

CHAPTER IX

APPENDIX

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Table. A. 1: % of LDH activity increases or decreases in comparison to Control

Groups Organs \	DAL, 10 th Day	DAL, 20 th Day	DAL + BRH ₂ 20 th Day	DAL + BRH ₂ 35 th Day
LIVER	18.8	31.4	- 67.33	- 71.68
SPLEEN	2.4	5.0	- 45.56	- 61.37
KIDNEY	40.9	56.2	- 54.6	- 55.7
BONE MARROW	1.6	4.3	1.7	- 17.6

Table: A. 2: Differences between means of LDH activity of liver of different groups of mice.

CD (P < 0.05) = 2.081; CD (P < 0.01) = 2.842

Animal Group	B	C	D	E
A	4.44 **	7.43 **	15.93 **	16.96**
B		2.99 **	20.37 **	21.4**
C			23.36 **	24.39 **
D				1.03

Table: A. 3: Differences between means of LDH activity of spleen of different groups of mice.

CD (P < 0.05) = 1.093; CD (P < 0.01) = 1.478

Animal Group	B	C	D	E
A	0.34	0.71	6.51 **	8.77 **
B		0.37	6.85 **	9.11 **
C			7.22 **	9.48 **
D				2.26 **

Table: A. 4: Differences between means of LDH activity of kidney of different groups of mice.

CD (P < 0.05) = 1.34; CD (P < 0.01) = 1.81

Animal Group	B	C	D	E
A	5.88 **	8.07 **	7.84 **	8.01 **
B		2.19 **	13.72 **	13.89 **
C			15.91 **	16.08 **
D				0.17

Table. A. 5: Differences between means of LDH activity of bone marrow of different groups of mice.

CD (P < 0.05) = 0.78; CD (P < 0.01) = 1.057

Animal Group	B	C	D	E
A	0.13	0.36	0.14	1.47 **
B		0.23	0.01	1.6 **
C			0.22	1.83 **
D				1.61 **

* P < 0.05; ** P < 0.01

Table: A. 6: Cu / Zn ratios in Liver, Spleen, Kidney and Bone marrow of control and different treated groups of Mice.

Figures in parentheses represent percent (%) increase (+) or decrease (-) in Cu / Zn ratios.

Groups Organs	Control	DAL implanted on 10th day	DAL implanted on 20th day	DAL+ BRH ₂ on 20th day	DAL+ BRH ₂ on 35th day
	(A)	(B)	(C)	(D)	(E)
Liver	0.13	0.05 (-61)	0.03 (-77)	0.13	0.11 (-15)
Spleen	0.11	0.03 (-72)	0.03 (-72)	0.18 (+ 63)	0.12 (+ 9)
Kidney	0.08	0.06 (- 25)	0.04 (-50)	0.07 (-12)	0.19 (+ 137)
Bone marrow	0.1	0.11 (+ 10)	0.07 (-30)	0.12 (+ 20)	0.13 (+ 30)

Table: A. 7: Cu / Se ratios in Liver, Spleen, Kidney and Bone marrow of control and different treated groups of Mice.

Figures in parentheses represent percent (%) increase (+) or decrease (-) in Cu / Se ratios.

Groups Organs	Control	DAL implanted on 10th day	DAL implanted on 20th day	DAL+ BRH ₂ on 20th day	DAL+ BRH ₂ on 35th day
	(A)	(B)	(C)	(D)	(E)
Liver	0.33	0.21 (-36)	0.23 (- 30)	0.16 (- 51)	0.09 (-72)
Spleen	0.08	0.08	0.14 (+75)	0.11 (+ 37)	0.06 (-25)
Kidney	0.14	0.15 (+7)	0.68 (+385)	0.10 (-28)	0.21 (+50)
Bone marrow	0.09	0.19 (+ 111)	0.29 (+222)	0.12 (+33)	0.09

Table: A. 8: Zn / Se ratios in Liver, Spleen, Kidney and Bone marrow of control and different treated groups of Mice.

Figures in parentheses represent percent (%) increase (+) or decrease (-) in Zn / Se ratios.

Groups Organs	Control	DAL implanted on 10th day	DAL implanted on 20th day	DAL+ BRH ₂ on 20th day	DAL+ BRH ₂ on 35th day
	(A)	(B)	(C)	(D)	(E)
Liver	2.61	4.53 (+ 73)	7.88 (+ 202)	1.30 (- 50)	0.82 (- 68)
Spleen	0.77	2.76 (+ 258)	5.32 (+ 591)	0.63 (- 18)	0.51 (- 34)
Kidney	1.77	2.64 (+ 49)	18.13 (+ 924)	1.38 (- 22)	1.11 (-37)
Bone marrow	0.87	1.77 (+ 103)	3.87 (+ 345)	0.99 (+ 14)	0.67 (- 23)

Table- A. 9: Differences between means of the Cu concentrations of liver of different groups of mice.

CD (P<0.05) = 1.64; CD (P< 0.01) = 2.22

Animal Groups	B	C	D	E
A	14.7**	14.75**	0.25	9.8**
B		0.05	14.95**	4.9**
C			15**	4.95**
D				10.05**

Table- A. 10: Differences between means of the Cu concentrations of spleen of different groups of mice.

CD (P<0.05) = 1.01; CD (P< 0.01) = 1.36

Animal Groups	B	C	D	E
A	4.92**	5.12**	9.81**	3.1**
B		0.2	14.73**	8.02**
C			14.93**	8.22**
D				6.71**

Table- A. 11: Differences between means of the Cu concentrations of kidney of different groups of mice.

CD (P<0.05) = 1.77; CD (P< 0.01) = 2.39

Animal Groups	B	C	D	E
A	3.19**	5.1**	0.08	25.05**
B		1.91*	3.27**	28.24**
C			5.18**	30.15**
D				24.97**

* P < 0.05; ** P < 0.01

Table- A. 12: Differences between means of the Cu concentrations of bone marrow of different groups of mice.

CD (P<0.05) = 1.21; CD (P< 0.01) = 1.64

Animal Groups	B	C	D	E
A	2.36**	0.18	5.46**	6.11**
B		2.18**	3.1**	3.75**
C			5.28**	5.93**
D				0.65

Table- A. 13: Differences between means of Zn concentrations of liver of different groups of mice.

CD (P<0.05) = 21.29; CD (P< 0.01) = 28.8

Animal Groups	B	C	D	E
A	31.93**	158.9**	6.3	59.57**
B		126.97**	25.63*	91.5**
C			152.6**	218.47**
D				65.87**

Table- A. 14: Differences between means of Zn concentrations of spleen of different groups of mice.

CD (P<0.05) = 12.67; CD (P< 0.01) = 17.14

Animal Groups	B	C	D	E
A	73.65**	96.23**	21.05**	13.65*
B		22.58**	52.6**	60**
C			75.18**	82.58**
D				7.4

* P < 0.05; ** P < 0.01

Table- A. 15: Differences between means of Zn concentrations of kidney of different groups of mice.

CD (P<0.05) = 20.95; CD (P< 0.01) = 28.35

Animal Groups	B	C	D	E
A	25.9*	80.97**	35.08**	30.58**
B		55.07**	9.18	4.68
C			45.89**	50.39**
D				4.5

Table- A. 16: Differences between means of Zn concentrations of bone marrow of different groups of mice.

CD (P<0.05) = 11.37; CD (P< 0.01) = 15.39

Animal Groups	B	C	D	E
A	20.32**	40.35**	33.42**	25.53**
B		20.03**	13.1*	5.21
C			6.93	14.82*
D				7.89

Table- A. 17: Differences between means of Se concentrations of liver of different groups of mice.

CD (P<0.05) = 9.36; CD (P< 0.01) = 12.66

Animal Groups	B	C	D	E
A	25**	30**	80**	90**
B		5.0	105**	115**
C			110**	120**
D				10*

* P < 0.05; ** P < 0.01

Table- A. 18: Differences between means of Se concentrations of spleen of different groups of mice.

CD (P<0.05) = 11.5; CD (P< 0.01) = 15.6

Animal Groups	B	C	D	E
A	60**	84.67**	59.33**	87.33**
B		24.67**	119.33**	147.33**
C			144**	172**
D				28**

Table- A. 19: Differences between means of Se concentrations of kidney of different group mice.

CD (P<0.05) = 10.57; CD (P< 0.01) = 14.3

Animal Groups	B	C	D	E
A	25**	90.16**	54.34**	90**
B		65.16**	79.34**	115**
C			144.5**	180.16**
D				35.66**

Table- A. 20: Differences between means of Se concentrations of bone marrow of different groups of mice.

CD (P<0.05) = 9.93; CD (P< 0.01) = 13.44

Animal Groups	B	C	D	E
A	44.83**	75**	20.33**	69.67**
B		30.17**	65.16**	114.5**
C			95.33**	144.67**
D				49.34**

* P < 0.05; ** P < 0.01

Table- A. 21: % of Copper increases or decreases

Groups Organs	DAL, 10th day	DAL, 20th day	DAL + BRH ₂ 20th day	DAL + BRH ₂ 35th day
Liver	-58.9	-59.07	1.0 (NS)	-39.3
Spleen	-49.4	-51.4	98.4	31.09
Kidney	-21.09	-33.7	0.005 (NS)	165.7
Bone marrow	24.03	1.8 (NS)	55.6	62.2

Table- A. 22: % of Zinc increases or decreases

Groups Organs	DAL, 10th day	DAL, 20th day	DAL + BRH ₂ 20th day	DAL + BRH ₂ 35th day
Liver	16.3	81.3	3.2 (NS)	-30.5
Spleen	80.2	104.8	22.9	14.9
Kidney	14.0	43.8	19.0	16.5
Bone marrow	21.4	45.4	35.1	26.8

Table- A. 23: % of Selenium increases or decreases

Groups Organs	DAL, 10th day	DAL, 20th day	DAL + BRH ₂ 20th day	DAL + BRH ₂ 35th day
Liver	-33.3	-40	106.7	120
Spleen	-50	-70.6	49.4	72.8
Kidney	-23.9	-86.0	51.8	85.9
Bone marrow	-40.8	-68.2	18.5	63.3