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TABLE 1. - MOST SIGNIFICANT VARIABLES AFFECTING EACH LIVER FUNCTION TEST

<u>Test</u>	<u>Variable</u>	<u>Average</u>	<u>No. Employees</u>
1. Total Bilirubin	Do No Smoke Cigarettes	.63	350
	Do Smoke Cigarettes	.55	417
2. Alkaline Phosphatase	Do Smoke Cigarettes	68	417
	Do Not Smoke Cigarettes	62	350
3. GGTP	≥ 1 Drink per Day	42	33
	< 1 Drink per Day	18	191
4. SGOT	Do Have Liver Problems	40	14
	Do Not Have Liver Problems	27	753
5. a. SGPT	Any $E \geq 3$ VC1	32	163
	No $E \geq 3$ VC1	26	59
	b. SGPT		
	Dizzy from VC1	32	137
	Not Dizzy from VC1	27	85
6. LDH	None		

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TABLE 2. - PROPORTIONATE STUDY OF ABNORMAL BLOOD TESTS

A Comparison of the Numbers of Abnormal
Employee Blood Tests When Classified by
Chemical Exposure and Personal History Variables

<u>Variable</u>	<u>Had</u>	<u>Did not Have</u>
1.	<u>TOTAL BILIRUBIN #Tests > 1.0/out of total</u> Total % with abnormal Bilirubin = 5%	
Smoke Cigarettes	12/417 (3%)	24/350 (7%)
2.	<u>ALKALINE PHOSPHATASE #Tests > 85/out of total</u> Total % with abnormal A.P. = 12%	
Gall Bladder Trouble	8/27 (30%)	85/740 (11%)
Smoke Cigarettes	62/417 (15%)	31/350 (9%)
3.	<u>GGTP #Tests > 37/out of total</u> Total % with abnormal GGTP = 10%	
Alcohol: $\geq$ 1 drink per day	12/33 (36%)	11/191 (6%)
Liver Problems	4/7 (57%)	19/217 (9%)
Any E = 5 VCl ₂	3/7 (43%)	20/217 (9%)
4.	<u>SGOT #Tests > 40/out of total</u> Total % with abnormal SGOT = 7%	
Liver Problems	7/14 (50%)	47/753 (6%)
5.	<u>SGPT #Tests > 25/out of total</u> Total % with abnormal SGPT = 64%	
Any E $\geq$ 3 caprylyl peroxide	52/58 (90%)	89/164 (54%)
Dizzy from VCM	101/137 (74%)	40/85 (47%)
Any E $\geq$ 3 VCM	115/163 (71%)	26/59 (44%)
6. LDH -- No Trends		

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TABLE 3. - BLOOD ABNORMALITY RATING BY CANNONICAL CORRELATION

Person (In Order of Rating)	Blood Test Results						History				
	Total Bilirubin	Alk Phc	LDH	SGOT	GCTP	SGPT	Mon. Expos. to VCM > 3	Times Dizzy From VCM	Alcohol Cons. per Week	Packs Cigarettes per Day	Mon. Expos. to Butadiene
Highest	.8	108	155	32	113	15	255	1-2	5-7	>2	0
2nd	.7	98	151	29	97	43	144	>5	1-2	1	0
3rd	.6	42	130	27	47	11	180	>5	14	0	180
4th	.6	59	83	43	65	39	35	0	21	1	23
5th	.7	130	165	40	154	24	3	1-2	3-4	1	1
Avg.	.7	87	137	34	95	26	123	2.8	9.6	1.0	41
5th	3.0	95	235	60	13	19	0	1-2	1-2	0	0
4th	.8	83	285	50	11	29	0	0	0	0	0
3rd	1.6	52	212	27	11	15	0	0	0	0	0
2nd	1.9	62	151	28	6	19	8	>5	3-4	0	8
Lowest	.5	109	260	36	8	31	0	1-2	1-2	0	0
Avg.	1.6	80	229	40	10	23	1.6	1.8	1.6	0	1.6
Upper Norms	1.0	85	225	40	25	37					

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TABLE 4. - LIST OF SELECTED CHEMICALS

acrylic acid

acrylamides-acrylamide, methyl, n-octyl, nMA

acrylonitrile

acetylene

acrylates-ethyl, methyl-methyl-meth, 2 ethyl hexyl,
n-butyl

Bisphenol A

Butadiene

caprylyl chloride (actually caprylyl peroxide in this study)

chlorinated solvents-carbon tetrachloride, chloroform,
trichloroethylene, EDC

chloro ethyl vinyl ether

diethyl maleate

mecuric chloride

methanol

phenol

PVC dust

toluene

vinyl chloride

vinylidene chloride

vinyl acetate