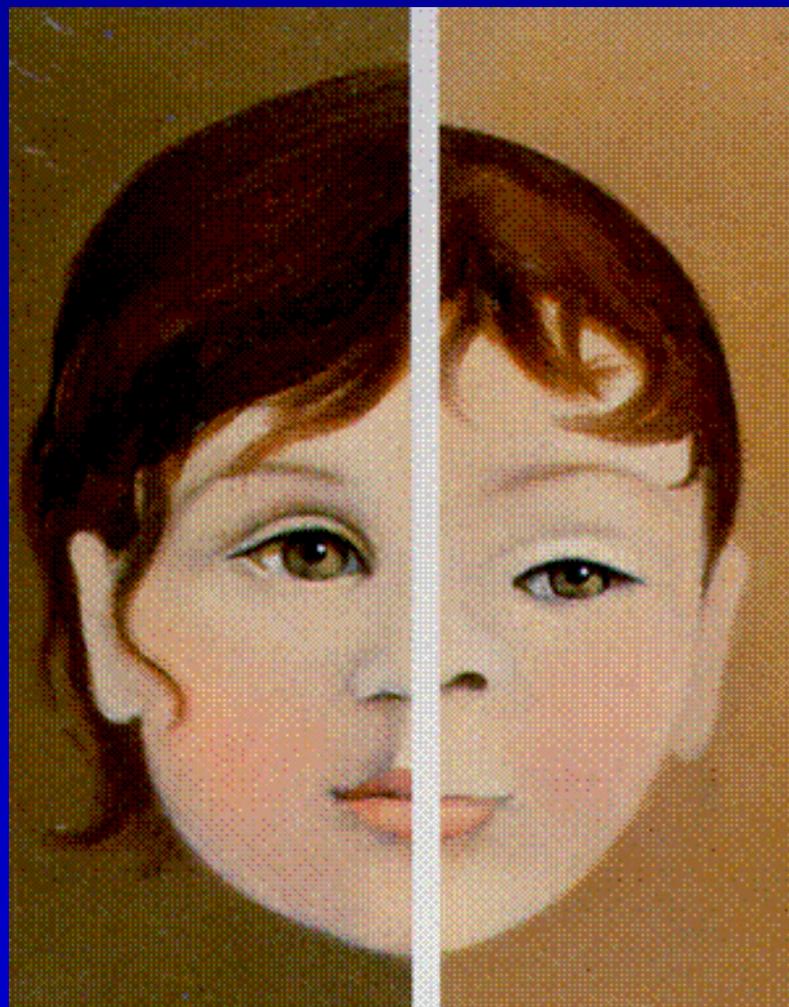


**Better Safe Than Sorry:  
PowerPoint Slides for  
Transparencies**

**MATERNAL ALCOHOL  
ABUSE IS THE LEADING  
KNOWN CAUSE OF MENTAL  
RETARDATION IN THE  
WESTERN WORLD**

# The facial features of Fetal Alcohol Syndrome are:

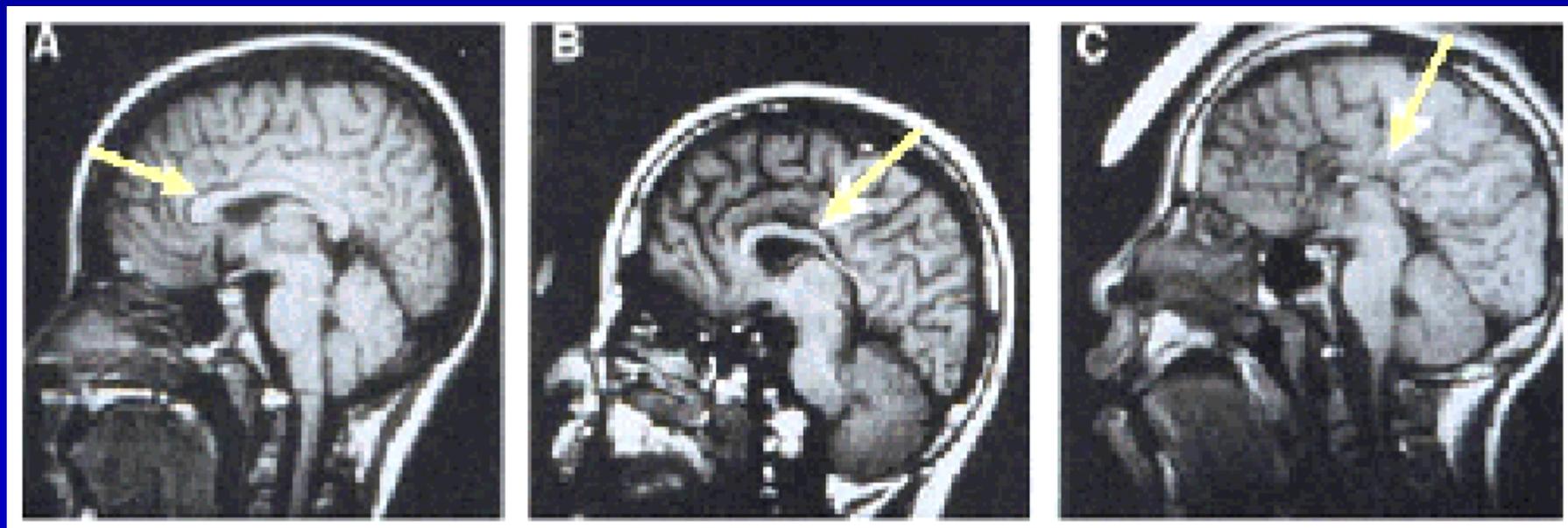
- Small eyelid openings (palpebral fissures)
- Short, upturned nose
- Long upper lip (from nose to mouth) with a thin red border and a deficient central groove (philtrum)
- Reduced size of the head (microcephaly)



**NORMAL**

**FAS**

**Visualization of the brain of a normal individual (A) and two with FAS (B, C) shows permanent loss of the tissue indicated by the arrows (portions of the corpus callosum)**



**Normal**

**FAS**

**FAS**

**Images courtesy of DR. S. Mattson**

# The facial features of Fetal Alcohol Syndrome can be seen in both a child and a mouse fetus that were exposed to alcohol during development.

child with FAS



Narrow forehead

Short palpebral fissures

Small nose

Small midface

Long upper lip with deficient philtrum

mouse fetuses



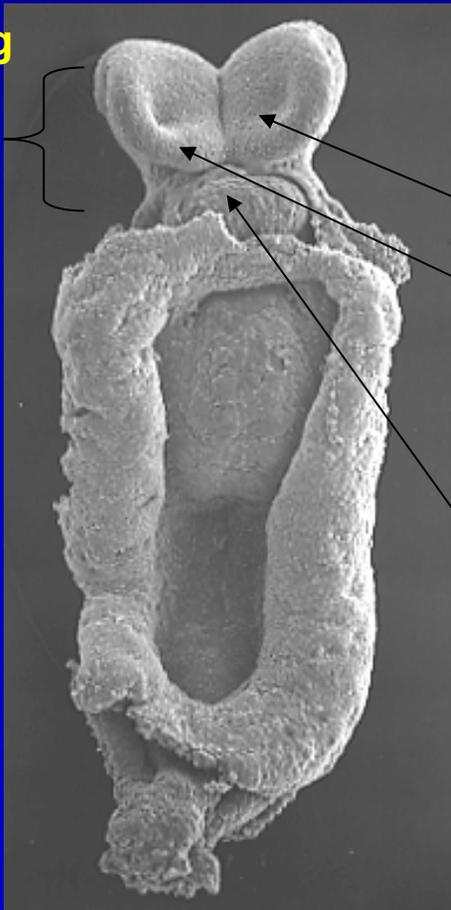
alcohol-exposed



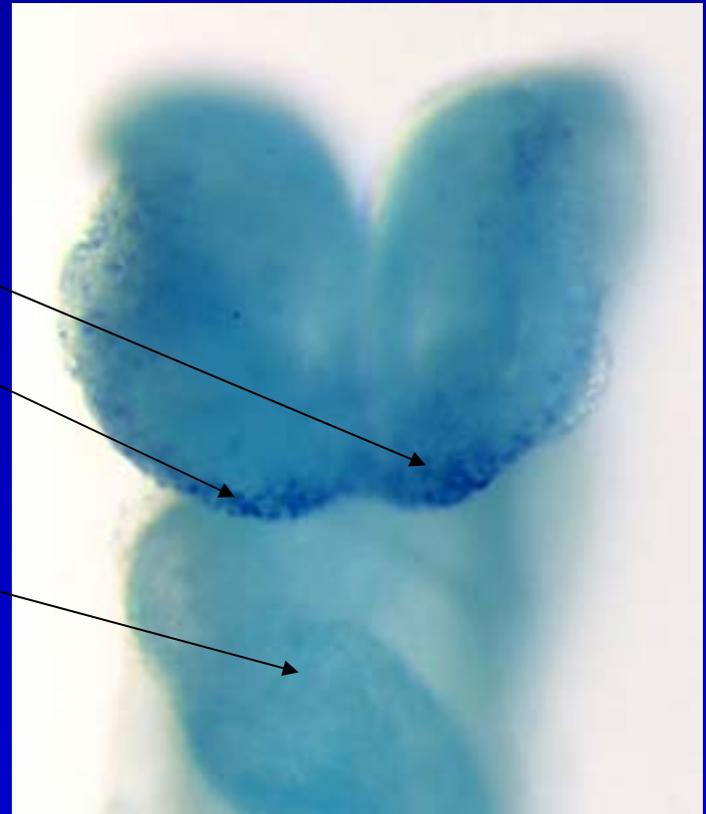
normal

# CELLS THAT SHOULD FORM MIDLINE STRUCTURES OF THE BRAIN AND FACE ARE KILLED BY ALCOHOL

Developing  
brain and  
face



Heart



Mouse embryo (viewed from the front) at a stage corresponding to a 22-23 day old human.

A close-up view of an alcohol-exposed mouse embryo shows cells killed by alcohol that have taken up a dark blue stain

**Health advisories  
urge women who  
are planning  
pregnancy  
or are pregnant  
not to drink alcohol.**

