Management of congenital hydrocephalus in the neurosurgery unit in assiut university

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SIIf1ARY This thesis Comprizes 2 parts. A subsidiary study on the cases of intra uterinehydrocephalus in the deliveries of one l'earin the obstetricdepartment. The basic study on 31 operated cases of Congenitalhydrocephalus by ventriculo-atrial shunt.this study emphasizeda complete History-clinical examination, follow upof Head circumference on special charts, x-ray skull ,Qperative procedure , post operative complications, andmortality,. These 31 cases were selected from 99 infantspresented to the out patient clinic of neurosurgery byhead enlargement, all the cases aged less than 2 years ,clinically suspected Cases of post~eningetic and posttumoral hydrocephalus were excluded. The results of the studies showed ~~e following4 cases of intrauterine hydrocephalull in 1140 deliveries(1 male, 3 females). The average age of the operated cases is 5 months. Sex-ratio of the presented cases male/female-74/25 compared to 23/8 in the operated group.45 of the mothers were primiparas.77 of maternal ages 11e in the age g]~UP 20-30 years. The commonest presenting complaint is progressive headenlargemeBJI. Late age presentation. The head circumference varied from 40-59CIII. • The thickness of cerebral mantle is I.nversely proportionalto the head circumference. • Craniofacial disproportion, sun set appearance, "tensewidely openedanterior fontanell and dilated scalpveins are a constant physical signs. On radiological examination we found thin skull bones, opened anterior fontanell, supra tentoJ~ial sutural separationcranio fascial disproportion are a Clonstantradiological signs. C.S.F. pressure is high in 29 C~lsesand low in 2cases, pudenz valve system is applied :I.nall cases mediumpressure in 29 cases low pressure in 2 Clases. The rightinternal jugular vein is cathetrized in (24 cases), thecammonfacial vein in 7 cases. Cardiac irregularities are noticed in most of the cases during instillation of the atrial catheter. Death in 3 cases It total mortality 9.6) due to ventriculitis in 2 cases imd subduralhaematanain 1 cases. Valve obstruction in 3 cases. Revision revealed obstruction of the vEIntricular catheterby brain matter in the 3 cases. The aVElrageduration offollow up after operation is 8 months.