

Client: ARUP Example Report Only 500 Chipeta Way Salt Lake City, UT 84108 UNITED STATES

Physician: EXAMPLE, PHYSICIAN

Patient: MYE CNV, pos exampleDOBSex:UnknownPatient Identifiers:54049Visit Number (FIN):54437Collection Date:10/26/2023 12:21

Myeloid Malignancies Mutation and Copy Number Variation Panel by Next Generation Sequencing

ARUP test code 3016621

MYE CNV Proposed Diagnosis	AML unspec		
MYE CNV Specimen	whole Blood		
MYE CNV Interp	See Note		
	Myeloid Mutation Panel by NGS, DelDup		
	Submitted diagnosis or diagnosis under consideration for variant interpretation: Acute myeloid leukemia, unspecified (AML, unspec)		
	Section 1: Molecular Variants		
	TIER 1: Variants of Known Clinical Significance in Hematologic Malignancies		
	1. FLT3 c.1799_1800ins60, p.Thr582_Leu601dup (NM_004119.3) VAF: Not Reported Two distinct FLT3 mutations are detected in trans configuration (on separate chromosomes). FLT3 encodes a receptor tyrosine kinase involved in regulating the development of hematopoietic stem cells (33). This variant is a FLT3 internal tandem duplication (FLT3-ITD). FLT3-ITD mutations occur in the juxtamembrane domain and are found in 20-30% of acute myeloid leukemia (AML) patients (7) (29) (35). AML patients with FLT3-ITD mutations have a worse outcome (shorter overall survival and higher relapse risk) compared to patients without FLT3-ITD mutations (7) (14) (30). The prognostic value of FLT3-ITD mutations in AML patients also depends on the mutation status of other prognostic markers (14) (29) (30) (31). One study showed that AML patients with mutated DNMT3A, mutated NPM1, and FLT3-ITD had a worse outcome compared to patients with any two of these three genes mutated (26). A meta-analysis showed that patients with FLT3-ITD and NPM1 mutations have improved complete remission, disease-free survival, and overall survival compared with those who only have FLT3-ITD, although this is inferior to NPM1 mutation alone (20). The variant allele frequency for a FLT3-ITD may not be representative of the FLT3-ITD allelic ratio and is not reported.		
	2. FLT3 c.1780_1781ins30, p.Asp593_Phe594ins10 (NM_004119.3) VAF: Not Reported This second FLT3 mutation is also an internal tandem duplication. The variant allele frequency for a FLT3-ITD may not be representative of the FLT3-ITD allelic ratio and is not reported.		
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Patient: MYE CNV, pos example ARUP Accession: 23-299-108508 Patient Identifiers: 54049 Visit Number (FIN): 54437 Page 1 of 7 | Printed: 10/27/2023 9:16:42 AM



3. WT1 c.1114-3_1132del, p.? (NM_024426.6)

VAF: 82.3 % VAF: 82.3 % Two distinct WT1 mutations are detected in trans configuration (on separate chromosomes). WT1 encodes wilms Tumor 1 (WT1), a transcription factor that functions as both a tumor suppressor and oncogene (11) (39). Somatic mutations of WT1 are found in 6-8% of patients with AML (12) (17) (21) (32) and are rare in patients with MDS (32). In AML, WT1 mutations are often frameshift and nonconso variants (12) This particular splice-site mutation abolishes the splice acceptor site of intron 6 and is predicted to cause abnormal splicing of WT1 (Alamut visual software v.2.11.0). The prognostic impact of WT1 mutations in AML patients is uncertain. One study found that WT1 mutations did not correlate with overall survival in cytogenetically normal AML patients (6), whereas other studies have found that AML patients with WTL mutations have an inferior prognosis (12) (28) (37). In one study of a large cohort of AML patients, WTL mutations did not correlate with prognosis in the overall cohort but did correlate with shorter event-free survival in cytogenetically normal AML patients (17). WT1 mutations have also been reported to co-occur with FLT3-ITD mutations (1) (18). Please note that the variant allele frequency is high due to copy neutral loss of heterozygosity (CN-LOH) of the WT1 locus on chromosome 11.

4. WT1 c.1147_1148dup, p.Val384fs (NM_024426.6) VAF: 5.8% This second WT1 mutation is predicted to alter the normal function of WT1.

5. SRSF2 c.284C>G, p.Pro95Arg (NM_003016.4)

VAF: 46.4% SRSF2 encodes a component of the RNA splicing complex known as SKSF2 encodes a component of the RNA splicing complex known as the spliceosome. Somatic mutations of SRSF2 are found in 1-6% of patients with de novo AML, in 7-24% of patients with secondary AML (22) (26) (40) (41), and in approximately 10% of therapy-related AML patients (19). In myeloid malignancies, acquired SRSF2 mutations commonly affect codon Pro95 (22). This particular mutation is recurrent in myeloid malignancies (3). SRSF2 mutations are associated with decreased overall curvival SRSF2 mutations are associated with decreased overall survival and disease-free survival in patients with de novo AML (13) (26). SRSF2 mutations predict more frequent progression to secondary AML in patients with MDS (36) and correlate with shorter overall survival in these patients.

6. ASXL2 c.1840C>T, p.Arg614* (NM_018263.6) VAF: 41.8%

ASXL2 encodes an epigenetic regulator of gene expression (15). Somatic ASXL2 mutations are found in 18-23% of AML patients with (8;21)(q22;q22) (also known as core-binding factor AML) (4) (23). ASXL2 mutations are typically frameshift and nonsense alterations (4) (23). This particular mutation is predicted to alter the normal function of ASXL2. ASXL2 mutations do not predict overall survival but may be associated with an increased incidence of relapse in AML patients with t(8;21); however, the different relapse rates did not reach statistical significance in this study (23). Correlation with cytogenetic findings may be helpful, if available.

7. GATA2 c.1140C>G, p.His380Gln (NM_032638.5) GATA2 belongs to the GATA family of transcription factors and regulates hematopoiesis through two conserved zinc finger domains. Overall, somatic GATA2 mutations are found in 1-4% of additional and the solution of the solution of

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syndrome, dendritic cell, monocyte, B and NK lymphoid deficiency syndrome (DCML), familial MDS, AML, and blast transformation in chronic myeloid leukemia (CML) (2) (34). Somatic GATA2 mutations in hematological malignancies are typically missense mutations within the N-terminal zinc-finger domain and in-frame deletions/insertions in the C-terminal zinc-finger domain (16) (24) (25). Somatic frameshift and nonsense mutations in GATA2 are generally detected outside of the zinc-finger domains (24). This particular mutation has been reported in hematological malignancies (8) (38). In AML patients, GATA2 mutations are confined to the N-terminal zinc finger domain, and frequently co-occurred with biallelic CEBPA, KIT and FLT3 mutations (24). Some studies found that GATA2 mutations had no impact on the clinical outcome in CEBPA-double/FLT3-ITD-negative AML patients (9). Another study found that GATA2 mutations were associated with favorable prognosis in intermediate-risk karyotype AML with biallelic CEBPA mutations (5). The prognostic significance of GATA2 mutation in the absence of CEBPA mutation is unclear.

TIER 2: Variants of Unknown Clinical Significance in Hematologic Malignancies

None found

Section 2: Copy Number Variants and CN-LOH

TIER 1: Variants of Known Clinical Significance in Hematologic Malignancies

1. CN-LOH 11p15.5p13 VAF: 85%

TIER 2: Variants of Unknown Clinical Significance in Hematologic Malignancies

1. CN-LOH 1q42.13q44 VAF: 76%

Copy Number Variants and CN-LOH Interpretation The above tier 1 copy number variants (CNVs) and/or copy-neutral loss of heterozygosity (CN-LOH) are either recurrent findings in hematologic malignancies or clonal changes in neoplastic processes.

CNV/CN-LOH Variant Nomenclature: seq[GRch37] 11p15.5p13(193865_33856444)x2 mos hmz seq[GRch37] 1q42.13q44(228532195_248571228)x2 mos hmz

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relevance of integrated genetic profiling in acute myeloid leukemia. N Engl J Med 2012. PMID:22417203 30: Pratcorona M, Brunet S, Nomdedeu J et al, Favorable outcome of patients with acute myeloid leukemia harboring a low-allelic burden FLT3-ITD mutation and concomitant NPMI mutation: relevance to post-remission therapy. Blood 2013. PMID:23377436 31: Pratz KW, Sato T, Murphy KM et al, FLT3-mutant allelic burden and clinical status are predictive of response to FLT3 inhibitors in AML. Blood 2010. PMID:20007803 31: Pratz KW, 32: Rocquain J, Carbuccia N, Trouplin V et al, Combined mutations of ASXL1, CBL, FLT3, IDH1, IDH2, JAK2, KRAS, NPM1, NRAS, RUNX1, TET2 and WT1 genes in myelodysplastic syndromes and acute myeloid leukemias. BMC Cancer 2010. PMID:20678218 33: Small D, FLT3 mutations: biology and treatment. Hematology Am Soc Hematol Educ Program 2006. PMID:17124058 34: Spinner MA Sanchez LA HSU AP et al. GATA2 deficiency: a protean disorder of hematopoiesis, lymphatics, and immunity. Blood 2014. PMID:24227816 35: Thiede C Stoudel C Blood 2014. PMLD:24227816 35: Thiede C, Steudel C, Mohr B et al, Analysis of FLT3-activating mutations in 979 patients with acute myelogenous leukemia: association with FAB subtypes and identification of subgroups with poor prognosis. Blood 2002. PMID:12036858 36: Thol F, Kade S, Schlarmann C et al, Frequency and prognostic impact of mutations in SRSF2, U2AF1, and ZRSR2 in patients with myelodysplastic syndromes. Blood 2012. PMTD:22389253 PMID:22389253 PMID:22389253 37: Virappane P, Gale R, Hills R et al, Mutation of the wilms' tumor 1 gene is a poor prognostic factor associated with chemotherapy resistance in normal karyotype acute myeloid leukemia: the United Kingdom Medical Research Council Adult Leukaemia working Party. J Clin Oncol 2008. PMID:18591546 38: Vosberg S, Hartmann L, Metzeler KH et al, Relapse of acute myeloid leukemia after allogeneic stem cell transplantation is associated with gain of <i>WT1</i> alterations and high mutation load. Haematologica 2018. PMID:29954937 39: Yang L. Han Y. Suarez Saiz F et al. A tumor suppressor and 39: Yang L, Han Y, Suarez Saiz F et al, A tumor suppressor and oncogene: the WT1 story. Leukemia 2007. PMID:17361230 40: Yoshida K, Sanada M, Shiraishi Y et al, Frequent pathway mutations of splicing machinery in myelodysplasia. Nature 2011. PMID:21909114 41: Zhang SJ, Rampal R, Manshouri T et al, Genetic analysis of patients with leukemic transformation of myeloproliferative neoplasms shows recurrent SRSF2 mutations that are associated with adverse outcome. Blood 2012. PMID:22431577 This result has been reviewed and approved by Low coverage regions: Listed below are regions where the average sequencing depth (number of times a particular nucleotide is sequenced) in at least 20% of the region-of-interest is less than our stringent cutoff of 300. Sensitivity for detection of low allelic frequency variants may be reduced in areas with reduced depth of coverage BCOR(NM_001123385.2) intron 2 exon 2 BACKGROUND INFORMATION: Myeloid Malignancies Mutation and Copy Number Variation Panel by Next Generation Sequencing 'CHARACTERISTICS: Myeloid malignancies are clonal disorders of hematopoietic stem and progenitor cells that include myelodysplastic syndromes (MDSs), myeloproliferative neoplasms (MPNs), myelodysplastic/myeloproliferative neoplasms (MDS/MPNs), acute myeloid leukemia (AML), and others. Recent studies have identified recurrently mutated genes with diagnostic and/or prognostic impact in myeloid malignancies. The presence of certain mutations may inform clinical management. This multigene panel by massively parallel sequencing (next generation sequencing) detects molecular changes (single nucleotide

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GENES TESTED: ANKRD26; ASXL1; ASXL2; BCOR; BCORL1; BRAF; CALR; CBL; CBLB; CEBPA; CSF3R; CUX1*; DDX41; DNMT1*; DNMT3A; ELANE; ETNK1; ETV6; EZH2; FBXW7; FLT3; GATA1; GATA2; GNAS; HNRNPK; IDH1; IDH2; IL7R; JAK1; JAK2; JAK3; KDM6A*; KIT; KMT2A; KRAS; LUC7L2; MPL; NOTCH1; NPM1*; NRAS; NSD1; PHF6; PIGA; PPM1D; PRPF40B; PRPF8; PTPN11; RAD21; RUNX1; SAMD9; SAMD9L; SETBP1; SF3B1; SH2B3; SMC1A; SMC3; SRSF2; STAC2; STAT3; STAT5B*; SUZ12*; TET2; TP53; U2AF1; U2AF2; UBA1; WT1; ZRSR2 *One or more exons of the preferred transcript were not covered by sequencing for the indicated gene; see limitations section below.

METHODOLOGY: Genomic DNA was isolated from peripheral blood or bone marrow and then enriched for the targeted exonic regions of the tested genes and approximately 13,000 single nucleotide polymorphisms (SNPs) evenly spaced over the coding genome. The variant status, copy number variation of the targeted genes and SNPs, and CN-LOH were determined by massively parallel sequencing. The hg19 (GRCh37) human genome assembly was used as a reference for identifying genetic variants. The following general types of variants are reported: clinically significant/uncertain sequence variants in the preferred transcript, CNVs (gains or losses) in the targeted genes, likely acquired terminal CN-LOH, and CNVs 5 megabases (Mb) or greater in size in any gene. In addition, these specific variants will also be reported: losses in additional relevant genes (ARID2, ASMTL, ATM, CD200, CDKN2A, CHEK2, ERG, IKZF1, NF1, PAX5, RB1, TBLLXR1), gains in additional relevant genes (MYC), losses between FIP1L1 and PDGFRA that result in a potential fusion, and any CN-LOH involving TP53, JAK2, and CBL.

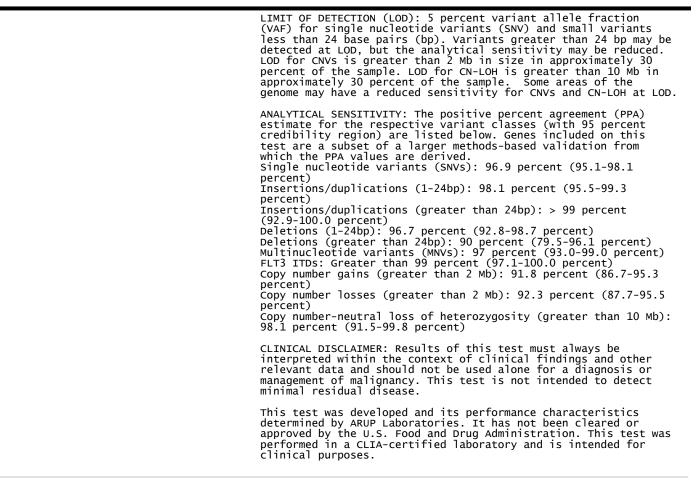
LIMITATIONS: Variants outside the targeted regions or below the limit of detection are not identified. Variants in regions that are not included in the preferred transcript for the targeted genes are not detected. Benign or likely benign variants and likely germline or interstitial CN-LOH are not reported. In some cases, variants may not be identified due to technical limitations in the presence of pseudogenes or in repetitive or homologous regions. It is also possible some insertion/deletion variants may not be identified. RNA variants, gene fusions, translocations and other structural variants are not detected by this test. Due to complexity of analysis, CNVs may not be reported in the instance of stem cell transplants that present with mixed chimerism, increased genomic complexity (greater than four copy number variants), and complex aneuploidies (e.g., hyper- or hypodiploidy). Variant allele frequency (VAF) is not reported for CNVs with copy number greater than three. This test does not replace conventional cytogenetic studies or genomic microarray in the workup of hematologic malignancies; results from this test should be correlated with cytogenetic test results. Interpretation of this test result may be impacted if this patient has had an undisclosed allogeneic bone marrow transplant or stem cell transplant. This test does not distinguish between somatic and germline variants. The following regions were not sequenced due to technical limitations of the assay: CUX1 (NM_181552) exon 24 DNMT1 (NM_001130823) exon 5 KDM6A (NM_002201 exon 1 STAT5B (NM_012448) exons 6-9 SUZ12 (NM_013355) exons 1-9

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EER Myeloid Mutation Panel NGS, DelDup

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Procedure	Accession	Collected	Received	Verified/Reported		
MYE CNV Proposed Diagnosis	23-299-108508	10/26/2023 12:21:00 PM	10/26/2023 12:22:11 PM	10/27/2023 8:56:00 AM		
MYE CNV Specimen	23-299-108508	10/26/2023 12:21:00 PM	10/26/2023 12:22:11 PM	10/27/2023 8:56:00 AM		
MYE CNV Interp	23-299-108508	10/26/2023 12:21:00 PM	10/26/2023 12:22:11 PM	10/27/2023 8:56:00 AM		
EER Myeloid Mutation Panel NGS, DelDup	23-299-108508	10/26/2023 12:21:00 PM	10/26/2023 12:22:11 PM	10/27/2023 8:56:00 AM		

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