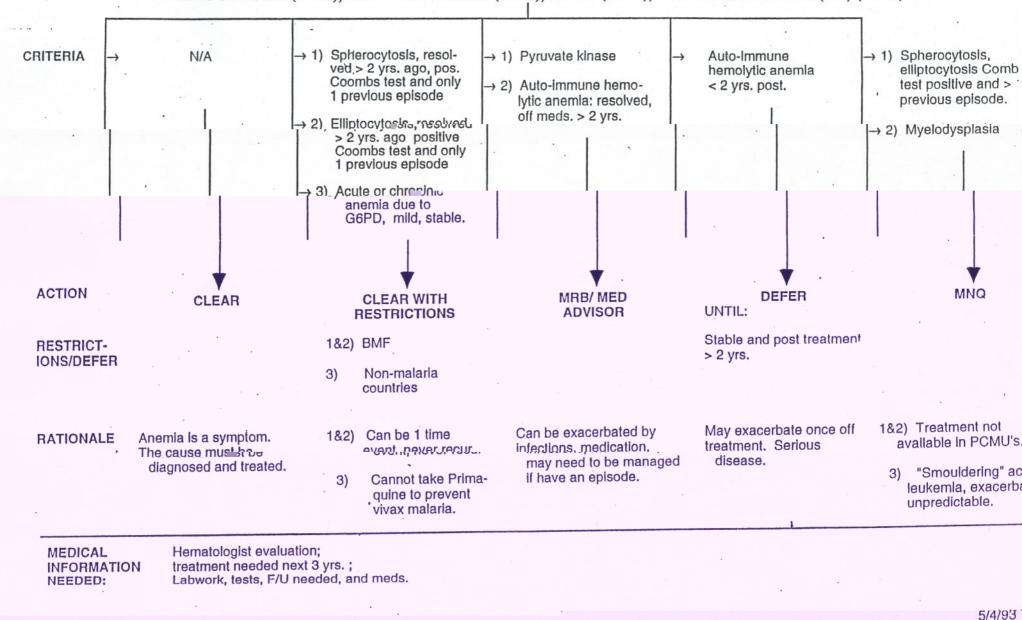
HEMATOLOGY

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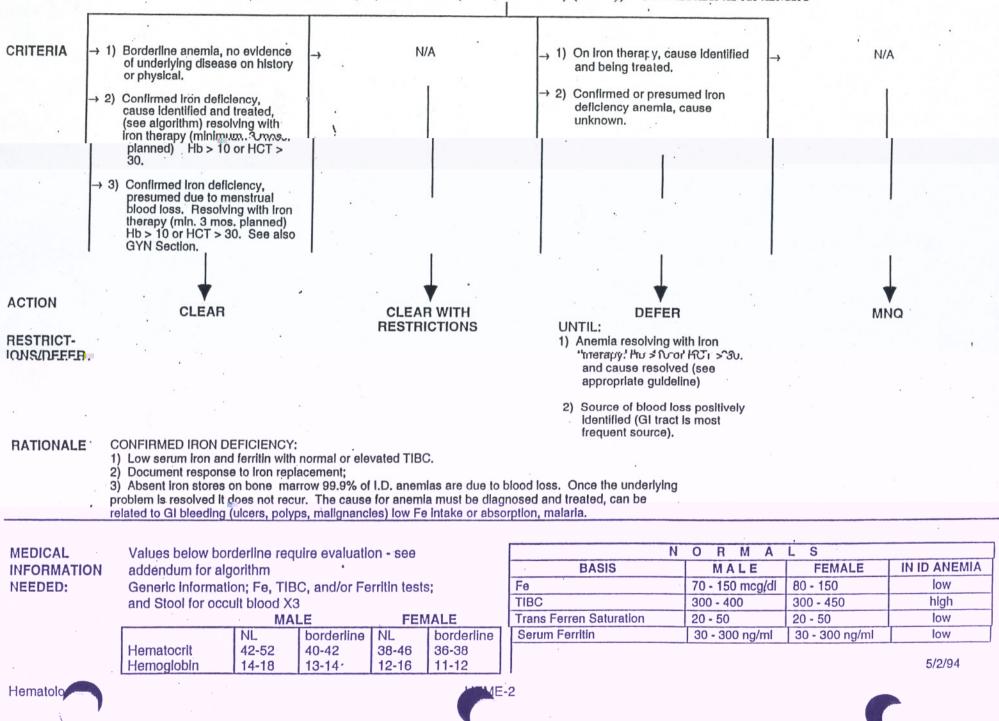
HEMOLYTIC ANEMIA (282.9), AUTO-IMMUNE HEMOLYTIC ANEMIA (283.0) HEREDITARY HEMOLYTIC ANEMIAS: SPHEROCYTOSIS (282.9), ELLIPTOCYTOSIS (282.1), G6-PD (282.2), PYRUVATE KINASE (PK) (282.3)



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HEME-1



IRON DEFICIENCY (ID) ANEMIA (Fe ANEMIAS) (280.9), BORDERLINE ANEMIA



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HEMATOLOGY

COMPONENT	NORMALS	BORDERLINE NORMALS	CRITERIA FOR NORMAL/BORDERLINE
lematocrit and/or Hemoglobin	Male: 42-52%	Male: 40-42%	Clear
	14-18g/dl	13-14g/dl	
	Female: 38-46%	Female: 36-38%	Clear
	12-16g/dl	11-12g/dl	
			Any values outside of normal/borderline normal requires appropriate evaluation as per addendum for anemia work-up.
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URINALYSIS

COMPONENT	NORMALS	CRITERIA
Specific Gravity Color Character	1.005-1.020 Straw Clear, odorless '4.5-8.0	Any deviations should be reviewed in context of other U/A findings and history and physical. May ask for repeat or take action based on underlying cause.
<u>Glucose</u> (sugar):	Negati∨e	Negative Clear Present Defer: Diabetes, drug therapy
Protein (Albumin):	Negative to Trace	Negative to trace-(except diabetics) Clear > Trace Defer:MD evaluation for kidney disease
Ketones (acetone):	Negative	NegativeClearTrace or 1+ & no glucoseClear* 1+ & positive glucoseDefer: MDevaluation
Urobilinogen:	Negative/Small Amounts	Negative to trace Clear > Trace Repeat and evaluate
Bilirubin:	Negative	Positive Refer: MD R/O liver disease
Nitrite:	Negative	Negative Clear Positive R/O_UTI
Ascorbic Acid:	No importance	N/A N/A
Blood (Occult Blood):	Negative dipstick, o-3 RBC/HPF	Negative-or < 0-3 RBC/HP ClearPositive Defer: R/O> 3 RBC/HPFUrologic dysfunction

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TABLES-8



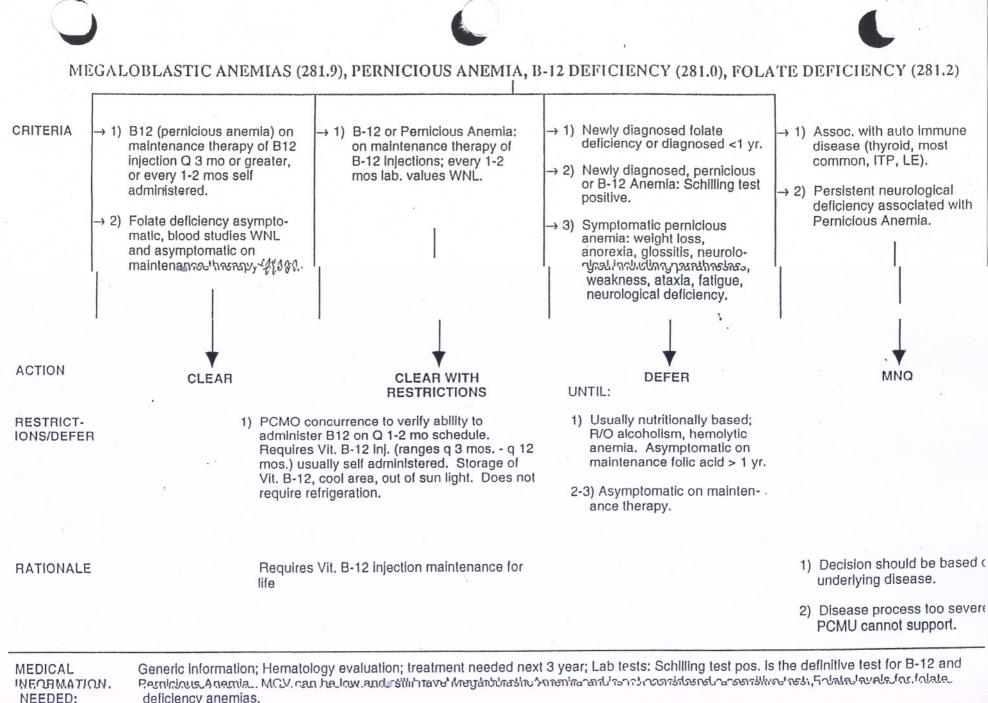
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Initial Anemia Work-up

The following evaluations are for begining the anemia work-up on PCVs and applicants. It is not a comprehensive analysis of the anemic condition but indicates where to begin and a discussion of iron deficiency anemia.

1) Anomia is diagnosod by a CBC or any hori

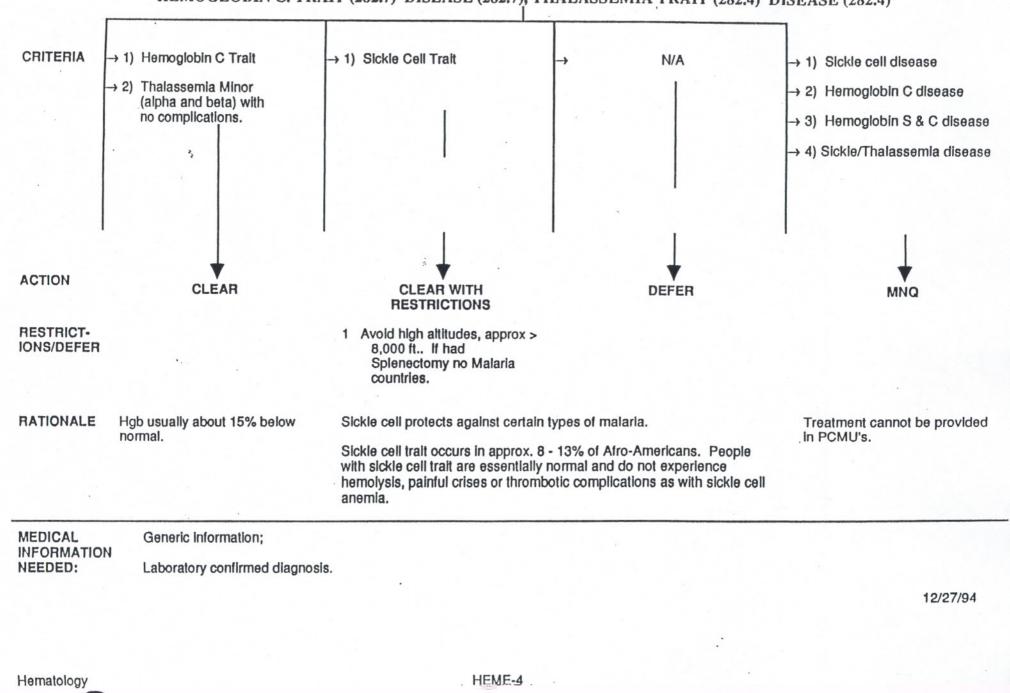




deficiency anemias.

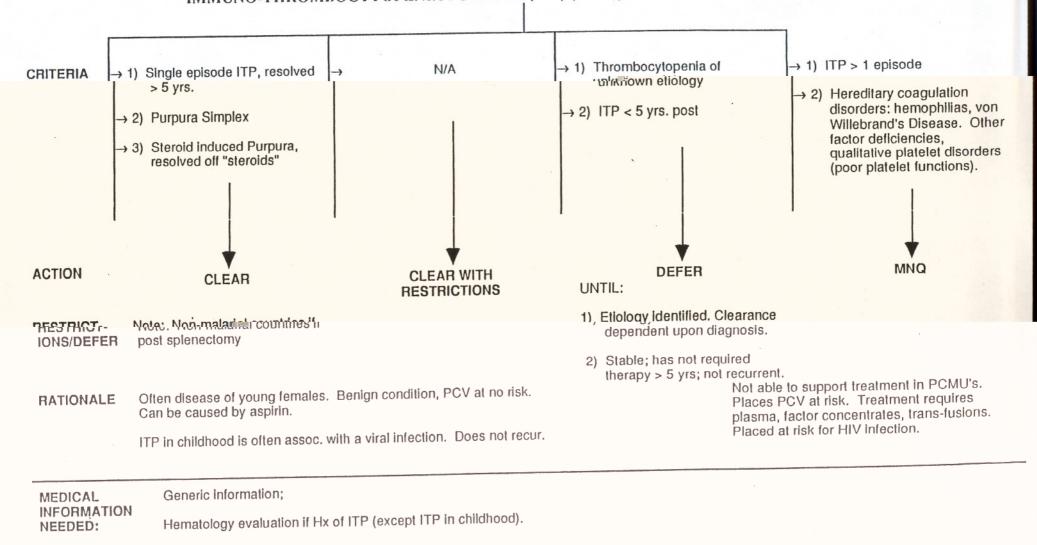
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HEMOGLOBINOPATHIES, SICKLE CELL TRAIT (282.5) DISEASE (282.6), HEMOGLOBIN C. TRAIT (282.7) DISEASE (282.7), THALASSEMIA TRAIT (282.4) DISEASE (282.4)

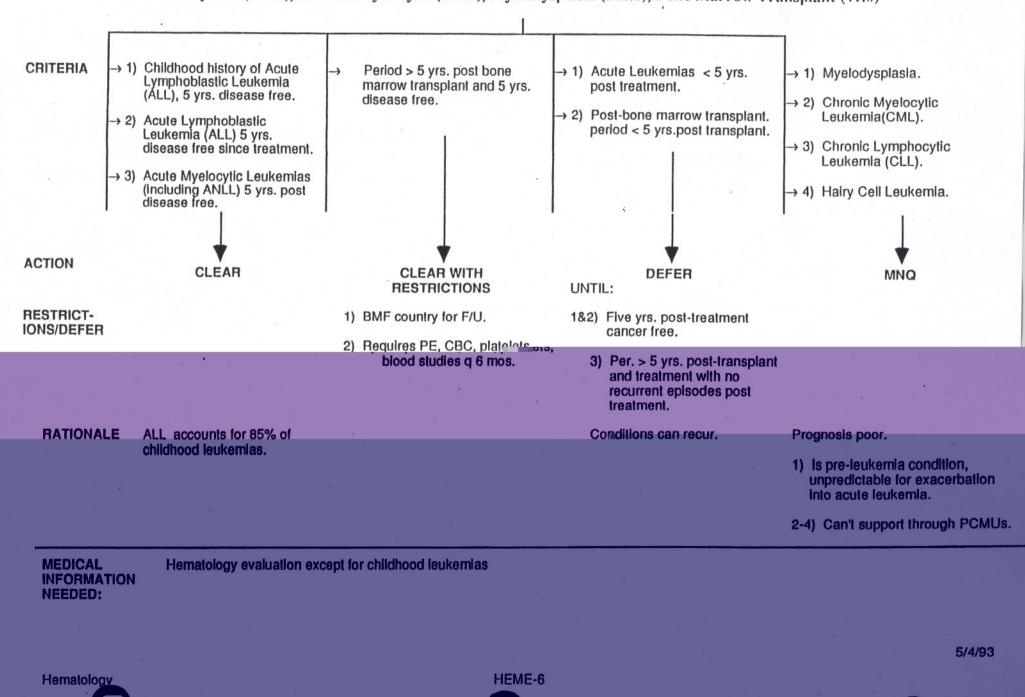


HEMORRHAGIC DISORDER (287)

IMMUNO-THROMBOCYTOPENIA PURPURA (ITP) (287.3), THROMBOCYTOPENIA (287.5)



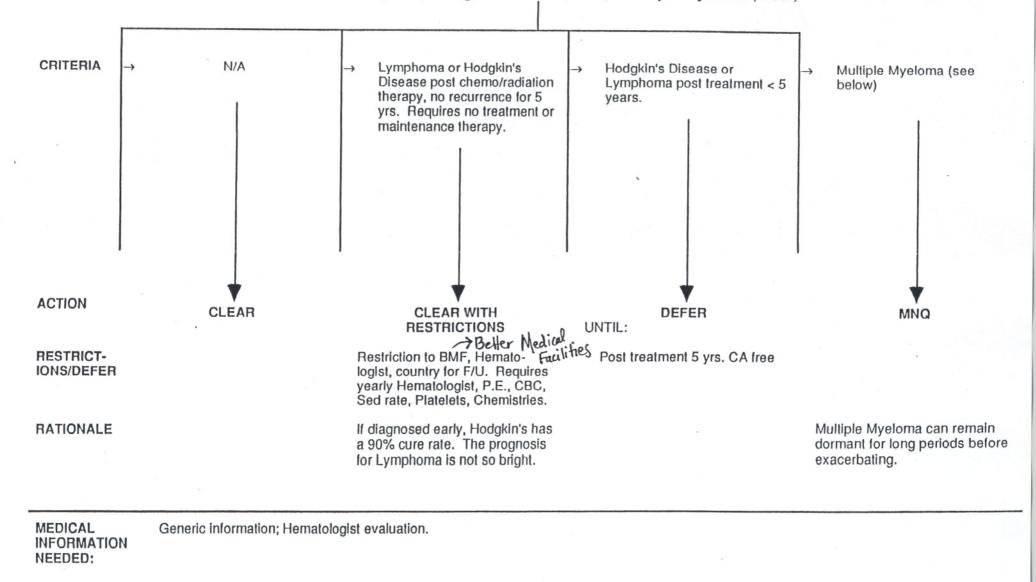
LEUKEMIAS, Acute Lymphoblastic (204.0); Acute Myelocytic (205.0), Chronic Lymphocytic (204.1), Hairy Cell (202.4), Chronic Myelocytic (205.1), Myelodysplasia (208.8), Bone Marrow Transplant (41.0)





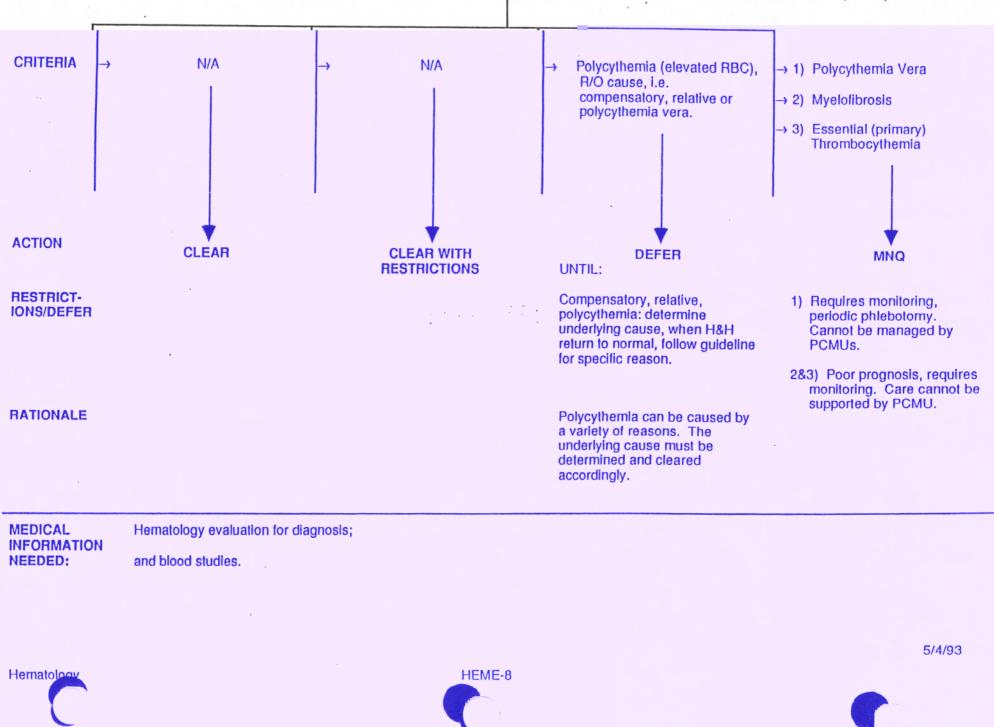


LYMPHOMA (202.8). Hodgkin's Disease (201.9). Multiple Myeloma (203.0)



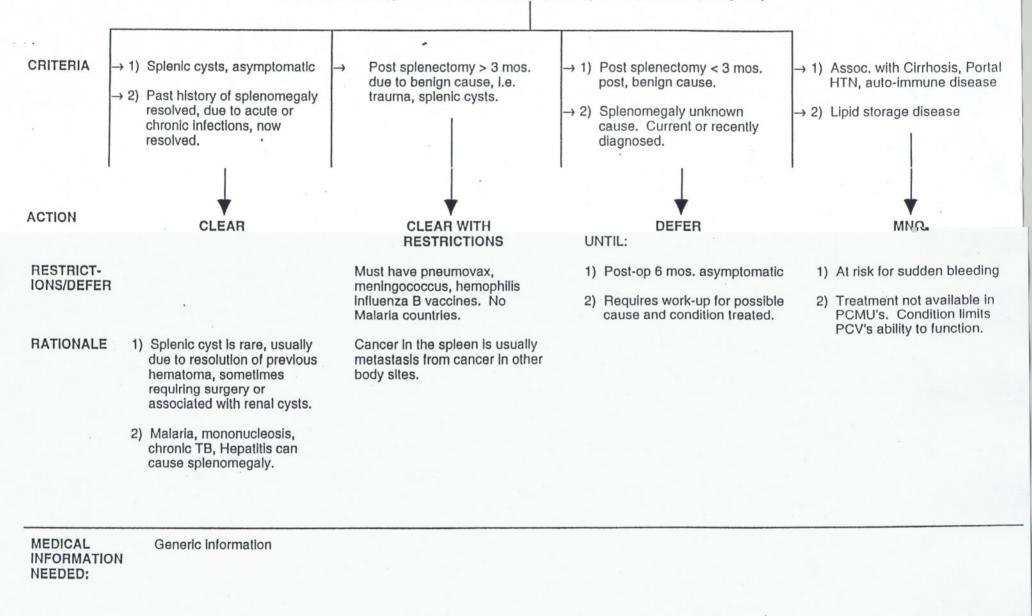
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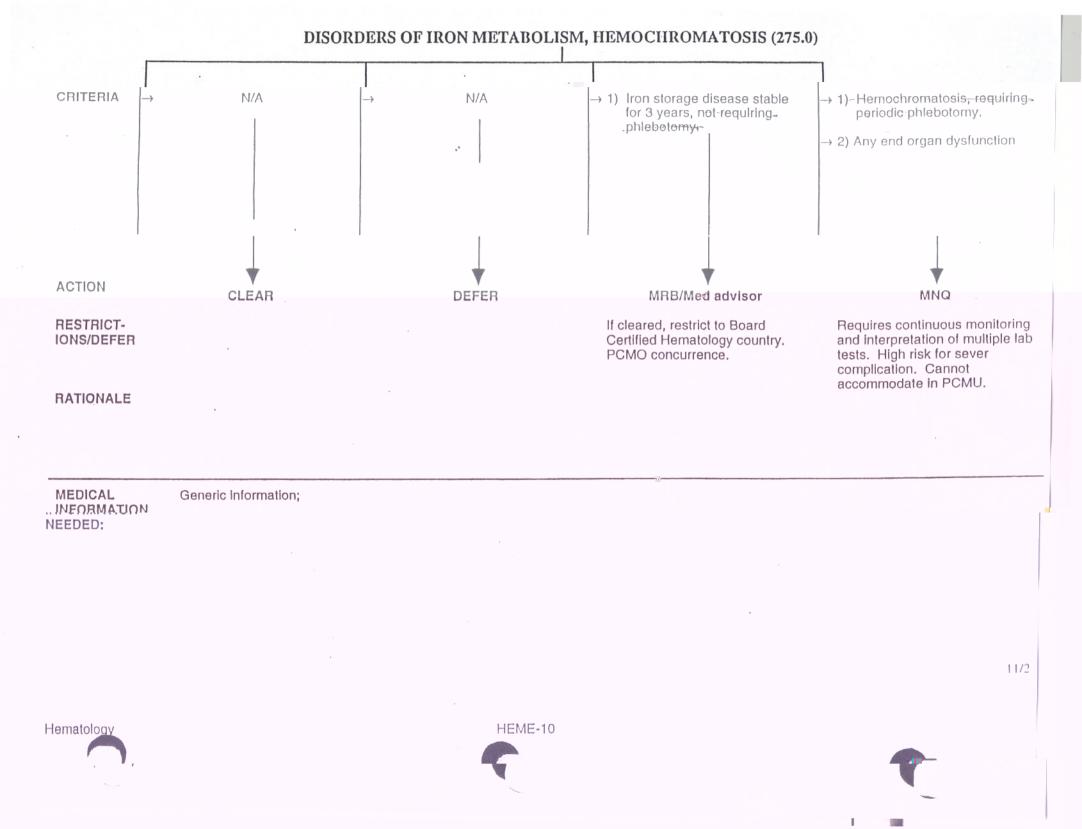
MYELOPROLIFERATE DISORDERS (238.7), ESSENTIAL THROMBOCYTHEMIA (238.7), MYELOFIBROSIS (289.8), POLYCYTHEMIA VERA (238.4)





SPLEEN: CYST (289.59), SPLENOMEGALY (789.2), SPLENECTOMY (41.5)





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HEMATULOGY

Except for iron deficiency anemia, anemia are extremely rare in the younger population. Anemia is more commonly seen in individuals 60 years or older; an exceptio Anemia: anemia secondary to colon cancer in males.

Megaloblastic Anemia: There are a variety of causes for megaloblastic anemia, i.e., auto-immune disease as in pernicious anemia, the absence of gastro-parietal cells for a variety







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Immune Thrombocytopenia

Puerpera (ITP): Childhood ITP can be an episode associated with a viral infection and never recur. Adult ITP is an auto-immune platelet disorder and, if treated and stable, can remain stable.

Hereditary Coagulation

- Disorders: The hereditary coagulation disorders, such as hemophilia, are serious conditions requiring transfusions of platelet and factor, concentrates. Such transfusions could place to. individuals at risk in countries without adequate HIV screening.
- Leukemia:...If.on.individual.has survived 5 years after ter remandifymouth recovery drophysics of the disease, they are considered cured. If they have had a recurrence during the 5 year after treatment, they would be considered a poor risk for survival.
 - Myeladaysplasia. Individuals / langnose landith. Myeladaysplasia have a conformation which is specholocomely competing the part which is specholocomely competing the part of the part of

Lymphoma, Hodgkin's Disease and

Multiple Myeloma: If diagnosed and treated early, Hodgkin's Disease has more than a 90% cure rate. Lymphoma has a less optimistic prognosis than Hodgkin's, however, if there has been no recurrent episodes in the 5 years post treatment, individuals may do very well, require no maintenance treatment and only need an annual examination by hematologist and blood studies. Multiple Myeloma is a disease which can lie dormant for many years, without evidence of clinical symptoms. If individuals are in the dormant stage of this disease, they could manage very nicely with monitoring as recommended by their hematologist.

Polycythemia and

Polycythemia Vera: Polycythemia is an abnormal increase in the number of red blood cells. It can be compensatory polycythemia, that is polycythemia resulting from anoxia due t

BLOOD VALUES

COMPONENT	NOI	MALS	CRITERIA	ACTION

0			C	
WBC Differential	Total segmented neutrophils	50-75%	WNL	_ Clear
	(Polys):	3-5%	Slight clevation	_ Clear
	Bands (stabs):	0-1%	of Eosinophils with	
	Metamyelocytes:	20-40%	allergics	
	Lymphocytes:	0-8%	· · · · · · · · · · · · · · · · · · ·	
	Monocytes:	0-6%	Slight elevation or	_ Defer: repeat test
	Eosinophils:	0-2%	slight decrease in	
	Basophils;	0-4%	neutrophils or lymphocytes	
	Atypical Lymphs:	the presence of any other		
	Any other:	types of WBC is abnormal	Any other	
		and requires evaluation	abnormality, presence of	_ Defer: MD evaluation to R/O
			blasts, cosinophils >7%,	malignancies, Inflammatory
			Atypical lymphs >4%	Disorders, Immune Disorder,
				Hodgkin's, Colitis, Nephrosis

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