

Outcome of sonographic detected isolated choroid plexus cyst in IVF-concieved pregnancies

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Aims and objectives

Choroid plexus cysts (CPCs), small fluid-filled structures constituted from the lateral ventricles of the fetus brain, are found in second trimester screening sonography (Fig.1). Several studies have assessed the correlation of T18 and CPC in these situations, but few ones have discussed about isolated CPC (with no other abnormal sonographic findings). The aim of this study was to determine the outcome of isolated fetal choroid plexus cyst (CPC) detected by prenatal sonography and to specify its clinical significance.

Images for this section:



Fig. 1: Two echo-free cystic regions with diameter of approximately 7mm are detected in lateral ventricles, suggestive of fetal CPC.

Methods and materials

This cross-sectional descriptive study was carried out using the archive of Royan Institute in Tehran, Iran, between April 2009 and December 2012. Overall, 6240 prenatal screening sonographies were performed in our imaging department during this period, and isolated CPC was detected in 51 fetuses. Mother serum screening tests, fetal echocardiography and amniocentesis were evaluated in patients with isolated CPC. A follow-up phone call was made to all individuals to learn about the neonatal outcomes. Data was analyzed by SPSS16 using descriptive statistics.

Results

Total number of 6240 pregnancies were assessed and isolated CPC was present in 51 cases. Results of double test (N=24), triple test (N=2) and fetal echocardiography (N=18) were normal. Quadruple test result showed 3 abnormal out of 19 cases that all had normal karyotypes (Fig.2). During the investigation, one sample was dropped out due to preterm birth (PB). We found that outcomes of all remaining fetuses (N=50) were normal and no anomaly was seen right after birth (Fig.3).

Images for this section:

Fig.1: Prenatal investigation of fetuses with isolated CPC

	Total	Normal	Abnormal
Double Test	24	24 (100%)	0
Triple Test	2	2 (100%)	0
Quadruple Test	19	16 (84.2%)	3 (15.8%) Normal Karyotype
Fetal Echochardlography	18	18 (100%)	0
Amniocentesis	3	3 (100%)	0

Fig. 2: Results of mother serum screening tests correlated with sonography results in fetuses with isolated choroid plexus cyst

Fig.2: Outcome of isolated CPC

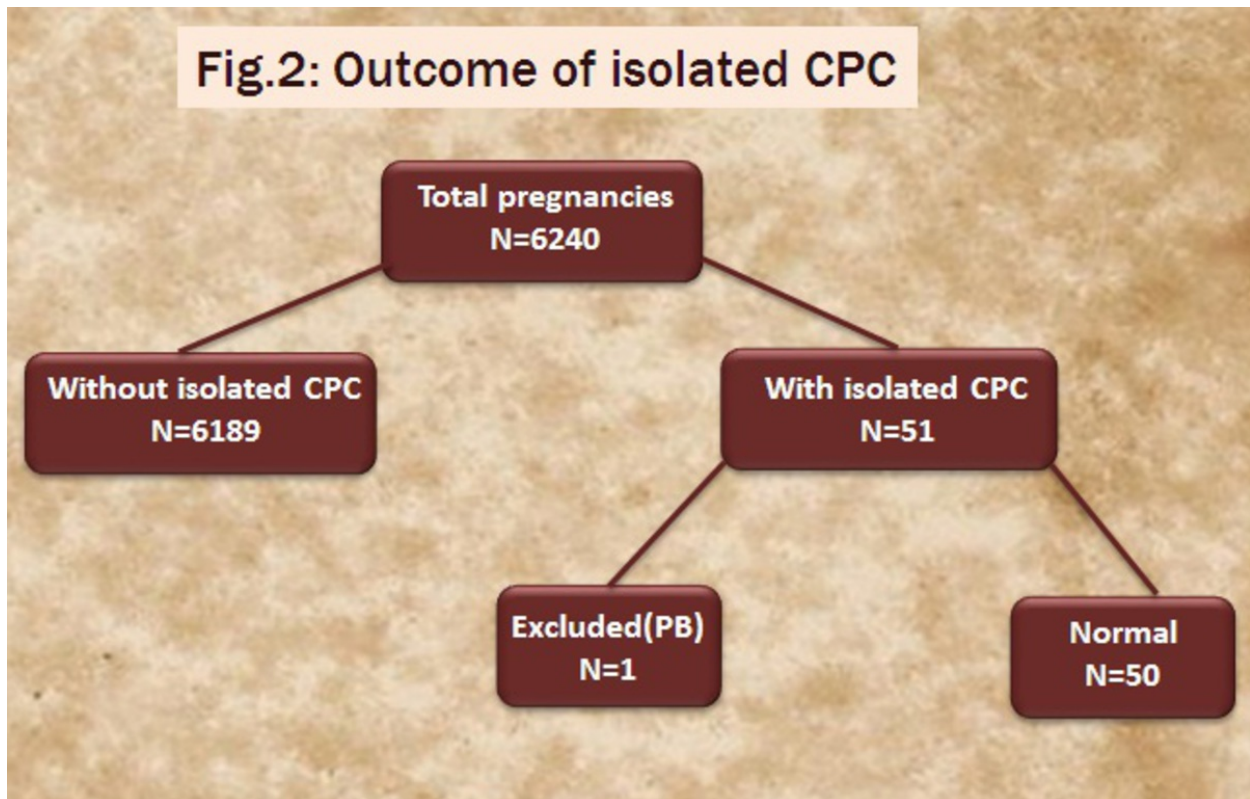


Fig. 3: Outcome of Isolated fetal CPC

Conclusion

Our study indicated that Isolated CPC is a benign regressive condition with no clinical significance.

Personal information

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