

Neonatal Genome Screening Test Report

Personal Information

Name: Jane Doe
 Relation: -
 Sex/Birth: F/831222-*****

Specimen Information

Sample ID: 20220218-971-21**
 Medical record No: -
 Date received: 2022-02-18

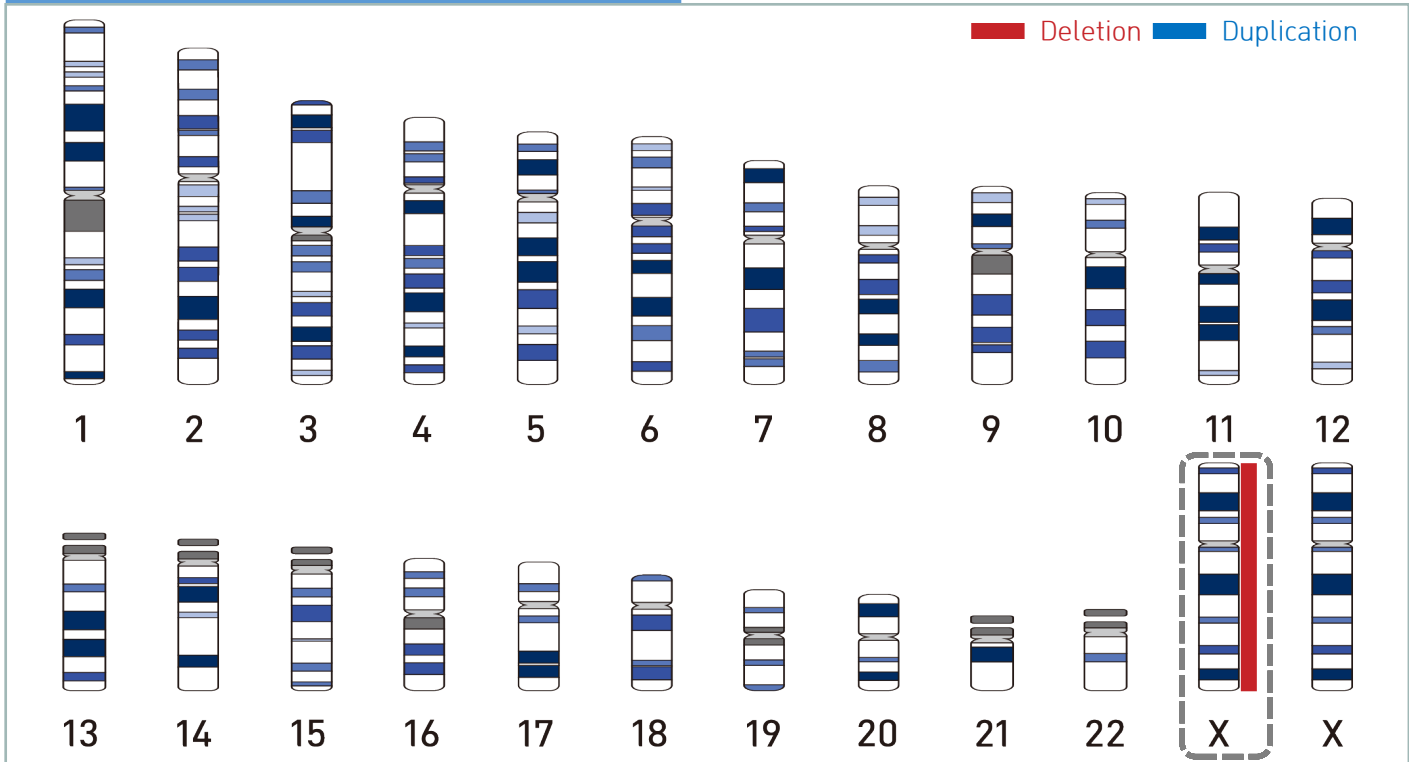
Test Information

Test reported: 2022-02-24
 Ordering physician: Dr ****
 Institution: G***** Healthcare

TEST RESULT

POSITIVE: Turner syndrome was identified.

CHROMOSOMAL DELETION/DUPLICATION



REPORT INTERPRETATION

As a result of the test, Turner syndrome was identified. Turner syndrome is a chromosomal condition that affects development in females. The most common feature of Turner syndrome is short stature, which becomes evident by about age 5. An early loss of ovarian function (ovarian hypofunction or premature ovarian failure) is also very common. The ovaries develop normally at first, but egg cells (oocytes) usually die prematurely and most ovarian tissue degenerates before birth. Many affected girls do not undergo puberty unless they receive hormone therapy, and most are unable to conceive (infertile). A small percentage of females with Turner syndrome retain normal ovarian function through young adulthood.

[1/3] Test by : Myeong-Geun Lee M.T.(20058) *MK Lee* Confirmed by : Sae-Mi Lee M.D.(1067) *[Signature]* Ju-sun Song M.D.(997) *Song Ju Sun*

iOSCREEN Neonatal Genome Screening Test Report

NEWBORN GENOME SCREENING

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TEST RESULT

DNA Quality	Test Data Quality	Control Material Quality
Good	Good	Good

TEST INFORMATION

- Test Method : Next Generation Sequencing
- Test Subject : Chromosomal Deletion / Duplication
- Specimen Type : EDTA Whole Blood 0.5ml or 2 Capillary tubes or Cord Blood 0.5ml or 1 Blood paper

LIMITATIONS

- This test is a screening test for rare diseases associated with developmental disorders such as Down syndrome, Edwards syndrome, and Patau syndrome. If the result is positive, confirmatory tests such as karyotype analysis, FISH, microarray, etc., are needed for accurate diagnostics.
- Genetic variants (balanced translocation, inversion, point mutation, low-level mosaicism, etc.) other than chromosomal deletion/duplication are not detected.
- It is difficult to rule out the possibility that the disease was caused by chromosomal abnormalities that could not be detected by this test. Chromosomal deletion/duplication that has unclear clinical significance in medical level at the point of reporting is not reported.
- This test is conducted with the consent of the patient and does not directly aim at the treatment of disease or injury.

RESULT DETAILS

Chromosome	Deletion/Duplication Syndrome	Chromosome Loci	Test Result	Chromosome	Deletion/Duplication Syndrome	Chromosome Loci	Test Result
chr1	1p21.3 deletion syndrome	1p21.3	Not Detected	chr2	SPD1 syndrome/2q31.1 duplication syndrome	2q31.1	Not Detected
	1p32-p31 deletion syndrome	1p32-p31	Not Detected		2q31.2-q32.3 deletion syndrome	2q31.2-q32.2	Not Detected
	1p34.1 duplication syndrome	1p34.1	Not Detected		2q32-q33 deletion syndrome	2q32-q33	Not Detected
	1p36 deletion syndrome	1pter-p36.3	Not Detected		2q37 deletion syndrome	2q37	Not Detected
	1q21.1 deletion syndrome	1q21.1	Not Detected	chr3	3p14.1-p13 deletion syndrome	3p14.1-p13	Not Detected
	1q24.3 deletion syndrome	1q24.3	Not Detected		3p21.31 deletion syndrome	3p21.31	Not Detected
	1q24-q25 deletion syndrome	1q24-q25	Not Detected		Chromosome 3p deletion syndrome	3pter-p25	Not Detected
	1q41-42 deletion syndrome	1q41-q42	Not Detected		3q deletion syndrome	3q13.11-q13.12	Not Detected
chr2	2p15-p16.1 deletion syndrome	2p15-p16.1	Not Detected		3q13 deletion syndrome	3q13.31	Not Detected
	2p21 deletion syndrome	2p21	Not Detected		3q27.3-q29 deletion syndrome	3q27.3-q29	Not Detected
	2q11.2 deletion syndrome	2q11.2	Not Detected		3q29 deletion syndrome	3q29	Not Detected
	2q13 deletion syndrome	2q13	Not Detected	chr4	Wolf-Hirschhorn syndrome	4pter-p16.3	Not Detected
	2q23.1 deletion syndrome	2q23.1	Not Detected		4q21 deletion syndrome	4q21	Not Detected
	2q23.3-q24.1 deletion syndrome	2q23.3-q24.1	Not Detected		Rieger syndrome	4q25	Not Detected
	2q24.3 deletion syndrome	2q24.2-q24.3	Not Detected		4q32.1-q32.2 triplication syndrome	4q32.1q32.2	Not Detected

[2/3] Test by : Myeong-Geun Lee M.T.(20058) *MK Lee* Confirmed by : Sae-Mi Lee M.D.(1067) *SM Lee* Ju-sun Song M.D.(997) *Song Ju Sun*

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31	chr5	Cri-du-chat syndrome	5p15.2-p15.33	Not Detected	62	chr16	16p11.2-p12.2 deletion syndrome	16p11.2-p12.2	Not Detected
32		5q14.3-q15 deletion syndrome	5q14.3-q15	Not Detected	63	chr17	Smith-Magenis syndrome	17p11.2	Not Detected
33		Sotos syndrome	5q35.2-q35.3	Not Detected	64		Potocki-Lupski syndrome	17p11.2	Not Detected
34	6p deletion syndrome	6p25	Not Detected	65	17p13.1 deletion syndrome		17p13.1	Not Detected	
35	6q13-14 deletion syndrome	6q13-14	Not Detected	66	Miller-Dieker syndrome		17p13.3	Not Detected	
36	6q25 deletion syndrome	6q25.2-q25.3	Not Detected	67	Koolen-de Vries syndrome		17q21.3	Not Detected	
37	chr7	Grieg syndrome	7p14.1	Not Detected	68		chr18	Edwards syndrome	18
38		Williams syndrome	7q11.23	Not Detected	69	18q deletion syndrome		18q12.3-q21.1	Not Detected
39		Currarino syndrome	7q36.3	Not Detected	70	chr19	19p13.2 deletion syndrome	19p13.2	Not Detected
40	Trisomy 8	8	Not Detected	71	19q13.11 deletion syndrome		19q13.11	Not Detected	
41	chr8	8p23 deletion syndrome	8p23.1	Not Detected	72	chr20	Alagille syndrome	20p12	Not Detected
42		8q21.11 deletion syndrome	8q21.11	Not Detected	73	chr21	Down syndrome	21	Not Detected
43		Langer-giedion syndrome	8q24.1	Not Detected	74	chr22	Cat eye syndrome	22p11.1-q11.21	Not Detected
44	Trisomy 9	9	Not Detected	75	Distal 22q11.2 microdeletion syndrome		22q11.2	Not Detected	
45	Tetrasomy 9p	9p	Not Detected	76	DiGeorge syndrome		22q11.21-q11.23	Not Detected	
46	Chromosome 9p Deletion Syndrome	9pter-p22.3	Not Detected	77	Phelan-McDermid syndrome		22q13.33	Not Detected	
47	chr9	9q22.3 deletion syndrome	9q22.3	Not Detected	78	chrX/Y	Turner syndrome	X	Detected
48		Kleefstra syndrome	9q34.3	Not Detected	79		Trisomy X	X	Not Detected
49		DiGeorge syndrome type 2	10p12.31	Not Detected	80		Tetrasomy X	X	Not Detected
50	10q22-q23 deletion syndrome	10q22-q23	Not Detected	81	Pentasomy X		X	Not Detected	
51	10q25-q26 deletion syndrome	10q25-q26	Not Detected	82	Xp11.3 deletion syndrome		Xp11.3	Not Detected	
52	chr10	Potocki-Shaffer syndrome	11p11.2	Not Detected	83		Glycerol kinase deficiency	Xp21.2	Not Detected
53		11p deletion syndrome	11p13	Not Detected	84		Nance-Horan syndrome	Xp22.13	Not Detected
54		Jacobsen syndrome	11q23.3-qter	Not Detected	85		Kallmann's syndrome	Xp22.31	Not Detected
55	chr11	Pallister-Killian syndrome	12p	Not Detected	86		Leri-Weill syndrome	Xp22.33	Not Detected
56	chr12	Patau syndrome	13	Not Detected	87		Pelizaeus-Merzbacher syndrome	Xq22.2	Not Detected
57	chr13	14q12 duplication syndrome	14q12	Not Detected	88	Xq22.3-q23 deletion syndrome	Xq22.3-q23	Not Detected	
58		14q22-q23 deletion syndrome	14q22-q23	Not Detected	89	MECP2 duplication syndrome	Xq28	Not Detected	
59		14q32 deletion syndrome	14q32.2	Not Detected	90	Klinefelter's syndrome	XXY	Not Detected	
60	chr14	15q12 duplication syndrome	15q11.2-q13.1	Not Detected	91	Others	Other major chromosomal variants	-	Not Detected
61		Prader-Willi/Angelman syndrome	15q11.2-q13.1	Not Detected					

[3/3] Test by : Myeong-Geun Lee M.T.(20058) *MKlee* Confirmed by : Sae-Mi Lee M.D.(1067) *smlee* Ju-sun Song M.D.(997) *Song Ju Sun*