

妊娠早期产前诊断的研究绒毛六种酶的测定

吴晔, 周宪庭

(中国科学院遗传研究所, 北京)

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摘要 以妊娠6.5-10周经人工流产后完全发育的叶状绒毛为材料, 用等电聚焦和淀粉凝胶电泳方法分析了绒毛的磷酸葡萄糖变位酶, 6-磷酸葡萄糖酸脱氢酶、腺苷激酶、酸性磷酸酶、西旨酶D和腺昔脱氨酶探讨了这些酶活性定量测定的方法, 报道了绒毛6种酶活性的正常值, 为某些代谢病的孕早期产前诊断奠定了基础。

关键词

分类号

Study of Prenatal Diagnosis on First Trimester of Pregnancy Six Enzymes Determination for Chorionic Villi Samples

Wu Ye Zhou Xianting

(Institute of Genetics, Academia Sinica, Beijing)

Abstract

Chorionic frondose villi obtained from 6.5---10 weeks gestation after induced abortion in 187 pregnant women were used for biochemical assays. The acid phosphatase (ACP, EC, 3. 1. 3. 2.), phosphoglucomutase (PGM, EC, 2. 7. 5. 1.), adenylate kinase (AK, EC, 2. 7. 4. 3.), 6-phosphogluconate dehydrogenase (6-PGD, EC, 1. 1. 1. 44.) lesterase D (EsD, E C, 3. 1. 1. 1.) and adenosine deaminase (ADA, EC, 3. 5. 4. 4.) were analysed with starch electrophoresis and 1EF. We explored the methods of quantitative determination of the enzyme activities and the normal ranges. This work provides bases for prenatal diagnosis on the first trimester of pregnancy in some metabolism diseases. Levels of activity of the six enzymes tested are: ACP, $x=136.32$ (AA/mg protein $\times 10^3$); PGM, $X=10.88$ AK, $X=18.02$; 6-PGD, $X=4.81$ (umol NADPH/g protein \cdot min), EsD $X=1.43$, ADA $X=4.45$ (nmol/mg protein/min) respectively. Received February 8, 1985.

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