



**Baby of. SIMI**  
AMBALA, AMBALA  
Tel No : 8607344999  
PIN No: 133001  
PID NO: P542100648456  
Age: 1.0 Year(s) Sex: Female

**Reference: Dr.VINAY CHOPRA**

Sample Collected At:  
Dr vinay kumar chopra  
Kos diagnostic lab, 6349/i, nicholson  
road, ambala cantt, hry 133001.  
**PROCESSING LOCATION:- Metropolis  
Healthcare Ltd, Unit No. 409- 416, 4th  
Floor, Commercial Building-1,  
Kohinoor Mall, Mumbai-70**

**VID: 54213320015851**  
Registered On:  
17/08/2021 09:53 PM  
Collected On:  
19/08/2021 3:18AM  
Reported On:  
20/09/2021 07:21 PM

## Karyotyping by G-Banding Peripheral Blood

<b>INTERNAL LAB NO.</b>	6000-21-K (This report supersedes the previous report dated 31-08-2021 and is amended for doctor discussion.)
<b>CULTURE METHOD</b>	72-hour stimulated cultures were put up with appropriate mitotic agents.
<b>BANDING METHOD(S)</b>	GTG-Banding with Trypsin & Giemsa with 450-550 bands pattern (ISCN-2016).
<b>CLINICAL INDICATION(S)</b>	Multiple congenital anomalies History of cleft lip, Cleft palate.
<b>NO.OF CELLS COUNTED</b>	20
<b>NO.OF CELLS ANALYZED</b>	20
<b>NO.OF CELLS KARYOTYPED</b>	10
<b>KARYOTYPE RESULT</b>	<b><u>46,XY</u></b>
<b>INTERPRETATION</b>	Analysis revealed 44 autosomes and presence of X and Y chromosomes.
<b>RECOMMENDATION(S)</b>	Kindly correlate clinically. In case of any discrepancy kindly send new sample for confirmation. For any queries please feel free to contact at Department of Medical Genetics on 022-43560767.

Karyotype analysis detects all numerical and gross structural anomalies within the limits of the assay procedure. Microdeletions, microduplications, single gene disorders and low grade mosaicism however would not be ruled out. FISH/CMA/Molecular studies are recommended for the same. Clinical correlation is advised.

### Note: Importance of Clinical Indications

1. Clinical details/history findings including age and sex of patient are important for accurate selection of culture method
2. Clinical details to be provided in the form of ultrasound information / phenotypic features / family history, etc.
3. For investigation of mosaicism which requires screening of large number of metaphase cells.
4. To target analysis for a particular chromosome in the form of high resolution banding.
5. For recommendation of further investigation - eg: FISH, Molecular Genetics Studies. Genetics abnormalities like single gene / polygenic disorders, microdeletions, subtle rearrangements, low grade mosaicism may not be detected by G-Band Karyotyping and may require more sensitive testing like FISH and Chromosomal Microarray.

**Dr. Jaya Vyas**  
PhD Applied Biology  
Sr Consultant, Medical Genetics

**Mr. Dhananjay Pathak**  
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Metropolis - Mumbai



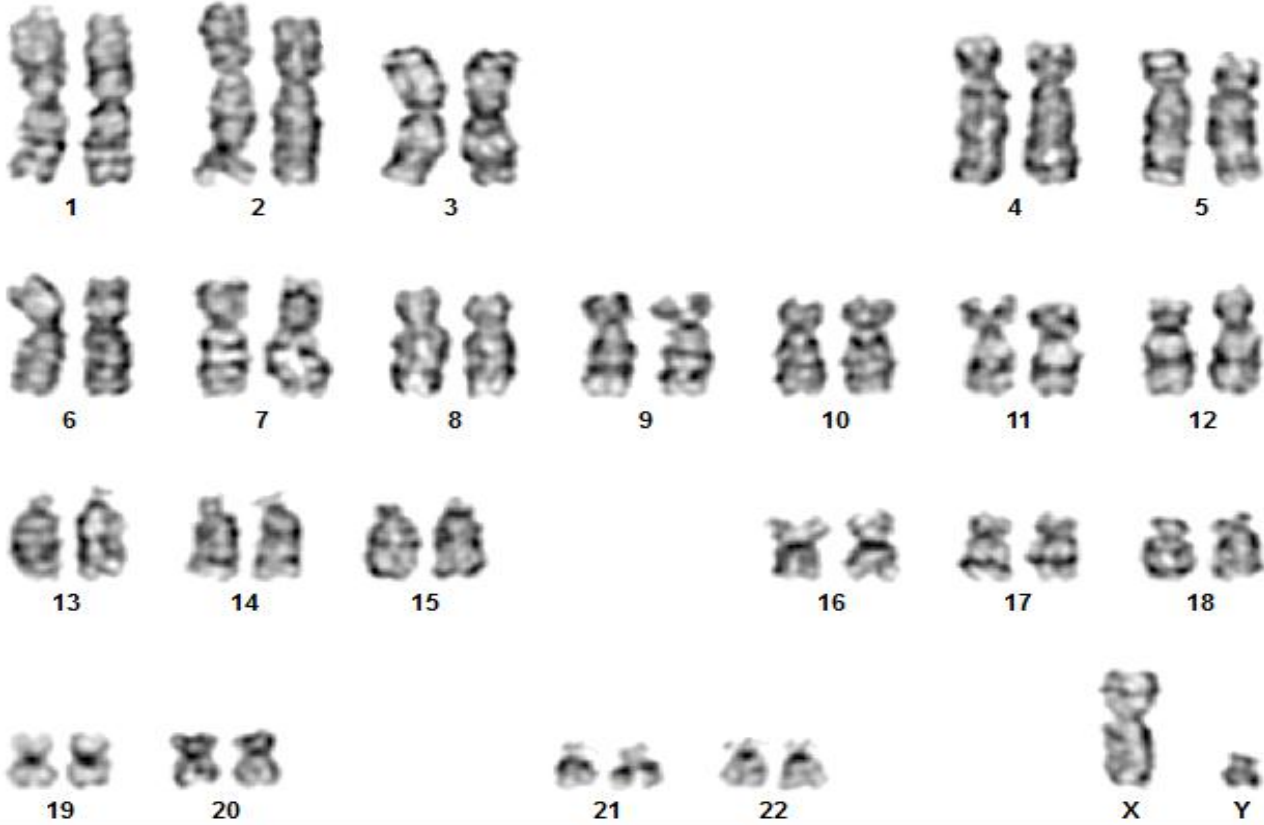
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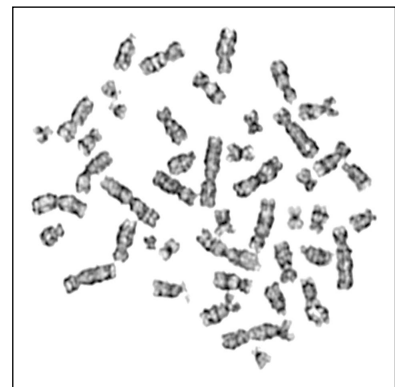
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**REPORT OF KARYOTYPE ANALYSIS**



**KARYOTYPE RESULT : 46,XY**  
**BAND RESOLUTION : 550**



Note: Results are interpreted on basis of all metaphases analyzed. This Karyotype is only a representation

-- End of Report --

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