germany 2006 and 2003. Associate Professor at Mercer University 2018-current. Research and interests-social and environmental epidemiology, maternal and child's health, and community-based chronic disease (cancer) intervention. Published numerous papers in peer-reviewed journals. Reviewer of PLoS One and APHA annual conference abstracts. Editorial board member of CPQ Women and Child Health Journal and Journal of Pediatrics and Pediatric Medicine.

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Track number (This is very important to schedule your talk): **Follow this link – https://womenoncology.conferenceseries.com/call-for-abstracts.php**

Research interest: Oncology epidemiology

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