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Secondhand smoke isn't just bad for kids' bodies, it's bad for their brains

April 05, 2011 | By Karen Kaplan, Los Angeles Times

Children and teens exposed to second hand smoke are more likely to develop symptoms for a variety of mental health problems, including ma disorder, attention-deficit/hyperactivity disorder and others, according to a study published in Tuesday's edition of the journal Archives of Pe Adolescent Medicine.

At this point, it should come as no surprise to anyone that exposure to tobacco smoke is unhealthy. Plenty of studies have linked secondhand s respiratory problems, asthma, sudden infant death syndrome, middle ear infections and other physical health problems. But the link between smoke and mental health has not been examined as closely.

The new study is believed to be the first that looks at how secondhand smoke exposure – as measured by the presence of a nicotine metabolite associated with mental health in a nationally representative sample of American kids and teens.

Researchers from the National Institutes of Health, the University of Miami and Legacy, the nonprofit that fights tobacco use, used data on 2 were between the ages of 8 and 15 when they were part of the National Health and Nutrition Examination Survey from 2001 to 2004. As part kids were asked to provide blood samples; those who were exposed to secondhand smoke had higher levels of the cotinine, which is produced metabolizes nicotine. The kids were also assessed for a variety of mental health disorders as defined by the National Institute of Mental Health Interview Schedule for Children Version IV.

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Here's what the researchers found: On average, the kids had almost five symptoms of major depressive disorder, almost four symptoms of Al symptoms of generalized anxiety disorder and more than one symptom of conduct disorder.

After taking into consideration the kids' health history and other factors, the researchers determined that levels of cotinine in the blood were s with ADHD symptoms and weakly linked with symptoms of major depressive disorder, conduct disorder and generalized anxiety disorder. O between cotinine and psychiatric symptoms were greater for boys than for girls, and for whites compared to blacks and Mexican Americans.

But none of those symptoms added up to a single diagnosis of a mental health disorder that could be linked with exposure to secondhand smc and teens in the study. At first, it looked like higher cotinine levels might be associated with a higher risk of ADHD. But upon further analysis, the increased ADHD risk was actually due to smoking by mothers during pregnancy.

Still, the authors make the undeniable point that there's no upside to second hand smoke for kids, teens – or anyone else:

"Efforts to ban smoking in public places where children and adolescents are present, including all child care settings and schools, should conincreased efforts to develop interventions targeted directly at parents and and designed to prevent [secondhand smoke] exposure in the home adolescents."

The study is available online here.

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