

55 UNEXPECTED DEVELOPMENT OF HEARING LOSS IN HIGH RISK NEONATES. Toni A. Nield, Shirley Schrier, Angela D. Ramos, Arnold C.G. Platzker, David Warburton, Childrens Hospital of Los Angeles, Div. Neonatology and Pediatric Pulmonology, Div. of Hearing and Speech, Los Angeles.

Seven high risk neonates who passed initial brain stem auditory evoked response (BAER) testing had hearing loss on subsequent audiologic evaluation. Gestational ages were 36±5 weeks (M±SD) with birthweights 2483±975 gms. Clinical problems which they had in common included: lung disease requiring ventilation for 1 month; persistent fetal circulation; evidence of CNS insult (5 abnormal EEG's, 4 seizures, 2 hydrocephalus, and 1 documented parenchymal bleed). All received the following medications: ampicillin, gentamicin, furosemide, chlorothiazide, isoproterenol, and pancuronium. Their hospital stay was 81±23, range 53-124 days. Initial BAER testing using "click" stimuli at 60dB and 30dB in each ear was done at the time of discharge. (All infants were past term by corrected age.) Wave V responses occurred at latencies within the range of 7.5 to 8.5 msec at 60dB and 8.5 to 9.5 msec at 30dB (within normal limits). Audiologic evaluation using Conditioned Orientation Response (COR) was done at a mean age of 18±3, range 13-20 months. The level of hearing loss in all 7 children was severe to profound (> 80dB). We conclude that infants who have been very ill during the neonatal period, including term infants, may remain at risk for development of subsequent hearing loss even though they have passed a BAER test at 1-3 months of age.

56 ANXIETY IN MOTHERS OF MONITORED INFANTS (MOMI) AND FATHERS OF MONITORED INFANTS (FOMI). Dilip Purohit, Conway Saylor, Margaret Ford, Susan Crocker (Spon. by Paul Gillette), Medical University of South Carolina, Department of Pediatrics and Psychiatry, Charleston, South Carolina

A prospective study was undertaken to assess anxiety in parents whose infants were monitored at home for apnea. An adapted version of the "State" portion of the State-Trait Anxiety Inventory (STAI) was employed to assess parent's anxiety pertaining to their infants sleeping alone in another room and sleeping in the same room with the parents. The Trait portion of the STAI served as a measure of general anxiety. Twenty-five MOMI, as well as 9 mothers of full-term or premature nonmonitored infants (NonMOMI), were asked to complete the questionnaire at discharge and at 1 and 3 months post discharge. Six FOMI also completed the questionnaire at discharge.

The preliminary results indicate the following: 1) At discharge, MOMI reported significantly higher anxiety than the NonMOMI, around the issue of infants sleeping alone ($t=2.73$, $p<.01$), and higher anxiety around the issue of infants sleeping under their direct supervision. 2) For both situations, differences in anxiety between groups decreased at 1 month and nearly disappeared at 3 months. 3) Groups did not differ on "Trait" or general anxiety at any of the 3 intervals, and the general level of anxiety remained stable across trials. 4) Father's anxiety level for the situations namely, the child with him and the child sleeping alone, correlated with the mothers anxiety in all situations ($r=.78-.99$) and mothers anxiety of the same situation ($r=.99$), respectively. However, the father's general anxiety level did not correlate with any measures of the mother's anxiety.

57 SEXUAL VIOLENCE AND PLACEMENT OF CHILDREN, Dianne O. Regan, Sandra M. Ehrlich and Loretta P. Finnegan, Jefferson Medical College of the Thomas Jefferson University, Department of Pediatrics, Philadelphia, PA.

Family Center is a comprehensive program which provides obstetrical and psychosocial services and methadone maintenance for pregnant drug-dependent women and their infants. Between 1979 and 1983, 171 women on enrollment to the program completed our Violence Questionnaire. Objectives of the questionnaire were: 1) to ascertain episodes and degrees of violence experienced by the women, including acts of physical and sexual abuse occurring in childhood or as an adult. 2) to learn if women reporting a history of violence/abuse were more likely to have had children in foster care. Individual item responses on the questionnaire, reported in percentages, were:

QUESTION ITEMS	Raped As		Molested		Raped > once		Beaten As		Beaten As	
	Child	Adult	as Child	as Adult	Child	Adult	Child	Adult	Child & Adult	
% of 171	(20)	(19)	(31)	(08)	(19)	(65)	(15)			
Foster Care(40)	59*	44**	54*	77*	19	41	38			
With Mother(60)	41	56	46	23	81	59	62			

$p < .01$

$p < .05$

Of the 171 women studied, 40% had children in voluntary or involuntary foster placement. Women with a reported history of sexual trauma, particularly if occurring in childhood or repeatedly, were significantly more likely to have children in foster care ($p < .01$). Women who were physically abused (without sexual trauma) as children and/or adults were less likely to have their children in placement. This study suggests that failure to resolve childhood sexual trauma or coping with the trauma by use of illicit drugs, disrupts the ability of women to parent their own children. The effects of violence toward women, particularly when they themselves were children, may have untoward effects upon their own children.

58 OUTCOME OF INFANTS WITH BIRTHWEIGHTS <800 GRAMS. Seetha Shankaran, Mary P. Bedard, Eunice Woldit, Thomas Koepke (Spons. by Ronald L. Poland). Wayne State Univ Sch. of Med. and Children's Hosp of Mich., Dept. of Ped., Detroit, MI

A prospective study of 14 outborn infants <800g at birth and transferred <24 hrs of age to a tertiary neonatal intensive care unit was conducted to determine neurologic and developmental outcome. Mean birthweight was 750g ± 69g and mean gestational age was 28 ± 2 wks. 8/14 were small for gestational age and 6 were male. 5/14 infants required ventilatory support for ≥ 30 days and 3/14 had moderate or severe intracranial hemorrhage. Mean age at follow-up was 39 ± 10 mos (range 18-48). Growth measurements were <5 percentile in 3/14 for weight, 1/14 for height, and 4/14 for head circumference. There were no significant differences in growth between AGA and SGA infants.

The mean Bayley mental score for 3 infants <30 months was 85 and the mean motor score was 87. The mean score on the General Cognitive Index on the McCarthy scale for 8 infants was 84 ± 14.7. Subtest means were: verbal 40 ± 8, perceptual 44 ± 7.4, quantitative 40 ± 10.5, memory 40 ± 6.1, and motor 44.5 ± 6.1. Two infants with visual deficits were not tested. Neurologic sequelae were present in 2 infants, one with generalized hypotonia and one with a left hemiparesis. Visual deficits occurred in 2 patients, impaired hearing in 1, and impaired speech in 3. Neurologic outcome was not related to the duration of mechanical ventilation, severity of intracranial hemorrhage or intrauterine growth.

This study indicates that outcomes of infants with birth weight <800g who are outborn is much improved.

59 THE YALE CHILDRENS INVENTORY (YCI): A NEWLY DEVELOPED INSTRUMENT TO ASSESS CHILDREN WITH ATTENTIONAL DEFICITS AND LEARNING PROBLEMS. Sally E. Shaywitz, Carla Schnell, and Bennett A. Shaywitz, Yale Med. Sch. Depts. Ped. & Child Stdy Ctr.

The Yale Childrens Inventory (YCI), a parent questionnaire with DSM III criteria as its core, is designed for pediatricians to diagnose disorders characterized by academic difficulties, hyperactivity or attentional dysfunction. Scale construction resulted in 11 reliable narrow band scales (coefficient alpha internal consistency, $\bar{X}=.85$, $.72-.93$; test-retest $\bar{X}=.79$, $.61-.89$). Second order factor analysis yielded two broad bands: Behavior and Cognitive with Attention the only narrow band scale to load highly on both broad bands, providing empiric support to the notion that attentional problems are central to both behavioral and cognitive difficulties, and supporting DSM III nosology for Attention Deficit Disorder (ADD). A discriminant function based on the YCI scales classified normal and learning disabled children with a sensitivity of 82% and a specificity of 96%. Differential relationships of the YCI scales with a series of external criterion measures provides evidence for concurrent and predictive validity (2 years later). Based on DSM III criteria and demonstrating reliability and validity, the YCI represents a significant advance in the diagnosis and classification of children with attentional and learning problems.

60 DEVELOPMENTAL OUTCOME IN INFANT TRACHEOSTOMY. Lynn T. Singer, Carolyn Kerscmar, James Orłowski. Sponsored by Richard Martin, CWRU, Rainbow Babies' & Children's Hospital, Dept. of Pediatrics., Cleveland, Ohio.

Twenty-one survivors of long-term tracheostomy in infancy were seen for developmental follow-up at a mean age of 4.7 years (SD=1.6). Measures of intellectual ability (standardized IQ tests), growth (weight for age), and social and behavioral competence based on Child Behavior Checklist (CBC) were taken. The sample was primarily white (67%), male (57%) and middle class with a mean length of tracheostomy of 44 months (SD=31). Almost half (45%) were premature with 30% VLBW. One-quarter had some indication of neurological damage, although children with documentable mental retardation were excluded from follow-up. The group as a whole achieved a mean Full Scale IQ of 89.9 (SD=16), in the low normal range. Mean percentile of weight for age was 42.6 (SD=24). The majority of children showed significant behavioral and social problems with 70% scoring in the deviant range on at least one subscale of the CBC. Correlational analyses indicated that, within this sample, prematurity was associated with lowered IQ ($r=.59$, $p<.003$) and poorer behavioral functioning ($r=.42$, $p<.05$). Neurological impairment ($r=.49$, $p<.03$) and socioeconomic status ($r=.68$, $p<.002$) were associated with behavioral difficulties, but not intellectual problems. The present data suggest that the impact of infant tracheostomy on later development is complex and interactive with other biological and environmental factors.