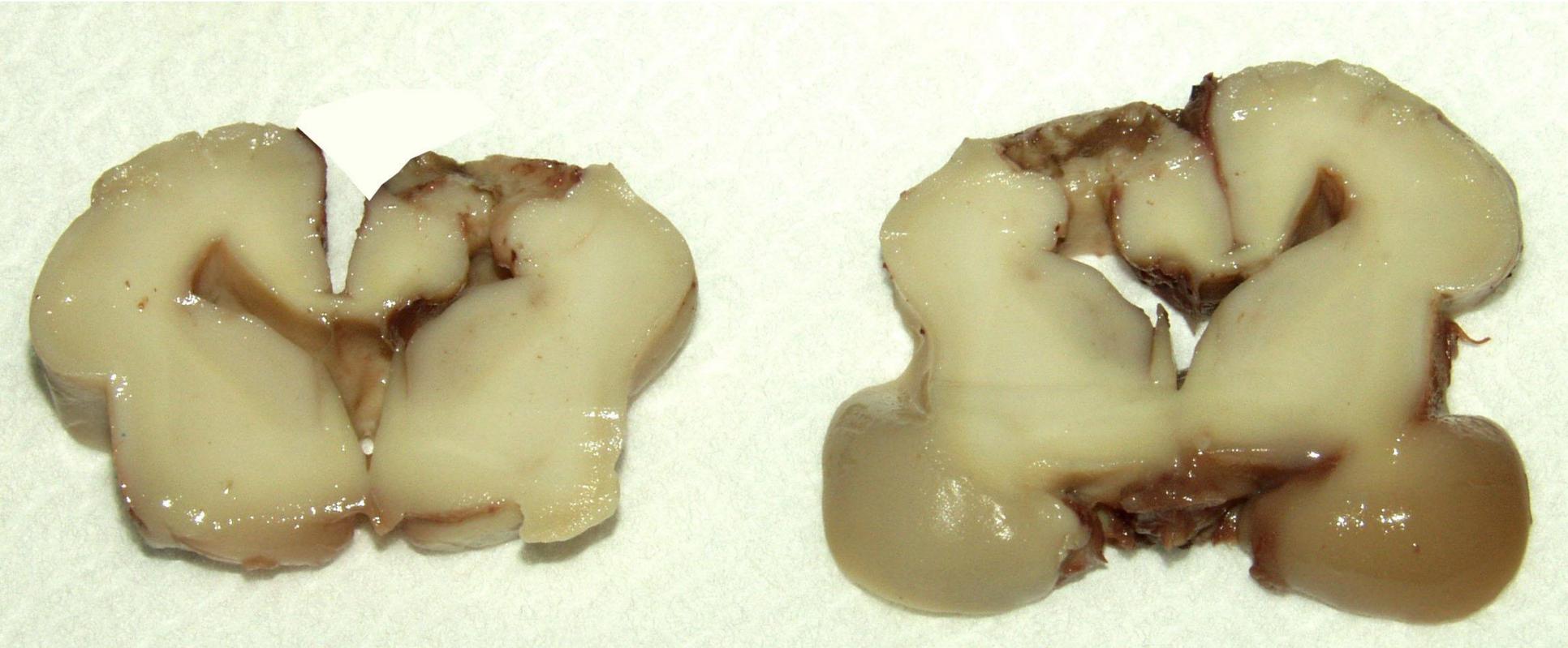


Schizencephaly



Schizencephaly is a disorder characterized by full-thickness grey matter-lined clefts of the cerebral mantle

Bilateral schizencephaly with open lips

Axial view



Coronal view



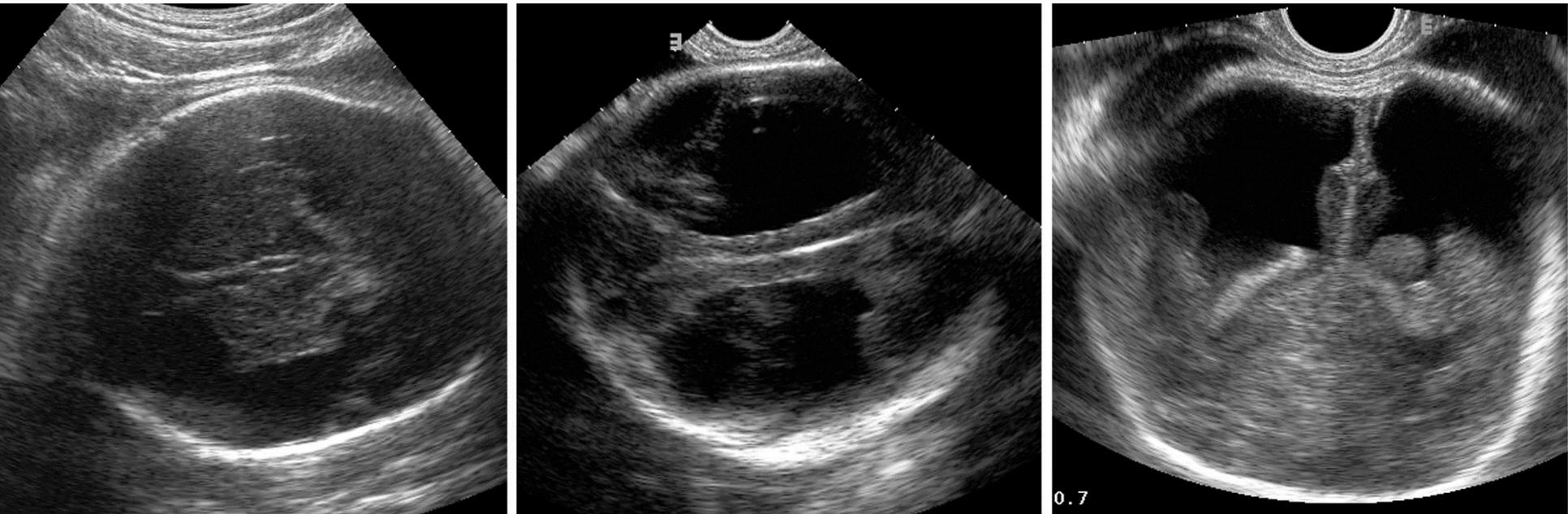
The clefts can be bilateral and large and cross the entire brain from one side to the other; in these cases the prognosis is usually very poor. This infant died soon after birth

Schizencephaly and absence of septum pellucidum



Particularly with large bilateral clefts, the ventricles may be enlarged and the *cavum septi pellucidi* absent

'Basket' brain

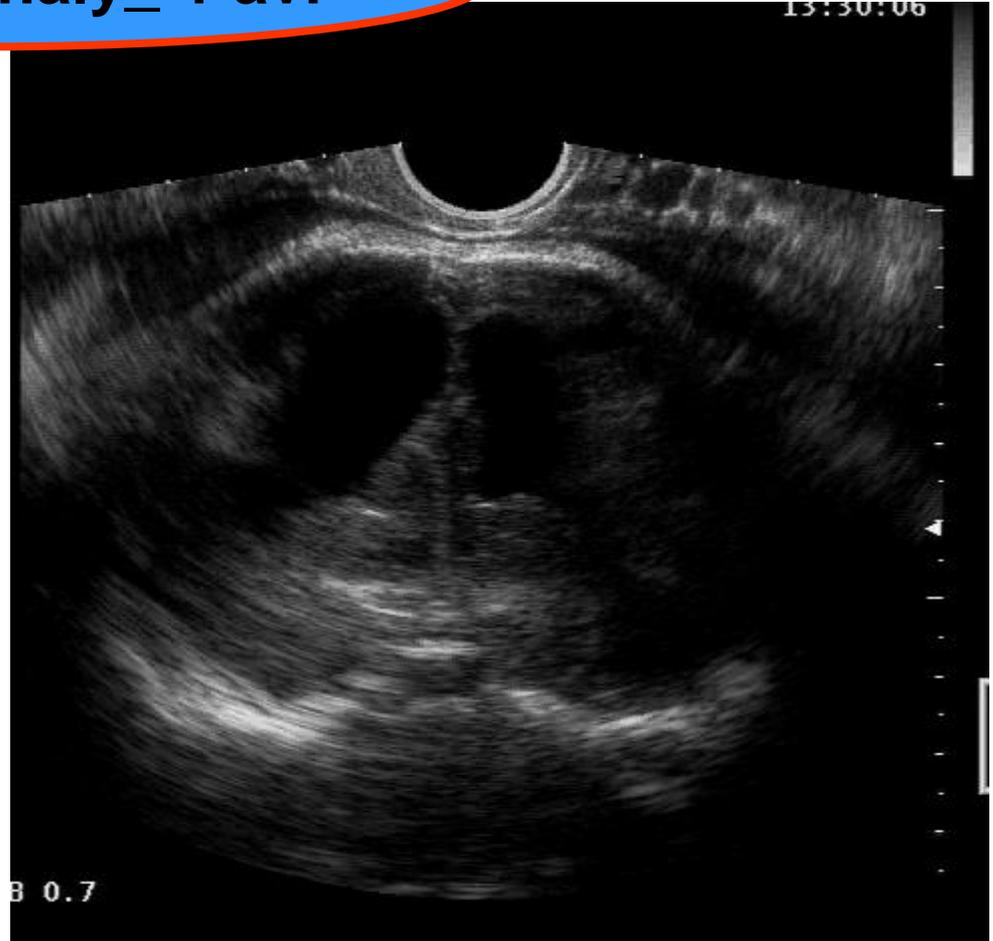


In this case there is extensive bilateral destruction of the cortex. This is commonly referred to as a 'basket' brain

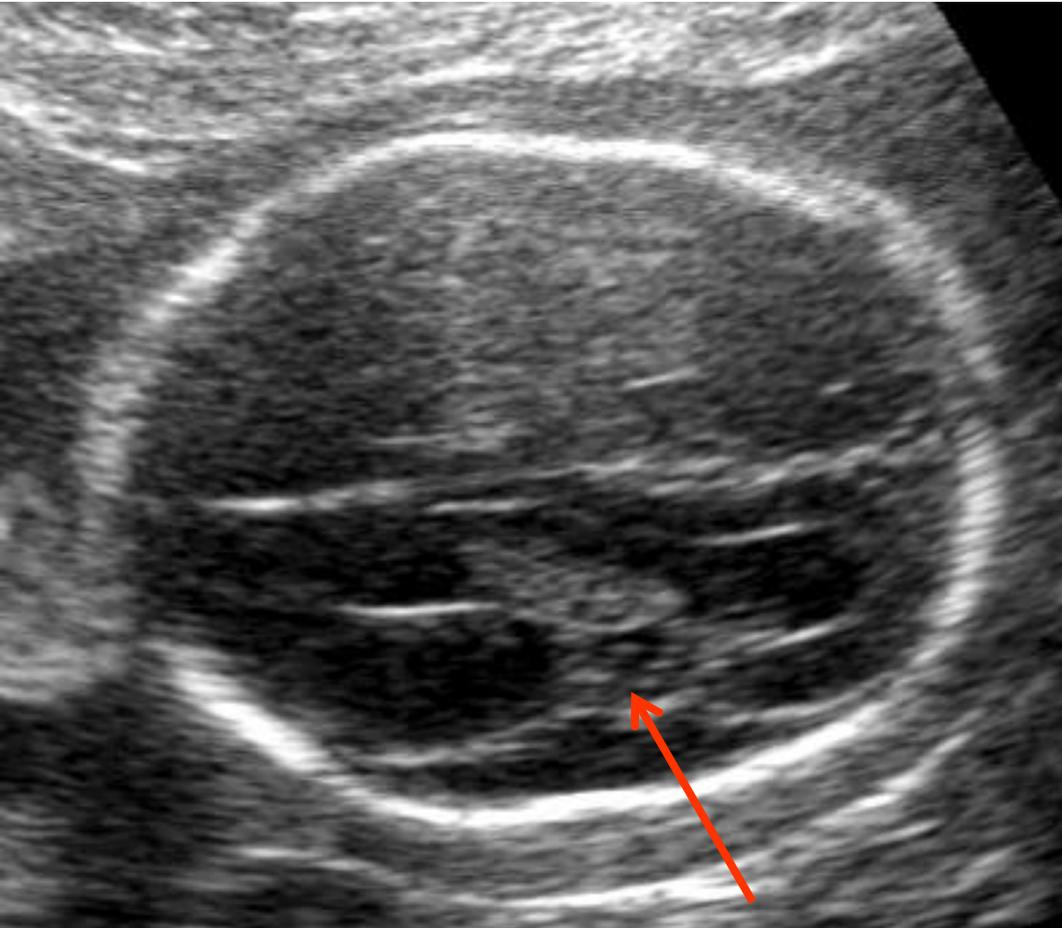
'Basket' brain

Schizencephaly_ 1 avi

Schizencephaly usually appears on ultrasound as cystic lesions inside the brain. A specific diagnosis requires demonstration with multiplanar imaging of a defect (or defects) connecting the subarachnoid space with the cavity of lateral ventricles. Differentiation from simple ventriculomegaly is important because the prognosis of schizencephaly is frequently poor



Unilateral schizencephaly



Schizencephaly frequently derives from clastic events occurring in the first half of pregnancy, prior to neuronal migration and formation of the cortical plate. The diagnosis can be difficult when the lesion is unilateral and small, particularly in early stages when debris may mask the defect

Unilateral schizencephaly



In this case the prenatal identification was particularly difficult, as the cleft was small and unilateral.

Unilateral schizencephaly: coronal views

Schizencephaly_ 2 avi

Meticulous scanning was necessary to demonstrate this small cleft in a midtrimester fetus referred because of mild ventriculomegaly



Unilateral schizencephaly: sagittal views

Schizencephaly_ 3 avi

Same case of the
previous clip

