# Intervene Early to Prevent Teen Substance Abuse

BY BRUCE JANCIN

Denver Bureau

ASPEN, COLO. — Surveys consistently show that 90% of all youths have experimented with drugs and alcohol by the time they finish high school. Yet only a minority develop substance abuse problems, Paula D. Riggs, M.D., said at a psychiatry conference sponsored by the University of Colorado.

Convergent evidence from multiple ge-

netic studies and longitudinal behavioral studies shows that children who develop adolescent substance use disorder can often be identified as early as preschool, he said.

The developmental trajectory that leads to adolescent substance use disorder begins in early childhood. Youngsters in substance abuse treatment programs are more likely than are their non-drug-abusing peers to have displayed a particular constellation of temperament traits as toddlers and preschoolers. This constellation consists of aggressiveness, impulsivity, poor attentiveness and persistence, and difficulty in regulating affect and behavior.

These aspects of temperament are quite heritable. In addition, the home life of affected children is often characterized by conflict and poor parental monitoring.

Without intervention, children with this pattern of difficult temperament often develop oppositional defiant disorder, learning disabilities, conduct disorder, and/or attention deficit-hyperactivity disorder by the time they enter school. They often are unsuccessful in school and may be placed in special education classes where they associate with a deviant peer group, becoming deficient in social skills and coping strategies. Eventually they turn to drugs and alcohol as their coping strategy.

If primary care physicians were to identify preschoolers with the red-flag characteristic temperament constellation and refer them for a comprehensive psychologic assessment and evaluation, it could have a huge impact on the problem of teen substance abuse down the road. "We have early interventions that help reduce the risk of later problems," Dr. Riggs said at the conference, which was also sponsored by the Colorado Psychiatric Society and the Denver Institute for Psychoanalysis.

Avelox (moxifloxacin) is a registered trademark of Bayer Corp.

Reference: 1. Zervos M, Martinez FJ, Amsden GW, Chaudry N. 3-day azithromycin versus 5-day moxifloxacin in outpatients with acute exacerbation of chronic bronchitis (AECB). Poster presented at: 49th International Respiratory Congress (AARC); December 8-11, 2003; Las Vegas, Nev. Poster 184. Data on file, final study report A0661087. Pfizer Inc., New York, NY.

BRIEF SUMMARY BRIEF SUMMARY

To reduce the development of drug-resistant bacteria and maintain the effectiveness of ZITHROMAX® (azithromycin) and other bacterial drugs, ZITHROMAX (azithromycin) should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

strongly suspected to be caused by bacteria.

NDICATIONS AND USAGE
ZITHHONAX\* [azthronycni) is indicated for the treatment of patients with mild to moderate infections [pneumonia see WARNINGS]: accessed by susceptible strains of the designated microorganisms in the specific conditions Istaid below.

As recommended desages, durations of therapy and applicable patient propulations van among these infections, please see DSAGE AND ADMINISTRATION to specific floating recommendations.

Adults: Acute bacterial exacerbations of chronic obstructive pulmonary disease due to Haenopalilus influenzae, Microalisa catarrialis of Supropocaccus prenumoniae.

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Community-acquired pneumonia due to Chlamydia pneumoniae, Hannophius influenzae, Morasella catarrhalis or Streptococcus pneumoniae.

NOTE: Arithromycin should not be used in patients spurpare for oral therapy.

NOTE: Arithromycin should not be used in patients with pneumonia who are judged to be inappropriate for oral therapy because of innederate to severe illness or risk factors such as any of the following: oral to the control of the control of the control oral therapy because of innederate to severe illness or risk factors such as any of the following: now or suspected bacteronia patients requiring hospitalization, elderly or febilitated patients, or patients with significant underlying health problems that may compromise their ability to respond to their illness (including immunodeficiency or functional asplenia).

Pharyngitis/monsillitis caused by Streptococcus progenes as an alternative to first-line therapy in individuals who NOTE: Penicified by the intervention.

pyagenes infection and the prophylaxis of rheumatic tever. All HKUMAA- is orne neuron eradication of susceptible strains of Streptococcus pyagenes from the nasopharyn. Besome strains are resistant to ZITHROMAX\*, susceptibility tests should be performed when are treated with ZITHROMAX\*. Data establishing efficacy of azithromycin in subsequent

some strains are resistant to ZTHROMAX\*, susceptibility tests should be performed when patients are treated with ZTHROMAX\*. Data setablishing efficacy of actimomycin in subsequent prevention of rheumatic fever are not available.

\*\*Uncomplicated skin and skin structure infections due to: Staphylococcus aureus, Streptococcus progress, or Streptococcus agridactive. Abscasses usually require surjical draining.

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Serious allergic reactions, including angioedema, anaphylasis, and dermatologic reactions including Stevens Johnson Syndrome and toxic epidemal necelysis have been reported rarely in patients on azidromycin therapy. Although rare, tatalities have been reported. See OUNTRAINDICATIONS) Despite initially accessed symptomic treatment of the allergic symptoms; when symptomatic therapy was discontinued, the allergic symptoms recurred soon thereafter in some patients without further azidrimosycin exposure. These patients required prolotings gleriods of abservations one patients without further azidrimosycin exposure. These patients required prolotings gleriods of abservation and patients of the patients of the patients of a side of azidromyon and subsequent prolotings deposure to artispen is surknown at present.

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The treatment of positions are all the state of the control of the common of the com

nt bacteria. nation for Patients: ZITHROMAX\* tablets can be taken with or without food. ients should also be cautioned not to take aluminum- and magnesium-containing antacids and azithromycin

multaneously. The natient should be directed to discontinue azithromycin immediately and contact a physician if any signs of an

The patient should be directed to discontinue azimuniyuu minimonooy onu kinnas variqiri agrin gare pation oocu. Patients should be counseled that artibacterial drugs reloding JTHROMAX (apithromycin) should only be used to talk talerial microtions. They do not troat viral infections (e.g., the common cold). When ZTHROMAX (apithromycin) is talk talerial microtions. They do not troat viral infection (e.g., the common cold). When ZTHROMAX (apithromycin) is used of the through, the medication should be taken exactly as directed. Stepping doses or not completing the full uses of therapy my! (I decrease the effectiveness of the immediate treatment and 2] increase the kilderhood that cterial will develop resistance and will not be treatable by ZTHROMAX (arithromycin) or other artibacterial drugs in forms.

the future.

The glaractionse Co-administration of nelfinavir at steady-state with a single and dose of authromyoin resulted in increased arithromyoin secund concentrations. Although a dose adjustment of authromyoin is not recommended when administered in combination with nelfinavir, close monitoring for known side effects of authromyoin, such as liver enzyme althormaticities and hearing impairment, is warranted, See ADVERSE REACTIONS.

Achtrinopyin and in ord flerch the porthornable time response to a single dose of wirefairs. However, prudent medical Achtrinopyin and not affect the porthornable time response to a single dose of working. However, prudent medical achtrinopyin and reference of the production of the producti

modest effect on the pharmacolinatics of azithrumpia. No desage adjustment of either drug is recommended when azithrumpian is coadministered with any of the above agents. The coadministered with any of the above agents of the coadministered with any of the above agents. See a specific drug interaction studies have been performed to evaluate potential disport gruin greaterion. Neventheless, they have been observed with macroides products. Until further data are developed reparding drug interactions when azithrompian and these drugs are used concomitantly, careful monitoring of patients is advised. Dipopin—elevated dipoxin concentrations. Emplatamine or dipydroreptoraline—coult ergot toxicity characterized by severe peripheral vasospasm and dysesthesia.

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Nursing Mothers: It is not to nown whether authromycin is exceed in human milk. Because many drugs are excreted in human milk, calculos should be exercised when authromycins is administered to a nursing woman. Studies evaluating the use of repeated courses of therapy have not been conducted. Gentaric Use: "Armanocionistic parameters in other voluntees (5:8-9 years old) over similar to those in younger voluntees (1:8-4) years old) or the 5-day therapeatic regimen. Dossage adjustment does not appear to be necessary for older patients with momal treal and helpaid function receiving treatment within this dossage originary. In multiple-dose clinical trials of oral authromycin, 9's of patients were at least 65 years of age (458/494) and 3's of patients (144-494) were at least 75 years of age, 10's overall differences in safety or effectiveness were observed between these sobjects and vourger subjects, and other prototted clinical experience has not identifications."

cannot be ruled out.
ZITHROMAX\* 250 mg tablets contain 0.9 mg of sodium per tablet. ZITHROMAX\* 500 mg tablets contain 1.8 mg of
sodium per tablet.

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ADVERSE REACTIONS

In clinical trials, most of the reported side effects were mild to moderate in severity and were reversible upon discontinuation of the drug. Potentially serious side effects of angiocedema and cholestatic jaundice were reported review, Approximately 0.7% of the patients dadds and podiating patients) from the 5-day multiple-food efficial trials discontinuation in the drug. Potentially serious side effects of the side of the 5-day multiple-food efficial trials discontinuation and the total extension of the side of the

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\*\*So or preaster included disarrhea/foses stook (7%), nussee (19%), abdominal pain (5%), vorniting (2%), dyspepsia (19%) and vagarities (19%).

\*\*Single 2-gram dose regimen: Overall, the most common side effects in patients receiving a single 2-gram dose of ZTHHROMAX\* were related to the gastrointestinal system. Side effects that occurred in patients in this study with a frequency of 15% or greater included reasses (19%), disarrhanolose stools (14%), vorniting (7%), abdominal pain (7%), vorgaints (2%), dyspepsia (15%) and dizarrises (19%). The majority of these complaints were med in nature.

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Adults:	nion (occ implantation and condit)
Infection*	Recommended Dose/Duration of Therapy
Community-acquired pneumonia (mild severity) Pharyngitis/tonsillitis (second line therapy) Skin/skin structure (uncomplicated)	500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5.
Acute bacterial exacerbations of chronic obstructive pulmonary disease (mild to moderate)	500 mg QD x 3 days OR 500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5.
Acute bacterial sinusitis	500 mg QD x 3 days
Genital ulcer disease (chancroid)	One single 1 gram dose
Non-gonococcal urethritis and cervicitis	One single 1 gram dose
Gonococcal urethritis and cervicitis	One single 2 gram dose

ZITHROMAX® tablets can be taken with or without food.

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## Parents Want to **Discuss Family Alcohol History**

WASHINGTON— A majority of parents in rural Kansas think children should know about problem drinkers in the family, reported Kimber Richter, Ph.D.

Approximately 45% of alcoholism is genetic, and knowledge of family history might help children make better choices about alcohol consumption, said Dr. Richter at the annual conference of the Association for Medical and Education in Research and Substance Abuse.

Dr. Richter and a group of medical students surveyed parents to better understand parent-child communication regarding a family history of alcohol problems. They surveyed 24 sets of parents aged 18 years or older living in rural Kansas who had children aged 10-20 years.

In response to the questionnaire, 100% of the parents said that they had talked to their children about alcohol, and 100% agreed that a family history of alcohol problems increased children's risk. Most (96%) said they believed families with a history of alcohol problems should inform their children. Of the 83% of parents who reported a family history of problems, 57% said they had informed the children about this history. Overall, 63% had family rules concerning drinking, with punishments for breaking the rules. The children were not interviewed about their alcohol use. They averaged 15 years old, the average age of first alcohol use in Kansas, Dr. Richter noted at the conference, also sponsored by Brown Medical School.

Parents who had discussed a family history of alcohol problems with children said they didn't want their children to repeat the mistakes of other family members and that they had lost many family members to alcohol problems. Parents who had not discussed a family history of alcohol problems with children cited young age of children and the fact that alcohol was "not an issue yet" as reasons for not broaching the topic.