

//  
//

( )

\*

*B12*

*HPLC*

(*P* < / / ± / μmol/L / ± / μmol/L :

*Vit B<sub>12</sub>*

( ) :

( / mg/kg)

*SGOT SGPT ALP*

(*ALP* )

(*Triglyceride Cholesterol LDL*)

*B12*

*dr\_m\_rahmati@yahoo.com* :

( / )  
 ( / ) .( )  
 / (Hcy)  
 Hcy .  
 % / % / Vit B<sub>12</sub>  
 Hcy  
 .( )  
 TG (Vit B<sub>6</sub>)  
 HDL LDL Hcy Cholesterol .( )  
 Vit B<sub>12</sub> (ALP SGOT SGPT ) B<sub>12</sub> B<sub>6</sub> )  
 ) ( )  
 .( ) Hcy  
 (Homocysteinemia)  
 Hcy  
 ) %  
 ( / ± / A .( )  
 ( )  
 .( )  
 NSAID Hcy  
 Hcy  
 Schulpis  
 Hcy  
 Hcy  
 .( )

| Hcy | Hcy | ( $\mu\text{mol/L}$ )          |
|-----|-----|--------------------------------|
| /   | /   | ( $\mu\text{mol/L}$ )          |
| /   | /   | ( $\mu\text{mol/L}$ )          |
| /   | /   | ( $\mu\text{mol/L}$ )          |
| /   | /   | ( $\mu\text{mol/L}$ )          |
| /   | /   | ( $\mu\text{mol/L}$ ) 95% CI * |

Confidence Interval : CI \*

( $\text{Hcy}$ )  
 (correlation)  $\text{B}_{12}$  SGPT, SGOT  
 (ISO)

|         |         |       |
|---------|---------|-------|
| $r < /$ |         | Hcy   |
| $r < /$ | Vit B12 | Hcy   |
| $r < /$ |         | Hcy   |
| $r < /$ | Vit B12 | Hcy   |
| $r = /$ | SGOT    | (Hcy) |
| $r = /$ | SGPT    | (Hcy) |

(ISO)  
 ( ) HDL LDL VLDL

( / mg.kg/day )  
 (Hcy)  
 SGPT)  $\text{B}_{12}$   
 TG) (ALP SGOT  
 (HDL LDL Cholesterol  
 ) HPLC  
 ( Hcy  
 RIA  $\text{B}_{12}$   
 paired T-test  
 ( )  
 P < /

( ) ( )  
 (ALP )  
 ( HDL  
 ( )  
 (ALP)

| P value |           |           |                           |
|---------|-----------|-----------|---------------------------|
| P < /   | / $\pm$ / | / $\pm$ / | Hcy ( $\mu\text{mol/L}$ ) |
| P < /   | / $\pm$ / | / $\pm$ / | SGOT ( $\mu\text{ml}$ )   |
| P < /   | / $\pm$ / | / $\pm$ / | SGPT ( $\mu\text{ml}$ )   |
| NS *    | / $\pm$ / | / $\pm$ / | Alp ( $\mu\text{l}$ )     |
| P < /   | / $\pm$ / | / $\pm$ / | Chol (mg/dl)              |
| P < /   | $\pm$ /   | / $\pm$ / | TG (mg/dl)                |
| P < /   | / $\pm$ / | / $\pm$ / | LDL (mg/dl)               |
| P < /   | / $\pm$ / | / $\pm$ / | HDL (mg/dl)               |

Not Significant : NS \*

( ) Hcy Isotretinon .

B<sub>12</sub> .( )

( ) SGOT SGPT

( )

Schulpis Isotretinoin (Hcy)

Hcy Hcy

Hcy

) Methionin – loading test ( )

( B

B<sub>6</sub> Hcy

Hcy ( )

Isotretinoin Methionin loading test

) Hcy B

(... Vit B<sub>6</sub> Hcy

B<sub>12</sub> Schulpis.( )

( )

B<sub>6</sub> Hcy

( )

subclinical Metionin loading test

( )

B ( ) Isotretinoin

( ) Hcy

(CAD) Hcy

Isotretinoin schulpis

B

Hcy

Hcy ( ) ISO

## REFERENCES

---

1. Simpson NB, Cunliffe WJ. Disorder of the sebaceous glands. Rook's textbook of dermatology. 7<sup>th</sup> ed. Uk: Blackwell. 2004.
2. Alcalay J, Landau M, Zueker A. Analysis of laboratory data in acne patients treatment with isotretinoin is there really a need to perform routine laboratory test? *J Derm Treat* 2001; 12(1): 9-12.
3. Phillips MD. Interrelated risk factor for venous thrombosis. *Circulation* 1989; 79: 1180-8.
4. Voutilainen S, Lakka TA, Porkkala-Sarataho E, Rissanen T, Kaplan GA, Salonen JT. Low serum folate concentrations are associated with disease risk factor study. *Eur J Clin Nutr* 2000; 54: 424-8.
5. Amichai B, Grunwald MH. Isotretinoine in dermatology. *J Dermatol Treat* 1998; 11: 219-40.
6. Schulips KH, Karikas GA, Georgala S, Michas T. Elevated plasma Homocysteine levels in patients on isotretinoin therapy for cystic acne. *Int J Dermatol* 2001; 40(1): 33-6.
7. Chanson A, Cardinault N, Rock E, Martin JF, Souteyrand P, D'Incan M, et al. Decreased plasma folate concentration in young and elderly healthy subjects after a short-term supplementation with isotretinoin. *J Eur Acad Dermatol Venereol* 2008; 22(1): 94-100.
8. Christensen B, Refsum H, Vintermyr O, uleand PM. Homocysteine export from cells cultured in the presence of physiological or superfinous levels of methionine: Methionin loading of nontransformed, transformed, proliferating, and quiescent cells in culture. *J Cell Physiol* 1991; 146: 52-62.
9. Svardal AM, Djurhuus R, Refsum H. Deposition of homocysteine in rat hepatocytes and in nontransformed and malignant mouse embryo fibroblasts following exposure to inhibitors of S-adenosyl homocysteine catabolism. *Cancer Res* 1986; 46: 5095-100.
10. Schulp's KH, Gerogala S, Karikas GA, Michas T. The effect of isotretinoin on biotidinase activity. *Skin Pharmacol* 1999; 12: 28-33.
11. Pan charuniti N, Lewis CA. Plasma homocysteine, folate, and vitamin B12 concentrations and risk for early-onset coronary artery disease. *Am J Clin Nutr* 1994; 59(4): 940-8.
12. Ubbink JB, Vermak WJH, Becker PJ. Vitamin B12, Vitamin B6 and folate nutritional status in men with hyperhomocysteinemia. *Am J Clin Nutr* 1981; 57: 47-53.
13. Murua AL, Quintana I, Janson J, Batista M. Plasmatic homocysteine response to vitamin supplementation in elderly people. *Thromb Res* 2000; 100(6): 495-500.

- 
14. Kang SS, Wand PW, Notusis M. Homocysteinemia due to folate deficiency. *Metabolism* 1987; 36(5): 458-62.