

7.8
 67
 23
 44
 가 (spermatogenesis)
 2.
 Carnitil[®] 1 3 3 g 3
 3~ 5
 (volume, ml), (count, 10⁶/ml), (motility, %),
 (morphology, %) (viability, %) 57가
 May Grüwald
 Giemsa staining 가
 3.
 25% SPSS (version 11.1) paired t-test
 30% 10 p-value가
 0.05 가

Carnitil[®] (acetylcarnitine, Hanmi, Korea) 34.2 (28~42)
 3.7 (2~9)
 3.8 , 31.2
 가
 1 , 1 가 1
 44 28
 1. , 16
 2003 3 2004 3
 1 (J.T.S)
 (oligospermia) (asthenozoospermia)
 , (, ,
 ,) (antisperm antibody), (transrectal ultrasonography)
 , ,
 (pyospermia) (gonadotoxin), (3.28±1.51 ml vs. 3.54±1.49 ml), (10.7±54.5 million/ml vs. 38.4±32.5 million/ml), (19.0±
 (2.64±1.65 ml vs. 3.10±1.60 ml), (61.9 ±40.9 million/ml vs. 73.5±43.4 million/ml), (35.1 ±17.7% vs. 45.9±20.4%), (64.8±12.9% vs. 63.3 ±16.8%) (51.4±20.3% vs. 59.3±13.6%)
 가 (Table 1),

Table 1. Comparison of semen parameters in asthenospermic patients (n=28)

	Pre-treatment	Post-treatment	p-value
Volume (ml)	2.64±1.65	3.10±1.60	0.033*
Count (million/ml)	61.9±40.9	73.5±43.4	0.269
Mortality (%)	35.1±17.7	45.9±20.4	0.001*
Morphology (%)	64.8±12.9	63.3±16.8	0.580
Viability (%)	51.4±20.3	59.3±13.6	0.035*

*: statistically significant (p<0.05)

Table 2. Comparison of semen parameters in oligoasthenospermic patients (n=16)

	Pre-treatment	Post-treatment	p-value
Volume (ml)	3.28±1.51	3.54±1.49	0.330
Count (million/ml)	10.7±54.5	38.4±32.5	0.003*
Mortality (%)	19.0±14.6	27.1±23.9	0.115
Morphology (%)	34.3±33.9	40.8±24.5	0.398
Viability (%)	24.7±27.4	39.7±26.3	0.065

*: statistically significant (p<0.05)

14.6% vs. 27.1±23.9%), (34.3±33.9 % vs. 40.8±24.5%), (24.7±27.4% vs. 39.7±26.3%)

가

(Table 2). 3 Carnitil®

(specific medical therapy)

(adjuvant therapy) (nonspecific empirical medical therapy)

(WHO)

가

1

15%

가 50%, 30%

20%

80%

1

, 1

가

가

가

.¹¹

Carnitine

acyl

(sertoli cell)

(Leydig cell)

carnitine

.¹²⁻¹⁴

L-carnitine, acetylcarnitine acyl-L-carnitine , L-carnitine acetylcarnitine
, L-carnitine 4가 amine 가 .
가 3-hydroxyaminobutyrate carnitine
, acetylcarnitine carnitine
. L-carnitine long chain acyl
, acetylcarnitine short chain acyl
acetyl Moncada 25
, (str- 20 acetylcarnitine 1 4 gm 60
uctural lipid) 가 가 4
가 .
.14-16 Acetylc- 2 가
mitine 가 가
, spectrin actin .17,18 Moncada 25
carnitine acetylcarnitine
DNA 가 .19,20 가 가
carnitine 가 가
L-carnitine, acetylcarnitine propionyl-L-carni- . 가 가
tine . L-carnitine acetylcarnitine 가,
(oligoasthenospermic) , 가 가
, propionyl-L-carnitine 가 .
.21-23
Carnitine . Caviglia
acetylcarnitine 가
, 가 carnitine
가 (male fertility)
.24
Moncada 25 acetylcarnitine
, 13
acetylcarnitine 가 , , Carnitol® 가
.26
L-carnitine 1 Carnitol®
, acetylcarnitine
가 ,

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