Rease note that the second sec



the homepage

% Please note that the QR code links in this document may not be available in Fr

出生前検査認証制度等

運営委員会

		× Flease Hole	e that the QIV Code links	in this document may no	De avaliable in Erigiis	
You have probably heard of prenatal tests called "amniocentesis" and "chorionic villus sampling" (CVS), which are both						
conventional methods used to detect chromosomal diseases in babies before birth. These tests are definitive, but invasive						
(including needle insertion into the uterus); therefore, the risk of miscarriage cannot be ruled out.						
NIPT has been developed as a non-invasive screening test — i.e., without any invasion of the pregnancy — and offers a means						
to test for the risk	s of a baby having a chromosomal disorder.					
This instruction	n contains important information for expectant mot	thers and their famili	es considering	whether to unde	rgo NIPT. 🛛 🚪	
	•NIPT is a test used to estimate the possibility of fetus having chromosomal anomalies called trisomies — such as trisomy 21, trisomy 18 and trisomy 13					
	• The test is available from 9-10 weeks of pregnancy. It only requires 10-20 ml of blood from the mother.					
INIPT is a screening test that examines small fragments of DNA (cell-free DNA, cfDNA) circulating in the blood of					egnant women.	
Overview	•Approximately 10% of the cfDNA floating in the mother's blood is of placental origin. As it does not always match the DNA					
σ	fetus itself, the results may be slightly less accurate. Therefore, the NIPT is considered a highly accurate test; however, it can tell you how likely it is that your baby has a chromosomal difference.					
NIPT						
	 The results are reported as "positive," "negative," or "ir 	• The results are reported as "positive," "negative," or "inconclusive." "Positive" indicates a high probability of chromosomal disorders.				
	• If you test "positive" for NIPT, it is necessary to have a definitive test (amniocentesis or CVS) performed, while in the case of					
	"inconclusive," you need to consult again on the possible subsequent actions that can be taken.					
	 Most individuals have 46 chromosomes, consisting of 	22 pairs of autosomes	(numbered 1-22) a	ind a pair of sex cl	nromosomes (XX	
	or XY).					
•Each chromosome contains a large number of genes that provide a blueprint for the body's structure and functio					high defendenced	
Chromosomes?	•Changes in the number or structure of chromosomes can affect fetal growth and development, which can result in birth defe					
Privatical characteristics.					overnle tricery	
	21 indicates that a baby has 3 copies of chromosome 21 ("Tri"- is Greek for "three")					
	•NIPT is a test performed to estimate the possibility					
	of trisomy 21, 18, and 13. No other abnormalities		Tera 5	togen %		
	are detected.			Other 16%	s	
What NIPT	► About 3-5 out of every 100 babies are born with	Congonital diseases	Multifactorial	Sex chromosome		
can and cannot	congenital diseases.	3~5%	40% Chromoso	abnormalities 13%	Trisomy 21 (Down syndrome)	
	► Of these, chromosomal abnormalities account for	Con	anomalie 25%	Trisomy 12	53%	
ten us	approximately 25% of all the diseases. Moreover,		variants 10% Single-gene	5%		
	70% of these abnormalities are trisomy 21, 18, or 13. According to the calculation, 0.7 out of 100Trisomy 18 13%					
	babies have one of those trisomies.	ses and chromos	ome anomalies.			
	alt has been reported that the rick for trisemy	(Thompson & Thompson Genetics in Medicine 8th Edition Saunders 2016; Wellesley D, et al. Eur J Hum Genet 2012: 20:521)				
Matornal ago	increases with meternel and			,		
water har age	Not every kind of chromosomal anomaly shows a	Maternal age at delivery	Trisomy 21	Trisomy 18	Trisomy 13	
and trisomy	clear correlation with maternal age.	20	1/1441	1/8300	1/12500	
		30	1/959	1/7200	1/11100	
	 Any baby can be born with a congenital disorder 	35	1/338	1/3600	1/5300	
	that is sometimes caused by chromosomal	40	1/84	1/740	1/1400	
	anomalies. Congenital disorders may give the	45	1/30			
	baby unique characteristics which can be regarded Table. The frequency of trisomy in relation to maternal age as a part of their individuality, and what is more,					
Congenital	human diversity as a whole.					
disorders	disorders					
as divorsity	•Whatever situation you are in, don't forget that you are never alone. The government has attempted to build a mutually supportive and acceptable society that provides public services					
as urversity						
	•Individual choice should be respected, including the decision to terminate or					
	continue pregnancy. Some groups provide peer support to mothers and their NPO for Family and Raby Wellness					
families to help them make more informed decisions.						
	,					
For prenatal testing, we a	are in collaboration with the facility (core hospital) below.	Pediatricians o We collabora	could also be consult ate with a "prenatal c	ed before and after to solve and after to solve and after to solve a solve and after a solve and a solve and a	the test. pelow.	

Facility Name: Physician in charge: Facility Address: Contact:

Physician Name: Facility Name:

Contact:

Health Labour Science Research Grant Project in FY2021 (Basic Research on Raising Next-Generation Children, including Overcoming Children's Diseases) "Research on the Establishment of a System for Providing Prenatal Diagnoses"