

# Recommendations

Administered by the Alberta Medical Association

## PREVENTION OF FETAL ALCOHOL SYNDROME (FAS)

*This guideline was developed by a working group based on best available evidence and from a province-wide survey of physicians. The development of this guideline was funded as part of the Alberta FAS Initiative and in cooperation with the Prairie Province FAS Initiative.*

**For the purpose of this guideline, the term FAS (FAE, ARBD) is used to describe the full continuum of abnormalities attributed to prenatal exposure to alcohol. (see preface)**

### GOALS

This guideline is intended for use by physicians, midwives and other health care professionals to reduce the incidence and disability from FAS by increasing:

- ◆ knowledge about screening for alcohol consumption in pregnancy;
- ◆ awareness about common attitudes regarding alcohol use and FAS; and by
- ◆ promoting productive dialogue and action between healthcare professionals and their patients (and when possible, their partners).

### RECOMMENDATIONS

- ◆ A consistent message must be given to all women of childbearing years and their partners that:
  - a prudent choice for women who are pregnant or who are considering pregnancy is to abstain from alcohol;
  - inform women who consumed small amounts of alcohol occasionally during pregnancy that the risk to the fetus in most situations is minimal; and
  - reducing or stopping alcohol use at any time during pregnancy will reduce the harmful effects of alcohol.
- ◆ Physicians/midwives engage with other health care professionals in basic strategies to prevent FAS in their practices.
- ◆ Given the risk of recurrence is high for women (couples) who have had an FAS child, that they are counselled in recognizing and changing their alcohol use patterns in order to reduce impairments and disabilities in future children.

### PREVENTION STRATEGIES

#### Primary Prevention

- Engage in education regarding FAS and the adverse effects of alcohol on the fetus with all women and their partners
- Ask all female patients, of childbearing age, the basic question about their use of alcohol
- Be aware of and use promotional materials in offices and as handouts for patients
- Be aware of and access community resources
- Discuss and enhance access to contraceptive strategies with all women and their partners

#### Secondary Prevention

- Identify women who are using alcohol during pregnancy and assess level of risk (refer to Algorithm and Screening Details)
- Counsel pregnant women who are using alcohol about the effects on the fetus and their own health
- Counsel pregnant women regarding the benefits of stopping or reducing the use of alcohol at any time during pregnancy
- Refer women who are using alcohol for appropriate treatment
- Provide contraceptive counselling

#### Tertiary Prevention

- Identify those women at high risk in future pregnancies
- Ask the woman why she drinks?
- Refer women at risk, especially pregnant women, for appropriate treatment
- Counsel women about the benefits of stopping or reducing alcohol consumption at any time during pregnancy
- Provide contraceptive counselling

#### **Practice Tip:**

*Alcohol use in pregnancy should be discussed as part of risk reduction counselling.*

The above recommendations are systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances. They should be used as an adjunct to sound clinical decision making.

## BACKGROUND ON PREVENTION

### Prevention Strategies

The goal of a comprehensive prevention program is to provide overlapping levels of reinforcement (education and persuasion), incentives and interventions to prevent FAS.<sup>1</sup>

### Primary Prevention

Primary prevention involves the elimination of the root causes of a problem by broad-based efforts to promote the health and well-being of a community. These strategies can be applied to the entire population.

In the case of FAS, the goal of primary prevention is to have no fetuses exposed to alcohol, thus eliminating the problems of FAS before they ever develop. Because no safe level of drinking has been identified, ideally all females would cease drinking before conception and during pregnancy.<sup>2</sup> This abstinence would guarantee the primary prevention of all FAS.

### Knowledge and Understanding

To carry out effective prevention strategies, health professionals need knowledge and understanding of the probable etiologic mechanisms of FAS and the factors contributing to the use of alcohol.

Evidence<sup>3-5</sup> shows that information provided by physicians and others in office and prenatal clinic settings is seen as credible and effective in relaying the message.

Clarren<sup>6</sup> suggests that physicians and other health care providers should discuss the notion, prior to conception, that alcohol consumption is potentially harmful to a developing fetus.

### Education

One of the most basic techniques used in primary prevention is public education at all levels.

Information should be directed slightly differently for women and men. It is important to emphasize to women abstinence from alcohol and drugs during pregnancy.<sup>7</sup> For partners and families, the emphasis

should be placed on the supportive role that they play in a healthy pregnancy.

**FAS is 100% preventable**

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**A prudent choice for women who are pregnant or who are considering pregnancy is to abstain from alcohol**

### Secondary Prevention

Secondary prevention seeks to reduce the duration and severity of maternal drinking by identification of the person at risk. Thus, strategies would include screening, early intervention programs, and services for pregnant women and women of childbearing potential who may be at risk for having a child with FAS.

### Professional Education

Many physicians are reluctant to inquire about alcohol use. One explanation is that they wouldn't know what to do if they found problems.<sup>8</sup> This attitude may be overcome when physicians learn that patients often appreciate professional concern and when they know how to refer problem patients to community resources for treatment.

**Studies<sup>9, 10</sup> indicate that a supportive counselling and/or case management program can result in 60 to 80 percent of pregnant women reducing their alcohol intake before the third trimester and 35 to 50 percent stopping "heavy" drinking**

### Screening

The pregnant woman who consumes alcohol cannot be identified by appearance or by socioeconomic characteristics therefore a systematic drinking history is essential and should be obtained from all patients during the initial history and in subsequent prenatal care.

In response to this clinical need several screening tools have been developed such as the T-ACE screening questionnaire.<sup>11</sup> Although it is understood that many physicians currently use the CAGE screening tool, this committee finds the T-ACE to have higher sensitivity and specificity when used to assess periconceptual heavy drinking. (Refer to the Screening Algorithm)

## Intervention

Pregnancy is an ideal time for the physician to identify drinking problems and to intervene. It is reported that alcohol consumption often decreases spontaneously during pregnancy.<sup>12</sup>

*Once alcohol consumption has been identified, physicians should discuss the fetal risks with the woman and her family in the same way that other risks are discussed. Everything possible should be done to discourage drinking during the pregnancy to prevent harm to the fetus*

In several clinical trials, intervention as a part of prenatal care has been successful in reducing alcohol consumption. Approximately 50 percent of heavy drinkers were able to reduce their drinking to the moderate or rare category and these women had infants with higher birth weights and fewer characteristics of FAS.<sup>13</sup>

### **Practice Tip:**

- *Disulfiram should not be used during pregnancy.*<sup>14,15</sup>
- *Special care in detoxification procedures during pregnancy are needed.*

## Tertiary Prevention

Tertiary prevention is aimed at reducing the complications, impairments, and disabilities caused by FAS, and includes activities that prevent recurrence of the condition in subsequent children. Strategies should be designed and reserved specifically for children with FAS and their caregivers.

## Treatment/Therapy

It is important to assist the mother (couple) to recognize and change their alcohol consumption pattern. Specific education and advice for voluntary referral to therapy for alcohol and drug misuse should be pursued with the couple who have an FAS child. This advice should be offered empathically but firmly. A more direct approach is needed if change is not evident over a reasonably short period of time.<sup>16</sup>

**AADAC has available resources in the Alberta communities that are easily accessible.**

## Future Pregnancies

Once a diagnosis of FAS has been made, aggressive measures are needed to reduce the injury to future children. This is best accomplished by helping the mother (and partner) in changing their alcohol abuse pattern.<sup>17</sup> Studies indicate **that women who have had one definite FAS child and continue to drink will have equally or progressively more severely damaged children in subsequent pregnancies.**<sup>18</sup> Both parity and age are contributing factors. In such cases, isolating the experience of pregnancy from alcohol and substance abuse is the logical and safe course of prevention.

Intensive case management of women who have borne one or more FAS children has been shown to help protect against future FAS children, allow for the care of the specific social and medical needs of the woman and her family, and improve the future health of the mother.<sup>16</sup>

## REFERRAL SOURCES

- ◆ Contact your Regional Health Authority, AADAC, or the College of Physicians and Surgeons of Alberta for a list of current resources.

## REFERENCES

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## **THE ALBERTA CLINICAL PRACTICE GUIDELINES**

### **PROGRAM**

The Alberta Clinical Practice Guidelines Program promotes appropriate, effective and quality medical care in Alberta by supporting the use of clinical practice guidelines. The program is administered by the Alberta Medical Association under the direction of a multi-stakeholder steering committee.

### **TO PROVIDE FEEDBACK**

The Working Group for FAS is a multidisciplinary team composed of family physicians, obstetricians, paediatricians, geneticists, Community Medicine specialists, representatives from AADAC, Alberta Family and Social Services, Health Canada, the Alberta CPG Program, the Reproductive Care Committee, the NECHI Institute, and the public.

The Working Group encourages your feedback. If you need further information or if you have difficulty applying this guideline, please contact:

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# ALGORITHM: SCREENING FOR ALCOHOL USE

## FOR ALL WOMEN OF CHILDBEARING AGE

1. Do you use alcohol?
2. Has it ever caused a problem for you or any family member?
3. Do you use other drugs/substances (illicit, prescription or over the counter)?

NO

Primary Prevention

YES

### The T-ACE Questionnaire\*

**TOLERANCE** - How many drinks does it take to make you feel high? *Score 2 for more than 2 drinks. Score 0 for 2 drinks or less*

*Score 1 point for each YES answer to the following:*

**ANNOYANCE** - Have people annoyed you by criticizing your drinking?

**CUT DOWN** - Have you felt you ought to cut down on your drinking?

**EYE OPENER** - Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover?

**High risk score = 2 or more points.**

### SCREENING QUESTIONS

1. In a typical week, on how many days do you drink?
2. On those days, how many drinks are usual?
3. Administer a standard screening test (e.g., T-ACE)

### ASSESSMENT OUTCOME

LOW RISK

#### At Risk: Secondary prevention strategies

1. Brief interventions:
  - a) ADVISE by providing personalized feedback to the patient
  - b) ADVISE the patient to stop or reduce drinking
  - c) ASSIST by providing the patient with material to facilitate change
2. Refer to appropriate resources

#### High Risk: Tertiary prevention strategies

1. Urgent referral to specialized resources
2. Continued follow-up and support

\* The T-ACE questionnaire is an example of one systematic approach to alcohol screening. Reference: Sokol R. et al. The T-ACE Questions, practical prenatal detection of risk drinking. American Journal of Obstetrics and Gynecology, April 1989; 160(4).