downstream effect on adolescents’ sense of control over their health and on their risk behaviors. This study aimed to test whether primary care provider (PCP) training on motivational interviewing together with implementation of an electronic screening and feedback tool would impact provider counseling on health risks and adolescent risk behaviors.

Methods We used a stepped wedge study design and recruited adolescents aged 13-18 from 6 clinics. In the control period, 135 youth received their usual primary care appointment. In the intervention period, 167 youth received an electronic screening and feedback tool prior to their visit, with results sent to the PCP. In between the control and intervention periods, PCPs participated in an online interactive training demonstrating motivational interviewing skills using video-based scenarios, and met to discuss clinic-level reports summarizing adolescent-reported receipt of counseling.

Youth were surveyed at baseline and three months about their health risk behaviors, and following the well-child visit regarding the receipt of counseling. We calculated the total number of behaviors counseled on divided by the total number of risk behaviors endorsed and compared across groups using chi-squared analyses. An adjusted linear mixed model was conducted to examine whether the intervention was associated with changes in the mean risk score at the 3-month assessment, adjusting for clinic, age, gender, and baseline risk.

Results Control group participants reported receiving counseling on 35% of moderate risk behaviors compared to 43% of behaviors for intervention participants (p = 0.009). Likewise, adolescents reported receiving counseling on 23% of high risk behaviors in the control group compared to 36% of behaviors in the treatment group (p < 0.001). The linear mixed model indicated that the intervention was associated with a 0.64 greater reduction in overall risk score at 3-month follow up, relative to the control group (95% CI: -1.03, -0.24; p = 0.002).

Conclusion Results show promise for electronic screening and feedback and brief provider training to improve the quality of healthcare to adolescent patients in primary care settings.

P5 PSYCHOSOMATIC SYMPTOMS OF CHINESE ADOLESCENTS WHO ARE VICTIMS OF BULLYING

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Aims The association between bullying and mental health outcomes is well recognized in many countries, but there is little evidence from China. This study aimed to investigate whether there is an association between being bullied and psychosomatic well-being among Chinese middle school children.

Methods This cross-sectional survey study was conducted in 12-15-year-olds in Zhejiang, Henan and Chongqing provinces, representing Eastern Central and Western regions from May to September, 2018. It included two urban and two rural middle schools in each province, so 12 schools in total. Classes were randomly chosen to achieve roughly the same sample size in each year group in each province. A self-completion questionnaire was completed by the students in the classroom setting and included: traditional bullying, cyberbullying, and classic psychosomatic symptoms of headache, abdominal pain and sleep problems. Data analyses were performed with SPSS 24.0.

Results There were 3774 completed questionnaires, and the mean age was 13.58 (SD 0.87). 567(15%) stated they had experienced only traditional bullying, 520(14%) only cyberbullying, and 645(17%) both. The commonest forms of traditional bullying were verbal bullying experienced by 1034 (27.6%) and humour-spreading experienced by 540(14.4%). Commonest forms of cyberbullying were being teased online, 703(18.6%) and being excluded online, 690(18.5%). 491 (13.3%) reported they often had headache, 607(16.5%) abdominal pain, and 597(16.1%) sleep problems. After adjusting for confounders, we found that traditional-cyber victims (adjusted OR 1.8, 95% CI 1.4-2.1), only-traditional victims (1.4, 1.1-1.7), only-cyber victims (1.6, 1.3-2.0) were more likely to have headache. Traditional-cyber victims (adjusted OR 1.8, 95% CI 1.5-2.2), only-traditional victims (1.3, 1.0-1.5), only-cyber victims (1.4, 1.1-1.7) were more likely to have abdominal pain. Traditional-cyber victims (adjusted OR 2.0, 95% CI 1.7-2.5), only-cyber victims (1.4, 1.2-1.8) were more likely to have sleep problems.

Conclusion The prevalence of bullying victims is substantial among Chinese adolescents, and is associated with psychosomatic conditions. Measures to reduce bullying are needed in Chinese schools. There needs to be increased awareness of the harm caused by bullying.