DEVANSH PID NO: P54190080909 Age: 11 Month(s) Sex: Male	**Reference:** Sample Collected At: DR VINAY KUMAR CHOPRA KOS Diagnostic Lab, 6349/I, Nicholson Road, Ambala Cantt, HRY 133001. **133001**	**VID: 54193381482** Registered On: 18/06/2019 11:36 AM Collected On: 19/06/2019 5:28AM Reported On: 28/06/2019 05:37 PM

Karyotyping by G-Banding Peripheral Blood

INTERNAL LAB NO.	4851-19-K
CULTURE METHOD	72-hour stimulated cultures were put up with appropriate mitotic agents.
BANDING METHOD(S)	GTG-Banding with Trypsin & Giemsa with 450-550 bands pattern (ISCN-2016).
CLINICAL INDICATION(S)	? Down Syndrome.
NO.OF CELLS COUNTED	20
NO.OF CELLS ANALYZED	20
NO.OF CELLS KARYOTYPED	10
KARYOTYPE RESULT	47,XY,+21
INTERPRETATION	Analysis revealed 45 autosomes and 2 sex chromosomes with presence of an extra copy of chromosome 21 in all the observed cells.
COMMENTS	Report consistent with Down syndrome (Trisomy 21).
RECOMMENDATION(S)	Kindly correlate clinically. Along with Consultation with pediatrician for growth and management of the child Genetic Counseling to the couple is recommended. For any queries please feel free to contact at Department of Medical Genetics on 022 -50560767.

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

Note: Importance of Clinical Indicatons
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. Anurita Pais
Doctor In-charge, Dept. of Medical Genetics,
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Mr. Dhananjay Pathak
M. Sc.
Analyst, Medical Genetics,
Metropolis - Mumbai

54193381482

DEVANSH

PID NO: P54190080909

Age: 11 Month(s) Sex: Male

Reference:

Sample Collected At:
DR VINAY KUMAR CHOPRA
KOS Diagnostic Lab, 6349/I, Nicholson Road, Ambala Cantt, HRY 133001.
133001

VID: 54193381482

Registered On:
18/06/2019 11:36 AM

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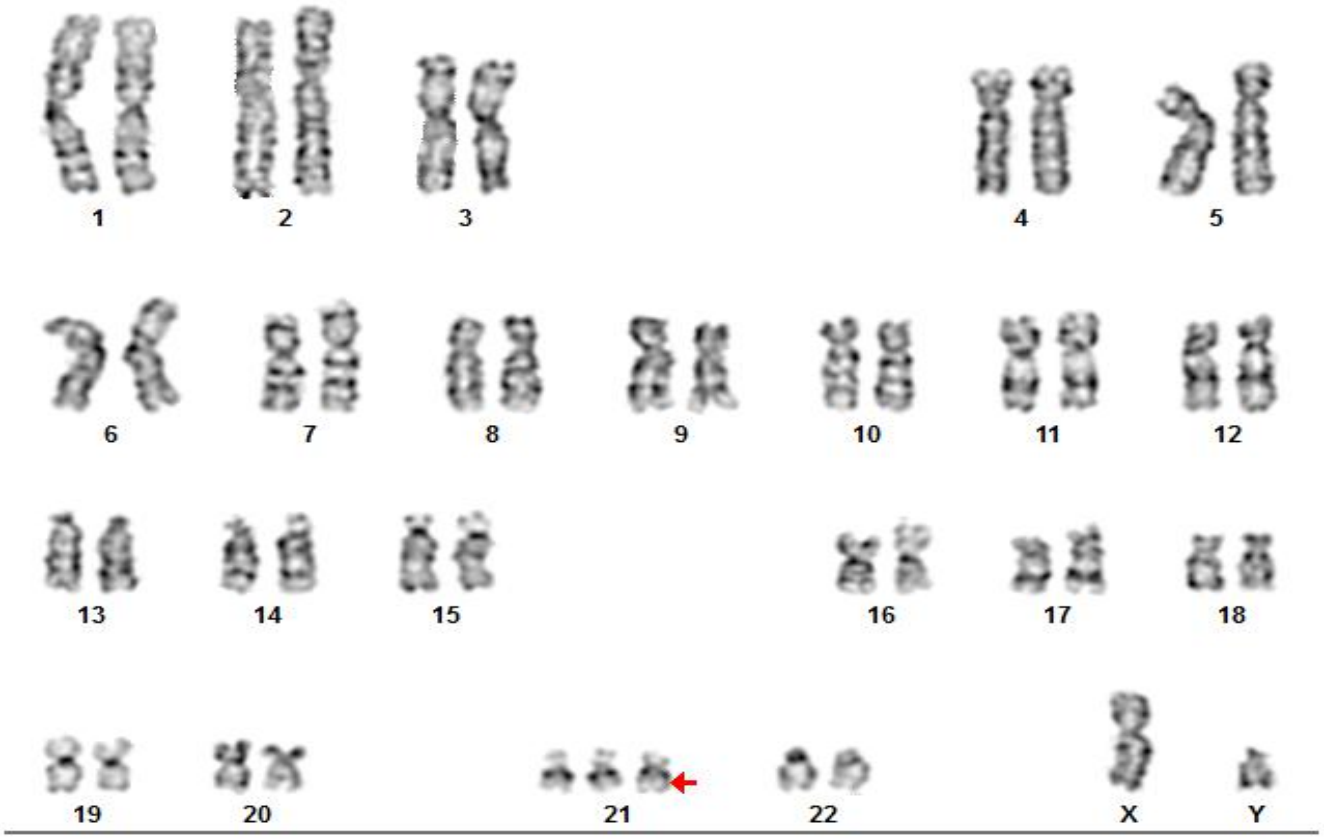
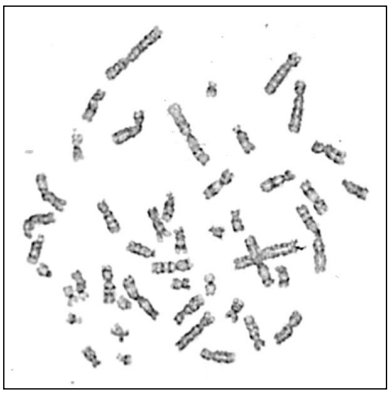
REPORT OF KARYOTYPE ANALYSIS





KARYOTYPE RESULT : **47,XY,+21**

BAND RESOLUTION : **450**

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

-- End of Report --

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