Comments for the IACC Meeting, Nov 21, 2008

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Summer 1969
Auditory nuclei in the midbrain are selectively damaged by a lapse in respiration of six to eight minutes at birth.

(1) The IACC research plan must include investigation of brain impairments that can result from oxygen insufficiency during birth.

Auditory nuclei in the midbrain (the inferior colliculi) are selectively damaged by a lapse of respiration of six to eight minutes.

(2) The midbrain auditory system should be considered as the possible "final common pathway“ affected by all causes of autism.

These small nuclei in the auditory pathway have higher blood flow and metabolism than any other area of the brain.
The inferior colliculi are susceptible to injury or impairment by all known or suspected causes of autism.

Blood flow and metabolism are not uniform throughout the brain.

Nuclei of the auditory system have the highest blood flow & metabolism in the brain.

The auditory system is the vigilance system of the brain.

The auditory system is continuously active, even during sleep.

High metabolic needs make the auditory system vulnerable.


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Language development depends upon intact auditory processing.

Loss of the ability to comprehend spoken language has been described in at least 13 case reports following injury of the inferior colliculi:


How much more serious this should be for an infant!
Obstetric error?

"Immediately after the delivery of the neonate, a segment of umbilical cord should be double-clamped, divided, and placed on the delivery table pending assignment of the 5-minute Apgar score."

ACOG Committee Opinion No. 348, November 2006


How many prospective parents are told that placental respiration is to be cut off so abruptly at birth, possibly before the first breath?

How many prospective parents have been encouraged to bank their baby’s umbilical cord blood?
Vaccination after asphyxia may be double trouble

Asphyxia disrupts the blood-brain-barrier, and allows bilirubin or any other substance into neurons.

Could autism be a variant of kernicterus?


Anders and Conrad with mom and baby rat pups, Boston University School of Medicine, 1971.
Feedback and/or discussion?

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Presentation online at


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Questions and areas of research needed:

1. What causes autism, and its recent increased prevalence?
2. How is the brain affected?
   How do children learn to speak?
   Why do children with autism use phrase fragments?
3. Autism has many causes.
   All may impair function in the auditory system.
   Complications at birth are associated with autism.
4. Should changes in obstetric practice be questioned?
   Protocol since 1980s: immediate clamping of the umbilical cord.
   Traditional teaching: Wait for pulsations in the cord to cease.
5. How does breathing begin at birth?
   Blood transfer into the capillaries surrounding the alveoli
   Transfer of blood from the placenta, unless clamped off