
بسم الله الرحمن الرحیم

Relationship between serum level of vitamin D and RBC indices

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Introduction And Goal

- anemia

Various consequences

1/3 of the world's population

The number of RBC and the amount of hemoglobin and hematocrit, and red blood cell indices are removed from the normal range.

- Vitamin D deficiency

pandemic problem

associated with a wide range of illnesses

Vitamin D deficiency in people with chronic kidney and heart disease

Few studies have been conducted : results have been contradictory

a study has not been conducted in Iran

Methods

- Analytical-cross sectional
- Bushehr city
- Year 1395
- 233 outpatient visits to the laboratory for random check-up
- CBC, Vit D tests
- Age and sex of referrals as demographic factors
- By software spss 16
- Descriptive statistics (mean, frequency) / and inferential (linear regression and Spearman correlation analysis)

Results

D	24.3
RBC	4.5
HB	12.8
HCT	39.4
MCV	85.8
MCH	28.1
MCHC	32.4
RDW	13.2

Corrlation test

pvalue≤0/05

	HB	HCT
Spearman's rho D Correlation Coefficient	.155* .	.147*
Sig. (2-tailed)	.032	.042

Linear regression analysis

direct relation
predictable for each other.

HB	HCT
/2	/4

Discussion And Conclusion

This is the first study in Iran

Anemia Due to the lack of vitamin D,
and other causes of anemia should be distinguished

And this can help to diagnose precisely and definitely treat.

As a result, it is suggested for people with anemia
CBC and vitamin D tests are simultaneously checked.

Suggestion

- Limitations
- Need for additional studies

Key words

vitamin D , RBC index, anemia

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Thank
you!