

(Horrobin 1990 ; Lindberg 1992 ; Neaton 1992 ; Schuit 1993).
 DSM - III - R
 147 , 44 , 32 ,
 8 .
 . Su -
 가
 llivan (1994)
 ,
 (suicidality)
 . Modai (1994)
 , 1996 ~98
 , 231
 , 231
 가

2. 연구방법

가
 ,
 가 . Kunugi (1997)
 가
 320
 ,
 가 ,
 3 가 231 가 ,
 가
 . Papassotiropoulos (1999)
 (acute suicidality) 가
 가 가
 , 가
 (HITACHI®)
 , Strandberg
 (1991) Pekkanen (1989) 5 25 , 가가
 가 1
 . Cummings Ps -
 , (ICU),
 aty(1994) 5 () .

3. 통계분석

(Simons 1993).
 one - way ANOVA , Scheffe
 test .
 Student t - test
 p 0.05 .
 Statistical Package for Social - Science(SPSS) for
 Windows, version 8.0 .
 가 가? 2) 가
 가 가? 3)
 가? 4)
 가 가?

연구결과

연구대상 및 방법

1. 연구대상
 1994 1 1 1999 9 30
 1. 인구학적 특성
 231
 (63.6%), 가 44 (19%), 32 (13.
 9%), 8 (3.5%) (1).

2. 세 군 간 혈청 콜레스테롤 농도의 비교

가 91 (39.4%), 35 (15.1%), , , ,
 32 (13.9%), 19 (8.2%), , , ,
 14 (6.1%), 가 12 (5.2%), 9 (3.9%), 149.2 ± 34.9mg/dl, 179.6 ± 30.9mg/dl, 191.5 ± 28.8mg/dl ; df =2, F =95.2, p<0.0001)(1).
 5 (2.2%), 4 (1.7%),
 10 (4.3%) .
 38.1 ± 17.0 , 38.2 ± 15.4 , 38.2 ± 16.3 (1).
 body mass in - (147.4 ± 36.1mg/dl
 dex 21.8 ± 3.5kg/m², 23.0 ± 3.5kg/dl 180. ± 37.1mg/dl ; t =6.9, p<0.0001)(2).
 m², 22.3 ± 3.6kg/m² (150.0 ± 34.0mg/dl 179.7 ± 20.3 mg/dl ; t =6.1, p<0.0001).

Table 1. Demographic data

	Suicide attempters	Psychiatric controls	Normal controls
No. of subjects(M/F)	231(109/122)	231(109/122)	231(109/122)
No. according to psychiatric diagnosis(M/F)	147(67/80)		
Major depression		147(67/80)	-
Schizophrenia	32(20/12)	32(20/12)	-
Bipolar type I disorder	8(4/4)	8(4/4)	-
Personality disorder	44(16/28)	44(16/28)	-
Age(years)(SD)	38.1(17.0)	38.2(15.4)	38.2(16.3)
Body mass index(Kg/m ²)(SD)	21.8(3.5)	23.0(3.5)	22.3(3.6)

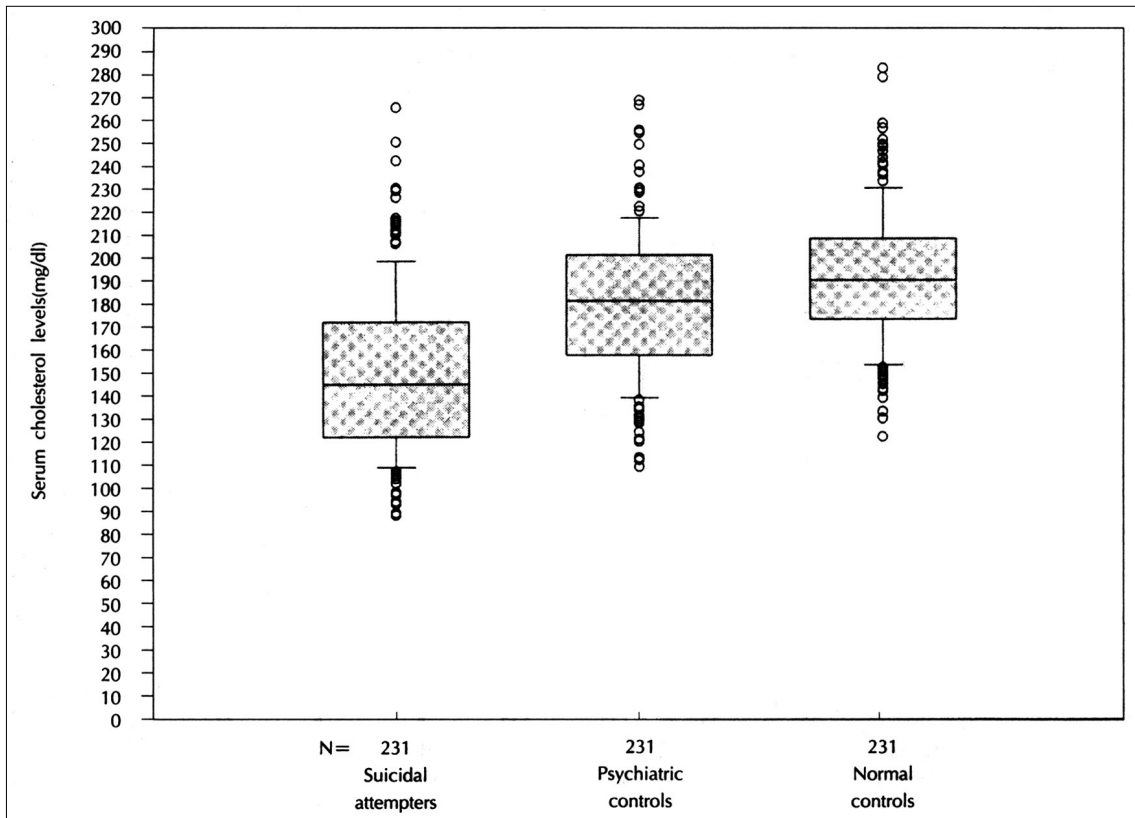


Fig. 1. Boxplot of serum cholesterol levels in suicidal attempters, psychiatric controls, and normal controls.

(162.5 ± 27.4mg/dl 179.1 ± 10.1mg/dl ; 168.9 ± 37.7 mg/dl 180.6 ± 26.7mg/dl).

3. 남녀별 혈청 콜레스테롤 농도의 비교

가 (140.2 ± 29.5mg/dl 156.2 ± 37.4mg/dl ; t=3.3, p<0.001).

가 (137.1 ± 26.4mg/dl 155.4 ± 40.5mg/dl ; t=2.8, p<0.005),

4. 자살 시도자에서 혈청 콜레스테롤 농도와 자살 심각도와 의 상관관계

가 가
 1 25 (10.8%), 2 65 (28.2%), 3 가
 56 (24.2%), 4 가 43 (18.6%), 가
 5 가 42 (18.2%) . 1
 164.0 ± 28.8mg/dl, 2 159.8 ± 33.2 mg/dl, 3 148.8 ± 33.0mg/dl, 4 143 ± 33.8mg/dl,

5 129.9 ± 3.2mg/dl one - way ANOVA (df =4, F =5.6, p<0.0001).

1 5 (p=0.01), 2 5 (p=0.002) (3).

5. 자살 시도자에서 치료전후의 혈청 콜레스테롤 농도의 변화

231 176
 가 . 176
 149.5 ± 35.4mg/dl, 180 ± 41.7 mg/dl
 가 (p=0.001).

고 찰

가 가

(Modai 1994 ; Goiler 1995 Kunugi 1997 ; Papassotiropoulos 1999).

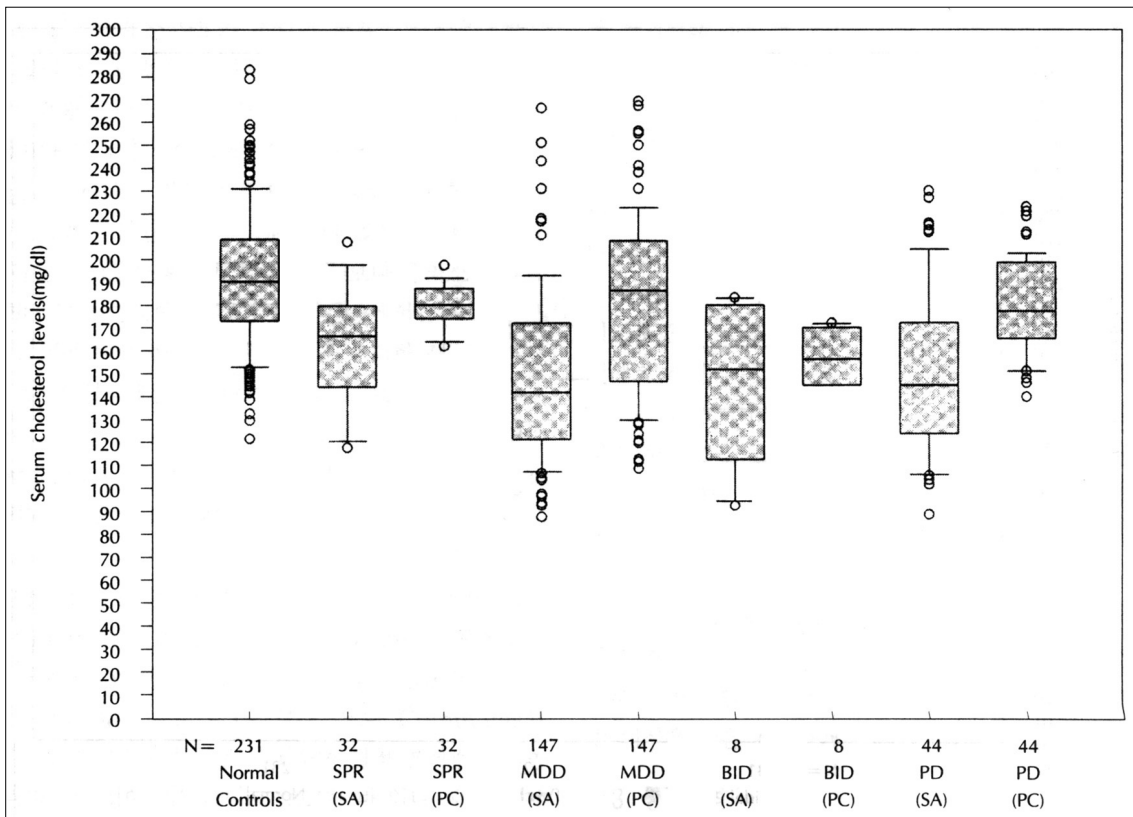


Fig. 2. Boxplot of serum cholesterol levels between suicidal attempters(SA) and psychiatric controls(PC) according to psychiatric diagnoses. SPR : schizophrenia, MDD : major depressive disorder, BID : bipolar I disorder, PD : personality disorder.

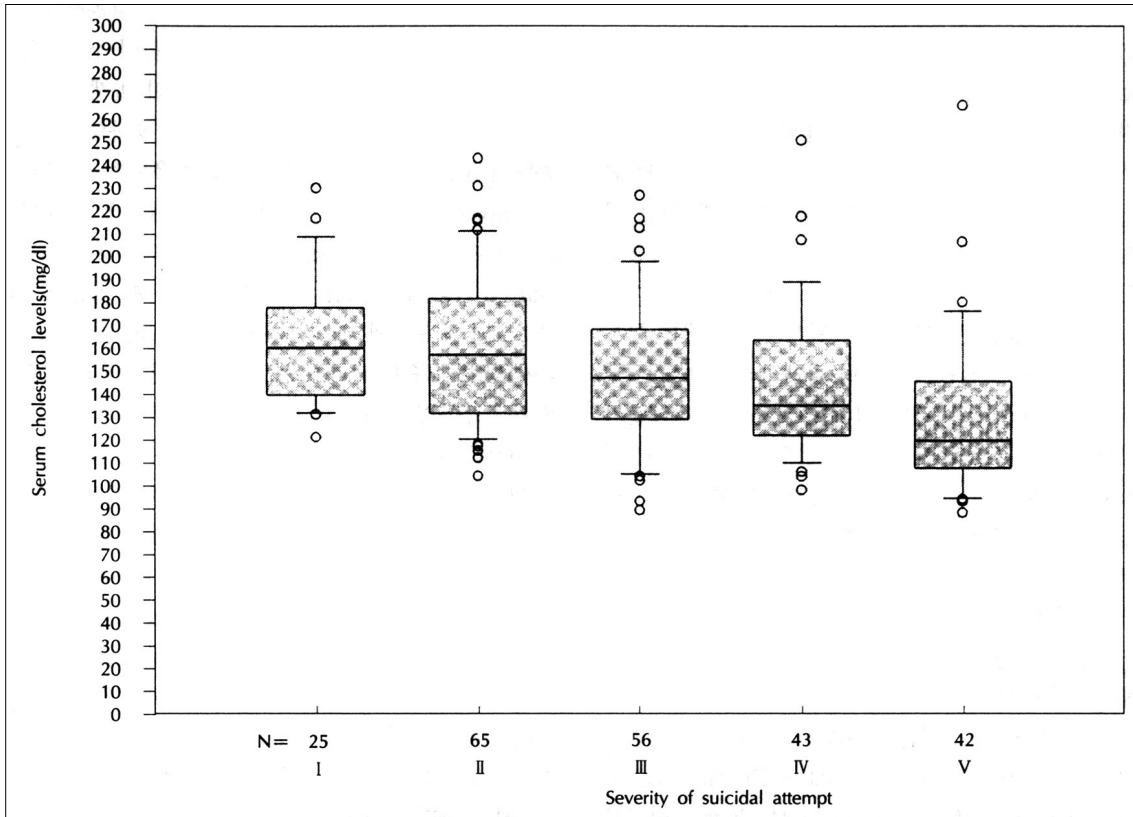


Fig. 3. Boxplot of serum cholesterol levels according to severity of suicidality in suicidal attempters.

가
 , 가 , 351,000 (Neaton
 가 . 1992) 가 160mg/dl
 가 160mg/dl
 , Modai (1994) . Kunugi (1997)
 , , . Goiler (1995)
 , 가 가 가 가
 , 가 Sullivan (1994) (suicidal
 ideation)가 , 가 ,
 . Morgan (1993) 70
 가 (suicidality) 가
 Lindberg (1994) LDL . 가
 (low - density lipoprotein) 가
 가 Goiler (1995) 231 176
 (25%)가 가 가
 (25%) - (state - dependent) , -
 가 2 , 가 (state marker) 가
 , 가 가 가

-2(IL - 2) (cytokines)
 가 , IL - 2가 ,
 가 HDL(high density lipoprotein)
 가 (pineal gland)
 (Goble (melatonin) , 가 가
 Worceter 1992 ; Davey Smith Shipley 1993).
 Kunugi (1997) 가 가
 Maes (1994) LCAT(Lecithin : cholesterol acyl tran-
 sferase) ,
 body mass index .
 (microviscosity)
 Engelberg(1992) 가 가 , haptoglobin
 (lipid microv- , haptoglobin
 iscosity) 가 LCAT 16
 가 가 1)
 가 가 , , - ,
 가 Hawton (1993) pr - (Law 1994)
 esynaptic sites 5 - HT 가 , 가 , 2)
 postsynaptic sites 5 - HT 가 가
 가 , 5 - HT 가 가
 , 3)
 Hibbeln (1995) , 가 가 가
 (polysaturated fatty acid)
 (polyunsaturated fatty acid) n - 6 ,
 , n - 6 .
 n - 3 , n - 3 가 ,
 , 가 가
 , n - 3 ,
 (synaptic me - 가
 mbrane) ,
 (neurotransmitter) (signal transduction),
 , - 2 ,
 MAO(monoamine oxidase) 가 231 , 231 , 231
 Penttinen(1995) ,
 가 1)
 T - cell - mediated immune reaction .

2)

3)

4)

5)

가

가

중심 단어 :

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□ 부 록 □

1	<ul style="list-style-type: none"> • 가 , 가
2	<ul style="list-style-type: none"> • 24 가 가 •
3	<ul style="list-style-type: none"> • 24 2 • , , • 20% 2-3 • ICU 2
4	<ul style="list-style-type: none"> • , • (, , 가) , 3 ICU • 2 • 20% 2-3 fatal
5	<ul style="list-style-type: none"> • 3 • (, , 가) , ICU 7 care • 3