



Myelodysplastic Syndromes

Quick Reference Guide

2026

Table of Contents

1. CLINICAL SNAPSHOT	3
HCC/RAF V28 Mapping	3
2. RECOGNITION AND DIAGNOSIS	5
Medicare Diagnostic Workup and Surveillance (Adult and Geriatric)	5
Subtle Signs in Older Adults	6
Geriatric Risk Factors	7
Diagnostic Thresholds (WHO/ICC 2022, IPSS-R, IPSS-M)	8
Clues to Dig Deeper	9
Common Oversights	9
Key Differentials in Elderly	10
Comorbidity Screening	11
3. MEAT DOCUMENTATION ESSENTIALS	13
Clinical Documentation Elements	13
Reframing Common Documentation Shortcuts	14
4. TREATMENT AND REFERRAL QUICK GUIDE	14
Therapy Escalation Criteria	15
NCCN (v3.2026) Guideline-Aligned Treatment by Risk and Profile	15
Non-Pharmacologic Care and Supportive Interventions	16
Medication Safety and Key Interactions	17
When to Refer	18
Follow-Up Timing	19
Comorbidity Management	19
Cost-Smart Options	20
Patient Education and Adherence	21
Quality Metrics Tie-In	22
5. CODING REMINDERS AND CASE EXAMPLES	24
Coding Specificity	24
Annual Clinical Review and Confirmation	24
Good Documentation — EHR Tips	25
Brief Case Examples	25
REFERENCES	26

1 CLINICAL SNAPSHOT

Definition: Myelodysplastic syndromes (MDS) are a heterogeneous group of clonal hematopoietic stem-cell malignancies in which ineffective hematopoiesis produces one or more persistent peripheral **cytopenias**, morphologic **dysplasia** in the bone marrow, and a variable risk of progression to acute myeloid leukemia (AML).¹ Diagnosis integrates clinical, morphologic, cytogenetic, and molecular data; bone marrow aspirate and biopsy are required to confirm MDS.¹ The **boundary with AML is defined by blast percentage**: MDS carries **<20% blasts**, while **≥20% blasts** defines AML.¹ Because the disease is biologically diverse, the central caution for primary care is to avoid oversimplifying it as a single anemia of aging.

ICD-10 Codes:

MDS is reported under the **D46** category, with subtype-specific codes that should reflect bone marrow and cytogenetic findings: **D46.0** (refractory anemia without ring sideroblasts), **D46.1** (refractory anemia with ring sideroblasts), **D46.20** (RAEB, unspecified), **D46.21** (RAEB-1, blasts 5-9%),² **D46.22** (RAEB-2, blasts 10-19%),² **D46.4** (refractory anemia, unspecified), **D46.A** (refractory cytopenia with multilineage dysplasia), **D46.B** (multilineage dysplasia with ring sideroblasts), **D46.C** (MDS with isolated del(5q)), **D46.Z** (other MDS), and **D46.9** (MDS, unspecified). When MDS transforms to AML (≥20% blasts),¹ the code must be updated from **D46.x** to the appropriate **C92.x** code. Suspected or probable MDS should be coded to the documented sign or symptom until a marrow-confirmed diagnosis is established.

Prevalence and Burden: MDS is predominantly a disease of older adults - more than **85%** of cases occur in persons 60 years or older, with a median age at diagnosis of roughly **70-77 years**.⁴ SEER-based incidence is about **4 per 100,000/year** overall and near **25 per 100,000/year** in adults aged ≥65.⁵ Claims-based methods place the true incidence in adults ≥65 substantially higher (approximately **75 per 100,000/year**) reflecting significant registry under-documentation.⁶ Overall 5-year survival is approximately **37%**; lower-risk MDS carries a median survival of **3-10 years**, while higher-risk MDS carries a median survival of **<3 years**.⁵

HCC/RAF V28 Mapping

ICD-10 CODE(S)	HCC CATEGORY (V28)	RAF (CNA)	DOCUMENTATION REQUIREMENT
D46.0 Refractory anemia without ring sideroblasts	HCC 19 Myelodysplastic Syndromes/Multiple Myeloma/and Other Cancers	1.798	Document WHO-aligned bone marrow findings (erythroid dysplasia, no ring sideroblasts, <5% blasts, cytogenetics) and persistent anemia despite adequate nutritional supplementation

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