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自體免疫性甲腺低能症母親生產之家族性 新生兒過渡型甲腺低能症

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Familial Neonatal Transient Hypothyroidism Born by A Mother with Autoimmune Hypothyroidism

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A female newborn (H.R.) with hypothyroidism was detected by our neonatal screening program (TSH > 160 mU/L blood). Serum T₄, T₃ and TSH were 2.1 ug/dl, 21.6 ng/dl and 199 mU/L, respectively. Postnatal hypotonia, poor activity, poor feeding and prolonged jaundice were observed. Thyroxine replacement therapy was started at age of 23 days. Since the parents had been experienced in neonatal transient hypothyroidism with their first femal child (C.W.), they stopped the treatment of the infant (H.R.) at age of 3 months. The infant was found to be euthyroid since then. Their first child (C.W.) was also found as hypothyroidism (Serum T₄ 0.6 ug/dl and T₃ 29.2 ng/dl) due to postnatal hypotonia, poor activity and prolong jaundice in the neonatal period. The thyroxine replacement therapy was initiated at age of 28 days and lasted for 5 months. The euthyroid was kept after the self termination of thyroxine treatment.

Follow up study of these two children (Age: H.R. 9.5 months, C.W. 3 years and 5 months) found normal with thyroid function, thyroid scan (^{99m}Tc), bone age, and growth. But, of them had very mild mental development delay (IQ/DQ 78-85). Physical examination, including thyroid, of the mother was apparently normal. But hypothyroid function (Serum T₄ < 2.0 ug/dl, T₃ 48.3

ng/dl, TSH 38.0 mU/L) and serum antimicrosomal antibody (1:640) were found. The results indicated that this familial neonatal transient hypothyroidism may be caused by transplacental passage of thyrocytotoxic antibody from mother to fetus. The long term effects of this congenital (possible intrauterine) autoimmune thyroiditis and early thyroxine replacement therapy remain to be established.

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