Dr Prabhas Prasun Giri

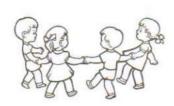
MBBS (Cal), (Hons), MD(Ped) MRCPCH(UK), FRCPCH(UK)

Consultant Child Specialist Reg.No.63526(WBMC)

Mobile: 9051958420 (Only for Emergency)

For Vaccination: 6290342147

Web: www.prabhaspediatrics.com
Online consultation through DOCON App



ব্যানাজী মেডিক্যাল হল ঘাসিয়াড়া মোড়, সোনারপুর

প্রতি মঙ্গলবার সকাল ৮টা থেকে ৯-৩০ টা প্রতি বৃহস্পতিবার সকাল ৮ টা থেকে ৯-৩০ টা প্রতি শনিবার বিকেল ৪ টা থেকে ৫-৩০ টা

নাম লেখানোর জনা:

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SURAKSHA DIAGNOSTIC, BALLYGUNGE

Appointment: 7595055023

1st Floor Sunny Tower, 43, Asutosh Chowdhury Avenue, Ballygunge, Kolkata - 700019, Near Birla Mandir Mon to Fri: 4.00 pm to 5.30 pm Sat: 1.00 pm to 2.00 pm 2nd & 4th Sunday 12 pm

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13, Sarat Ghosh Garden Road, Dhakuria.Kolkata 700 031 (Near Dhakuria Railway Station) Monday to Saturday 7pm to 8pm Appointment & Enquiry 74397 44792 /08062280999

MedGenome Labs Limited. Sy No 94/1C and 94/2, Tower-1, Veerasandra Village, Attibele Hobli, Electronic City, Phase-1, Bangalore, Karnataka, 560100. Tel: +91 (0)80 67154932 / 933



DNA TEST REPORT - MEDGENOME LABORATORIES

Order ID/Sample ID: 1045348/8695603 Full Name / Ref No: B/O Haimanti Das (24-22279) Gender: Date of Birth / Age: 4 Months Parental Sample ID: Peripheral Blood in EDTA Sample Type: 6th September 2024 Dr. P.P Giri, Date of Sample Collection: Referring Clinician: Institute Of Child Health, Date of Sample Receipt: 7th September 2024 8th September 2024 Date of Order Booked: Kolkata 23rd September 2024 Date of Report: Spinal Muscular Atrophy (SMN1/SMN2) deletion/duplication analysis [MGM143]

CLINICAL DIAGNOSIS / SYMPTOMS / HISTORY

The patient presented with clinical indications of acute bronchiolitis and is thus being evaluated for pathogenic deletions and duplications in exons 7 and 8 of SMN1 and SMN2 genes.

RESULTS'

Test Requested:

PATHOGENIC VARIANT CAUSATIVE OF THE SUSPECTED PHENOTYPE WAS IDENTIFIED

SI. No.	Gene Exons†	Deletions /Duplications	MLPA probe ratio (Dosage quotient)*	Copy number	Disease (OMIM)	Inheritance	Classification
1	SMN1 (Exon 7)	Homozygous deletion	Exon 7 (0.00)	0	Spinal	Autosomal	Pathaganie
2	SMN1 (Exon 8)		Exon 8 (0.00)	0	muscular	recessive	Pathogenic
3	SMN2 (Exon 7)		Exon 7 (1.01)	2			
4	SMN2 (Exon 8)		Exon 8 (0.94)	2			

CLINICAL CORRELATION AND VARIANT INTERPRETATION

Homozygous deletion of exons 7 and 8 in the SMN1 gene was detected within the detection limits of MLPA, in the subject (Fig. 1). No deletions or duplications were detected in the exons 7 and 8 of the SMN2 gene. The subject has gene copy number ratio of SMN1:SMN2 of 0:2. Functional absence of SMN1 gene due to homozygous deletions is reported to be pathogenic in 95% of SMA cases [1]. Hence, this deletion is pathogenic and must be carefully correlated with clinical symptoms.

RECOMMENDATIONS

Genetic counselling is advised.

Screening of parents is recommended to determine their carrier status.



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Bangalore, Karnataka, 560100. Tel: +91 (0)80 67154932 / 933



BACKGROUND

Spinal muscular atrophy (SMA) is characterized by degeneration of lower motor neurons in the spinal cord, causing progressive paralysis of the limbs and trunk, followed by muscle atrophy. SMA is one of the most frequent autosomal recessive diseases, with a carrier frequency of 1 in 38 and is the most common genetic cause of childhood mortality [4]. The phenotype is extremely variable, and patients are classified as SMA type I to III based on age at onset and clinical course. There are two (highly similar) genes playing a pivotal role in SMA: SMN1 and SMN2. These two genes can only be distinguished by single nucleotide differences in exon 7 and 8. SMN2 is much less efficient in making the SMN protein; therefore, it is the SMN1 gene which is the determinant factor in SMA. Of these, greater than 96% are homozygous for the deletion of exons 7 and 8 of this gene. Genetic analysis for this deletion provides an efficient diagnosis for this disorder.

TEST METHODOLOGY

Copy number changes in exons 7 and 8 of the *SMN1* & *SMN2* genes were identified by hybridizing with MLPA (Multiplex Ligation-dependent Probe Amplification) probes. Each MLPA probe consists of two hemi-probes that bind to adjacent sites on the target sequence. Upon ligation and subsequent PCR amplification, each distinct MLPA probe (specific to distinct target regions) generates an amplicon with a unique length which is separated and quantified by capillary electrophoresis. Heterozygous deletions within target sequences will prevent efficient probe binding and give a 35-50% reduced relative peak area of the amplification product specific to that probe set. Copy number differences of various exons between test and control DNA samples can be detected by analyzing the MLPA peak patterns.

*Genetic test results are reported based on the recommendations of American College of Medical Genetics (Richards CS et al., Genet Med, 2015), as described below:

Variant	A change in a gene. This could be disease causing (pathogenic) or not disease causing (benign).			
Pathogenic	A disease-causing variation in a gene which can explain the patients' symptoms has been detected. This usually means that a suspected disorder for which testing had been requested has been confirmed.			
Likely Pathogenic	A variant which is very likely to contribute to the development of disease, however, the scientific evidence is currently insufficient to prove this conclusively. Additional evidence is expected to confirm this assertion of pathogenicity.			
Benign	A variant which is known not to be responsible for disease has been detected. Generally, no further action is warranted on such variants when detected.			
Likely Benign	A variant is not expected to have a major effect on disease however, the scientific evidence is currently insufficient to prove this conclusively. Additional evidence is expected to confirm this assertion.			
Variant of Uncertain Significance	A variant has been detected, but it is difficult to classify it as either pathogenic (disease causing) or benign (non- disease causing) based on current available scientific evidence. Further testing of the patient or family members as recommended by your clinician may be needed. It is probable that their significance can be assessed only with time, subject to availability of scientific evidence.			

[‡] the exon numbering is based on the *SMN1* mRNA reference sequence NM_000344.3 and *SMN2* mRNA reference sequence NM_017411.3 nomenclature respectively in the NCBI GenBank database.



[&]quot;MLPA ratios (dosage quotient) of below 0.7 or above 1.3 are indicative of a deletion (copy number change from two to one) or duplication (copy number change from two to three), respectively. A dosage quotient of 0.0 indicates a homozygous deletion, 0.35 to 0.65 indicates heterozygous deletion, 1.35 to 1.55 indicates heterozygous duplication and 1.7 to 2.2 indicates homozygous duplication. A MLPA ratio (dosage quotient) between 0.80 to 1.20 indicates a normal copy number status

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DISCLAIMER

MLPA cannot detect any changes that lie outside the target sequence of the probes and will not detect most
inversions or translocations. Even when MLPA did not detect any aberrations, the possibility remains that biological
changes in that gene or chromosomal region do exist but remain undetected.

The MLPA test will not detect the point mutations in the SMN1 and SMN2 genes.

A point mutation or polymorphism in the sequence detected by a probe, which results in reduced probe binding
efficiency, can also cause a reduction in relative peak area. Therefore, single exon deletions detected by MLPA should
always be confirmed by other methods like multiplex PCR or sequencing.

prahauha

Jeevana Praharsha.A

Senior Genome Analyst

Maniunath V

Senior Manager (Lab Operations)

Rom 1 why

Dr. Rommurthy Anjonappa

Senior Scientist (Lab Operations)

Dr. Pragya Gupta M885, MD Path, PDF Molecular Geneticist (TMCK)

Senior Molecular Pathologist & Clinical Head

REFERENCES

 Yoon S, Lee CH, Lee KA. Determination of SMN1 and SMN2 copy numbers in a Korean population using multiplex ligation-dependent probe amplification. Korean J Lab Med. 2010; 30(1):93-6.

 Ogino S, Wilson RB. Spinal muscular atrophy: molecular genetics and diagnostics. Expert Rev Mol Diagn. 2004;4(1):15-29.

Prior TW et al, Homozygous SMN1 deletions in unaffected family members and modification of the phenotype by SMN2.
 Am J Med Genet A. 2004.

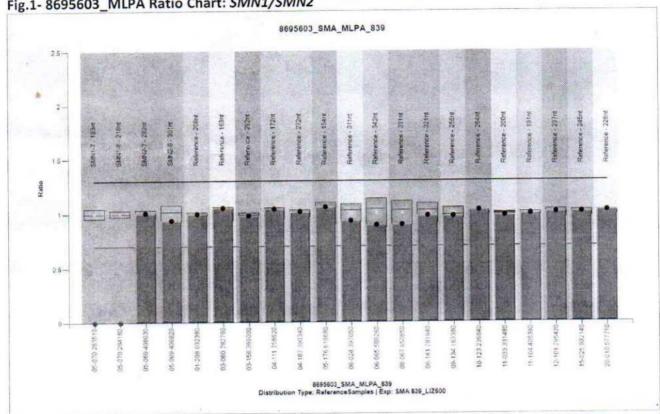
 Nilay M, Moirangthem A, Saxena D, Mandal K, Phadke SR. Carrier frequency of SMN1-related spinal muscular atrophy in north Indian population: The need for population-based screening program. Am J Med Genet A. 2021 Jan;185(1):274-277. doi: 10.1002/ajmg.a.61918. Epub 2020 Oct 14. PMID: 33051992. MedGenome Labs Limited. Sy No 94/1C and 94/2, Tower-1, Veerasandra Village, Attibele Hobli, Electronic City, Phase-1, Bangalore, Karnataka, 560100. Tel: +91 (0)80 67154932 / 933



APPENDIX-1

SMN1/SMN2-MLPA Result Figure





.....End of Report.....





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SPECIAL BIOCHEMISTRY

Name B/O HAIMANTI DAS

Age 4-Mn.20-Days

Sex

PRABHAS PRASUN GIRI Referred By Dr.

6/9/2024 Reporting Date

Registration No. 2400022279

0 Admission No.

Bed No. 0

Contact No.

3rd trimester: 0.3127-2.947

8777062393

Collection Date 6/9/2024

Sample: BLOOD

Unit Reference Interval **Test Parameters** Result 0 - 23mns:0.5885-6.880, 2 - 12yrs:0.7291-4.402, Serum Thyroid Stimulating 2.49 µIU/ml 13 - 21yrs: 0.4557-4.160 Hormone (TSH) >= 22vrs:0.4001-4.049(M & Non Pregnant Fe). (Enhanced Chemiluminescence Pregnant 1st trimester: 0.1298-3.120, Immunometric Immunoassay)) 2nd trimester: 0.2749-2.652,

--- End of Report---

Prof. S. Basu M. Sc., Ph. D. Professor & HOD Dept. of Biochemistry, Deputy Director, ICH

MBBS(CAL), MD (Biochemistry) Consultant Biochemistry

Dr. J. (Raman) Chowdhury MBBS(CAL), DTM&H(CAL), DNB (Pathology) HOD&Director, Dept. of Pathology

Dr. K. S. Ray MBBS(CAL), MD (Pathology) Consultant Pathologist

Dr. K. Sarkar MBBS(CAL). MD (Pathology) Consultant Pathologist Consultant Microbiologist

Dr. A. Chatterjee MBBS(CAL), MD (Microbiology), CPHIC

Instrument Name: VITROS 5600

Report Prepared By: C003

Results related only to patient information & sample received. Partial reproduction of this report is invalid. BRI are age/sex matched as per test kit literature.

Dr Prabhas Prasun Giri

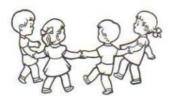
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নাম লেখানোর জনা:

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Appointment & Enquir 74397 44792 /08062280999

Dr. Apurba Ghosh

8777062393

Residence: 7. Central Park, Jadavpur Kolkata - 700 032

Tel: 9830052887

M.B.B.S., M.D. (PAED), DCH (CAL).

F.R.C.P. (Ireland), M.R.C.P. (U.K), F.R.C.P.C.H. (U.K.), FIAP (INDIA)

Registration No. 40061 of WMC E-mail: apurbaghosh@yahoo.com

Mobile: 98300 52887 Not for appointment (No phone calls after 9:30 p.m)

B/o Haimanti Das (F) 5m/3d/6 kg

D.O.R-16/4/24

B.wt- 3-280kg

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- Nasoclear Nasal drop

I drop in each nostril

- cont. vit D3 drop

- Physio therapy

HPLC DONE :

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Strictly by appointment

To make appointment at Bondel Road Call: 9007716516 / 8017072154 (7 A.M.)

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: Closed

Sunday

: 8 A.M. - 10 A.M.

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Saturday: 8.00 A.M.

Clinic: 187, Santoshpur Avenue, Kolkata - 700 075

By appointment only : Closed Saturday

Sunday

: Closed

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Peerless Hospitex Hospital And Research Center Limited

360, Panchasayar, Kolkata - 700 094, Phone: 033-4011 1222, 2462 2394/2462/0071-73





CIN - U85110WB1989PLC046938

OUT PATIENT CLINIC

UHID: MR/24/047333 Visit ID: OP/24/161196 Invoice No IO/24/619376 Date: Name: Baby of Haimanti Das Category: GENERAL Doctor: Dr. Sanjukta De Address: GHASIARA MADHYA PARA SONARPUR SONARPUR 700150 Mob-1: 9088941929 Mob-2.	30/09/2024 Sex: Female Age: 5 Months 14 Days Visit Count : 1 (No Booking) Queue:11
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GOVERNMENT OF WEST BENGAL DEPARTMENT OF HEALTH & FAMILY WELFARE **IPGMER & SSKMH-CENTRE of EXCELLENCE** A.J.C Bose Road Kolkata-20

OPD Patient Card NEONATOLOGY MEDICINE 41 Paid Rupees: 2



Name: HRIDIKA DAS

Reg. No.: SSKM/RG2401881208

Age: 0 Yrs. 5 Months 0 Days

Reg. Date: 04-10-2024

Gender: Female

Visit No.: 1

Card No.: SSKM/OR2401609101 Visit Date: 04-10-2024 12:15PM

Day: Friday

Token No.: 6378

Department: NEONATOLOGY MEDICINE

Room No.: 0

Doctor: Dr.S Mukherjee/ Dr.R Mukherjee/ Dr.A. Saha/ Dr. U. Mondal/ Dr.N.Sarkar

Tm.

Health Id:

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National Neurosciences Centre, Calcutta

Peerless Hospital Campus (2nd Floor) 360, Panchasayar, Kolkata - 700 094 Ph. (033) 2432 0777 / 0999 / 0748

E-mail: nnccalcutta@gmail.com / marketing.nnc@live.com Web: www.nnccalcutta.in (West Bengal Society Registration No. S/97602)

SPECIALITY OPD

Visit ID : OPD/24-25/10268 UHID: NUHID/129612

OPD/2024-25/10265 Invoice No:

04-10-2024 Date:

Patient Name: Baby. HRIDIKA DAS

5 Mnth19 Days Age:

Address

Sex: Female

Category

SONARPUR, GHASIARA, , KOLKATA - 700150, WEST BENGAL, INDIA

Mobile:: 9088941929

Doctor:

GENERAL

Dr. ASHIS DAS

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Dr. ASHIS DAS MD. (Med), DM (Neurology) Consultant Neurologist National Neurosciences Centre Calcutta Reg. No. - 50837

Dr. ASHIS DAS

Consultant Neurologist 10 MMD (Med), DM (Neurology)