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Medical Director: Denise A. Wells, MD

HLID#: **PATIENT NAME:**
PATIENT ID#: **DOB :** **SEX:**
NPI: **ORDERING PHYSICIAN:**
SPECIMEN TYPE: Bone Marrow Aspirate
COLLECTION DATE: **RECEIPT DATE:**
REPORT DATE: **ICD Code:** **UNITS:** 1 FISH-MDS Panel
CLINIC ID#:
NUMBER OF PROBES : 4 MP / SP
CPT: 88368/88112/88377
ACCOUNT:

Patient Name, HLID#

FISH REPORT

Specimen Type: Bone Marrow Aspirate

Clinical History/Indications: A xx-year-old fe/male with a listed history of suspected myelodysplasia.

FISH (fluorescence in situ hybridization) Result: Normal (MDS panel)

MDS Panel	Loci	ISCN	Results
del(5q)	5p15.31/5q31.2	nuc ish(5p15.31,EGR1)x2[200]	Normal
del(7q)	7q22/7q31	nuc ish(D7S796,D7S2543)x2[200]	Normal
Trisomy 8	8p11.1-8q11.1	nuc ish(D8Z2x2)[200]	Normal
TP53/D17Z1	17p13/17p11.1-17q11.1	nuc ish(TP53,D17Z1)x2[200]	Normal
del(20q)	20q12/20q13.12	nuc ish(D20S108,MYBL2)x2[200]	Normal

Interpretation:

- **These findings reveal no evidence of an aberrant cell clone with gains or losses of chromosomes 5q, 7q, 8, 17p and 20q at the sensitivity level of this analysis.**
- *In order to rule out the presence of Loss of Heterozygosity regions (LOH/UPD) or small deletions of 5q, SNP microarray analysis may be considered (please contact HematoLogics for add-on testing).*
- Clinical and hematopathology correlation is required.

Interphase FISH (fluorescence in situ hybridization) was performed to assess this specimen for the presence of cytogenetic aberrations in the non-dividing cell population. Hybridization was performed using the EGR1/5p15.31 (chromosome 5), 7q22/7q31 (chromosome 7), D8Z2 (chromosome 8), TP53/D17Z1 (17p), and D20S108 (20q) probe sets to assess this sample for the presence of monosomy 5 and 7, deletion of 5q, 7q, 17p or 20q and trisomy 8, all common cytogenetic aberrations in patients with myeloid diseases.

A total of 200 interphase cells were analyzed for each probe; the analyses fell within normal limits for this specimen type. -AJ 09/10/19

FISH Analysis Summary:
Number of Cells Analyzed: 200
Cells Analyzed: Interphase
Probes Utilized: EGR1,5p15.31, D7S796,D7S2543, D20S108+D8Z2, TP53-P
Source and Lot Number: Cytocell, 180502-019, 181005-018, 180726-002/190220-043, 181127-001
Control Probe Utilized: database

Electronically signed by: Barbara K. Zehentner, Ph.D., HCLD (ABB), Director of Molecular Analysis - 09/10/2019 13:20 PT; Denise A. Wells, MD, Medical Director - 09/10/2019 14:04 PT