Fetal Alcohol Syndrome Prevention Screening Indicator Web Ex presentation April 18,2007

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Fetal Alcohol Screening Indicator Definition and Target

Definition: "Address screening for alcohol use in appropriate female patients"

■ Target: "During FY 2007, maintain the screening rate for alcohol use in female patients ages 15 to 44 at 28%" (same for FY08)

Why an indicator for fetal alcohol syndrome screening?

Prevalence

 Effects on behavior, socialization, and learning potential

Physical effects

Prevalence of fetal alcohol syndrome

 Approximately 1 in 1,000 of live births in the U.S. are at risk for fetal alcohol spectrum disorders

■ The prevalence of FASD in the AI/AN population is 4 times the national average

Pathogenesis

- Though exact cellular mechanism unknown, appears direct toxic effect of ETOH or metabolite is likely
- Differential neurodegenerative pattern based on timing of exposure
- Mild dose-dependant relationship
- Binge pattern drinking may be more deleterious than chronic low level drinking
- American Indians appear to be more sensitive (may be due to polymorhisms of alcohol dehydrogenase)
- Probably synergistic effect with other substances

Physical effects

- Growth problems including microcephaly
- Facial abnormalities
- Heart problems
- Kidney problems
- Hearing problems
- Coordination problems

Effects on behavior and learning

Most common preventable cause of mental retardation

Learning disabilities

Abnormal sleeping and eating patterns

Long term mental health problems

Hyperactivity/ Impulsivity

 Poor reasoning and social judgment, oversexualized behavior

In some cases, long term custodial care

Prevention

 To prevent the teratogenic effects of alcohol, alcohol abstinence/ reduction efforts must start before conception

 No safe level of alcohol consumption for developing fetus

Screening recommendations

United States Preventive Services Task Force (USPSTF) finds that screening for problem drinking is beneficial for all adults, including women of child bearing age

They also conclude that brief counseling interventions with follow-up leads to small to moderate decreases in drinking

Screening for what?

- Not diagnosing alcohol dependence, or alcohol abuse (could do if appropriately trained)
- Problem, or hazardous drinking, usually defined as:
 - Females: > 7 drinks/week, or > 3 drinks/setting more than once per quarter
 - Males: > 14 drinks/week, or > 4 drinks/setting more than once per quarter

Screening instruments

- No mandate for any particular instrument, though strongly recommend validated instrument
- CAGE is very familiar, but best validated for older males, less valid in females
- CRAFFT (Car Relax Alone Forget Friends
 Trouble) can be used for adolescents (though
 evidence less strong)

Screening instruments (cont'd)

- AUDIT will be used in the Alcohol Screening/ Brief Intervention Initiative
- ASSIST, developed by WHO, good for other substances

We recommend the Single Alcohol Screening Question, as it is validated in multiple studies and very brief

Interventions

- Even very brief interventions (5 minutes) have been shown to decrease the amount of drinking at 6 and 12 month follow-up
- Stages of change/ motivational interviewing model appropriate for primary care clinic
- Referral to behavioral health (strongly recommend for alcohol dependence)
- Pharmacologic interventions (acamprosate, naltrexone, not in pregnancy Cat C)