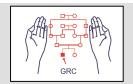
Prenatal Diagnosis of Trisomies

Genetics Resource Centre (GRC)



Prenatal diagnosis of the common trisomies can be done either by the conventional cytogenetic analysis or by PCR amplification of the Short Tandem Repeats (STR). The cytogenetic analysis usually takes longer than the PCR based method. At GRC we have developed sensitive method of detecting the common trisomies (13, 18 & 21) in the CVS DNA. The report is usually available within a few days. The chances of misdiagnosis are around 0.5%.

Who needs the test?

The couples who already have children with Downs syndrome or in whom the screening tests like triple test or ultrasound are suggestive of Downs syndrome are advised to have confirmation by fetal sampling and its testing in the lab. The chances of having a baby with Downs syndrome increase with increasing age of the parents. The couples in age group 35 plus are also advised to have prenatal diagnosis for Down syndrome.

What samples are required?

In addition to the fetal sample we require 2 ml blood in EDTA of the father, mother and the previously affected child (if any). The test can usually be done without the samples of the father and the previously affected child. However, in certain situations the father's sample may also be required for completing the test

Are there any limitations in the prenatal diagnosis of Trisomies?

The rapid PCR based screening for trisomies can be done in nearly 95% of the couples. However, in the remaining 5% no confirmatory result can be obtained.

Is termination of pregnancy for genetic disorders permissible in Islam?

Most religious scholars in Pakistan, including Molana Mohammad Taqi Usmani, agree that Islam permits termination of pregnancy for a serious genetic disorder in the fetus provided it is done before 120 days (17 weeks) of gestation.

ن بن ، الرج لي تمنين كذاب ول س كر سارى لن فالسي كول deni is collis desienalingon Lottore در سان کو این بر اور مورد کردن بر مورد کردن م و فالم الناف المالمند في المالية المرادة المرا ما تندند سراع بالحفوص جبكه اسكان موجدة كم طبق داورك بوالكالع وي نهوع درورف درست بو سكر بيدائش ما بد الله كامكر - ي تندة ٢- السبة على س مان ليذ - قبل أكر لمي تحقيق س على س كرو 5 your Vale 1 of ment laid blost who proper west & cost -colossocias autores ف ا وث سَيَّة شاك فوالشهر نقي هل يباح ويوستاط لبدا لحل المم يناح سال تبحلن سنه سشيئ ولمن تكرن ذلاك الآبع ساتة دعتهن يوط وحزالقتفني أنم إطاولا بالتخليق نغخ الروح وإثوفهوني لطؤن التخليق يتجقف بالمث حرثم قبل حذ المسَّةُ كذا فَي الفَحْ والملاقم يغيه عن توقف جزار استعلمنا قبل المرَّة المذكورُ المعلم المستواح عوق كراهية إلى نبط مراد المواصل بالمان أعلى وكريس السيد على أول المؤدن المؤدن المعليد فلا المان المستوان المان المستوان المواسط إلى المستوان المستوان المواسط إلى المستو المقالسة المستوان المستو 510/9/10 / 1 1637550

