I shall present the history of an infant who was admitted to our premature nursery on May 9, 1956. This Puerto Rican male infant was born during the thirty-sixth week of an uneventful pregnancy. An antenatal serologic test for syphilis was negative. Delivery was spontaneous. Birth weight was 1070 gm. Physical examination on admission to the nursery revealed the liver to be 1 cm below the right costal margin and the spleen was firm, 1 cm below the left costal margin. Nothing else worthy of comment was noted and the infant was managed in a routine manner. The immediate newborn period was entirely uneventful, specifically neither petechiae nor unusual degree of icterus were noted. The ocular fundi were examined, as a matter of routine, during the third and fifth weeks of life and they were described as normal.

During the sixth week of life, when the infant weighed 2080 gm, it was suddenly noted that the abdomen was quite distended. Examination at this time disclosed marked hepatosplenomegaly, both organs were firm. Again neither icterus nor petechiae were noted. There appeared to be some difficulty in swallowing. Roentgenograms of the chest at this time were normal and of the skull revealed intracranial calcification which was displayed in a pattern that seemed to outline dilated lateral ventricles. Lumbar puncture yielded cerebrospinal fluid which was negative except for protein of 198 mg/100 ml. The urine and cerebrospinal fluid were examined for the cells characteristic of cytomegalic inclusion disease and none were found.

Funduscopic examination at this time disclosed an area of chorioretinitis in the right eye. It was presumed at this time that the infant had toxoplasmosis. Blood was obtained from the infant and his mother for the Sabin-Feldman dye test. The infant was discharged from the nursery weighing 2450 gm and doing moderately well.

He was followed in the outpatient department and at the age of 2½ months he was seen because of vomiting and otitis media. On examination the hepatosplenomegaly was again noted, and for the first time tremors of the extremities were seen. He was treated with antibiotics with no particular improvement in the vomiting, although the otitis responded. Poor feeding and vomiting persisted and as a result he was readmitted to the hospital at the age of 3 months.

On this admission the liver and spleen were felt at the iliac crest. Chorioretinitis was now evident in both eyes. Microcephaly (head circumference 5 sigma below mean as compared with minus 3 sigma in all other measurements) seemed obvious. Laboratory data were not particularly remarkable except for a low platelet count (60,000/mm³). It should be emphasized that no petechiae were evident on examination.

At 3½ months of age, while in the hospital, the infant developed signs of a respiratory infection. Pneumonia was suspected, a roentgenogram was obtained and pneumonitis of the left lung was disclosed. Antibiotics were administered and there was slow improvement. At this time the diagnosis of cytomegalic inclusion disease was reconsidered. Urine sediment now contained typical cytomegalic cells with intranuclear inclusions. In addition, gastric washings also contained cytomegalic cells with typical inclusion bodies. No such cells were found upon examination of the saliva.

At this time the report of the Sabin-Feldman dye test for toxoplasmosis was received and it was negative. A titer of 1:256 was reported in the mother's blood. Urine was sent to Dr. Thomas Weller in Boston and he reported finding a virus which appeared to be identical with a virus obtained from two other cases of
cytomegalic inclusion disease. We also obtained aqueous humor from which Dr. Robert P. Burns of the Institute of Ophthalmology isolated virus.

(The patient was presented.)

At present the infant is 4½ months of age and in fair health. There are additional areas of chorioretinitis in both eyes. As can be seen the head is quite small. The enlargement of the spleen and liver is still quite marked. Notice particularly that there are no petechiae and that the infant is not jaundiced.

We present this infant as an example of cytomegalic inclusion disease in a living child. There have been relatively few examples of this condition described in live infants. We wish to emphasize the point that the disease may be identified in infants who survive beyond the neonatal period.

As has been well described by Wyatt and Smith and Vellios, newborns with cytomegalic inclusion disease are usually born prematurely. They are usually noted to be ill either at, or shortly after, birth. Jaundice, purpura, hepatosplenomegaly and signs of marked involvement of the central nervous system have been the most distinctive features.

The patient being presented introduces a number of interesting considerations. First, this infant did not manifest signs in the immediate newborn period and, indeed, never exhibited jaundice or purpura. Secondly, chorioretinitis was noted, a lesion which has not previously been described in cytomegalic inclusion disease. From existing reviews of this condition described in live infants. We wish to emphasize the point that the disease may be identified in infants who survive beyond the neonatal period.

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that successive infants have not been involved; that is to say, infants following the diseased child have been normal. There are no reports of more than one case in a family. This leads to the prevailing opinion that there is no contraindication to further pregnancies.

**Dr. J. Graubarth** (New Orleans): In what percentage of specimens of gastric washings from this child would you expect the typical cell?

**Dr. Silverman**: As only two attempts were made, one successful, this cannot be answered.
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CLINICAL CONFERENCE: Cytomegalic Inclusion Disease

William A. Silverman

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