

## Corpus Callosum Agenesis Sources

- Question Site Address / Info
- 4 [http://my.webmd.com/hw/raising\\_a\\_family/nord355.asp](http://my.webmd.com/hw/raising_a_family/nord355.asp)  
Agenesis of Corpus Callosum (ACC) is a rare disorder that is present at birth (congenital). It is characterized by a partial or complete absence (agenesis) of an area of the brain that connects the two cerebral hemispheres. This part of the brain is normally composed of transverse fibers. Agenesis of Corpus Callosum is usually inherited as either an autosomal recessive trait or an X-linked dominant trait. It can also be caused by an infection during the twelfth to the twenty-second week of pregnancy (intrauterine) leading to developmental disturbance of the fetal brain. In some cases mental retardation may result, but in other cases, no evident symptoms may appear and intelligence may not be impaired.
- 4 <http://healthlink.mcw.edu/article/921361458.html>
- 5 Girls may have a gender-specific condition called Aicardi's syndrome, which causes severe mental retardation, seizures, abnormalities in the vertebra of the spine, and lesions on the retina of the eye. ACC can also be associated with malformations in other parts of the body, such as midline facial defects. The effects of the disorder range from subtle or mild to severe, depending on associated brain abnormalities. Intelligence may be normal with mild compromise of skills requiring matching of visual patterns. But children with the most severe brain malformations may have intellectual retardation, seizures, hydrocephalus, and spasticity.
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ACC is diagnosed in approximately ninety percent of patients during the first two years of life. An epileptic seizure is usually the initial symptom indicating that a child should be tested for a brain dysfunction. The disorder can also be without apparent symptoms in the mildest cases for many years.
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Agenesis of Corpus Callosum is usually inherited as either an autosomal recessive trait or an X-linked dominant trait.
- 7 <http://healthlink.mcw.edu/article/921361458.html>  
There is no standard course of treatment for ACC. Treatment usually involves management of symptoms and seizures if they occur.
- 8 <http://www.icomm.ca/geneinfo/agence.htm>  
Agenesis of the Corpus Callosum is undetectable through routine pre-natal tests. ACC may be detected with a scan at 18 weeks.
- 9 <http://www.dpo.uab.edu/~birmie/acc.htm#Clinical>  
Causes of ACC include genetic abnormalities, particularly trisomies 8, 13, and 18 and there also exist X-linked forms; metabolic disturbances; maternal substance misuse; and maternal influenza.
- 10 <http://www.dpo.uab.edu/~birmie/acc.htm#Clinical>  
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- 11 <http://healthlink.mcw.edu/article/921361458.html>  
Agenesis of the corpus callosum (ACC) is a rare birth defect in which the structure that connects the two hemispheres of the brain (the corpus callosum) is partially or completely absent. ACC can occur as an isolated condition or in combination with other cerebral abnormalities, including Arnold-Chiari malformation, Dandy-Walker syndrome, Andermann syndrome, schizencephaly (clefts or deep divisions in brain tissue), and holoprosencephaly (failure of the forebrain to divide into lobes.) Girls may have a gender-specific condition called Aicardi's syndrome, which causes severe mental retardation, seizures, abnormalities in the vertebra of the spine, and lesions on the retina of the eye. ACC can also be associated with malformations in other parts of the body, such as midline facial defects. The effects of the disorder range from subtle or mild to severe, depending on associated brain abnormalities. Intelligence may be normal with mild compromise of skills requiring matching of visual patterns. But children with the most severe brain

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