





To: Gopal Krishna Nursing Home-Kanpur Saket Nagar Uttar Pradesh Kanpur - 208023 Contact:	Sample ID Patient ID Received on Registered on	2110039087 1002111132 05/05/2021 13:24 06/05/2021 16:32
Report Of: Mrs. RENU DHEERU	Reported on	07/05/2021 10:19
Pt. Contact: 9140147573	Referred by	DR.SADHANA SINGH
	Sonography by	DR.POONAM MEHROTRA

EVICOSCREEN - EVIDENCE BASED COMPREHENSIVE PRENATAL SCREENING REPORT

Patient Name: Mrs. RENU [DHEERU	Patient DOB: <u>24/12/1985</u>	
Ethnicity: Asian	City: KANPUR	Hospital ID:	

Ethnicity: Asian

Hospital ID:

Risk assessment: Algorithm validated by SURUSS 2003, N.J Wald

Sample Type: Serum

Method: Time-resolved Fluroimmunoassav

EVIC Screen" is an evidence based prenatal screening program curated by Lilac Insights in accordance with the Fetal Medicine Foundation (UK) guidelines for First Trimester Screening to determine the probability of most common chromosomal aneuploidies in a pregnancy. It utilizes:

Hormonal values from the pregnancy measured on Fetal Medicine foundation (UK) accredited analyzers and reagents

Robust indigenous medians from over 5 lac+ pregnancies for different gestation ages

• Risk calculations from evidence based algorithms validated through large international studies

• External audit of the prenatal screening program by United Kingdom National External Quality Assessment Service (UKNEQAS) scheme and Randox International Quality Assessment Scheme (RIQAS)

R	ISK ASSESSMEN	١T		
T21 (Down syndrome)	1:566	🥚 Intermediate Risk	LOW	INTERMEDIATE HIGH
T18 (Edwards' syndrome)	1: 100000	Low Risk	LOW	HIGH
T13 (Patau syndrome)	1:100000	Low Risk	LOW	HIGH

INTERPRETATION

The First Trimester Screening for the given sample is found Intermediate Risk for Down Syndrome.

SUGGESTIONS AND OTHER FINDINGS

• In view of intermediate risk (Risk between 1:251 to 1:1000), further counselling is recommended.

• Latest guidelines suggest further evaluation of intermediate risk patients by the following options as indicated:

a) Integrated screening with detailed Genetic Sonogram (Detection rate: 92-95%), ref: Kypros Nicolaides et al, Fetal Diagn Ther 2014;35:174-184.

b) Non- Invasive Prenatal Testing/ Screening (NIPT) (Detection rate: ;99%), ref: ISPD guidelines 2015.

c) Definitive testing through Fetal Karyotyping.

In view of the raised serum free β hCG, fetal growth scan is suggested at 28 - 30 weeks in addition to their routine antenatal care.



UK NEQAS Verified by Mr. Pradip Kadam nal Quality Ev Lab Reg. No. 90968

Incharge Biochemistry

Verified by Dr. Suresh Bhanushali MD (Path), Consultant Pathologist



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DDECKLANICK DETAIL



Sample ID: 2110039087

Patient name : Mrs. RENU DHEERU

			PREGNANC				
No. of fetuses	:1		EDD	:03/11/2021	Age at Tern	n :35.9`	Years
GA is Based on	: CRL 64mm at 26	/04/2021	LMP Date	:28/01/2021	LMP Certai	nty : Regu	lar
Smoking: None	Parity :		Height	:	Weight	: 57.0	Kg
FHR :							
Prev	ious pregnancy hist	ory	Pre-ec	lampsia history		Other fin	dings
Down synd	rome Edwards'	syndrome	PE in pro	evious pregnancy	Insul	in depende	nt diabetes
Patau syndi		-		her had PE		nic hyperte	
EDD: Estimated D	ue Date GA: Gestation Age	e LMP: Last N					
			of Bi				
			SPECIMEN	DETAILS			
Sample ID	:2110039087	CRL :	64 mm	Test Name	Conc.	Unit	Corr. Mom
Collection Date	:02/05/2021	CRL2 :		Free-ß-hCG	64.89	ng/mL	2.08
Scan Date	:26/04/2021	BPD :		PAPP-A	10800.00	mU/L	1.90
GA at Coll Date	10141 1 10						
GA at COILDALE	: 13 Weeks 4 Days	BPD2 :					
GA at Scan Date		BPD2 : HC :					
GA at Scan Date Received on	e : 12 Weeks 5 Days : 05/05/2021 e CRL: Crown Rump Length	HC : HC2 : h BPD: Bi-par	rietal Diameter HC:	Head Circumference free gnancy-associated Plasma		Human Chori	ionic Gonadotropin
GA at Scan Date Received on	e : 12 Weeks 5 Days : 05/05/2021 e CRL: Crown Rump Length	HC : HC2 : h BPD: Bi-par	rietal Diameter HC:	egnancy-associated Plasma		Human Chori	ionic Gonadotropin
GA at Scan Date Received on	e : 12 Weeks 5 Days : 05/05/2021 e CRL: Crown Rump Lengtl NT: .	HC : HC2 : h BPD: Bi-par	rietal Diameter HC: ucency PAPP-A: Pre	egnancy-associated Plasma	Protein-A	Human Chorn	
GA at Scan Date Received on GA: Gestation Age	e : 12 Weeks 5 Days : 05/05/2021 e CRL: Crown Rump Lengtl NT: .	HC : HC2 : h BPD: Bi-par	rietal Diameter HC: ucency PAPP-A: Pre	egnancy-associated Plasma	Protein-A		
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5	e : 12 Weeks 5 Days : 05/05/2021 e / CRL: Crown Rump Length NT: : Syndrome	HC : HC2 : h BPD: Bi-par Nuchal Transl	rietal Diameter HC: ucency PAPP-A: Pre RISI	egnancy-associated Plasma	Protein-A		
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5	 : 12 Weeks 5 Days : 05/05/2021 <i>cRL: Crown Rump Length</i> NT: 1 Syndrome 566 250 	HC : HC2 : h BPD: Bi-par Nuchal Transl	rietal Diameter HC: ucency PAPP-A: Pre RISI 1:356	egnancy-associated Plasma <s Re</s 	Protein-A		
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5 Cutoff 1:2 Disorder: Edwar	 : 12 Weeks 5 Days : 05/05/2021 <i>cRL: Crown Rump Length</i> NT: 1 Syndrome 566 250 	HC : HC2 : h BPD: Bi-par Nuchal Transl	rietal Diameter HC: ucency PAPP-A: Pre RISI 1:356	egnancy-associated Plasma <s Re</s 	Protein-A sult: Intern	nediate Risk	
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5 Cutoff 1:2 Disorder: Edwar Final risk: 1:5	e : 12 Weeks 5 Days : 05/05/2021 e / <i>CRL: Crown Rump Length</i> <i>NT: .</i> Syndrome 566 250 rds' Syndrome	HC : HC2 : h BPD: Bi-par Nuchal Transl Age risk: Risk type	rietal Diameter HC: ucency PAPP-A: Pre RISI 1:356 Risk At Term	egnancy-associated Plasma <s Re</s 	Protein-A sult: Intern	nediate Risk	
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5 Cutoff 1:2 Disorder: Edwar Final risk: 1:5	e : 12 Weeks 5 Days : 05/05/2021 e / <i>CRL: Crown Rump Length</i> <i>NT: :</i> Syndrome 566 250 rds' Syndrome 100000 100	HC : HC2 : h BPD: Bi-par Nuchal Transl Age risk: Risk type Age risk:	rietal Diameter HC: ucency PAPP-A: Pre RISI 1:356 Risk At Term 1:3201	egnancy-associated Plasma <s Re Re</s 	Protein-A sult: Intern	nediate Risk	
GA at Scan Date Received on GA: Gestation Age Disorder: Down Final risk: 1:5 Cutoff 1:2 Disorder: Edwar Final risk: 1:5 Cutoff 1:2 Disorder: Patau	e : 12 Weeks 5 Days : 05/05/2021 e / <i>CRL: Crown Rump Length</i> <i>NT: :</i> Syndrome 566 250 rds' Syndrome 100000 100	HC : HC2 : h BPD: Bi-par Nuchal Transl Age risk: Risk type Age risk:	rietal Diameter HC: ucency PAPP-A: Pre RISI 1:356 Risk At Term 1:3201	egnancy-associated Plasma <s Re Re</s 	sult: Intern	nediate Risk Low Risk	





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Sample ID: 2110039087

Patient name : Mrs. RENU DHEERU

PRENATAL SCREENING BACKGROUND

Every pregnant woman carries a certain degree of risk that her fetus/baby may have certain chromosomal defect/ abnormalities. Diagnosis of these fetal chromosomal abnormalities requires confirmatory testing through analysis of amniocytes or Chorionic Villous Samples (CVS). However, amniocentesis and CVS procedures carry some degree of risk for miscarriage or other pregnancy complications (Tabor and Alfirevic, 2010). Therefore in routine practice, prenatal screening tests are offered to a pregnant woman to provide her a personalised risk for the most common chromosomal abnormalities (T21-Down syndrome, T18- Edwards' syndrome, T13- Patau syndrome) using her peripheral blood sample. Based on this risk assessment, if the risk is high or intermediate, you can take informed decision of opting for invasive procedure such as amniocentesis or CVS followed by confirmatory diagnostic test(s), as per discussion with your clinician.

PRENATAL SCREENING TESTS ARE NOT CONFIRMATORY TESTS. THEY ARE LIKELIHOOD ASSESSMENT TESTS.

You may get your prenatal screening result as either of the following:-

High Risk

High Risk or Screen Positive Result: A High Risk Result does not mean that the pregnancy is affected with the condition. It means that the likelihood of the pregnancy having a condition is higher than the cut-off (Most commonly used cut-off is 1:250 and this represents the risk of pregnancy loss from confirmatory testing through CVS or amniocentesis).

Low Risk

Intermediat

Low Risk or Screen Negative Result: A Low Risk result does not mean that the pregnancy is not affected with a condition. It means that the likelihood of the pregnancy having a condition is lower than the cut-off.

Intermediate Risk result: An intermediate Risk result means that the pregnancy has an equivocal or a borderline risk of being affected with a condition. In this case, you may want to choose a second stage screening modality like an Integrated Screening Test that is done between 16 to 20 weeks of pregnancy or a Non-invasive Prenatal Screening Test between 12 to 20 weeks of pregnancy before taking a decision on an invasive confirmatory testing. This will help you improve the sensitivity of the screening test keeping an invasive test a last option were you to come as a high risk in the second stage screening test.

SIGNIFICANCE OF MULTIPLE OF MEDIANS (MoMs)

Prenatal Screening determines the likelihood of the pregnancy being affected with certain conditions by analysing levels of certain hormones. These hormones are Feto placental products (released by Fetus or placenta). Their levels not only indicate propensity of the fetus being affected with certain chromosomal conditions, they also provide indication of placental insufficiency that can potentially lead to pregnancy complications like Pre-Eclampsia or Intra-Uterine Growth Restriction. It is therefore important to take cognisance of the Reported MoMs alongside the Risk results.

For more information, visit our website at: <u>www.lilacinsights.com/faq-pns</u>

DISCLAIMERS

Limitations of the Test:

As prenatal screening tests are not confirmatory diagnostic tests, the possibility of false positive or false negative results can not be denied. The results issued for this test does not eliminate the possibility that this pregnancy may be associated with other chromosomal or sub- chromosomal abnormalities, birth defects and other complications.

Nuchal Translucency is the most prominent marker in screening for Trisomy 13, 18, 21 in the first trimester and should be measured in accordance with the Fetal Medicine Foundation (UK) guidelines. Nuchal Translucency or Crown Rump Length measurement, if not performed as per FMF (UK) imaging guidelines may lead to erroneous risk assessments and Lilac Insights bears no responsibility for errors arising due to sonography measurements not performed as per these criteria defined by international bodies such as FMF (UK), ISUOG.

It is assumed that the details provided along with the sample are correct. The manner in which this information is used to guide patient care is the responsibility of the healthcare provider, including advising for the need for genetic counselling or additional diagnostic testing like amniocentesis or Chorionic Villus Sampling. Any diagnostic test should be interpreted in the context of all available clinical findings. As with any medical test, there is always a chance of failure or error in sample analysis though extensive measures are taken to avoid these errors.

Note:

- Quality of the Down syndrome screening program (Biochemical values, MoMs and Risk assessments) is monitored by UKNEQAS on an ongoing basis.
- This interpretation assumes that patient and specimen details are accurate and correct.
- Lilac Insights does not bear responsibility for the NT & CRL measurements. We strongly recommend that NT/ CRL measurements are performed as per FMF (UK)/ISUOG practice guidelines.
- The above risk has been calculated based on Biochemistry values alone.
- It must be clearly understood that the results represent risk and not diagnostic outcomes. Increased risk does not mean that the baby is affected and further tests must be performed before a firm diagnosis can be made. A Low Risk result does not exclude the possibility of Down's syndrome or other abnormalities, as the risk assessment does not detect all affected pregnancies.





END OF REPORT



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