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ETHYLENE DICHLORIDE

Report on the clinical chemistry results after 6 months
inhalatory exposure

Second Report

Milan, December 1976

Results obtained can be summarized as follows:

BUN - (Table 1 and 2). In female rats, a significant decrease in mean BUN levels in respect to controls was found in groups 1,2 and 3, i.e. those exposed to the lower ECD levels, whereas in males a significant decrease was present only in group 1 although a tendency towards a decrease was present also in groups 2 and 3. No changes were found in groups 4 (i.e. 250 ppm later to 150 ppm) in either sex. The biological significance of this type of results is probably doubtful.

Serum Glucose - (Tables 3,4). No significant differences in respect to controls were found either in males or females exposed to ECD at any dosage level.

Serum bilirubin - (Tables 5,6). No statistically significant differences were found in both sexes between control and exposed rats, although a tendency towards a dose-related increase was present, more evident in females.

Serum total proteins - (Tables 7,8). No statistically significant differences were found between control and exposed rats of either sex.

Serum albumin - (Tables 9, 10). No statistically significant differences were found between control and ECD-exposed rats of either sex.

Serum GOT-levels - (Tables 11,12). No statistically significant differences were found between control and exposed rats of either sex.

Serum LDH - (Tables 13,14) . In female rats a tendency toward an increase in levels was present in all exposed groups, this increase showing however no dose relationship and reaching statistical significance only in group 3. Levels were slightly elevated in comparison to controls also in ECD-exposed males, again however no clear dose-response relationship was present and in no group the difference reached statistical significance.

Serum cholesterol - (Tables 15,16). In female exposed rats the values were superimposable to those of controls; in males a slight tendency towards an increase was seen in all groups, higher in groups 1 and 2 (i.e. ECD levels of 5 and 10 ppm respectively). However no statistical significance was reached in any group.

Uric acid serum levels - (Tables 17,18). In both males and female a tendency towards an increase in levels was observed which did not show a clear dose-relationship in males nor reached statistical significance in either sex or group.

Alkaline phosphatase - (Tables 19,20). In females a tendency towards a decrease showing a roughly inverse dose-relationship was present but the differences did not reach statistical significance in any group. In male rats, the values were very scattered with a profound decrease in group 1 (ECD 5 ppm) and lower decreases in groups 2 and 4; no differences with controls were seen in group 3.

Albumin percent levels - (Tables 21,22) . No statistically significant differences were found either in females or males.

Alpha-1 globulins - (Tables 23,24). No statistically significant differences were found between controls and exposed rats.

Alpha-2 globulins - (Tables 25,27). A tendency towards a dose-related increase was seen in females not reaching statistical significance. In males a not significant increase was seen only in groups 2 and 4.

Beta globulins - (Tables 27,28) No significant differences were seen.

Gamma globulins - (Tables 29,30) No differences in females; a slight , not significant, not dose-related tendency towards an increase in male rats.

Na⁺, K⁺, Ca⁺⁺, Cl⁻, inorganic P - (Tables 31-40) No statistically significant differences were observed.

Leukocyte numbers - (Tables 41 42). A slight, not significant decrease was seen in group 4 animals both males and females; a higher decrease was however present in group 1 of male rats.

Hematocrit - (Tables 43,44). No significant differences in either sex , the tendency towards an increase (not dose related, not significant) present in females being absent in males.

Hemoglobin content (Tables 45,46). No significant differences

Erythrocytes numbers - (tables 47,48) . No significant differences.

Mean erythrocyte volume -(Tables 49,50). A tendency towards a decrease (not significant; not dose-related) was found in males.

Platelet number (Tables 51,52). No differences in females, a tendency (not statistically significant) towards a decrease in male rats exposed to 250-150 ppm ECD was on the other hand seen.

Basophilic and eosinophilic leukocytes - (Tables 53-56). No significant differences.

Segmented and non segmented neutrophilic leukocytes (Tables 57-60). Contrasting tendencies between males and females exposed to ECD, in any case no significant differences were detected. No differences for non-segmented neutrophils .

Lymphocytes (Tables 61, 62) . A slight, not dose-related, not significant decrease in females, the opposite in males again not significant.

Monocytes - (Tables 63,64). No significant differences.

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Urinary erythrocytes and glucose - (Tables 65,66;69,70).

No significant differences.

Urinary albumin - (Tables 67,68). A tendency towards an increase in animals exposed to the higher ECD dose (250-150 ppm) was seen; the semi-quantitative assay does not permit statistical analysis.

Urinary ketones, bilirubin, casts (Tables 71,76). No differences between exposed and controls.

Urinary leukocytes, crystals, mucus, epithelial cells and microorganisms (Tables 77-86).

No obvious differences between exposed and ECD-exposed animals could be detected.

COMMENT :

On the basis of the data so far obtained, the ECD treatments employed would seem to be reasonably tolerated by the animals.

Although changes in some of the parameters investigated (LDH, SGOT, Cholesterol, Bilirubin, Uric acid levels) were seen, in no case these differences reached statistical significance nor was a dose-response relationship clearly evident; accordingly the biological significance of these results for a possible involvement of the liver and the kidneys, is at the moment very uncertain.

TABLE 1 - BUN values in control and ECD-exposed in female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	20	609	15	409	16	209	15	9	21
812	23	610	15	410	15	210	12	10	20
813	16	611	13	411	15	211	16	11	18
814	23	612	12	412	15	212	12	12	20
815	25	613	12	413	16	213	17	13	17
816	11	614	18	414	15	214	22	14	18
817	21	615	14	415	11	215	16	15	20
818	18	616	9	416	17	216	16	16	16

$\bar{X}$	19.62	13.50	15.00	15.75	18.75
S.E.	1.60	0.94	0.62	1.11	0.62

Statistical analysis :

Group C vs 1 : $p < 0.001$

" C vs 2 : $p < 0.005$

" C vs 3 : $p < 0.05$

" 1 vs 4 : $p < 0.005$

" 2 vs 4 : $p < 0.05$

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TABLE 2 - BUN values in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	19	654	10	454	25	254	15	54	15
855	18	655	14	455	12	255	16	55	19
856	19	656	14	456	14	256	15	56	22
857	15	657	12	457	16	257	16	57	18
858	17	658	10	458	17	258	13	58	15
859	15	659	12	459	16	259	17	59	18
860	20	660	9	461	13	260	17	60	16
861	21	661	13	462	14	261	19	61	17

$\bar{X}$	18.00	11.75	15.87	16.00	17.50
S.E.	0.78	0.67	1.43	0.63	0.82

Statistical analysis : Group C vs 1 : $p < 0.001$
 " 1 vs 2 : $p < 0.05$
 " 1 vs 3 : $p < 0.05$

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TABLE 3 - Serum glucose in control and ECD exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	90	609	95	409	130	209	115	9	115
812	95	610	80	410	105	210	85	10	85
813	75	611	105	411	105	211	110	11	95
814	110	612	145	412	90	212	115	12	125
815	80	613	75	413	80	213	85	13	100
816	60	614	85	414	85	214	100	14	95
817	100	615	95	415	90	215	140	15	100
818	125	616	125	416	120	216	95	16	80

$\bar{X}$	91.87	100.00	101.25	105.60	99.37
S.E.	7.25	8.18	6.53	6.51	5.21

No statistically significant differences were found between any group.

TABLE 4 - Serum glucose in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	80	654	150	454	150	254	100	54	90
855	90	655	115	455	125	255	80	55	105
856	65	656	120	456	75	256	85	56	105
857	95	657	115	457	85	257	75	57	95
858	75	658	115	458	95	258	65	58	90
859	100	659	125	459	90	259	105	59	90
860	100	660	135	461	120	260	90	60	90
861	120	661	125	462	110	261	135	61	135

$\bar{X}$	90.62	112.00	106.25	91.87	100.00
S.E.	6.08	14.85	8.75	7.67	5.51

No statistically significant differences were found between any group.

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TABLE 5 - Serum bilirubin levels in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	0.7	609	0.8	409	1.2	209	1.4	9	1.7
812	1.4	610	1.1	410	1.0	210	0.5	10	0.9
813	1.1	611	1.0	411	1.7	211	1.2	11	1.0
814	0.6	612	1.0	412	1.5	212	0.6	12	1.2
815	0.6	613	0.7	413	1.4	213	1.2	13	1.5
816	0.5	614	1.1	414	0.7	214	1.5	14	1.4
817	0.9	615	0.8	415	0.9	215	1.0	15	1.5
818	1.2	616	1.1	416	0.8	216	1.5	16	1.0
$\bar{X}$	0.875		0.95		1.15		1.11		1.275
S.E.	0.11		0.057		0.12		0.13		0.10

No statistically significant differences were found between any group.

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TABLE 8 - Serum total protein levels in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%
854	6.5	654	5.8	454	7.9	254	6.7	54	6.9
855	6.5	655	7.5	455	6.8	255	7.0	55	6.5
856	6.2	656	6.3	456	6.5	256	6.7	56	7.0
857	6.2	657	6.3	457	6.4	257	7.3	57	7.0
858	7.5	658	5.9	458	7.4	258	6.0	58	7.3
859	6.5	659	5.9	459	7.0	259	6.0	59	7.0
860	6.9	660	6.3	461	7.1	260	7.3	60	6.3
861	7.5	661	7.0	462	6.7	261	7.4	61	6.9

$\bar{X}$	6.72	6.40	6.97	6.80	6.86
S.E.	0.18	0.21	0.17	0.20	0.11

No statistically significant differences were found between any group.

TABLE 6 - Serum bilirubin levels in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	0.9	654	0.7	454	1.1	254	1.3	54	2.0
855	1.2	655	3.1	455	1.3	255	1.2	55	1.1
856	0.6	656	0.6	456	1.7	256	0.4	56	1.2
857	0.9	657	0.6	457	0.7	257	0.6	57	1.3
858	1.6	658	0.8	458	1.4	258	0.4	58	0.8
859	0.4	659	1.2	459	1.4	259	0.9	59	1.7
860	0.7	660	1.0	461	1.1	260	1.1	60	0.6
861	0.8	661	1.0	462	1.3	261	1.2	61	1.8

$\bar{X}$	0.88	0.82	1.25	0.88	1.31
S.E.	0.13	0.29	0.10	0.13	0.17

No statistically significant differences were found between any group.

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TABLE 7 - Serum total protein levels in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%
811	7.6	609	7.3	409	6.7	209	6.2	9	8.1
812	7.0	610	7.2	410	6.6	210	6.5	10	6.7
813	7.1	611	6.6	411	7.0	211	7.2	11	7.3
814	6.6	612	6.4	412	7.7	212	7.9	12	7.5
815	7.0	613	5.5	413	7.9	213	7.5	13	7.8
816	5.8	614	7.5	414	7.6	214	8.5	14	7.3
817	8.3	615	7.2	415	5.6	215	7.5	15	8.4
818	7.0	616	6.8	416	7.2	216	7.6	16	7.3
$\bar{X}$	7.05		6.81		7.03		7.36		7.55
S.E.	0.25		0.23		0.26		0.26		0.19

No statistically significant differences were found between any group.

TABLE 9 - Serum albumin levels in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%
811	3.6	609	3.2	409	3.2	209	2.8	9	4.1
812	3.3	610	3.3	410	2.7	210	3.1	10	2.7
813	3.2	611	3.0	411	3.3	211	3.2	11	3.7
814	2.9	612	2.9	412	3.6	212	3.7	12	3.4
815	3.5	613	2.0	413	3.8	213	3.2	13	3.6
816	2.2	614	3.7	414	3.3	214	3.9	14	3.1
817	3.9	615	3.5	415	2.6	215	4.0	15	3.7
818	3.2	616	3.7	416	3.4	216	3.8	16	3.2

$\bar{X}$	3.225	3.16	3.23	3.46	3.437
S.E.	0.18	0.19	0.14	0.16	0.15

No statistically differences were found between any group.

TABLE 10 - Serum albumin levels in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%	Rat No.	g%
854	2.7	654	2.4	454	3.1	254	2.7	54	2.9
855	2.6	655	3.1	455	2.4	255	2.7	55	2.8
856	2.4	656	2.6	456	2.3	256	2.3	56	3.2
857	2.7	657	2.8	457	2.6	257	2.9	57	2.7
858	3.3	658	2.4	458	3.0	258	2.3	58	2.5
859	2.7	659	2.6	459	2.8	259	2.5	59	2.8
860	2.8	660	2.7	461	2.4	260	2.8	60	2.6
861	2.6	661	2.5	462	2.8	261	2.8	61	2.7

$\bar{X}$	2.72	2.63	2.67	2.62	2.77
S.E.	0.09	0.08	0.10	0.08	0.07

No statistically significant differences were found between any group.

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TABLE 11 - Serum GOT levels in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
811	96	609	90	409	88	209	77	9	98
812	-	610	-	410	-	210	96	10	-
813	-	611	84	411	95	211	-	11	57
814	79	612	-	412	-	212	83	12	-
815	64	613	78	413	73	213	-	13	103
816	85	614	-	414	71	214	91	14	-
817	69	615	84	415	-	215	62	15	98
818	-	616	85	416	79	216	78	16	99

$\bar{X}$	84.20	81.20	51.17	91.00
S.E.	1.91	4.54	4.88	8.55

No statistically significant differences were found between any group.

SL 031252

TABLE 12 - Serum GOT levels in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
854	67	654	66	454	97	254	100	54	83
855	-	655	-	455	-	255	-	55	75
856	-	656	70	456	87	256	63	56	-
857	95	657	88	457	93	257	-	57	87
858	-	658	88	458	88	258	71	58	-
859	77	659	60	459	-	259	95	59	98
860	63	660	88	461	90	260	-	60	100
861	-	661	85	462	99	261	-	61	63
$\bar{X}$	75.50		77.85		92.33		82.25		84.33
S.E.	6.05		4.58		2.01		9.00		5.73

No statistically significant differences were found between any group.

TABLE 13 - Serum LDH levels in Control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
811	480	609	-	409	370	209	640	9	550
812	450	610	540	410	320	210	360	10	640
813	-	611	550	411	390	211	640	11	510
814	290	612	590	412	350	212	610	12	-
815	320	613	510	413	550	213	-	13	550
816	460	614	520	414	490	214	660	14	560
817	370	615	450	415	-	215	380	15	340
818	500	616	410	416	620	216	-	16	360

$\bar{X}$	410.00	510.00	441.40	548.30	501.42
S.E.	31.32	23.20	42.79	56.75	41.83

Statistical analysis:
Group C vs 3 : $P < 0.05$

SL 031254

TABLE 14 - Serum LDH levels in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
854	400	654	580	454	410	254	370	54	540
855	510	655	540	455	-	255	550	55	670
856	-	656	460	456	630	256	380	56	-
857	570	657	630	457	550	257	660	57	600
858	620	658	680	458	-	258	590	58	650
859	340	659	360	459	510	259	400	59	610
860	400	660	660	461	660	260	670	60	530
861	640	661	530	462	350	261	550	61	550

$\bar{X}$	497.14	555.00	518.33	521.00	592.80
S.E.	44.86	37.97	49.56	43.34	20.75

No statistically significant differences were found between any group

TABLE 15 - Serum cholesterol levels in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	130	609	105	409	115	209	110	9	135
812	110	610	110	410	95	210	100	10	95
813	115	611	110	411	115	211	115	11	95
814	95	612	110	412	125	212	105	12	110
815	100	613	80	413	140	213	105	13	120
816	95	614	125	414	105	214	115	14	110
817	130	615	120	415	90	215	120	15	115
818	110	616	140	416	120	216	115	16	110

$\bar{X}$ 110.62
S.E. 4.95

112.50
6.12

112.60
5.42

110.60
2.40

110.875
4.58

No statistically significant differences were found between any group.

TABLE 16- Serum cholesterol levels in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	110	654	100	454	110	254	115	54	135
855	110	655	155	455	130	255	115	55	115
856	115	656	130	456	135	256	115	56	105
857	115	657	135	457	135	257	125	57	120
858	105	658	150	458	150	258	115	58	120
859	95	659	100	459	135	259	105	59	115
860	115	660	120	461	140	260	120	60	120
861	100	661	155	462	130	261	120	61	110

$\bar{X}$	108.125	130.00	133.12	116.25	117.50
S.E.	2.66	7.99	4.00	2.06	3.13

No statistically significant differences were found between any group.

TABLE 17 - Uric acid serum levels in control and ECD-exposed female rats.

CONTROL	GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No. mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811 2.3	609	2.9	409	3.6	209	3.6	9	3.6
812 2.7	610	3.2	410	4.1	210	2.1	10	3.1
813 3.3	611	3.3	411	2.7	211	4.5	11	4.7
814 2.5	612	3.2	412	4.1	212	2.8	12	4.8
815 2.5	613	2.6	413	3.6	213	3.4	13	4.1
816 3.5	614	3.5	414	2.5	214	3.7	14	3.6
817 3.9	615	3.0	415	3.6	215	3.4	15	4.0
818 4.4	616	2.6	416	3.3	216	3.1	16	2.8

$\bar{X}$	3.13	3.03	3.43	3.32	3.84
S.E.	0.27	0.11	0.21	0.25	0.25

No statistically significant differences were found between any group.

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TABLE 18-Uric acid serum levels in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	3.3	654	3.3	454	3.1	254	3.4	54	3.7
855	3.3	655	3.6	455	4.0	255	2.9	55	3.5
856	3.0	656	3.9	456	3.7	256	2.7	56	3.3
857	2.7	657	3.7	457	3.3	257	3.2	57	3.2
858	3.3	658	3.4	458	3.2	258	3.4	58	3.9
859	2.5	659	3.5	459	3.1	259	3.2	59	3.8
860	3.1	660	3.9	461	3.9	260	2.9	60	3.4
861	3.3	661	3.8	462	3.8	261	3.4	61	4.4

$\bar{X}$	3.06	3.63	3.51	3.13	3.65
S.E.	0.11	0.08	0.13	0.09	0.13

No statistically significant differences were found between any group.

TABLE 19 - Serum levels of alkaline phosphatase in Control and ECD-exposed female rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
811	72	609	100	409	60	209	88	9	150
812	136	610	118	410	76	210	84	10	84
813	116	611	70	411	80	211	66	11	102
814	120	612	104	412	106	212	64	12	84
815	104	613	68	413	60	213	112	13	118
816	84	614	96	414	114	214	94	14	108
817	126	615	92	415	88	215	100	15	128
818	62	616	52	416	90	216	122	16	100
$\bar{X}$	102.50		87.50		84.25		91.25		96.65
S.E.	9.51		7.79		6.90		7.20		15.73

No statistically significant differences were found between the groups.

TABLE 20 - Serum levels of alkaline phosphatase in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml	Rat No.	mU/ml
854	176	654	58	454	102	254	194	54	94
855	90	655	78	455	80	255	186	55	62
856	152	656	50	456	76	256	146	56	122
857	68	657	50	457	102	257	154	57	134
858	168	658	56	458	102	258	78	58	134
859	144	659	58	459	118	259	124	59	96
860	-	660	72	461	98	260	108	60	60
861	162	661	48	462	122	261	142	61	116

$\bar{X}$	137.14	58.75	100.00	141.50	102.25
S.E.	14.68	3.83	5.66	13.61	10.44

Statistical analysis :

Group 1 vs 4 : $P < 0.05$
 " 1 vs 2 : $P < 0.05$
 " 1 vs C : $P < 0.001$
 " 1 vs 3 : $P < 0.001$

TABLE 21 - Percent concentration of albumin in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	57.1	609	50.7	409	50.0	209	48.5	9	49.8
812	51.0	610	50.1	410	48.8	210	52.0	10	51.2
813	55.3	611	52.9	411	55.3	211	52.6	11	47.1
814	50.0	612	50.3	412	50.8	212	54.8	12	48.0
815	53.7	613	52.2	413	50.8	213	48.4	13	53.7
816	50.9	614	52.3	414	49.2	214	57.0	14	43.3
817	53.3	615	55.5	415	47.5	215	49.3	15	50.7
818	41.2	616	47.9	416	48.0	216	52.1	16	49.1

$\bar{X}$	51.56	51.48	50.05	51.83	49.11
S.E.	1.70	0.80	0.86	1.08	1.10

No statistically significant differences were found between the groups.

SL 031262

TABLE 22 - Percent concentration of albumin in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	58.8	654	44.9	454	48.6	254	45.6	54	47.3
855	47.6	655	43.0	455	41.4	255	54.4	55	44.7
856	45.0	656	58.3	456	34.1	256	47.1	56	45.1
857	48.9	657	48.0	457	50.0	257	47.8	57	54.2
858	45.9	658	48.5	458	41.2	258	50.2	58	54.6
859	55.1	659	44.4	459	49.2	259	45.7	59	40.8
860	51.3	660	46.7	461	38.8	260	48.3	60	47.9
861	41.2	661	44.5	462	41.2	261	48.3	61	40.0
$\bar{X}$	49.26		47.28		43.06		48.42		46.82
S.E.	2.00		1.71		2.00		1.00		5.41

No statistically significant differences were found between any group.

TABLE 23 - Percent concentration of alpha-1-globulins in control and ECD exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	11.4	609	13.7	409	14.9	209	15.2	9	13.9
812	13.0	610	14.5	410	15.4	210	18.2	10	16.5
813	14.6	611	16.4	411	14.6	211	13.3	11	16.2
814	18.8	612	17.0	412	15.9	212	15.1	12	12.0
815	16.3	613	14.2	413	16.0	213	13.2	13	14.5
816	14.8	614	17.7	414	19.7	214	11.6	14	16.1
817	16.9	615	15.4	415	15.0	215	17.0	15	12.1
818	14.8	616	16.0	416	19.2	216	15.1	16	18.2

$\bar{X}$	15.07	15.61	16.33	14.80	14.93
S.E.	0.81	0.50	0.70	0.75	0.78

No statistically significant differences were found between the groups.

SL 031264

TABLE 24 - Percent concentration of alfa- 1 - globulins in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	11.4	654	22.5	454	16.7	254	17.8	54	14.3
855	16.0	655	16.0	455	22.7	255	12.0	55	15.4
856	20.0	656	12.1	456	22.0	256	17.7	56	18.4
857	20.0	657	17.6	457	14.0	257	19.3	57	13.6
858	16.5	658	12.5	458	20.6	258	16.7	58	16.7
859	10.9	659	20.3	459	14.7	259	17.7	59	19.8
860	17.5	660	20.4	461	21.3	260	16.5	60	16.4
861	20.2	661	18.1	462	20.7	261	16.1	61	19.0

$\bar{X}$	16.56	16.68	19.08	16.725	16.70
S.E.	1.31	1.62	1.21	0.76	0.79

No statistically significant differences were found between the groups .

TABLE 25 - Percent concentration of alpha-2-globulins in control and ECD-exposed female rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	8.2	609	9.6	409	10.7	209	13.7	9	6.9
812	10.2	610	8.2	410	10.3	210	7.9	10	6.5
813	9.4	611	9.0	411	7.3	211	7.6	11	11.8
814	7.9	612	10.2	412	9.6	212	8.3	12	8.0
815	6.4	613	10.9	413	9.5	213	13.2	13	11.6
816	8.5	614	8.6	414	9.9	214	6.7	14	12.4
817	6.5	615	6.4	415	12.5	215	8.5	15	12.1
818	10.3	616	8.7	416	8.3	216	12.4	16	9.1
$\bar{X}$	8.42		8.95		9.76		9.78		9.80
S.E.	0.53		0.48		0.55		0.99		0.87

No statistically significant differences were found between any group.

SL 031266

TABLE 26 - Percent concentration of alfa-2-globulins in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	9.3	654	8.2	454	10.8	254	7.6	54	13.2
855	8.7	655	13.0	455	14.7	255	6.6	55	12.4
856	8.4	656	9.9	456	17.6	256	9.9	56	9.9
857	11.2	657	8.3	457	10.0	257	10.1	57	10.8
858	9.5	658	10.1	458	13.3	258	8.4	58	13.1
859	10.9	659	9.5	459	11.5	259	10.6	59	14.5
860	10.0	660	10.7	461	12.5	260	9.5	60	6.6
861	10.5	661	8.4	462	12.7	261	11.5	61	13.7

$\bar{X}$	9.81	9.76	12.88	9.27	11.77
S.E.	0.36	0.57	0.85	0.57	0.91

No statistically significant differences were found between the groups.

TABLE 27 - Percent concentration of beta globulins in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	14	609	16.5	409	14.9	209	15.2	9	22.0
812	16.7	610	19.9	410	16.7	210	15.8	10	17.9
813	14.6	611	15.4	411	15.7	211	15.1	11	17.7
814	17.6	612	14.1	412	15.9	212	13.7	12	20.0
815	13.6	613	16.4	413	15.5	213	15.4	13	16.0
816	16.4	614	12.8	414	16.4	214	16.2	14	18.6
817	18.2	615	15.2	415	15.0	215	15.5	15	14.5
818	22.1	616	18.9	416	16.5	216	13.7	16	17.3
$\bar{X}$	15.20		16.15		15.82		15.07		18.10
S.E.	1.96		0.83		0.24		0.32		0.87

No statistically significant differences were found between any group.

TABLE 28 - Percent concentration of beta-globulins in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	12.4	654	16.4	454	17.9	254	21.5	54	17.6
855	20.3	655	21.0	455	13.4	255	20.7	55	17.0
856	18.4	656	12.1	456	16.5	256	17.7	56	18.4
857	16.9	657	17.8	457	19.0	257	16.3	57	13.6
858	21.2	658	18.0	458	16.2	258	18.8	58	10.8
859	14.9	659	17.6	459	16.4	259	16.5	59	17.2
860	15.0	660	14.6	461	20.0	260	14.2	60	19.6
861	19.4	661	19.5	462	17.3	261	17.3	61	19.0
$\bar{X}$	17.31		17.12		17.08		17.87		16.65
S.E.	1.07		0.98		0.71		0.84		1.05

No statistically significant differences were found between any group.

TABLE 29 - Percent concentration of gamma-globulins in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
811	9.4	609	9.6	409	9.6	209	7.5	9	7.6
812	9.9	610	7.3	410	9.0	210	6.3	10	7.9
813	6.3	611	6.4	411	7.3	211	11.4	11	7.4
814	6.3	612	8.4	412	8.0	212	8.3	12	12.0
815	10.0	613	6.6	413	8.3	213	9.9	13	4.4
816	9.4	614	8.5	414	5.0	214	8.6	14	9.9
817	5.2	615	7.6	415	10.0	215	9.9	15	10.6
818	11.8	616	8.7	416	8.3	216	6.9	16	6.4

$\bar{X}$ 8.53
S.E. 0.81

7.88
0.39

8.18
0.55

8.50
0.60

8.28
0.87

No statistically significant differences were found between any group .

SL 031270

TABLE 30 - Percent concentration of gamma globulins in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%	Rat No.	mg%
854	8.3	654	8.2	454	6.0	254	7.5	54	7.7
855	7.3	655	7.0	455	8.0	255	6.6	55	10.5
856	8.4	656	7.7	456	9.9	256	7.9	56	8.2
857	3.2	657	8.3	457	7.0	257	6.7	57	8.2
858	7.1	658	10.9	458	8.9	258	6.1	58	4.8
859	8.2	659	8.2	459	8.2	259	9.5	59	7.9
860	6.3	660	7.8	461	7.5	260	11.8	60	9.8
861	8.9	661	9.7	462	8.1	261	6.9	61	8.5
$\bar{X}$	7.21	8.47	7.95	7.87	8.20				
S.E.	0.64	0.44	0.41	0.67	0.59				

No statistically significant differences were found between any group.

SL 031271

TABLE 31 - Na⁺ concentration in control and ECD-exposed female rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
811	148	609	150	409	150	209	150	9	143
812	142	610	140	410	152	210	151	10	148
813	150	611	147	411	143	211	140	11	147
814	145	612	145	412	150	212	147	12	143
815	149	613	152	413	145	213	137	13	150
816	150	614	147	414	152	214	145	14	143
817	152	615	147	415	141	215	148	15	140
818	145	616	148	416	140	216	140	16	140

$\bar{X}$	147.62	147.00	146.62	144.75	144.25
S.E.	1.18	1.25	1.75	1.83	1.31

No statistically significant differences were found between the groups.

TABLE 32 - Na⁺ concentration in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
854	145	654	144	454	147	254	146	54	143
855	152	655	147	455	145	255	150	55	150
856	152	656	147	456	145	256	150	56	140
857	152	657	145	457	143	257	150	57	152
858	145	658	143	458	155	258	147	58	152
859	150	659	143	459	150	259	145	59	147
860	148	660	152	461	148	260	147	60	148
861	145	661	151	462	152	261	146	61	150
$\bar{X}$	148.62		146.50		148.12		147.60		147.75
S.E.	1.16		1.22		1.42		0.73		1.52

No statistically significant differences were found between any group.

TABLE 33 - K^+ concentration in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
811	9.5	609	9.5	409	9.6	209	9.9	9	9.2
812	8.7	610	9.9	410	9.7	210	7.9	10	9.8
813	8.5	611	9.3	411	9.4	211	9.9	11	9.2
814	7.8	612	9.7	412	9.1	212	7.6	12	9.8
815	8.2	613	8.7	413	9.9	213	9.7	13	9.9
816	9.5	614	9.9	414	8.4	214	9.0	14	9.8
817	7.7	615	9.6	415	9.8	215	9.8	15	9.2
818	9.8	616	8.2	416	9.2	216	9.9	16	9.6

$\bar{X}$	8.35	9.35	9.38	9.21	9.56
S.E.	0.19	0.21	0.17	0.34	0.11

No statistically significant differences were found between any group.

SL 031274

TABLE 34 - K^+ concentration in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
854	8.2	654	9.0	454	9.9	254	9.6	54	9.9
855	9.4	655	9.6	455	9.5	255	7.0	55	9.5
856	8.8	656	9.4	456	9.5	256	7.9	56	9.8
857	9.5	657	9.0	457	7.8	257	8.4	57	9.8
858	9.0	658	9.8	458	9.8	258	9.3	58	9.7
859	8.4	659	9.2	459	9.6	259	9.8	59	9.4
860	8.5	660	9.8	461	8.8	260	9.6	60	7.9
861	8.9	661	8.9	462	9.9	261	9.9	61	9.6

$\bar{X}$	8.83	9.33	9.35	8.93	9.45
S.E.	0.16	0.13	0.25	0.37	0.23

No statistically significant differences were found between the groups.

SL 031275

TABLE 35 - Ca^{++} concentration in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
811	10.8	609	9.7	409	9.6	209	9.0	9	10.5
812	9.4	610	8.5	410	7.7	210	9.9	10	7.6
813	9.1	611	9.0	411	10.2	211	9.5	11	10.0
814	9.1	612	9.0	412	8.5	212	10.5	12	9.9
815	9.3	613	6.7	413	9.0	213	9.5	13	8.7
816	7.0	614	10.3	414	10.2	214	10.8	14	9.3
817	12.0	615	9.7	415	8.0	215	11.0	15	9.1
818	9.1	616	9.3	416	9.9	216	9.9	16	8.7

$\bar{X}$	9.47	9.02	9.13	10.01	9.225
S.E.	0.51	0.38	0.35	0.24	0.32

No statistically significant differences were found between any group.

SL 031276

TABLE 36 - Ca^{++} concentration in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
854	9.5	654	8.9	454	8.8	254	8.7	54	8.5
855	9.8	655	6.9	455	9.8	255	9.7	55	11.1
856	10.4	656	8.0	456	8.3	256	8.2	56	10.3
857	9.2	657	9.8	457	9.9	257	11.1	57	9.3
858	9.3	658	9.3	458	8.7	258	8.7	58	9.0
859	9.3	659	8.3	459	8.9	259	9.3	59	8.9
860	8.4	660	8.8	461	8.8	260	9.6	60	10.2
861	9.9	661	9.6	462	9.4	261	10.0	61	8.6

$\bar{X}$	9.47	8.57	9.07	9.41	9.48
S.E.	0.21	0.33	0.20	0.32	0.33

No statistically significant differences were found between any group.

TABLE 37 - Cl^- concentration in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
811	112	609	95	409	104	209	101	9	102
812	97	610	105	410	99	210	110	10	109
813	104	611	100	411	100	211	107	11	120
814	98	612	100	412	107	212	110	12	97
815	93	613	108	413	105	213	100	13	112
816	95	614	105	414	118	214	102	14	116
817	98	615	106	415	102	215	97	15	103
818	101	616	107	416	108	216	120	16	103
$\bar{X}$	99.75		103.25		105.37		105.80		107.75
S.E.	2.12		1.58		2.12		2.63		3.09

No statistically significant differences were found between any group.

TABLE 38 - Cl^- concentration in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
854	107	654	104	454	98	254	97	54	104
855	119	655	98	455	98	255	94	55	111
856	98	656	103	456	98	256	98	56	108
857	102	657	99	457	121	257	106	57	99
858	118	658	102	458	107	258	100	58	102
859	117	659	105	459	106	259	102	59	100
860	99	660	117	461	96	260	100	60	102
861	114	661	110	462	100	261	109	61	97
$\bar{X}$	109.25		104.75		103.00		100.75		102.87
S.E.	3.11		2.18		2.93		1.72		1.65

No statistically significant differences were found between any group.

TABLE 39 - Inorganic P concentration in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
811	7.0	609	6.4	409	6.6	209	6.5	9	7.0
812	5.8	610	6.6	410	5.8	210	7.5	10	4.2
813	6.0	611	4.7	411	5.5	211	7.6	11	5.9
814	4.7	612	5.6	412	5.2	212	3.9	12	7.4
815	4.9	613	4.5	413	7.2	213	7.8	13	7.6
816	4.5	614	5.8	414	6.2	214	6.7	14	8.0
817	5.5	615	6.0	415	4.7	215	6.7	15	6.7
818	7.2	616	5.6	416	5.0	216	8.0	16	5.9

$\bar{X}$ 5.70
S.E. 0.36

5.65
0.26

5.77
0.30

6.83
0.46

6.59
0.43

No statistically significant differences were found between the groups.

TABLE 40 - Inorganic P in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml	Rat No.	mEq/ml
854	6.2	654	6.5	454	6.9	254	5.7	54	9.4
855	6.7	655	10.0	455	7.9	255	6.2	55	7.6
856	5.8	656	6.4	456	7.2	256	5.8	56	5.0
857	4.3	657	7.3	457	5.0	257	6.5	57	6.7
858	9.3	658	6.0	458	8.1	258	4.4	58	7.8
859	4.7	659	6.3	459	6.3	259	6.2	59	8.7
860	5.0	660	7.6	461	7.0	260	6.9	60	6.0
861	6.7	661	6.6	462	6.3	261	7.1	61	7.0

$\bar{X}$	6.08	7.08	6.82	6.10	7.27
S.E.	0.55	0.46	0.34	0.30	0.50

No statistically significant differences were found between any group.

TABLE 41 - Leukocyte numbers in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)
811	10.8	609	6.0	409	7.8	209	8.0	9	6.0
812	17.0	610	8.4	410	9.6	210	8.0	10	8.0
813	7.6	611	12.8	411	5.4	211	5.8	11	4.8
814	6.6	612	5.0	412	6.6	212	10.0	12	7.2
815	9.6	613	12.4	413	8.6	213	7.8	13	5.6
816	6.4	614	5.4	414	7.6	214	12.2	14	6.6
817	1.6	615	10.8	415	8.2	215	8.0	15	5.8
818	6.4	616	7.6	416	7.8	216	5.4	16	6.6

$\bar{X}$	8.25	8.55	7.70	8.02	6.325
S.E.	1.57	1.10	0.45	0.78	0.35

No statistically significant differences were found between the groups.

TABLE 42 - Leukocyte numbers in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No. (x10 ³)		Rat No. (x10 ³)		Rat No. (x10 ³)		Rat No. (x10 ³)		Rat No. (x10 ³)	
854	6.0	654	6.4	454	9.8	254	9.2	54	5.0
855	5.6	655	11.0	455	6.4	255	14.0	55	8.0
856	21.8	656	6.8	456	6.8	256	13.0	56	6.2
857	9.6	657	5.6	457	12.0	257	7.6	57	8.0
858	11.0	658	4.0	458	7.8	258	8.4	58	13.6
859	7.4	659	4.2	459	5.6	259	7.6	59	11.8
860	9.0	660	4.6	461	10.8	260	6.0	60	6.4
861	3.8	661	9.2	462	15.6	261	14.6	61	2.6
$\bar{X}$	9.27		6.47		9.35		10.05		7.70
S.E.	1.97		0.88		1.19		1.17		1.26

No statistically significant differences were found between the groups.

SL 031284

TABLE 43 - Hematocrit value in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	40	609	39	409	38	209	37	9	41
812	37	610	31	410	36	210	40	10	31
813	35	611	42	411	30	211	33	11	43
814	43	612	40	412	36	212	-	12	38
815	41	613	44	413	35	213	34	13	35
816	34	614	37	414	37	214	47	14	28
817	-	615	35	415	44	215	39	15	39
818	38	616	39	416	41	216	26	16	40

$\bar{X}$ 32.57
S.E. 1.78

38.37
1.44

37.125
1.47

36.57
2.48

36.87
1.83

No statistically significant differences were found between the groups.

TABLE 44 - Hematocrit value in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	44	654	37	454	45	254	43	54	40
855	43	655	44	455	45	255	43	55	34
856	39	656	37	456	36	256	48	56	40
857	43	657	-	457	45	257	43	57	37
858	43	658	42	458	39	258	41	58	48
859	46	659	34	459	43	259	41	59	40
860	40	660	45	461	41	260	45	60	43
861	43	661	41	462	45	261	50	61	34
$\bar{X}$	42.62		40.00		42.37		44.25		40.33
S.E.	0.77		1.54		1.21		1.15		1.97

No statistically significant differences were found between the groups.

TABLE 45 - Hemoglobin concentration in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	20.0	609	13.0	409	14.6	209	12.8	9	13.6
812	14.0	610	11.8	410	18.0	210	14.6	10	13.1
813	14.4	611	12.4	411	11.8	211	14.2	11	13.2
814	15.0	612	15.6	412	14.6	212	14.2	12	14.8
815	14.8	613	13.6	413	12.4	213	15.6	13	6.2
816	13.6	614	11.6	414	13.2	214	14.6	14	15.2
817	8.8	615	12.2	415	15.8	215	13.2	15	15.0
818	19.0	616	13.4	416	13.0	216	14.2	16	15.4
$\bar{X}$	14.95		11.51		14.165		14.17		13.31
S.E.	1.21		1.51		0.71		0.31		1.06

No statistically significant differences were found between the groups.

TABLE 46 - Hemoglobin concentration in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	15.2	654	13.0	454	16.4	254	15.4	54	13.0
855	15.2	655	15.4	455	14.6	255	15.4	55	12.2
856	14.2	656	13.4	456	15.0	256	13.4	56	13.4
857	13.6	657	15.6	457	13.8	257	13.4	57	15.0
858	15.8	658	14.8	458	15.4	258	14.8	58	14.8
859	13.2	659	14.0	459	13.2	259	13.6	59	15.2
860	13.6	660	15.0	461	14.4	260	15.0	60	16.0
861	15.4	661	15.0	462	15.0	261	15.6	61	4.0

$\bar{X}$	14.52	14.52	14.72	14.57	12.95
S.E.	0.35	0.33	0.34	0.34	1.35

No statistically significant differences were found between any group.

SL 031287

TABLE 47 - Erythrocyte numbers in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No. ($\times 10^6$)		Rat No. ($\times 10^6$)		Rat No. ($\times 10^6$)		Rat No. ($\times 10^6$)		Rat No. ($\times 10^6$)	
811	8.2	609	4.8	409	6.3	209	3.4	9	4.9
812	7.8	610	8.4	410	6.0	210	6.6	10	7.3
813	7.0	611	7.4	411	2.6	211	7.5	11	3.2
814	7.3	612	7.4	412	7.2	212	7.2	12	8.6
815	8.0	613	8.4	413	4.8	213	8.0	13	0.7
816	3.9	614	7.0	414	2.8	214	8.0	14	7.1
817	0.8	615	8.2	415	7.6	215	6.4	15	8.4
818	6.9	616	4.4	416	6.9	216	7.0	16	8.4
$\bar{X}$	6.23		7.00		5.52		6.76		6.075
S.E.	0.91		0.56		0.68		0.52		1.02

No statistically significant differences were found between any group.

TABLE 48 - Erythrocyte numbers in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No. (x10 ⁶)		Rat No. (x10 ⁶)		Rat No. (x10 ⁶)		Rat No. (x10 ⁶)		Rat No. (x10 ⁶)	
854	7.4	654	4.8	454	8.2	254	9.0	54	5.6
855	6.8	655	7.2	455	8.0	255	8.2	55	7.4
856	7.0	656	5.7	456	6.4	256	7.8	56	6.6
857	7.5	657	8.0	457	7.6	257	4.0	57	7.4
858	9.2	658	7.0	458	8.0	258	6.6	58	7.4
859	3.5	659	5.8	459	4.2	259	5.8	59	8.2
860	3.9	660	7.8	461	7.6	260	7.6	60	8.2
861	7.8	661	8.6	462	8.0	261	7.8	61	0.8
$\bar{X}$	6.63		6.86		7.25		7.10		6.45
S.E.	0.69		0.46		0.48		0.56		0.86

No statistically significant differences were found between any group.

TABLE 49 - Mean erythrocyte volume in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	55	609	80	409	58	209	104	9	81
812	50	610	40	410	44	210	55	10	40
813	46	611	57	411	-	211	42	11	131
814	59	612	59	412	99	212	99	12	53
815	55	613	75	413	71	213	45	13	-
816	45	614	50	414	126	214	67	14	36
817	-	615	47	415	60	215	59	15	51
818	52	616	86	416	57	216	-	16	53

$\bar{X}$	51.71	61.75	73.57	67.28	63.57
S.E.	1.80	5.91	10.18	32.5	12.48

No statistically significant differences were found between the group.

TABLE 50 - Mean erythrocyte volume in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	59	654	75	454	61	254	58	54	69
855	71	655	59	455	62	255	59	55	99
856	53	656	63	456	48	256	65	56	58
857	99	657	99	457	62	257	107	57	50
858	59	658	57	458	93	258	55	58	65
859	128	659	56	459	100	259	69	59	54
860	102	660	61	461	56	260	62	60	58
861	58	661	55	462	61	261	69	61	-

$\bar{X}$	78.62	66.87	67.87	68.00	64.71
S.E.	9.74	5.05	6.49	5.85	6.20

No statistically significant differences were found between the groups.

SL 031292

TABLE 51 - Platelet numbers in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No. ($\times 10^3$)	Rat No. ($\times 10^3$)	Rat No. ($\times 10^3$)	Rat No. ($\times 10^3$)	Rat No. ($\times 10^3$)
811 693	609 705	409 330	209 300	9 231
812 280	610 527	410 400	210 440	10 442
813 350	611 270	411 231	211 200	11 270
814 280	612 573	412 250	212 350	12 580
815 371	613 360	413 500	213 404	13 761
816 210	614 617	414 715	214 280	14 225
817 270	615 317	415 412	215 280	15 305
818 579	616 690	416 213	216 620	16 500
$\bar{X}$ 380.12	507.37	381.00	359.00	414.25
S.E. 59.44	60.27	59.39	45.91	67.87

No statistically significant differences were found between the groups.

TABLE 52 - Platelet numbers in control and ECD-exposed male rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)	Rat No.	($\times 10^3$)
854	441	654	720	454	612	254	761	54	206
855	200	655	757	455	536	255	270	55	197
856	618	656	650	456	177	256	740	56	306
857	698	657	877	457	680	257	439	57	366
858	404	658	650	458	183	258	500	58	387
859	600	659	379	459	379	259	637	59	540
860	271	660	397	461	312	260	430	60	510
861	400	661	501	462	567	261	320	61	236

$\bar{X}$	454.00	616.37	430.75	512.00	343.5
S.E.	61.43	62.46	69.07	65.09	46.67

Statistical analysis :

Group 1 vs 2 : $P < 0.05$ " 1 vs 4 : $P < 0.005$

TABLE 53- Basophilic leukocytes in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	0	609	0	409	0	209	0	9	0
812	0	610	0	410	0	210	0	10	0
813	0	611	0	411	0	211	0	11	0
814	0	612	0	412	0	212	0	12	0
815	0	613	0	413	0	213	0	13	0
816	0	614	0	414	0	214	0	14	0
817	0	615	0	415	0	215	0	15	0
818	0	616	0	416	0	216	0	16	0

$\bar{X}$
S.E.

No statistically significant differences were found between any group.

SL 031294

SL 031295

TABLE 54 - Basophilic leukocytes in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	0	654	0	454	0	254	0	54	0
855	0	655	0	455	0	255	0	55	0
856	0	656	0	456	0	256	0	56	0
857	0	657	0	457	0	257	0	57	0
858	0	658	0	458	0	258	0	58	0
859	0	659	0	459	0	259	0	59	0
860	0	660	0	461	0	260	0	60	0
861	0	661	0	462	0	261	0	61	0

$\bar{X}$
S.E.

No statistically significant differences were found between any group.

TABLE 55- Eosinophilic leukocytes in control and ECD-exposed female rats

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	0	609	0	409	0	209	0	9	0
812	0	610	0	410	0	210	1	10	2
813	0	611	0	411	1	211	0	11	0
814	0	612	0	412	0	212	1	12	1
815	0	613	0	413	1	213	0	13	0
816	0	614	1	414	2	214	0	14	1
817	0	615	0	415	0	215	0	15	1
818	0	616	0	416	0	216	0	16	0

No statistically significant differences were found between any group.

$\bar{X}$
S.E.

TABLE 56 - Eosinophilic leukocytes in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	0	654	0	454	0	254	1	54	0
855	0	655	0	455	0	255	0	55	0
856	0	656	0	456	0	256	0	56	0
857	0	657	2	457	1	257	0	57	0
858	1	658	0	458	0	258	0	58	0
859	0	659	0	459	0	259	0	59	1
860	0	660	0	461	0	260	2	60	0
861	1	661	0	462	0	261	0	61	0

$\bar{X}$
S.E.

TABLE 57 - Segmented neutrophilic leukocytes in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	20	609	12	409	8	209	7	9	11
812	9	610	7	410	7	210	16	10	17
813	5	611	8	411	7	211	7	11	10
814	9	612	26	412	10	212	23	12	2
815	10	613	12	413	20	213	36	13	15
816	10	614	19	414	5	214	12	14	28
817	11	615	10	415	4	215	12	15	10
818	13	616	12	416	9	216	8	16	16

$\bar{X}$	10.87	13.37	8.75	15.12	13.625
S.E.	1.53	2.33	1.75	3.54	2.65

No statistically significant differences were found between the groups.

TABLE 58 - Segmented neutrophilic leukocytes in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	17	654	2	454	1	254	15	54	6
855	16	655	2	455	9	255	13	55	15
856	17	656	11	456	35	256	18	56	7
857	31	657	12	457	9	257	12	57	3
858	19	658	11	458	1	258	15	58	26
859	18	659	14	459	14	259	19	59	20
860	20	660	10	461	27	260	12	60	11
861	9	661	2	462	19	261	13	61	12

$\bar{X}$	18.37	8.00	14.37	14.62	12.50
S.E.	2.15	1.80	4.24	0.94	2.70

Statistical analysis : Group C vs 1 : $P < 0.005$

TABLE 59 - Non segmented neutrophilic leukocytes in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	1	609	0	409	0	209	0	9	0
812	0	610	0	410	0	210	0	10	0
813	0	611	0	411	0	211	0	11	0
814	0	612	0	412	0	212	0	12	0
815	0	613	0	413	0	213	0	13	0
816	0	614	0	414	0	214	1	14	0
817	0	615	0	415	0	215	0	15	0
818	0	616	0	416	0	216	0	16	0

$\bar{X}$
S.E.

No statistically significant differences were found between any group.

TABLE 60 - Non segmented neutrophilic leukocytes in control and ECD- exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	0	654	0	454	0	254	0	54	0
855	0	655	0	455	0	255	2	55	0
856	0	656	0	456	0	256	0	56	0
857	0	657	0	457	0	257	1	57	0
858	1	658	0	458	0	258	0	58	1
859	0	659	0	459	0	259	0	59	0
860	0	660	0	461	0	260	0	60	0
861	0	661	0	462	0	261	0	61	0

$\bar{X}$
S.E.

SL 031301

TABLE 61 - Lymphocyte percentage in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	79	609	88	409	92	209	93	9	89
812	90	610	93	410	93	210	81	10	81
813	95	611	92	411	92	211	93	11	90
814	90	612	73	412	90	212	76	12	94
815	89	613	88	413	79	213	64	13	85
816	90	614	80	414	93	214	87	14	71
817	89	615	89	415	96	215	88	15	89
818	87	616	87	416	91	216	92	16	84
$\bar{X}$	88.62		86.25		90.75		84.25		85.37
S.E.	1.59		2.34		1.79		3.59		2.50

No statistically significant differences were found between any group.

TABLE 62 - Lymphocyte percentage in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	82	654	98	454	98	254	85	54	94
855	84	655	98	455	91	255	84	55	83
856	83	656	88	456	65	256	80	56	93
857	68	657	86	457	85	257	86	57	97
858	79	658	88	458	99	258	85	58	72
859	92	659	86	459	86	259	81	59	89
860	80	660	90	461	73	260	85	60	88
861	90	661	87	462	81	261	87	61	88

$\bar{X}$ 82.25
S.E. 2.59

90.125
1.77

84.75
4.14

84.125
0.85

88.00
2.75

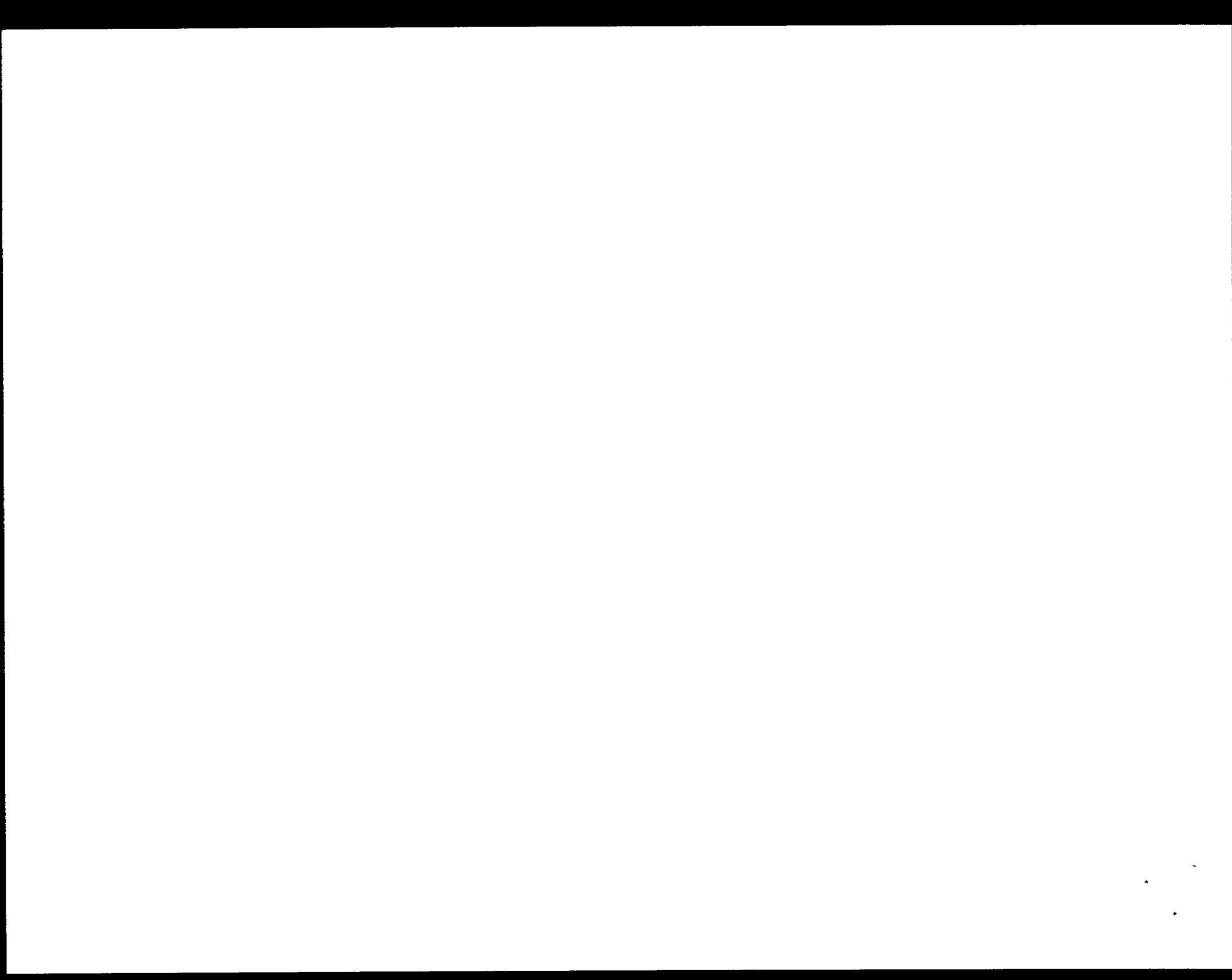
No statistically significant differences were found between any group.

TABLE 63 - Monocyte percentage in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
811	0	609	0	409	0	209	0	9	0
812	1	610	0	410	0	210	2	10	0
813	0	611	0	411	0	211	0	11	0
814	1	612	0	412	0	212	0	12	3
815	1	613	0	413	0	213	0	13	0
816	0	614	0	414	0	214	0	14	0
817	1	615	1	415	0	215	0	15	0
818	0	616	7	416	0	216	0	16	0

$\bar{X}$
S.E.

No statistically significant differences were found between any group.



SL 031305

TABLE 64 - Monocyte percentage in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%	Rat No.	%
854	1	654	0	454	1	254	0	54	0
855	0	655	0	455	0	255	1	55	2
856	0	656	1	456	0	256	2	56	0
857	1	657	0	457	5	257	1	57	0
858	0	658	1	458	0	258	0	58	0
859	0	659	0	459	0	259	0	59	0
860	0	660	0	461	0	260	1	60	1
861	0	661	1	462	0	261	0	61	0

 $\bar{X}$
S.E.

TABLE 65 - Urinary erythrocyte in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 0	409 0	209 0	9 0
812 0	610 1	410 0	210 0	10 0
813 1	611 0	411 0	211 0	11 0
814 3	612 1	412 0	212 0	12 1
815 0	613 0	413 0	213 0	13 0
816 1	614 1	414 0	214 1	14 0
817 0	615 0	415 0	215 0	15 0
818 0	616 -	416 0	216 0	16 0

$\bar{X}$
S.E.

0.555

0.428

0

0.125

0.125

0 = Absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031307

TABLE 66 - Urinary erythrocytes in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 0	654 0	454 1	254 0	54 -
855 0	655 1	455 1	255 0	55 1
856 0	656 0	456 -	256 0	56 0
857 0	657 -	457 0	257 0	57 1
858 0	658 0	458 0	258 0	58 0
859 0	659 1	459 0	259 0	59 0
860 0	660 1	461 0	260 0	60 0
861 0	661 0	462 1	261 0	61 0

 $\bar{X}$
S.E.

0	0.428	0.428	0	0.285
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0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

TABLE 67 - Urinary albumin in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
811	0	609	1	409	0	209	1	9	3
812	2	610	1	410	0	210	1	10	0
813	1	611	1	411	1	211	1	11	1
814	0	612	2	412	1	212	2	12	1
815	0	613	1	413	1	213	1	13	1
816	1	614	1	414	0	214	0	14	1
817	1	615	1	415	0	215	1	15	3
818	0	616	-	416	1	216	1	16	0

 $\bar{X}$
S.E.

0.55

1.14

0.5

1.00

1.25

0 = absent; 1 = traces; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.



TABLE 68 - Urinary albumin in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 1	654 1	454 1	254 1	54 -
855 3	655 0	455 1	255 2	55 3
856 1	656 3	456 -	256 1	56 3
857 1	657 -	457 2	257 1	57 3
858 0	658 0	458 1	258 1	58 0
859 3	659 1	459 2	259 1	59 2
860 2	660 0	461 2	260 3	60 2
861 1	661 1	462 1	261 1	61 2

 $\bar{X}$
S.E.

1.50

0.87

1.41

1.37

2.14

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.



TABLE 69 - Urinary sugar in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 1	409 0	209 0	9 0
812 0	610 0	410 0	210 1	10 0
813 0	611 1	411 0	211 0	11 0
814 0	612 1	412 0	212 0	12 0
815 0	613 1	413 0	213 0	13 0
816 0	614 1	414 0	214 0	14 0
817 0	615 0	415 0	215 0	15 0
818 0	616 -	416 0	216 0	16 0

$\bar{X}$
S.E.

0

0.571

0

0.125

0

0 = absent; 1 = traces ; 2 = discrete quantities; 3 = high quantity; 4 = very high quantity.

SL 031311

TABLE 70 - Urinary sugar in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 0	654 0	454 0	254 0	54 0
855 0	655 0	455 1	255 0	55 0
856 0	656 0	456 -	256 0	56 0
857 0	657 -	457 0	257 -	57 0
858 0	658 0	458 0	258 0	58 0
859 0	659 0	459 0	259 0	59 0
860 0	660 0	461 1	260 0	60 0
861 0	661 0	462 1	261 0	61 0

 $\bar{X}$
S.E.

0

0

0.428

0

0

0 = absent ; 1 = traces ; 2 = discrete quantities; 3 = high quantity ; 4 = very high quantity.

TABLE 71 - Urinary ketone bodies in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
811	1	609	0	409	0	209	0	9	0
812	0	610	0	410	0	210	0	10	0
813	0	611	0	411	0	211	0	11	0
814	0	612	1	412	0	212	0	12	0
815	0	613	0	413	0	213	0	13	0
816	0	614	0	414	0	214	0	14	0
817	0	615	0	415	1	215	1	15	0
818	1	616	-	416	0	216	0	16	0

$\bar{X}$
S.E.

0.22

0.14

0.25

0.25

0

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

TABLE 72 - Urinary ketone bodies in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 1	654 1	454 0	254 1	54 0
855 0	655 0	455 1	255 0	55 0
856 1	656 0	456 -	256 0	56 0
857 0	657 -	457 0	257 0	57 0
858 0	658 0	458 0	258 0	58 0
859 0	659 0	459 0	259 0	59 0
860 0	660 0	461 0	260 0	60 0
861 0	661 0	462 1	261 0	61 0

$\bar{X}$ 0.25 0.14 0.28 0.25 0
 S.E.

0 = absent; 1 = traces; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031314

TABLE 73 - Urinary bilirubin in control and ECD-exposed female rats

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 0	409 0	209 0	9 0
812 0	610 0	410 0	210 0	10 0
813 0	611 0	411 0	211 0	11 0
814 0	612 0	412 0	212 0	12 0
815 0	613 0	413 0	213 0	13 0
816 0	614 0	414 0	214 0	14 0
817 0	615 0	415 0	215 0	15 0
818 0	616 0	416 0	216 0	16 0

$\bar{X}$ 0 0 0 0 0
 S.E.

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031315

TABLE 74 - Urinary bilirubin in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
854	0	654	0	454	0	254	0	54	0
855	0	655	0	455	0	255	0	55	0
856	0	656	0	456	-	256	0	56	0
857	0	657	-	457	0	257	0	57	0
858	0	658	0	458	0	258	0	58	0
859	0	659	0	459	0	259	0	59	0
860	0	660	0	461	0	260	0	60	0
861	0	661	0	462	0	261	0	61	0

$$\begin{array}{c} \bar{X} \\ \text{S.E.} \end{array}$$

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity; 4 = very high quantity.

SL 031316

TABLE 75 - Urinary casts in control and ECD-exposed female rats

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 0	409 0	209 0	9 0
812 0	610 0	410 0	210 0	10 0
813 0	611 0	411 0	211 0	11 0
814 0	612 0	412 0	212 0	12 0
815 0	613 0	413 0	213 0	13 0
816 0	614 0	414 0	214 0	14 0
817 0	615 0	415 0	215 0	15 0
818 0	616 0	416 0	216 0	16 0

 $\bar{X}$
S.E.

0

0

0

0

0

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031317

TABLE 76 - Urinary casts in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 0	654 0	454 0	254 0	54 0
855 0	655 0	455 0	255 0	55 0
856 0	656 0	456 -	256 0	56 0
857 0	657 -	457 0	257 0	57 0
858 0	658 0	458 0	258 0	58 0
859 0	659 0	459 0	259 0	59 0
860 0	660 0	461 0	260 0	60 0
861 0	661 0	462 0	261 0	61 0

$\bar{X}$ 0 0 0 0 0
 S.E. 0 = absent; 1 = traces ; 2 = discrete quantities ; 3 = high quantity; 4 = very high quantity.

SL 031318

TABLE 77 - Urinary leukocytes in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 1	409 0	209 1	9 0
812 0	610 0	410 0	210 0	10 0
813 1	611 1	411 1	211 1	11 0
814 1	612 1	412 0	212 1	12 1
815 1	613 1	413 0	213 1	13 0
816 1	614 0	414 0	214 1	14 0
817 0	615 1	415 1	215 0	15 0
818 0	616 -	416 0	216 1	16 1

$\bar{X}$ 0.44
S.E.

0.71

0.25

0.75

0.25

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031319

TABLE 78 - Urinary leukocytes in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
854	0	654	0	454	0	254	0	54	-
855	0	655	0	455	1	255	1	55	0
856	0	656	0	456	-	256	0	56	0
857	0	657	-	457	1	257	1	57	0
858	0	658	0	458	0	258	0	58	0
859	0	659	0	459	1	259	0	59	0
860	1	660	0	461	0	260	0	60	0
861	0	661	1	462	0	261	0	61	1

 $\bar{X}$
S.E.

0.125

0.14

0.42

0.25

0.125

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

TABLE 79 - Urinary crystals in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 1	609 1	409 1	209 2	9 2
812 1	610 2	410 0	210 3	10 1
813 1	611 2	411 2	211 1	11 3
814 1	612 3	412 2	212 1	12 1
815 1	613 3	413 3	213 1	13 1
816 1	614 1	414 3	214 1	14 2
817 2	615 1	415 2	215 1	15 3
818 3	616 -	416 2	216 1	16 0
$\bar{X}$ 1.33	2.00	2.00	1.375	1.625
S.E.				

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

TABLE 80 - Urinary crystals in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 2	654 1	454 2	254 1	54 -
855 1	655 1	455 1	255 1	55 1
856 3	656 1	456 -	256 1	56 1
857 1	657 -	457 1	257 3	57 1
858 2	658 1	458 2	258 2	58 1
859 1	659 2	459 2	259 1	59 2
860 1	660 0	461 1	260 2	60 1
861 2	661 3	462 1	261 3	61 1

$\bar{X}$
S.E.

0.625

1.285

1.428

1.75

1.142

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity; 4 = very high quantity.

SL 031321

TABLE 81 - Urinary mucus in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 1	409 1	209 1	9 0
812 1	610 1	410 0	210 1	10 0
813 1	611 1	411 1	211 0	11 1
814 1	612 1	412 2	212 1	12 0
815 0	613 1	413 1	213 1	13 0
816 1	614 1	414 0	214 0	14 1
817 3	615 1	415 1	215 1	15 0
818 1	616 -	416 0	216 1	16 1

$\bar{X}$ 0.888 1.00 0.75 0.75 0.866
 S.E.

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031322

TABLE 82 - Urinary mucus in control and ECD-exposed male rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
854	0	654	0	454	1	254	1	54	-
855	1	655	1	455	1	255	0	55	1
856	0	656	1	456	-	256	1	56	1
857	0	657	-	457	1	257	4	57	1
858	1	658	0	458	3	258	1	58	0
859	1	659	1	459	1	259	1	59	1
860	1	660	0	461	0	260	1	60	1
861	0	661	1	462	1	261	1	61	1

 $\bar{X}$
S.E.

0.50

0.571

0.142

1.25

0.857

0 = absent ; 1 = traces; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

TABLE 83 - Urinary epithelial cells in control and ECD-exposed female rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
811 0	609 1	409 0	209 0	9 1
812 0	610 0	410 0	210 0	10 0
813 0	611 0	411 0	211 0	11 0
814 0	612 0	412 0	212 0	12 0
815 0	613 1	413 0	213 0	13 0
816 0	614 0	414 0	214 0	14 0
817 0	615 0	415 0	215 0	15 0
818 0	616 0	416 0	216 0	16 1

$\bar{X}$ 0 0.25 0 0 0.25
 S.E. 0.16 0.16

0 = absent; 1 = traces; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031324

TABLE 84 - Urinary epithelial cells in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 0	654 0	454 0	254 0	54 -
855 0	655 1	455 0	255 0	55 1
856 0	656 0	456 -	256 0	56 0
857 0	657 -	457 0	257 0	57 0
858 0	658 0	458 0	258 0	58 0
859 0	659 0	459 1	259 0	59 1
860 0	660 0	461 0	260 0	60 0
861 1	661 0	462 1	261 0	61 0

$\bar{X}$ 0.25 0.14 0.42 0 0.28
 S.E.

0 = absent; 1 = traces ; 2 = discrete quantities; 3 = high quantity; 4 = very high quantity.

SL 031325

TABLE 85 - Urinary microorganisms in control and ECD-exposed female rats.

CONTROL		GROUP 1		GROUP 2		GROUP 3		GROUP 4	
Rat No.		Rat No.		Rat No.		Rat No.		Rat No.	
811	3	609	1	409	3	209	3	9	2
812	3	610	1	410	2	210	1	10	3
813	3	611	1	411	3	211	2	11	3
814	3	612	1	412	3	212	3	12	3
815	3	613	2	413	1	213	3	13	3
816	3	614	1	414	2	214	2	14	3
817	3	615	3	415	3	215	3	15	3
818	3	616	-	416	3	216	3	16	3
$\bar{X}$	3.00		1.428		2.50		2.50		2.87
S.E.									

0 = absent ; 1 = traces ; 2 = discrete quantities ; 3 = high quantity ; 4 = very high quantity.

SL 031327

TABLE 86 - Urinary microorganisms in control and ECD-exposed male rats.

CONTROL	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Rat No.	Rat No.	Rat No.	Rat No.	Rat No.
854 2	654 3	454 3	254 3	54 -
855 3	655 3	455 1	255 3	55 3
856 3	656 3	456 -	256 3	56 2
857 3	657 -	457 1	257 3	57 3
858 3	658 3	458 1	258 3	58 3
859 3	659 3	459 1	259 3	59 3
860 3	660 2	461 1	260 3	60 3
861 3	661 3	462 2	261 3	61 3

 $\bar{X}$
S.E.

2.875

2.85

1.428

3.00

2.85

0 = absent; 1 = traces ; 2 = discrete quantities; 3 = high quantity; 4 = very high quantity.