AGE RELATED CHANGES OF THE PREVALENCE OF OBESITY IN USERS OF THE CHILDREN AND YOUTH NEIGHBORHOOD HEALTH 391

CLINIC. Marc Jacobson, Rolf Habersang, Norge Jerome Khatab Hassanein (Spons. by Cheng Cho). Depts. of Ped., Communi Med. and Biometry, Univ. Ks. Sch. Med., Ks. City, Ks. 66103 Studies in the U.S. show that within the lower socioeconomic Studies in the U.S. show that within the lower socioeconomic stratum black children are leaner than white children of same sex and age, but black women show a higher prevalence of obesity than their white counterparts. Thusly a retrospective study was under-taken to determine the age at which a significant change in the prevalence of obesity does occur in black girls. Charts of 580 girls, who used the Children and Youth Clinic during a three month period in 1976 were reviewed with respect to age beight month period in 1976, were reviewed with respect to age, height, weight, medical diagnoses. After exclusion of charts because of insufficient data or, because the individual's disease might af-

fect weight or height, 527 (91%) charts were available for study. Individuals from 1 through 19 years were divided into age groups of two year intervals. Weight for height was calculated for each individual using NCHS 1976 growth charts. The individu-als of an age group were then grouped according to the percent excess weight for height into groups: a) less than 110%, b) 110-120% (overweight) and c) more than 120% (obesity).

While the incidence of overweight did not significantly differ between age groups (p>0.05), the incidence of obesity increased significantly (p<0.001) between the group 11.1-13.0 and 13.1-15.0 years of age and persisted thereafter at the higher level. The etiology of this striking finding requires further study.

NORMAL BLOOD PRESSURE IN OFFSPRING OF PATIENTS WITH 392 ESSENTIAL HYPERTENSION.Bernard S.Kaplan,Hyman Fox, Ernest Seidman and Keith N.Drummond.McGill Univ. Montreal Children's Hosp.Research Inst.,Dept.of Nephrology, Montreal.Canada.

Essential hypertension is diagnosed with increasing frequency in children.Although the cause is unknown,familial and/or hereditary factors are considered important in the pathogenesis, and indeed an aggregation of blood pressure levels has been demon-strated in families.We measured during each of 2 consecutive summers the blood pressure of 94 offspring,47 males and 47 fe-males age 2.5-22 years, from 29 families in which at least one parent was being treated for essential hypertension. The subjects vere examined at home. The blood pressure was recorded after 15 minutes rest in the supine position; 3 values were obtained in each arm, and the mean of each of the systolic and diastolic pressures was considered as the subject's blood pressure.Hyper-tension was defined as a systolic and/or diastolic reading above the 95th percentile for age and sex(Pediatrics 56:3,1975).None of the subjects was hypertensive.

Failure to detect hypertension in this selected population which should theoretically be at risk because of hereditary and familial factors leads us to question current estimates of the incidence of essential hypertension in children, reported by some investigators to be as high as 2%. Furthermore values recorded under duress - e.g., doctor's office or hospital, should be regarded as potentially spurious.

393 NATURAL HISTORY OF PROTEUS MIRABILIS (PM) URINARY TRACT INFECTION (UTI) IN INFANCY AND CHILDHOOD. <u>Abdul</u> J. Khan, Ramesh C. Ubriani, Edith Bombach, <u>Harold Ratner</u> and <u>Hugh E. Evans.</u> Jewish Hospital and Medical Center of Brooklyn, Department of Pediatrics, Brooklyn, N.Y. PM is an unusual cause of UTI. A prospective comparison was add of elivited and benchmark.

made of clinical and laboratory findings in PM and E. coli (EC) patients. Twenty five consecutive cases of each represent-ing the first known UTI were followed for an average of 2 1/2 years. Both initial and subsequent episodes were treated for 10-14 days. Mean ages of PM and EC cases were 3 1/3 and 4 1/4 years respectively. The following differences were revealed.

	PM	EC	P valu	le	PM	EC P value
Males	22	2	-0.001	Pyuria	10	16 ≤0.05
Fever	5	10	>0.05	Abnormal IVP	1	5~0.05
Symptomatic	6	19	~0.001	# Recurred	9	12 -0.2
Proteinuria	4	7	×0.1	# of Recurrences	10	30 ~0.01
Hematuria	2	6	<0.05	<pre># Recurred after</pre>	4	0~0.01
				lvear		

PM UTI is therefore characterized by a relative paucity of clini-cal signs, urinary abnormalities and structural defects of GU call signs, uninary abnormanities and structural defects of GU tract and occurs predominantly in males. The proportion of PM patients developing recurrent infection within 1 year are somewhat less compared to EC patients. Moreover the number of recurrences per PM patient is significantly less and are extremely rare after one year (P < 0.01). Antimicrobial therapy of initial UTI in boys (pending culture results) should be planned to include the possibility of Proteus mirabilis.

ELECTIVE DELIVERY OF THE "TERM" FETUS - AN OBSTETRI-394 CAL HAZARD. M. Jeffrey Maisels, Richard Rees, Keith H. Marks, Zvi Friedman (Spon by Nicholas M. Nelson), Penn State Univ Coll Med, M S Hershey Med Ctr, Dept Ped. Hershey, PA.

Of 1,020 consecutive admissions to a regional neonatal center, 38 infants were admitted following elective delivery in which no medical condition of the mother or fetus had necessitated immediate delivery. Twenty infants had problems which were not, primarily, the result of elective delivery, but 18 developed hyaline membrane disease which was clearly related to premature delivery. Fifteen of these 18 infants were delivered by Caesarean section and in none of the mothers had any assesstory and physical examination) been attempted. These infants remained in the hospital for an average of 12.7 days at a mean cost of \$3456 per patient. One infant died. Elective delivery in the absence of pressing medical indications should not be undertaken without objective assessment of fetal maturity Failure to utilize available techniques may produce a cost in morbidity and mortality which cannot be defended.

BATHROOM SCALDS IN CHILDHOOD Elizabeth McLoughlin, 395 <u>Kent Stahl, John D. Crawford</u>, Harvard Medical School, Shriners Burns Institute, Dept. of Pediatrics, Boston Bathroom scalds, caused by hot water in bathtubs, sinks and showers are less frequent (48 patients, 26% of all acute scald patients at the SBI), but are significantly more severe than patients at the SBI), but are significantly more sever than "kitchen scalds." This comparison of severity can be made in terms of extent of burn (29% BSA vs. 15% BSA); depth of burn (50% had some 3° vs. 33% had some 3°); length of hospital stay (44 days vs. 34 days); and mortality (3/48 vs. 1/138). Forty percent of these children were between twelve and twenty-four months old, of these children were between twelve and twenty-four months old, and contrary to burn patterns overall, the majority were female. The bathroom fixture was identified in 40 cases: bathtub (32), sink (6), shower (2). It is possible to group these accidents into five behavioral categories: a) Momentary Lack of Supervi-sion (17); b) Child Abuse/Neglect (12); c) Sibling Interaction (8); d) Caretaker Misjudgement (6); e) Product/System Failure (5). The low level of public awareness about the severity of such scalds is evident when, in a telephone survey (1976) one half the respondents disagreed with the statement: "Water from a famet can cause a burn serious enough to hospitalize a person a faucet can cause a burn serious enough to hospitalize a person for a month." A public education campaign should include information about water temperature and exposure times which cause severe burns: (111.6°F for 20-25 minutes; 127.4°F for 30 sec-onds; 140.0°F for 3-5 seconds), proper safe settings for domestic hot water heaters as related to housing, water distribution, use and washing appliances, as well as proper parental precautions for bathroom safety of young children.

**396** ASPHYXIA NEONATORUM: A MAJOR CAUSE OF MORTALITY AND MORBIDITY. John C. Mulligan, Michael J. Painter, Patricia A. O'Donoghue, Hugh M. MacDonald, Alexander Allen, University of Pittsburgh, Magee-Womens Hospital,

Department of Pediatrics, Pittsburgh, PA. Consecutive liveborn deliveries (19,295) during 1970-72 were reviewed to establish the incidence, risk factors, and mortality rate associated with severe asphyxia. 214 infants (1.1%) were severely asphyxiated; mortality was 48%. A strong inverse correlation existed between both incidence of and mortality for as-phyxia, and gestational age (GA) and birth weight (BW), Table. Other predisposing factors were low socioeconomic status, history of fetal wastage, and complications of pregnancy or labor. As-phyxia occurred 4 times more commonly with both breech presentation and with non-elective cesarean section, regardless of GA.

Neurological and intellectual assessments were performed at a mean age of 4.9 yr on 69/77 survivors of yrs 1970-71. Mean IQ was 106; 49 (71%) of the survivors were completely normal. Severe handicapping defects were present in 13/69 (19%) and were equally frequent in term and preterm survivors. 8 had cerebral palsy (CP) with mental retardation (MR), 2 had CP alone, 2 had MR alone, and l was deaf.

In this series, asphyxia ly increased mortality, esp ly in the mid and high weig groups. The incidence of s sequelae was high but did n vary with BW or GA.

	BW	*Asphyx-	Mort.	(\$)
a great-	(kg)	iated	Asph.	None
pecial-	<1.0	52	96	76
ght	1.0-1.5	20	70	26
severe	1.5-2.0	10	41	4
not	2.0-2.5	3	21	1.4
	>2.5	0.4	18	0.1