AmPath Central Reference Laboratory:
Door No. 1-100/1/CCH Nallagandla, Serilingampally
Hyderabad – 500019
040 6719 9977
www.ampath.com

AMPATH
ACCURATE DIAGNOSTICS. AMERICAN STANDARDS.
In collaboration with
UPMC LIFE CHANGING MEDICINE

LABORATORY REPORT

PATIENT INFORMATION
Mrs. PRIYANKA .

AGE	: 37Y
GENDER	: Female
PRIORITY	: Routine
OP / IP / DG #	:

REFERRED BY
Dr.Priya Mishra
ADVANCE DIAGNOSTIC CENTER
Lab MR #: 5769834

SPECIMEN INFORMATION

SAMPLE TYPE	: **Serum.**
ORDER REQ. NO	: OREQ-LAB-22-3048127
LAB ORDER. NO	: 2215253755
COLLECTED ON	: 06-Jun-2022 00:00
RECEIVED ON	: 08-Jun-2022 15:35
REPORT STATUS	: **Completed**

BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Maternal Screening (Second Trimester) - Quadruple Markers				
Type of Pregnancy	Single			
Patient Specifications				
Weight	69.0		Kg	
H/o Insulin Dependent Diabetes	No			
Ethnic Origin	INDIAN			
Maternal Age at Term	37		Years	
USG Findings				
Date of Ultrasound	15-05-2022			
Gestational Age in Weeks on Ultrasound	13W 3D			
Biochemical Results				
Alpha Feto Protein - AFP (Maternal Screening) (CLIA)	25.80		ng/mL	
MOM for AFP	0.68			
hCG - Maternal Screening (CLIA)	33300.00		mIU/mL	
MOM for B-HCG	1.30			
Estriol Unconjugated - uE3 - Maternal Screening (CLIA)	0.42		ng/mL	
MOM for uE3	0.56			
Inhibin A - Maternal Screen(CLIA)	341.4		pg/mL	
MOM for Inhibin-A	2.39			
Risk Ratio Calculations				
Down's Syndrome (T21) Risk Per Maternal Age	1:229			
Down Syndrome(T21) Risk Ratio as per combined assessment of maternal age,biochemical results & usg findings	**>1:50**	H		
T18 Risk as per combined assessment of maternal age,biochemical results & usg findings	1:6271			

Interpretation

The trisomy risk was calculated based on ultrasound gestational age, Quadruple marker results, patient demographics and other risk factors etc.
Neural Tube Defects (NTD): The calculated MoM of AFP (0.68), found below the established normal cutoff of 2.5MoM, indicates low risk for fetal ONTDs at delivery date.
Trisomy 21(Down syndrome) & Trisomy 18 (Edwards' and Patau's syndrome) risk: The calculated risks for **trisomy 21 (>1:50) found in the high risk category** and trisomy 18 (1:6271) found in the low risk category, according to the established normal cutoff ratio of 1:250 (Refer Down's syndrome screening report). Please correlate clinically.

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Quadruple Marker screening performance (for information)

Fetal abnormalities	Risk cut-off	Detection Rate (%)	FPR (%)
Neural tube defects *(NTDs)*	AFP MoMs ≤2.5	Up to 81% (with quadruple markers) or Up to 90% (with Quadruple markers & ultrasonography	<3-5%
Trisomy 21 *(Down Syndrome)*	1:250		
Trisomy 18 *(Edward &* Patau's syndrome*)*	1:100		

Note: FPR: false positive Rate; MoMs: Multiples of Medians

Remarks

- The Quadruple marker is an effective & noninvasive maternal blood test, performed in 2nd trimester to identify the risk of pregnant women for Down syndrome (Trisomy 21), Edward & Patau's syndrome (trisomy 18) & Neural Tube Defects (ONTDs). This screening test measures the levels of four substances, AFP, Beta hCG, uE3 & Inhibin-A in the maternal blood. Ideally all pregnant women should be screened for prenatal disorders irrespective of maternal age
- Quadruple marker risk calculation is generated by using : Prisca 5.0.2.37 software based on Quadruple marker results, demographics like maternal age, weight, gestational age/LMP date, race and other risk factors like insulin dependent diabetes (IDD), smoking habits (if any) etc. Hence estimated risk calculations are dependent on accurate information provided by the patient. Inaccurate information can lead to false-positive or false-negative results
- Patient specific risks are generated in the form of analytical MoM (Multiples of Median) values and risk cutoff percentages and it represent the likelihood ratios for each parameter falling into an affected or unaffected risk for trisomy 21 & 18 based on the maternal age
- As the risk calculations are statistical approaches and have no diagnostic value a negative test does not necessarily rule out the absence of fetal defects and a positive test is not diagnostic but suggests need for further diagnosis. Hence a high risk report should be followed by tests like Amniocentesis for confirmation
- In case, if the provided LMP date/gestational age or other risk factors etc. needs any correction, the risk analysis will be recalculated according to the corrected parameters to avoid technical errors, if any

SOFTWARE GENERATED GRAPHICAL REPORT ATTACHED OVERLEAF.

Dr. Mohammad Ibrahim Shaik
Consultant
10-Jun-2022 18:38

Checked by Mr. Prabhakar Burigari
Senior Lab Technician

-----Analytical Report Attached-----

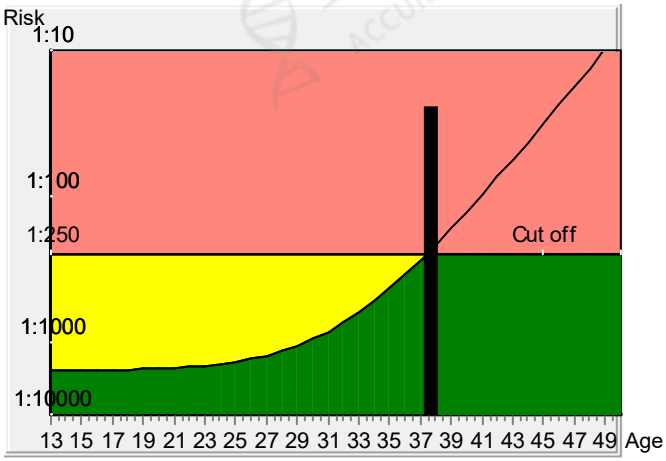
American Institute Of Pathology and Laboratory Sciences Private Limited
H.NO. 1-111/4/B/103, Flat no. B-103
B - Block, Aparna Towers, Kothaguda Post, Kothaguda, Hyderabad - 500084

Result Down's syndrome screening

Name	PRIYANKA	Sample ID	2206103873	diabetes	no
	MRS	D.O.B.	01/03/85	Fetuses	1
Patient ID	5769834	Age at delivery	37.7	Smoker	unknown
Day of serum taking	06/06/22	Weight [kg]	69 kg	IVF	unknown
Date of report:	10/06/22			Ethnic origin	Asian
Previous trisomy 21 pregancies	unknown				

Corrected MoM's and calculated risks

AFP	25.8	ng/ml	0.68	Corr. MoM	Gestational age at sample date	16 + 4
uE3	0.42	ng/ml	0.56	Corr. MoM	determination method	BPD (<>Hadlock)
HCG	33300	mIU/ml	1.30	Corr. MoM	Physician	DR Dr.Priya Mishra
Inh-A	341.4	Pg/ml	2.39	Corr. MoM		



Tr.21 risk
at term
>1:50

Age risk
at term
1:229

Down's Syndrome Risk

The calculated risk for Trisomy 21 is above the cut off which represents an increased risk.
After the result of the Trisomy 21 Test, it is expected that among less than 50 pregnancies with the same data, there is one trisomy 21 pregnancy.
The calculated risk by PRISCA depends on the accuracy of the information provided by the referring physician.
Please note that risk calculations are statistical approaches and have no diagnostic value!

Neural tube defects risk	Risk for trisomy 18
The corrected MoM AFP (0.68) is located in the low risk area for neural tube defects.	**The calculated risk for Trisomy 18 is 1:6271, which indicates a low risk.**

below cut off | Below Cut Off, but above Age Risk | above cut off | Prisca 5.0.2.37