Oncology Clinical Pathways Myelodysplastic Syndromes (MDS)

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<u>Myelodysplastic Syndromes – Presumptive Conditions</u>

VA automatically presumes that certain disabilities were caused by military service. This is because of the unique circumstances of a specific Veteran's military service. If a presumed condition is diagnosed in a Veteran within a certain group, they can be awarded disability compensation.

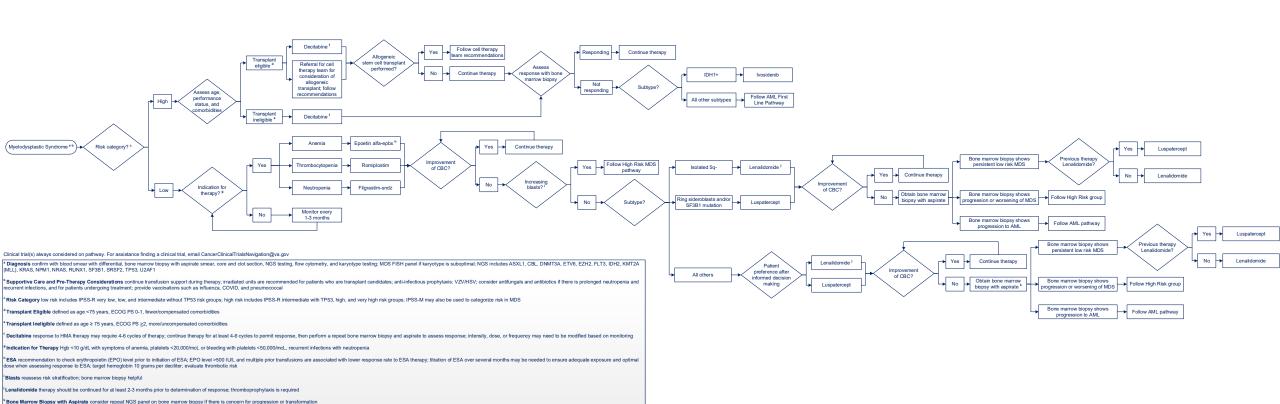
Myelodysplastic Syndromes are currently not presumptive conditions

For more information, please visit <u>U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)</u>





Myelodysplastic Syndromes





CBC Complete Blood Count ESA Erythropoietin Stimulating Agent MDS Myelodysplastic Syndrome





<u>Myelodysplastic Syndromes – Molecular Testing Table</u>

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type
Clinical Suspicion for Myelodysplastic Syndrome (MDS)	Flow Cytometry	Leukemia/lymphoma panel on bone marrow	Local VA or locally contracted vendor	No	Bone Marrow Biopsy, Blood
	FISH	FISH (-bone marrow or peripheral blood) only if karyotype unsatisfactory or logistically difficult to order* MDS panel, including -5/5q; -7/7q; +8; del(20q)	Local VA or locally contracted vendor	No	Bone Marrow Biopsy, Blood
	Karyotyping	Bone marrow karyotype	Local VA or locally contracted vendor	No	Bone Marrow Biopsy, Blood
Bone Marrow Morphology Consistent with or Highly Suspicious for Myelodysplastic Syndrome	Somatic NGS**	Targeted myeloid NGS panel required genes include: TP53, KMT2A, FLT3, SF3B1, NPM1, RUNX1, NRAS, ETV6, IDH2, CBL, EZH2, U2AF1, SRSF2, DNMT3A, ASXL1, KRAS; desired but optional genes include: BCOR, BCORL1, CEBPA, ETNK1, GATA2, GNB1, IDH1, NF1, PHF6, PPM1D, PRPF8, PTPN11, SETBP1, STAG2, WT1, DDX41.		GLA Grant*** Yes	Bone Marrow Biopsy, Blood

^{*} FISH does NOT add value in MDS workup unless chromosomes/karyotype are suboptimal; thus, ideally a workflow should be established with the local pathology laboratory or referral lab such that FISH is only performed if chromosomes/karyotype has unsatisfactory resolution or <20 metaphases; in addition, FISH and molecular studies may be performed on a subsequent peripheral blood sample if needed; however, it is understood that in certain resource limited areas this type of reflex testing algorithm may not be possible; in those circumstances it may be in the best interest of the patient to order FISH up front in order to avoid excessive delays in diagnosis







^{**} Can be performed on subsequent peripheral blood sample, as long as neutrophils are at least 20% of total WBC

^{***} Reach out to GLA for information on use of NGS testing under a VA sponsored grant, with no cost to your local facility