

Antitubercular Factors - Ethyl
Study - 1929

SUMMARY TABLE OF NON QUANTITATIVE FACTORS.
BARREL FILLERS ETHYL 1929

	Number	Per Cent		Number	Per Cent
Ethyl Fluid Exposure			Nocturia		
Plus	0	0	None	20	91
Zero	22	100	Plus	2	9
Other Lead Exposure			Neuritic Symptoms		
Plus	6	27	None	21	95
Plus or Minus	6	27	Plus	1	5
Zero	10	46	Chest Lesions		
Children since 1925	9		None	21	95
Children per married man(18)	.5		Plus	1	5
Miscarriages since 1925	0		Abdominal Lesions		
Recent loss of weight	0		None	22	100
Plus	0		Pelvic Lesions		
Plus or Minus	0		None	19	86
General Health			Hem	2	
None	22	100	Her	2	
Plus	22	100	With Lesions	3	14
Constipation			Nose & Throat Lesions		
None	19	86	None	7	32
Plus	1	5	R.	6	
Plus or Minus	2	9	S.D.L.orR.	5	
Diarrhea			C.T.	4	
None	22	100	C.R.	3	
Fatigue			A.R.	2	
None	22	100	With Lesions	15	68
Headache			Pyorrhea		
None	19	86	None	11	50
Plus or Minus	2	9	With	11	50
Plus	1	5	Skin of Hands		
Abdominal Cramps			Normal	16	73
None	20	91	Not normal	6	27
Plus	1	5	Nutrition		
Plus or Minus	1	4	Plus	10	45
Digestive Disturbances			Plus or Minus	8	35
None	21	95	Minus	2	10
Plus	1	5	Two Plus	2	10

SUMMARY TABLE OF NON QUANTITATIVE FACTORS. PART II

BARREL FILLERS ETHYL 1929

	Number	Per Cent		Number	Per Cent
Visual Field			Sensory Disturbances		
Normal	20	90	None	20	90
Not Normal	2	10	Present	2	10
Pallor			Upper Extremity Atrophy		
None	21	95	None	21	95
Present	0	0	Present	1	5
Flushed	1	5	Extensor Paresis		
Lead Line			None	22	100
None	22	100	Urinary Acidity		
Stippling			None	6	27
None	21	95	Plus	16	73
With (2)	1	5	Albuminuria		
Tremors			None	22	100
None	13	59	Glycosuria		
Present	9	41	None	22	100
Nerve Trunk Tenderness					
None	20	95			
Present	1	5			

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SUMMARY TABLE OF NON QUANTITATIVE FACTORS

BARREL FILLERS PLAIN 1929

	Number	Per cent		Number	Percent
Ethyl Fluid Exposure			Abdominal Cramps		
None	27	100	None	24	88
Other Lead Exposure			Plus or minus	2	8
None	16	59	Plus	1	4
Plus	13	11	Digestive Disturbances		
Plus or minus	7	26	None	26	96
Two plus	1	4	Plus	1	4
Children since 1925	11		Nocturia		
Children per married man(15)	.7		None	17	63
Miscarriages since 1925	0		Plus or minus	3	11
Recent loss of weight			Plus	7	26
None	27	100	Neuritic Symptoms		
General Health			None	27	100
Plus	27	100	Chest Lesions		
Constipation			None	25	92
None	24	89	Plus	2	8
Plus or minus	2	7	Abdominal Lesions		
Plus	1	4	None	25	92
Diarrhea			Plus	2	8
None	27	100	Pelvic Lesions		
Fatigue			None	21	78
None	24	89	Her.	5	
Plus	2	7	Hem.	1	
Plus or minus	1	4	With lesions	6	22
Headache			Nose & Throat Lesions		
None	25	92	None	10	37
Plus or minus	2	8	C.T.	9	
			R.	7	
			S.D.L.or R.	3	
			N.O.	2	
			C.R.	1	
			E.T.	1	
			With one or more lesions	17	63

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

BARREL FILLERS PLAIN 1929 PART II

	Number	Per Cent		Number	Per cent
Pyorrhea			Tremors		
None	7	26	None	19	70
Plus	15	56	Present	8	30
Two Plus	4	18	Nerve Trunk Tenderness		
Skin of Hands			None	23	89
Normal	11	40	Present	3	11
Not Normal	1	4	Sensory Disturbances		
Dry	15	56	None	27	100
Nutrition			Upper Extremity Atrophy		
Plus	13	48	None (no information 4)	23	100
Plus or minus	7	26	Extensor Paresis		
Minus	4	15	None (no information 4)	23	100
Two Plus	3	11	Urinary Acidity		
Visual Field			None	26	96
Normal (no information 4)	23	100	Plus	1	4
Pallor			Albuminuria		
None	12	45	None	27	100
Pallor	8	29	Glycosuria		
Flushed	7	26	None	26	96
Lead Line			Present	1	4
None	27	100			
Stippling					
None	8	30			
1 - 4.9	6				
5 - 9.9	4				
10 - 19	3				
20 - 29	6				
With stippling	19	70			

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

FILLING STATION ETHYL 1929

	Number	Per cent		Number	Per cent
Ethyl Fluid Exposure			Abdominal Cramps		
None	29	52	None	51	91
Plus	27	48	Plus or minus	2	4
Other Lead Exposure			Plus or minus	3	5
None	37	66	Digestive Disturbances		
Plus or Minus	16	29	None	48	86
Plus	3	5	Plus or minus	5	9
Children since 1925	17		Plus	3	5
Children per married man(52)	.3		Nocturia		
Miscarriages since 1925	8		None	51	91
Recent Loss of Weight			Plus or minus	3	4
None	52	92	Neuritic Symptoms		
Plus	3	6	None	53	95
Plus or minus	1	2	Present	3	5
General Health			Chest Lesions		
Plus	55	98	None	46	82
Plus or minus	1	2	KY.	2	
Constipation			C.D.	4	
None	40	71	Em.	3	
Plus or minus	5	9	A.S.	3	
Plus	11	20	Br.	1	
Diarrhea	5		With one or more lesions	10	18
None	56	100	Abdominal Lesions		
Fatigue			None	53	95
None	54	96	Her.	2	
Plus or minus	1	2	Hy. Liv.	1	
Plus	1	2	With lesions	3	5
Headache					
None	39	70			
Plus or minus	11	20			
Plus	6	10			

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

FILLING STATION ETHYL 1929 PART II

	Number	Per cent		Number	Per cent
Pelvic Lesions					
None	48	86	Pallor	43	77
Her.	2		None	2	4
P.Hy.	1		Pallor	11	19
R.Hy.	1		Flushed	55	98
Hem.	1		Lead Line	1	2
L.V.	1		None		
V.	1		Plus or Minus		
Hy.	1		Stippling	36	64
With Lesions	8	14	None	26	
Nose & Throat Lesions			Under 10	14	
None	30	54	10 - 19	4	
S.D.R.orL.	14		20 - 39	2	
I.T.	7		With Stippling	20	36
C.R.	7		Tremors		
C.T.	6		None	36	64
R.	4		Present	20	36
S.I.	1		Nerve Trunk Tenderness		
Hy. T.	1		None	50	89
N.U.	1		Present	6	11
With one or more lesions	26	46	Sensory Disturbances		
Pyorrhea			None	55	98
None	36	64	Present	1	2
Plus	15	27	Upper Extremity Atrophy		
Two Plus	5	9	None	55	98
Skin of Hands			Present	1	2
Normal	45	80	Extensor Paresis		
Not Normal	11	20	None	55	98
Nutrition			Present	1	2
Plus	25	45	Urinary Acidity		
Plus or minus	20	36	None	31	61
Two Plus	7	13	Present	20	39
Minus	4	6	Albuminuria		
Visual Field			None	53	100
Normal	54	96	Glycosuria		
Not Normal	2	4	None	52	98
			Present	1	2

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

TANK WAGON ETHYL 1929

	Number	Per cent		Number	Per cent
Ethyl Fluid Exposure			Digestive disturbances		
None	32	64	None	38	78
Plus	18	36	Plus or minus	9	18
Other Lead Exposure			Plus	2	4
None	24	48	Nocturia		
Plus or minus	18	36	None	46	94
Plus	8	16	Plus or minus	1	2
Children since 1925	19		Plus	2	4
Children per married man(46)	.4		Neuritic Symptoms		
Miscarriages since 1925	0		None	49	100
Recent Loss of Weight			Chest Lesions		
None	48	96	None	44	89
Plus	2	4	C.H.	2	
General Health			C.D.	1	
Plus	48	98	V.D.	1	
Plus or minus	1	2	V.V.	1	
Constipation			With lesions	5	11
None	39	80	Abdominal Lesions		
Plus or minus	5	10	None	47	96
Plus	5	10	Her.	1	
Diarrhea			Hy. Liv.	1	
None	49	100	With lesions	2	4
Fatigue			Pelvic Lesions		
None	48	98	None	42	85
Plus	1	1	Hem.	2	
Plus or minus	1	1	Ing. Lym. Ad.	1	
Headache			Her.	1	
None	38	78	L.V.	1	
Plus or minus	9	18	Fis.	1	
Plus	2	4	HYP.	1	
Abdominal Cramps			With lesions	7	15
None	44	90	Nose & Throat Lesions		
Plus	2	4	None	22	45
Plus or minus	3	6	S.D.L.orr.	12	
			C.R.	14	
			C.T.	8	
			A.R.	3	
			I.T.	2	
			R.	2	
			C.D.	1	
			With lesions	27	55

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SUMMARY TABLE OF NON QUANTITATIVE FACTORS

TANK WAGON ETHYL 1929 PART II

	Number	Per cent		Number	Per cent
Pyorrhea			Tremors		
None	20	41	None	29	58
Plus	27	55	Present	21	42
Two plus	2	4	Nerve Trunk Tenderness		
Skin of hands			None	33	66
Normal	37	76	Present	17	34
Not normal	12	24	Upper Extremity Atrophy		
Nutrition			None	46	92
Plus	23	46	Present	4	8
Plus or minus	10	20	Sensory Disturbances		
Two plus	15	30	None	47	94
Minus	2	4	Present	3	6
Visual Field			Extensor Paresis		
Normal	49	98	None	47	94
Not normal	1	2	Present	3	6
Pallor			Urinary Acidity		
None	40	80	None	31	67
Pallor	2	4	Plus	15	33
Flushed	8	16	Albuminuria		
Lead Line			None	42	91
None	49	98	Present	4	9
Plus or minus	1	2	Glycosuria		
Stippling			None	45	98
None	32	65	Present	1	2
1	8				
2	4				
4	1				
6	1				
7	1				
10	1				
16	1				
With stippling	17	35			

CORRELATION COEFFICIENTS
GARAGE MECHANICS EXPOSURE 1929

Costal Angle

And

Mgrms. Pb. per
Liter of urine..... $r = +.153 \pm .005$

Mgrms. Pb. per
Grm. ash in the
faeces..... $r = -.036 \pm .005$

In each case the coefficient is relatively ^{stable} with reference to its own probable error, the magnitude of the coefficient is so low that it suggests no association between the variables in question. Since the coefficient is low and since the sign is reversed, in short, neither the magnitude nor direction of the association is of any consequence, one may conclude that neither the excretion of lead, and conversely, its being stored within the body, has any relation to the diathesis of the individual, when diathesis or constitution is measured crudely by means of the costal angle.

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

GARAGE MECHANICS EXPOSURE 1929

	Number	Per cent		Number	Per cent
Ethyl Fluid Exposure			Abdominal cramps		
None	200	99	None	187	93
Plus	2	1	Plus	12	6
Other Lead Exposure			Plus or minus	2	1
None	2	1	Digestive disturbances		
Plus	170	85	None	181	90
Plus or minus	29	14	Plus or minus	16	8
Children since 1925	87		Plus	4	2
Children per married man(152)	.6		Nocturia		
Miscarriages since 1925	7		None	186	93
Recent loss of weight			Plus	6	3
Plus	7	4	Plus or minus	9	4
Plus or minus	2	1	Neuritic Symptoms		
None	193	95	None	194	97
General Health			Plus	7	3
Plus	189	94	Chest Lesions		
Plus or minus	11	5	None	181	90
Minus	1	1			
Constipation			Br.	7	
None	155	77	C.D.	6	
Plus or minus	26	13	Adh.	2	
Plus	20	10	T.B.C.	2	
Diarrhea			L.Aor.	1	
None	199	98	Emp.	1	
Plus or minus	3	2	Pleur.	1	
Fatigue			With lesions	20	10
None	190	95	Abdominal Lesions		
Plus	8	4	None	193	96
Plus or minus	3	1	Not specified	4	
Headache			Her.	1	
None	104	52	Hy.Liv.	1	
Plus or minus	66	33	Ulcer	1	
Plus	31	15	Ctr. Liv.	1	
			With lesions	8	4

SUMMARY TABLE OF NON QUANTITATIVE FACTORS

GARAGE MECHANICS EXPOSURE 1929 PART II

	Number	Per cent		Number	Per cent
Pelvic Lesions			Pallor		
None	185	91	None	157	79
L.V.	5		Present	23	11
L. Scar	5		Flushed	21	10
Her.	5		Lead Line		
Atr.	1		None	201	100
Hy.	1		Stippling		
Hem.	1		None	158	79
With Lesions	18	9	1	19	
Nose & Throat Lesions			2 - 5.9	17	
None	92	46	6 - 10	5	
S.D.R. or L.	49		11 - 20	1	
C.R.	48		With stippling	42	21
C.T.	29		Tremors		
R.	16		None	130	65
S.T.	1		Present	71	35
C.P.	1		Nerve Trunk Tenderness		
Spur	1		None	184	92
With one or more lesions	109	54	Present	17	8
Pyorrhea			Sensory Disturbances		
None	82	41	None	98	96
Plus	104	52	Present	4	4
Two Plus	15	7	No Information	99	
Skin of Hands			Upper extremity atrophy		
Normal	145	72	None	192	96
Not normal	56	28	Present	9	4
Nutrition			Extensor Paresis		
Plus	113	57	None	200	99
Plus or minus	49	24	Present	1	1
Two plus	31	15	Urinary Acidity		
Minus	8	4	None	109	54
Visual Field			Present	92	46
Normal	201	100	Albuminuria		
			None	195	97
			Present	6	3
			Glycosuria		
			None	200	99
			Present	1	1

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