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Author Legolvan, Paul C.

Corporate Author

Report/Article Title Memorandum: Agent Orange Dioxin Fat Biopsy Study, from Paul C. Legolvan to Lyndon E. Lee, December 31, 1979

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Description Notes Laboratory studies on the fat biopsy cases.

Memorandum

DATE: December 31, 1979

TO: Dr. Lyndon E. Lee(112)

FROM: Deputy Director, Pathology Service(113)

SUBJ: Agent Orange Dioxin Fat Biopsy Study

1. Attached are the Laboratory Studies on the fat biopsy cases in table form from the data on each case submitted by each area (Hines, West Side, North Chicago and Lincoln, Nebraska). The Normal values are given for each except for Lincoln from which we have no data. The tests are divided into groupings as we had agreed upon except that Hematopoietic and the Reticuloendothelial groups are combined. The miscellaneous include other tests, x-ray, EKG and Surgical biopsy histopathological diagnoses submitted.

2. When the other data are received we can enter the values.


PAUL C. LEGOLVAN, M.D.

Att.



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VA Medical Center, West Side Chicago, Illinois

WS- 23	WS- 24	WS- 25	WS- 26	WS- 29	WS- 30	WS-31	WS- 32	Normal Values/Ranges
42.5		46.5	47.1	46.8		40.3		M 47 ± 5 F 42 ± 5
14.5		15.7	15.6	15.1		13.4	15.6	M 13.3 - 15.5 F 11.5 - 14.5
							450,000	200 - 400 x 10 ³
7,700		8,000	7,300	6,700	17,500	5,000	9,000	5,000 - 10,000
Normal		Normal	Normal	Normal				
								6.6 - 8.3 g/dl
4.8		4.5	4.7	4.6		3.9	4.3	3.8 - 5.7 g/dl
								10-13 secs
								40 sections
21.3		30.0	14.9	14.2		13.0	16.3	22-58 I.U./L
								5-35 U
293		121	138	136		177	146	79 - 258 IU/L
141		141	109	150		132	109	1-8 - 235 I,U/L
		90				152		150 - 300 mg/dl
Amorphous Casts		1-2 WBC	Rare RBC			2-4 WBC	0-9 WBC	
21		17	18	12	11	12	14	6.4 - 2.6 mg/dl
		1.2		1.0		1.1	0.7	0.5 - 1.5 mg/dl
100		80	100	95		80	100	63-128 mg/dl
								9.0 - 10.6 mg/dl
								2.5 - 4.7 mg/dl
								0.3 - 1.2 mg/dl
								↓ 0.2 mg/dl
								2.8 - 8.8 mg/dl
sts neg	Sickle prep neg	sts neg		ESR-14, 1000 Hct 32.5% Hgb 10.5 Hct-Hgb sts neg	sts-neg	sts-neg	sts-neg	

AP-155

	H-1	H-2	H-3	H-4	H-5	H-6 TM	H-7	H-8	H-9	H-10	H-11	H-12		
H E M A T	Hematocrit	39.5	43	42.9	49.5	46.2		45.2		49.7	48.3	50.8	42.1	46.6
	Hemoglobin	12.7	14.8	14.8	16.3	15.1		15.5		17.3	16.5	17.2	14.6	16.1
	Platelets	Adequate	Adequate	Adequate	Adequate	Adequate		370,000		Adequate	Adequate	Adequate	Adequate	Adequate
W H I T E	White Blood Cells	4,000	5,000	5,800	10,700	9,200		7,900		8,200	10,800	9,100	8,300	6,300
	Differential	Normal	Normal	Normal	Normal	Normal		Normal		Atypical Lymphs 12%	Normal	Normal	Normal	Normal
S Y S T E M	Total Protein		7.2	7.4	7.7	8.0		6.7		8.0	7.8	7.6		
	Albumin		5.0	4.9	5.0	3.8		4.1		4.7	4.4	4.6		
	Partial Thromboplastin	Normal	Normal	Normal	Normal	Normal		Normal		Normal	Normal	Normal		Normal
H E P A T I C	Prothrombin Time	Normal	Normal	Normal	Normal	Normal		Normal		Normal	Normal	Normal		Normal
	Aspartate Amino Transferase (SGOT)		38	58	60	64		40		69	240	71		
	Alanine Amino Transferase (SGPT)													
	Alkaline Phosphatase		56	78	136	170		80		56	125	136		
L A C T I C	Lactic Dehydrogenase (LDH)		146	133	160	124		178		144	160	162		
	Cholesterol		224		300	127		205		188	210	229		
R E N A L	Urinalysis	1+ Prot		Few W.B.C.	Few WBC and Bacteria	protein-trace + occult blood		Few WBC		Few WBC & Bacteria	Few WBC & Bacteria	Few WBC	Many Bact.	Normal
	Urea Nitrogen (BUN)	30	14	21	17	30		12		13	6	12		16
	Creatinine		0.8	1.0	0.8	0.9		1.3		0.8	0.6	1.2		1.2
M E T A B O L I O C H E M I S T R Y	Fasting Blood Sugar	52	80	96	123	111		91		103	92	99		118
	Calcium		9.9	10.0	10.1	9.4		10.1		10.8	9.7	10.3		
B O N E	Phosphorus		3.9	3.7	3.5	3.3		3.8		3.4	3.7	4.0		
	Total Bilirubin		1.1	0.6	0.8	1.6		1.0		1.0	1.0	0.5		
	Direct Bilirubin		0.2	0.1	0.1	0.3		0.2		0.2	0.5	0.1		
U R I C A C I D	Uric Acid		6.2	5.2	4.7	7.5		6.0		7.6	3.5	6.0		
	Electrolytes	Normal	Normal	Normal	↑ K	Normal		↑ CL		↑ CL	Normal	Normal		↑ CL
M I S C	Other Tests							CSF Prot 49 mg						
	X-Ray (Chest)	Small Blebs Rt. Apex	Normal	Normal	Normal	Normal		Normal		Normal	Normal	Normal	Normal	Normal
	EKG	Normal	Bradycardia	Incomplete ventricular conduction defect	Normal	Normal		Sinus bradycardia		Normal	Normal	Normal	Normal	Normal
S U R G I C A L P A T H O L O G Y	Surgical Tissue Pathology Report	* 1	* 1	* 1				* 2		* 3	* 4			
*1 Skin biopsy-mild chronic perivascularitis						*4 Normal muscle biopsy - see hospital summary								
*2 Thyroid - papillary carcinoma						*5 Mediastinoscopy - sarcoid								
*3 Finger - hyperplastic synovitis and granulation						*6 Skin - chronic inflammation								

