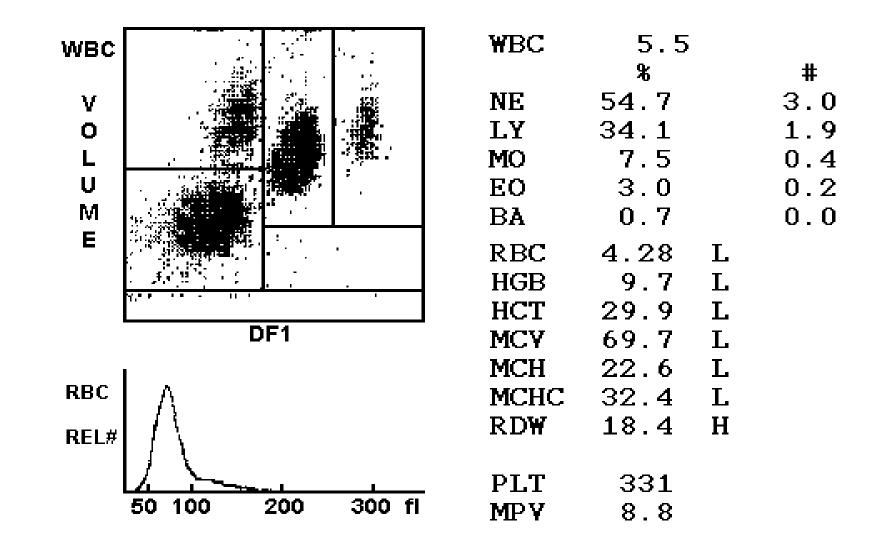
SGDs of red cells

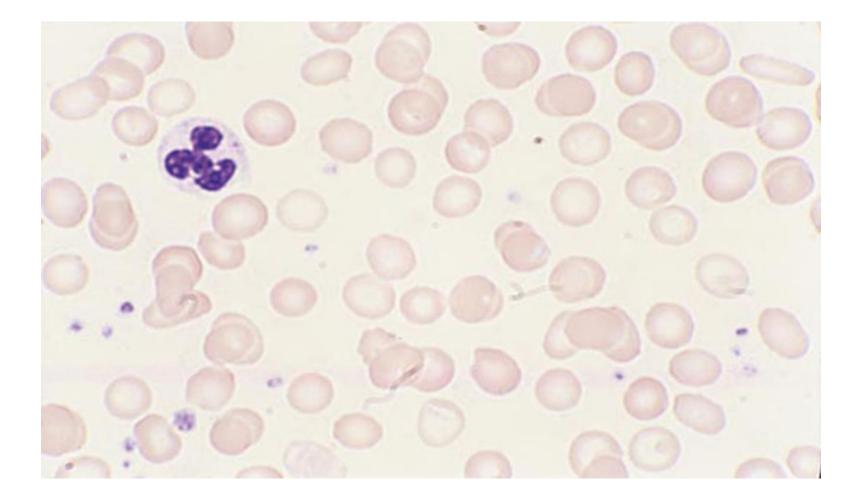
Dr saima irum Assistant professor of pathology

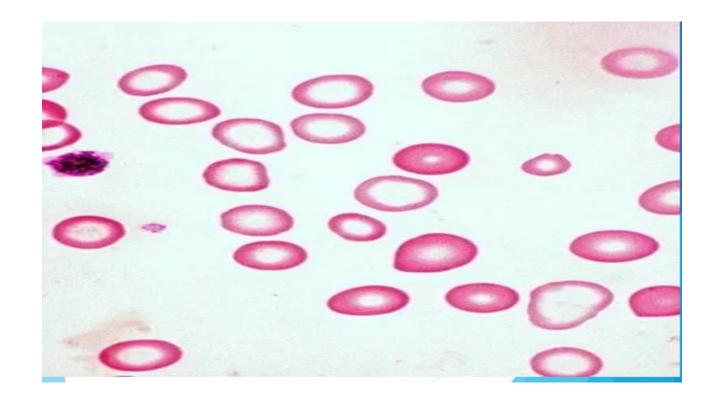
CBC report of a 17 years male with fatigue and sortness of breath on exertion



- Q1 what is differential diagnosis?
- Q2 which further tests you will advise?

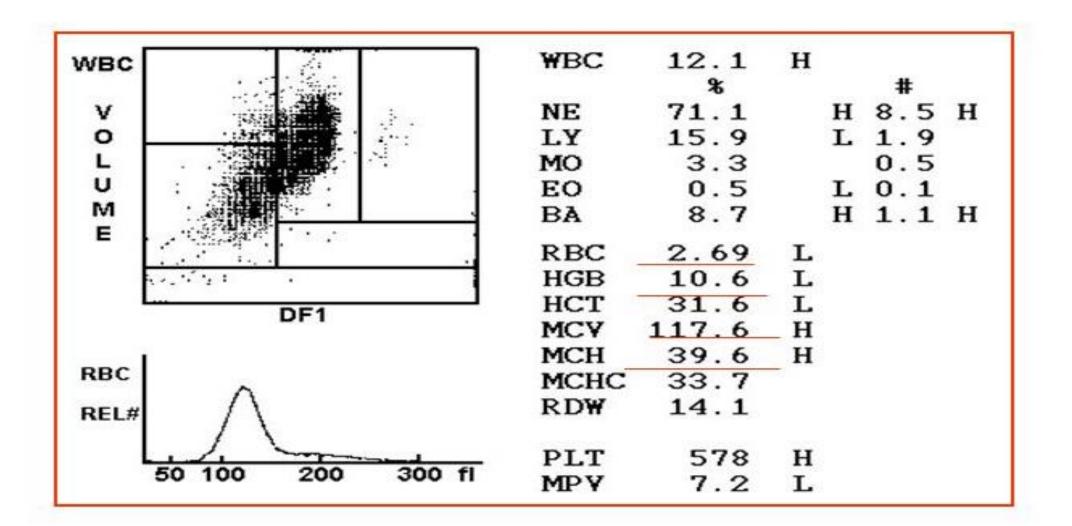
Peripheral smear of this patient is





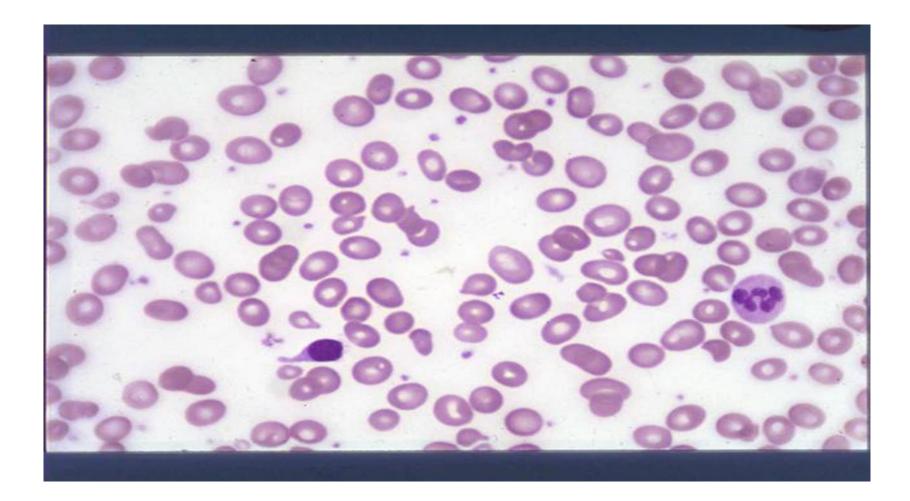
- Now what is your diagnosis?
- What will you ask in history?
- What are causes of this type of anemia?

This is CBC report of 60 years old female with symptoms of anemia



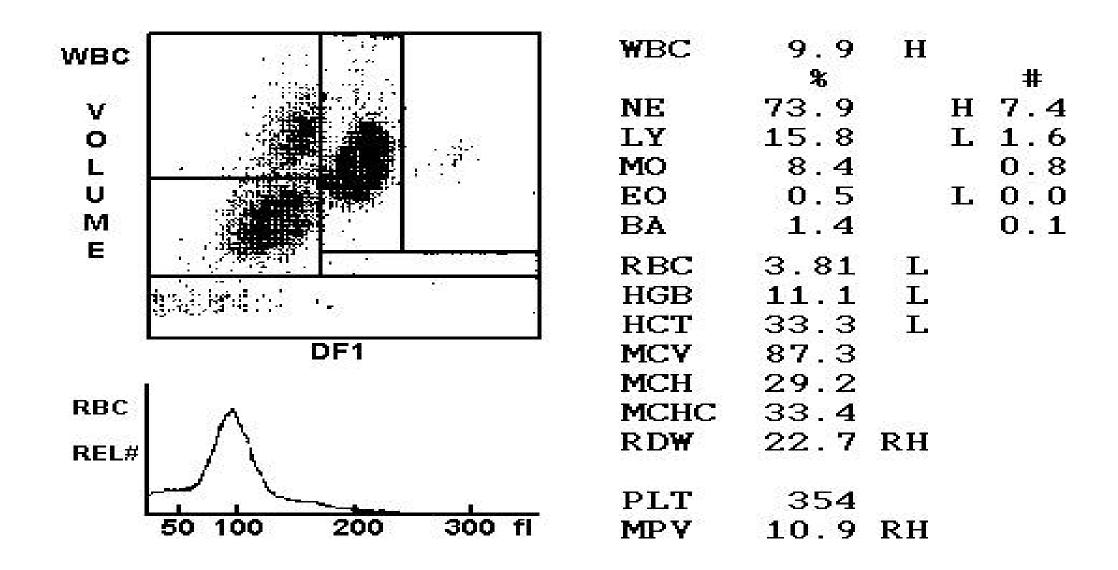
- Q1 what is differential diagnosis?
- Q2 what further tests you will advise?

This is peripheral smear of patient



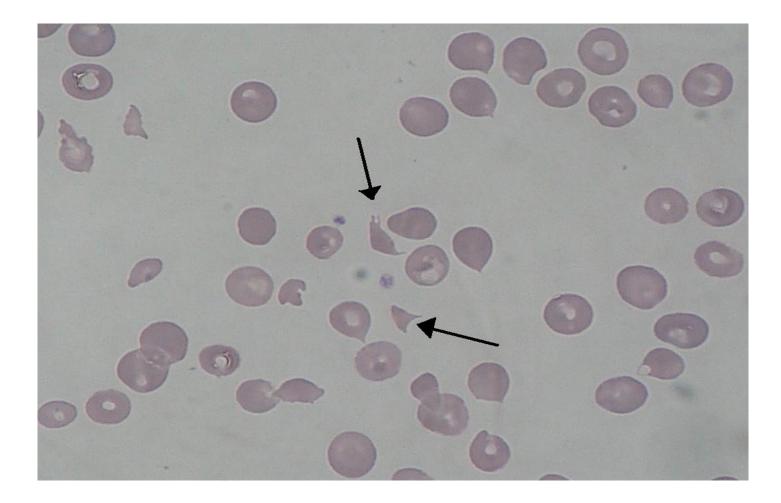
- Now what is final diagnosis?
- What are causes?
- What are clinical features?
- Iron is absorbed in which part of intestine?
- vitamin B12 is absorbed in which part of intestine?
- Folic acid is absorbed in which part of intestine?
- Name 2 anti folate drugs

This is CBC of patient 35 years old patient in DIC



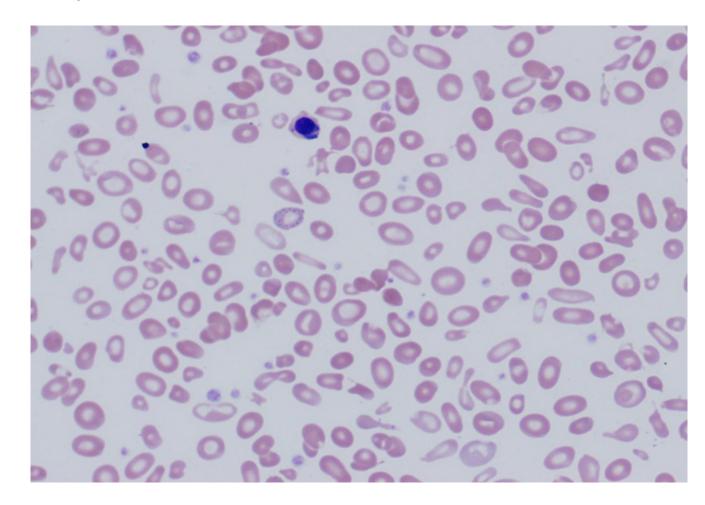
- What type of anemia is it?
- What further tests you will advise?

This is patients peripheral smear



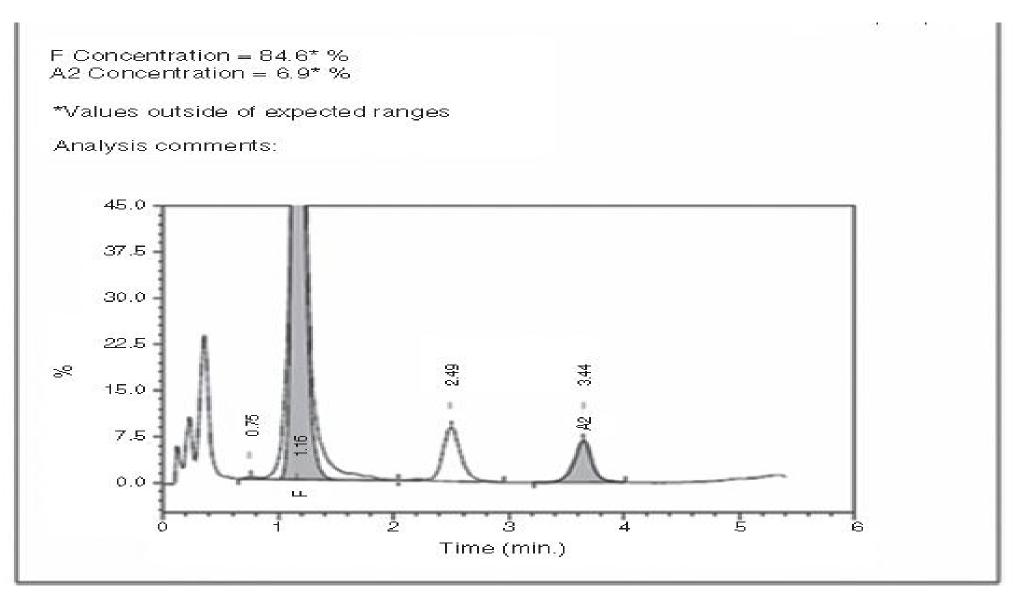
- Cells pointed with arrows are called what?
- Classify hemolytic anemias

This is peripheral smear of 2 years old male with history of anemia



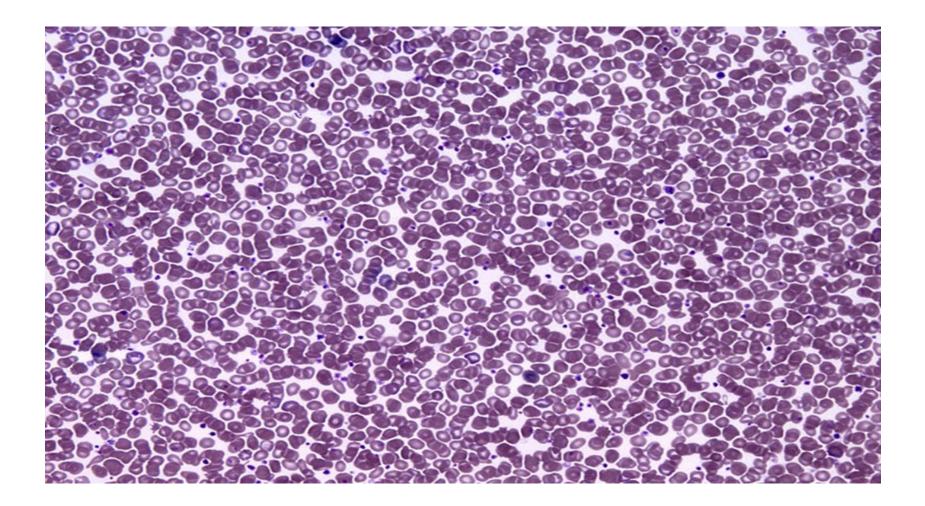
- What is differential diagnosis?
- What further tests are advised?

His iron profile is normal and Hb electrophoresis is as under



- What is final diagnosis?
- What are different types of this disease?
- What treatment options are there?
- What is pathophysiology?

Peripheral smear of 58 years old male



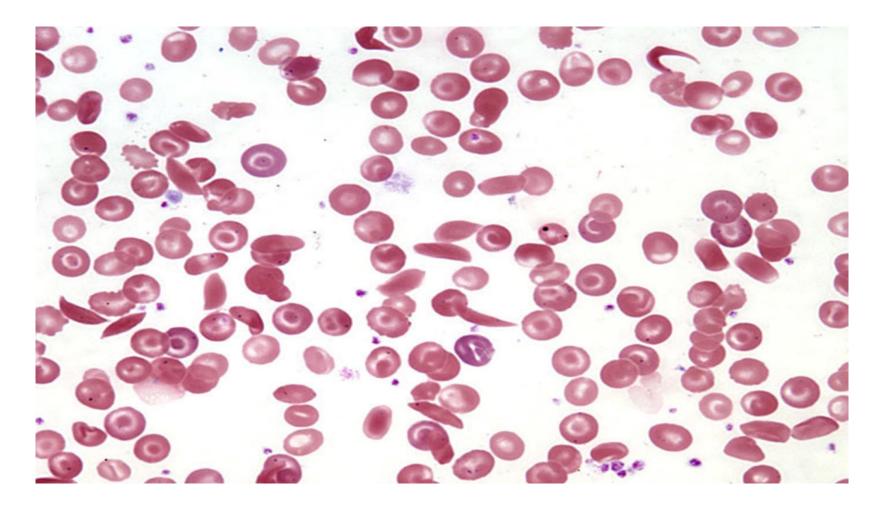
Thisis his CBC report

HAEMATOLOGY	Result	Normal Ranges
Test Name		
CBC ESR Profil	19.6 g/dl.	13.0 - 18.0
Haemoglobin.	55.1 Vol 9	10 36 - 54
Haematocrit	80.3 fl.	76-96
M.C.V	28.6 pg.	27 - 32
M.C.H	35.6 g/dl.	31-34
MCHC	6.86 ×10	^12/L. 4.5 - 5.5
RBC	162 ×10	^9/L 150 - 450
Platelet Count	6.8 ×10	^9/L 4.0 - 11.0
WBC		
Neutrophils	48 %.	
ymphocytes		, , , , , , 1-6
Eosinophils		02-10
Ionocytes		n/hr.,, 0-25
SR	20 111	

— MARHAM.PK—

- What is final diagnosi?
- Different types of this disorder?
- What is diagnostic test of this disorder?

Peripheral smear of 18 years old man with chronic right sided leg ulcer, pain in hands and feet



- What is diagnosi?
- what are complications of this disease?
- what is pathogenesis?

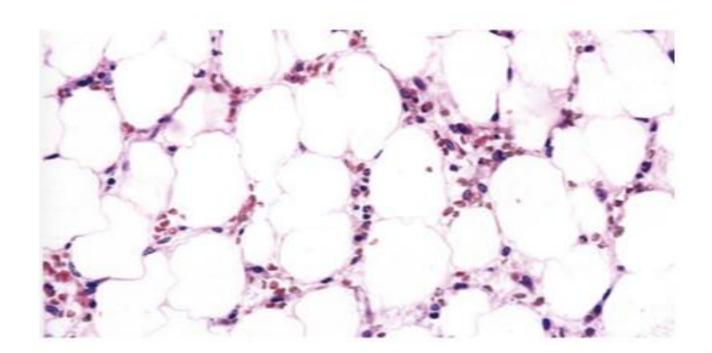
What is abnormal in this report?

CBC AUTOMATED DIFF			
CBC			
WBC	0.5	4.5-11.0	Th/cmm
RBC	3.15	4.30-5.90	Mil/cmm
HGB	10.1	13.9-16.3	g/dL
HCT	29.0	39-55	8
MCV	92	80-100	fL
RDW	16.2	11.5-14.5	*
MCH	32.1	25-35	pg
NCHC	34.8	31-37	g/dL
PLT	45	140-440	Th/cmm
DIFFERENTIAL			
METHOD	MAN		
1 NEUT	15	40-76	*
% LYMPH	84	24-44	*
\$ EOS	1	0-5	*
/ NEUT	0.1	1.73-7.13	Th/cmm
/ LYMPH	0.4	1.15-4.75	Th/cmm
/ EOS	0.0	0.05-0.43	Th/cmm
PLATELET ESTIMATE	2 TO 5		
RBC MORPHOLOGY	ANISOCYTES 1+		
	TEARDROP CELLS	OCCASIONAL	

• Which tests will you advise?

This bone marrow of same patient

Diagnosis?



- What is final diagnosis?
- What is criteria/grades of this disorder?
- What is pathophysiology?