

Myelodysplastic Syndrome (MDS)

Analysis	Quantity/Material	Pre-analytics/Notes	Frequency Test duration	Method
Tumor Cytogenetics	at least 3 ml heparinised bone marrow or 5 ml heparinised blood	For bone marrow use sterile heparin transport medium (available on request). Alternative: bone marrow in heparin monovette	daily Mo.-Fr. 12-14 days	unstimulated and stimulated cultures; chromosome analysis (GTG bands)
Molecular Cytogenetics <u>MDS panel:</u> t(3;3) GATA2/MECOM del 5q31 / -5 del 7q22 / 7q36 / -7 +8 11q23.3 KMT2A rearrangement del 17p13.1 (TP53) / 17q11.2 del 20q12 / 20qter	at least 3 ml heparinised bone marrow or 5 ml heparinised blood	When performed with conventional chromosome analysis, no separate material is required.	daily Mo.-Fr. 5-7 days, 12-14 days with chromosome analysis	Fluorescence in situ hybridization (FISH) after enrichment of CD34-positive mononuclear cells
Molecular Genetics ASXL1 + CBL + CSF3R + DDX41 + DNMT3A + EZH2 + IDH1 + IDH2 + JAK2 + NPM1 + NRAS + RUNX1 + SETBP1 +	3 ml blood (EDTA) or 3 ml bone marrow (EDTA)		2x / week as needed	Sequencing

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Molecular Genetics (continuation) SF3B1 ⁺ SRSF2 ⁺ STAG2 ⁺ TET2 ⁺ TP53 ⁺ U2AF1 ⁺ ZRSR2 ⁺	3 ml blood (EDTA) or 3 ml bone marrow (EDTA)		2x / week as needed	Sequencing
Immunophenotyping leukemia panel	5 ml blood (EDTA) or 3 ml bone marrow (EDTA)	Limited stability of the sample. Storage at room temperature. Sample should be in the laboratory within 24 hours. Submission: Monday to Thursday	daily Mo.-Fr.	Flow cytometry

Request forms for the analyses are available in the download area of our homepage.