MEDICAL GRAND ROUNDS May 12, 1260

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male, age 7g years. Admitted -59; died -59.

History: Some ten months prior to admission the patient first began to have earache, associated with loss of weight and appetite. There was slight improvement, but about four months later there, was recurrence of earache, and consultation was obtained. The patient was thought to have chronic otitis media, purulent, and was treated with antibiotics. Anorexia and weight loss continued and the child began to have daily fever and headache. Four weeks before admission, the patient was strong enough only to walk about the house. Diarrhea developed and lasted two weeks, during which the boy became severely dehydrated and eventually lost consciousness. He was then admitted to a hospital and received intravenous fluids. Three weeks before admission to this hospital the patient had recurrent drainage from the ears bilaterally.

Past History: The child was born , 1952. His birth and development were entirely normal and he had not had any previous illness.

Family Eistery: Mother and Lather are in good health as are the four siblings. There is no history of tuberculosis in the family and no known contact with tuberculosis. The child had lived in far west Texas most of his life. (These facts were obtained from the mother and father who are intelligent although they speak imperfect English.)

Physical Examination: Temperature 99, pulse 120, respiration 40, weight 23% pounds. General appearance was that of a severely ill and semicomatose boy of about the stated ago. Both ear canals contained whitish exudate. The neck was supple and the fontanels were closed. Heart and lungs were normal to physical examination. The liver was about three to four finger breadths below the costal margin in the right mid-clavicular line, but the spleen was not palpable. No abnormal neurological reflexes were obtained.

Laboratory: Hemoglobin 7.3 grams. WBC 8,000; P.69; L.21; M.1; Bands, 10. Urinalysis revealed large clumps of white blood cells, with many cells present, 2 plus albumin and a considerable number of casts. The bilirubin was 2.2 mgm2, mostly direct. Lumbar puncture revealed spinal fluid under normal pressure with normal sugar and protein and no cells. Blood ures nitrogen, potassium, sodium and calcium all were within normal limits.

X-ray: The initial film revealed a coarse miliary infiltration acattered throughout both lungs. There was no evidence of mediastinal adenopathy or pleural effusion. No cavitation was observed.

Course in Respital: The child was immediately started on intravenous fluids, and a tube was placed through the nose into the stemach through which feedings were begun. Initial drug therapy consisted of iron, PAS, isoniazid, and streptomycin. On the second and third days of his admission he received transfusions of 125 cc of whole blood. Temperature ranged during the first 10 days up to as high as 103° with swinging spikes. Thereafter, the temperature settled to around a maximum of 89.8° and continued so for approximately a week, when once again the wide swings recurred. At this time it was thought that drug reaction might be involved and the drugs were temporarily discentinued. Withdrawal of drugs had no effect and they were reinstituted almost immediately with the addition of the more usual antibiotics. A repeat lumber puncture

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revealed no evidence of meningities.

During the remainder of the child's hospital course he continued to present markedly abnormal urinery findings and to have an calarged liver, the splean finally became palpable at about 1 finger breadth below the left costal margin. Consultations from numerous services were held, but adduced no additional information. On ______, his fever was renging around 104? daily and there was epigostric and right upper quadrant tenderness. Surgical consultation was obtained and it was thought that there was no evidence of peritonitis at this time. The patient was placed on intravenous fluids and on gastric suction.

On ______, the lips and mails were noted to be cyanotic, and the liver was markedly enlarged and tender. He rather suddenly developed gasping respiration and died.

Other investigations not noted above included repeated white blood counts with a range of 8,000 to 18,000 with characteristically 85 polymorphynuclears, 10 lymphocytes, and 2 to 4 monocytes.

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