

ECG of a 51 Year lady Came with Chest Pain, Palpitation, Fatigue -on 19-11-2018

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This patient's CBC Report .. Severe Anemia

ECG in Anemia...Results: ECG changes in patients with Hb level of 0-5gm% showed ST-segment depression in 50-75%, T wave changes in 29-50% and Left Ventricular Hypertrophy (LVH) in 25-30% of patients. Less percentage of patients with 5-7gm% Hb showed such changes, and patients with 7-8gm% Hb showed no changes.

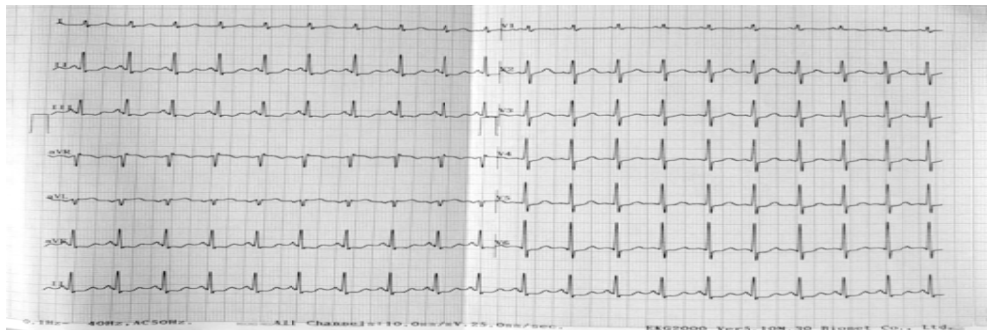
As the Hb level decreased there was more percentage of patients having tachycardia and ECG changes. There was a strong negative correlation between Hb level and tachycardia and ECG changes.

Conclusion

Diagnosing anemia in critical care can be supported by ECG changes like ST depression, T wave changes, with/without associated QRS abnormalities to avoid misdiagnosis and also as dramatic clinical and ECG recovery can be achieved with anemia correction.

Reference

1. Gv S, Pk S, Herur A, et al. Correlation Between Haemoglobin Level and Electrocardiographic (ECG) Findings in Anaemia: A Cross-Sectional Study. *J Clin Diagn Res.* 2014;8(4):BC04-BC6. doi:10.7860/JCDR/2014/8966.4202S.



ECG of the Patient

REPORT		REFERENCE VALUE
BLOOD		
HAEMATOLOGY CBC		
COMPLETE HAEMOGRAM:		
TOTAL W.B.C. COUNT.	: 6,900 Cells/cumm.	(4000 - 11000)
TOTAL R.B.C. COUNT.	: 2.50 Millions/cumm.	(M:4.6 - 6.0) (F:4.2 - 5.4)
PLATELET COUNT.	: 2.2 Lakhs/cumm.	(1.5 - 4.0)
DIFFERENTIAL W.B.C. COUNT.:		
POLYMORPHS.	: 73 %	(40 - 65)
LYMPHOCYTES.	: 15 %	(20 - 50)
EOSINOPHILS.	: 12 %	(02 - 08)
MONOCYTES.	: 00 %	(02 - 04)
BASOPHILS.	: 00 %	(00 - 01)
HAEMOGLOBIN.	: 3.7 gm/dl.	(M : 13.5 - 17.0) (F: 11.5 - 15.5)
P.C.V (HAEMATOCRIT)	: 12.9 %	(M: 40 - 52) (F: 38 - 45)
M.C.V	: 51.6 μm^3 .	(78 - 94)
M.C.H	: 14.8 pg.	(27 - 32)
M.C.H.C	: 28.7 %	(32 - 36)
BIO CHEMISTRY		
BLOOD GLUCOSE (R)	: 95 mg/dl.	(70 - 110)
URINE		
COLOUR	: PALE YELLOW	
REACTION	: ACIDIC	
SP.GRAVITY	: 1.015	
pH	: 6.0	
BLOOD	: ABSENT	

Blood report of the Patient