

BIO-MEDICAL RESEARCH
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1 2	61 62
SUMMARY REPORT OF CARDIOPULMONARY	21
FUNCTION PVC INHALATION STUDY--	22
LUNGS, NIOSH, LEWIS	23
	24

Source (Journal, Vol., Number, Pages, Date)

1 2	61 62
INTERNAL NIOSH REPORT	31
	32

Brief Summary

1 2 10	61 62
SUMMARY:	61
	62
	63
	64

NIOSH EXPERIMENTAL TOXICOLOGY BRANCH
CARDIOPULMONARY FUNCTION LABORATORY
GROUP SUMMARY REPORT

GROUP 1

BEFORE

0000394

Control of baseline

	N	SUM	MEAN	S. D.	SUM SQRS	L -RANGE-	H
MECHANICS							
RL AT L. F. (CMH2O/L/S)	10	116.30	11.630	5.5734	1632.1292	2.70	20.10
RL AT H. F. (CMH2O/L/S)	0	.00	.000	.0000	.0000	.00	.00
RL AT L. F. /RL AT H. F.	0	0.	.0	.00	0.	0.	0.
CL AT L. F. (ML/CMH2O)	10	139.80	13.980	6.9702	2391.6592	5.40	26.20
CL AT H. F. (ML/CMH2O)	10	125.30	12.530	9.4514	2373.9690	4.40	36.20
CL AT H. F. /CL AT L. F.	10	966.	96.6	56.12	121664.	22.	210.

DYNAMIC LUNG VOLUMES

FVC (ML)	10	3421.	342.1	46.72	1189973.	271.	435.
FEV.5/FVC (%)	10	788.	78.8	7.61	62616.	67.	89.
FEV1/FVC (%)	10	966.	96.6	2.01	93352.	92.	99.
PEFR (ML/S)	9	8848.	983.1	133.51	8841160.	753.	1170.
FEF 50% (ML/S)	9	8848.	983.1	133.51	8841160.	753.	1170.
FEF 25% (ML/S)	10	4910.	491.0	124.21	2549652.	290.	737.
FEF 10% (ML/S)	10	1461.	146.1	50.17	236109.	83.	243.
FEF 50%/FVC (FVC/SEC)	9	25.72	2.858	.5768	76.1633	1.92	3.56
FEF 25%/FVC (FVC/SEC)	10	14.54	1.454	.3848	22.4738	.85	1.91
FEF 10%/FVC (FVC/SEC)	10	4.32	.432	.1466	2.0596	.23	.63
FEF 40%TLC (ML/S)	0	0.	.0	.00	0.	0.	0.
40%TLC/TLC (TLC/SEC)	0	.00	.000	.0000	.0000	.00	.00

LUNG VOLUMES

IC (ML)	10	1929.	192.9	44.13	389629.	114.	255.
FRC (ML)	10	2202.	220.2	44.81	502950.	168.	309.
ERV (ML)	10	1491.	149.1	34.53	233039.	105.	222.
RV (ML)	8	687.	85.9	47.55	74821.	39.	159.
TLC (ML)	10	4130.	413.0	53.60	1731542.	316.	512.
RV/TLC (%)	8	159.0	19.87	9.587	3803.46	9.3	35.9

DIFFUSION

DLCO (ML STPD/MIN/MM HG)	10	10.06	1.006	.3463	11.1996	.61	1.72
DLCO/VA (1/MIN/MM HG)	10	.02977	.00298	.00091	.00009603	.00179	.00486

CLOSING VOLUME & N2 WASHOUT

CLOSING VOLUME (ML)	10	394.	39.4	10.55	16526.	17.	57.
V/Vc (%)	10	117.4	11.74	3.567	1492.80	5.0	16.1
CV+RV)/TLC (%)	10	256.2	25.62	11.380	7729.29	7.9	44.7
ADS (ML)	0	0.	.0	.00	0.	0.	0.
N2/100ML	10	8.1	.81	.213	6.97	.5	1.2

ISOFLOW

ISOFLOW (ML)	0	0.	.0	.00	0.	0.	0.
ISOFLOW/FVC (%)	0	0.	.0	.00	0.	0.	0.

R&S 112914

EXPERIMENTAL TOXICOLOGY BRANCH PULMONARY FUNCTION LABORATORY GROUP SUMMARY REPORT BEFORE

B. L. Smith

	N	SUM	MEAN	S. D.	SUM SQRS	L -RANGE-	H
HLI (S)	10	184.80	18.480	8.5284	4069.6980	6.00	38.00
HLI (S)	0	.00	.000	.0000	.0000	.00	.00
HLI (S)	0	0.	0.	.00	0.	0.	0.
HLI (S)	10	196.30	19.630	22.0404	8225.3867	5.50	80.00
HLI (S)	10	66.20	6.620	8.8203	1138.4192	1.30	31.10
HLI (S)	10	547.	54.7	75.89	81759.	5.	261.

ING VOLUMES

	10	3522.	352.2	37.73	1253260.	310.	437.
	10	772.	77.2	9.94	60488.	63.	89.
	10	974.	97.4	1.96	94902.	93.	99.
	10	11555.	1155.5	420.42	14942579.	630.	1762.
	10	11555.	1155.5	420.42	14942579.	630.	1762.
	10	6901.	690.1	352.03	5877703.	327.	1467.
	10	2466.	246.6	90.44	681738.	105.	420.
	10	32.77	3.277	1.1579	119.4540	1.83	5.20
	10	19.70	1.970	1.0394	48.5328	.90	4.42
	10	7.08	.708	.2703	5.6700	.29	1.27
	0	0.	0.	.00	0.	0.	0.
SEC)	0	.00	.000	.0000	.0000	.00	.00

IES

	10	2078.	207.8	34.75	442678.	161.	264.
	10	2060.	206.0	41.48	439842.	159.	274.
	10	1444.	144.4	27.54	215338.	111.	196.
	10	616.	61.6	27.25	44628.	19.	125.
	10	4138.	413.8	42.14	1728284.	351.	493.
	10	147.1	14.71	6.020	2489.95	5.4	28.7
HLI HG)	10	13.10	1.310	.3891	18.5238	.81	2.09
HLI HG)	10	.03169	.00317	.00090	.00010767	.00214	.00484

VOLUME & N2 WASHOUT

	10	404.	40.4	16.94	18904.	25.	82.
	10	107.4	10.74	5.617	1437.42	.8	22.6
	9	222.4	24.71	7.311	5923.39	14.0	35.8
	0	0.	0.	.00	0.	0.	0.
	10	6.7	.67	.200	4.85	.4	1.1
	0	0.	0.	.00	0.	0.	0.
	0	0.	0.	.00	0.	0.	0.

1.2 weight = 4240

NIOSH EXPERIMENTAL TOXICOLOGY BRANCH CARDIOPULMONARY FUNCTION LABORATORY

GROUP : 1 BEFORE

Control C₁₄ month

		SUM	MEAN	S. D.	SUM SQRS	L -RANGE-	H
MECHANICS							
RI AT L.F. (CMH20/L/S)	10	121.34	12.134	4.0885	1622.7822	5.27	19.96
RI AT H.F. (CMH20/L/S)	10	112.18	11.218	1.7921	1287.3374	9.29	15.10
RI AT L.F./RL AT H.F.	10	1064.	106.4	24.56	118640.	57.	136.
CL AT L.F. (ML/CMH20)	10	229.17	22.917	10.7030	6282.8672	9.71	42.82
CL AT H.F. (ML/CMH20)	10	192.34	19.234	10.2496	4644.9453	8.73	40.86
CL AT H.F./CL AT L.F.	10	829.	82.9	12.35	70097.	65.	100.
DYNAMIC LUNG VOLUMES							
FVC (ML)	10	3348.	334.8	36.53	1132918.	287.	382.
FEV ₁ /FVC (%)	10	877.	87.7	5.31	77167.	80.	94.
FEV ₁ /FVC (%)	10	974.	97.4	1.65	94892.	94.	99.
FEFR (ML/S)	10	9438.	943.8	91.32	8982644.	799.	1099.
FEF 50% (ML/S)	10	9201.	920.1	91.04	8540431.	799.	1047.
FEF 25% (ML/S)	10	6481.	648.1	173.47	4471169.	373.	868.
FEF 10% (ML/S)	10	2616.	261.6	114.82	802994.	82.	464.
FEF 50%/FVC (FVC/SEC)	10	27.62	2.762	.2704	76.9443	2.34	3.14
FEF 25%/FVC (FVC/SEC)	10	19.77	1.977	.6221	42.5688	1.05	2.64
FEF 10%/FVC (FVC/SEC)	10	8.11	.811	.4220	8.1801	.23	1.62
FEF 40%TLC (ML/S)	10	8145.	814.5	142.10	6815835.	569.	1051.
40%TLC/TLC (TLC/SEC)	10	23.18	2.318	.5088	56.0613	1.52	2.82
LUNG VOLUMES							
C (ML)	10	1851.	185.1	19.52	346049.	150.	210.
RI (ML)	10	1903.	190.3	32.16	371451.	143.	237.
RV (ML)	10	1496.	149.6	22.73	228450.	115.	179.
V (ML)	10	407.	40.7	10.71	17597.	28.	62.
LC (ML)	10	3566.	356.6	39.21	1285472.	306.	408.
V/TLC (%)	10	113.3	11.33	2.133	1324.65	9.2	15.2
DIFFUSION							
DLCO (ML STPD/MIN/MM HG)	10	10.04	1.004	.3254	11.0332	.56	1.69
DLCO/VA (1/MIN/MM HG)	10	.03894	.00389	.00061	.00015499	.00294	.00463
CLOSING VOLUME & N₂ WASHOUT							
CLOSING VOLUME (ML)	10	208.	20.8	9.09	5070.	11.	35.
V _C /VC (%)	10	62.0	6.20	2.627	446.50	3.5	10.3
CV+RV)/TLC (%)	10	171.2	17.12	3.757	3057.98	12.7	23.0
ADS (ML)	10	57.	5.7	2.45	379.	1.	9.
N ₂ /100ML	10	10.5	1.05	.347	12.11	.5	1.7
ISOFLOW							
ISOFLOW (ML)	10	287.	28.7	19.60	11695.	10.	72.
ISOFLOW/FVC (%)	10	83.	8.3	4.85	901.	3.	19.

R&S 112916

Avg. wt = 4470 gm

NIOSH EXPERIMENTAL TOXICOLOGY BRANCH
CARDIOPULMONARY FUNCTION LABORATORY
GROUP SUMMARY REPORT

GROUP : 2

BEFORE

Control D22 month

N

MECHANICS

	N	SUM	MEAN	S. D.	SUM SQRS	L	-RANGE-	H
RL AT L. F. (CMH20/L/S)	10	126.65	12.665	4.4940	1785.7856	5.92	21.42	
RL AT H. F. (CMH20/L/S)	10	139.12	13.912	3.7502	2062.0137	7.95	22.55	
RL AT L. F. /RL AT H. F.	10	906.	90.6	19.32	85444.	56.	118.	
CL AT L. F. (ML/CMH20)	10	170.23	17.023	9.7942	3761.1543	7.41	34.82	
CL AT H. F. (ML/CMH20)	10	137.46	13.746	8.6206	2558.3638	5.35	31.88	
CL AT H. F. /CL AT L. F.	10	817.	81.7	22.16	71169.	62.	120.	

DYNAMIC LUNG VOLUMES

FVC (ML)	10	3480.	348.0	41.93	1226864.	287.	428.	
FEV. 5/FVC (%)	10	877.	87.7	6.91	77343.	76.	96.	
FEV1/FVC (%)	10	973.	97.3	2.00	94709.	94.	100.	
PEFR (ML/S)	10	9888.	988.8	70.13	9821516.	907.	1120.	
FEF 50% (ML/S)	10	9721.	972.1	70.74	9494821.	894.	1088.	
FEF 25% (ML/S)	10	6841.	684.1	229.29	5153113.	352.	1057.	
FEF 10% (ML/S)	10	2652.	265.2	120.41	833804.	122.	517.	

FEF 50%/FVC (FVC/SEC)	10	28.20	2.820	.2962	80.3133	2.43	3.29	
FEF 25%/FVC (FVC/SEC)	10	20.29	2.029	.7995	46.9210	.95	2.92	
FEF 10%/FVC (FVC/SEC)	10	7.88	.788	.3857	7.5486	.33	1.42	

FEF 40%TLC (ML/S)	10	9067.	906.7	147.96	8418077.	582.	1111.	
40%TLC/TLC (TLC/SEC)	10	26.36	2.636	.5809	72.5217	1.52	3.33	

LUNG VOLUMES

IC (ML)	10	1792.	179.2	21.86	325428.	156.	232.	
FRC (ML)	10	2052.	205.2	45.26	439504.	148.	270.	
ERV (ML)	10	1687.	168.7	34.88	295545.	117.	208.	
RV (ML)	10	374.	37.4	18.37	17026.	14.	79.	
TLC (ML)	10	3500.	350.0	42.42	1241198.	298.	430.	
RV/TLC (%)	10	105.2	10.52	4.559	1293.78	4.7	20.7	

DIFFUSION

DLCO (ML STPD/MIN/MM HG)	10	11.57	1.157	.3690	14.6119	.70	1.82	
DLCO/VA (1/MIN/MM HG)	10	.03977	.00398	.00099	.00016704	.00245	.00546	

CLOSING VOLUME & N2 WASHOUT

CLOSING VOLUME (ML)	10	343.	34.3	13.38	13377.	15.	58.	
CV/VC (%)	10	98.1	9.81	3.543	1075.31	4.3	15.9	
(CV+RV)/TLC (%)	10	202.9	20.29	5.882	4428.23	11.1	29.6	
WADS (ML)	10	56.	5.6	1.71	340.	4.	9.	
2N2/100ML	10	7.9	.79	.256	6.83	.5	1.4	

ISOFLOW

V ISOFLOW (ML)	10	311.	31.1	23.01	14439.	11.	81.	
V ISOFLOW/FVC (%)	10	87.	8.7	5.98	1079.	3.	22.	

Average weight = 4770

EXPERIMENTAL TOXICOLOGY BRANCH PULMONARY FUNCTION LABORATORY GROUP SUMMARY REPORT BEFORE

5
A Section?

	N	SUM	MEAN	S. D.	SUM SQRS	L -RANGE-	H
VTICS							
(CMH2O/L/S)	10	181.90	18.190	10.2554	4255.3242	2.50	31.90
(CMH2O/L/S)	0	.00	.000	.0000	.0000	.00	.00
PL AT H. F.	0	0.	.0	.00	0.	0.	0.
ML/CMH2O	10	129.60	12.960	8.9481	2400.2380	4.90	32.30
ML/CMH2O	0	.00	.000	.0000	.0000	.00	.00
ML AT L. F.	0	0.	.0	.00	0.	0.	0.

TLC LUNG VOLUMES

	10	2593.	259.3	64.20	709465.	184.	391.
	10	656.	65.6	11.67	44260.	45.	85.
	10	958.	95.8	1.99	91812.	92.	98.
	9	4795.	532.8	166.99	2777749.	188.	770.
	9	4795.	532.8	166.99	2777749.	188.	770.
	10	3446.	344.6	107.93	1292334.	159.	529.
	10	1254.	125.4	44.00	174674.	73.	201.
(FVC/SEC)	9	19.84	2.204	.7288	47.9847	.94	3.19
(FVC/SEC)	10	14.17	1.417	.6251	23.5961	.66	2.67
(FVC/SEC)	10	5.07	.507	.2417	3.0963	.32	1.09
(ML/S)	0	0.	.0	.00	0.	0.	0.
TLC (TLC/SEC)	0	.00	.000	.0000	.0000	.00	.00

VOLUMES

	10	1409.	140.9	33.60	208687.	108.	207.
	10	1609.	160.9	37.08	271265.	111.	228.
	10	1124.	112.4	31.21	135102.	73.	172.
	10	489.	48.9	17.80	26763.	27.	79.
	10	3035.	303.5	70.36	965681.	223.	436.
	10	161.8	16.18	5.002	2843.12	9.9	24.9

RESPIRATION

(VD/MIN/MM HG)	10	10.26	1.026	.3409	11.5726	.65	1.53
(MIN/MM HG)	10	.044327	.00443	.00181	.00022577	.00176	.00721

NG VOLUME & N2 WASHOUT

(VOLUME (ML))	7	215.	30.7	22.08	9529.	8.	62.
	7	84.9	12.13	9.615	1584.35	3.4	26.1
(%)	10	235.7	23.57	8.561	6215.08	13.4	40.7
	0	0.	.0	.00	0.	0.	0.
	10	10.8	1.08	.676	15.78	.4	2.8

(VOLUME (ML))	0	0.	.0	.00	0.	0.	0.
(%)	0	0.	.0	.00	0.	0.	0.

Average wt = 3360 g

NIOSH EXPERIMENTAL TOXICOLOGY BRANCH CARDIOPULMONARY FUNCTION LABORATORY GROUP SUMMARY REPORT

GROUP 5

BEFORE

PC B 6 month

	N	SUM	MEAN	S. D.	SUM SQRS	L	-RANGE-	H
MECHANICS								
RL AT L.F. (CMH20/L/S)	10	97.80	↓ 9.780	4.8853	1171.2791	4.50		19.40
RL AT H.F. (CMH20/L/S)	0	.00	.000	.0000	.0000	.00		.00
RL AT L.F. / RL AT H.F.	0	0.	.0	.00	0.	0.		0.
CL AT L.F. (ML/CMH20)	10	137.00	↓ 13.700	7.4946	2382.4187	4.70		25.70
CL AT H.F. (ML/CMH20)	10	56.40	↓ 5.640	1.8692	349.5396	3.80		8.40
CL AT H.F. / CL AT L.F.	10	502. ↓	50.2	22.89	29916.	19.		94.
DYNAMIC LUNG VOLUMES								
FVC (ML)	10	3313.	↓ 331.3	75.83	1149351.	229.		456.
FEV1/FVC (%)	10	717.	↓ 71.7	16.17	53761.	48.		97.
FEV1/FVC (%)	10	942.	↓ 94.2	3.58	88852.	90.		100.
PEFR (ML/S)	10	10486.	↓ 1048.6	285.18	11727586.	465.		1510.
FEF 50% (ML/S)	10	10486.	↓ 1048.6	285.18	11727586.	465.		1510.
FEF 25% (ML/S)	10	6346.	↓ 634.6	352.86	5147794.	340.		1372.
FEF 10% (ML/S)	9	1496.	↓ 156.2	82.89	303634.	88.		340.
FEF 50%/FVC (FVC/SEC)	10	32.91	↓ 3.291	1.1331	119.8622	1.67		5.33
FEF 25%/FVC (FVC/SEC)	10	20.11	↓ 2.011	1.3187	56.0910	1.12		4.72
FEF 10%/FVC (FVC/SEC)	9	5.01	↓ .557	.3752	3.9153	.28		1.48
FEF 40% TLC (ML/S)	0	0.	.0	.00	0.	0.		0.
40% TLC / TLC (TLC/SEC)	0	.00	.000	.0000	.0000	.00		.00
LUNG VOLUMES								
IC (ML)	10	1939.	↓ 193.9	40.04	390399.	141.		256.
FRC (ML)	10	1838.	↓ 183.8	49.91	360246.	114.		279.
ERV (ML)	10	1374.	↓ 137.4	47.05	208712.	70.		200.
RV (ML)	9	459.	↓ 51.0	20.68	26829.	16.		79.
TLC (ML)	10	3777.	↓ 377.7	82.18	1487349.	270.		535.
RV/TLC (%)	9	121.0	↓ 13.44	5.197	1842.84	3.5		22.1
DIFFUSION								
DLCO (ML STPD/MIN/MM HG)	10	11.41	↓ 1.141	.4618	14.9385	.82		2.36
DLCO/VA (1/MIN/MM HG)	10	.03740	↑ .00374	.00163	.00016381	.00210		.00799
CLOSING VOLUME & N2 WASHOUT								
CLOSING VOLUME (ML)	9	858.	↑ 30.7	61.89	108094.	40.		250.
V/Vc (%)	10	259.8	↑ 25.98	15.198	8828.32	8.8		62.0
CV+RV)/TLC (%)	10	349.1	↑ 34.91	14.234	14010.58	17.7		66.4
ADS (ML)	0	0.	.0	.00	0.	0.		0.
N2/100ML	9	8.1	↑ .90	.377	8.43	.4		1.4
ISOFLOW								
ISOFLOW (ML)	0	0.	.0	.00	0.	0.		0.
ISOFLOW/FVC (%)	0	0.	.0	.00	0.	0.		0.

Average weight = 3982

R&S 112919

IOSH EXPERIMENTAL TOXICOLOGY BRANCH RADIOPULMONARY FUNCTION LABORATORY GROUP SUMMARY REPORT

GROUP 4

BEFORE

PVC C. 147mmHg	N	SUM	MEAN	S. D.	SUM SQRS	L	-RANGE-	H
MCHANICS								
AT L. F. (CMH20/L/S)	10	137.90	13.790	3.9756	2043.8848	9.59	19.27	
AT H. F. (CMH20/L/S)	10	111.38	11.138	3.2847	1337.6509	5.43	16.72	
AT L. F. /RL AT H. F.	10	1287.7	128.7	35.96	177275.	78.	204.	
AT L. F. (ML/CMH20)	10	174.93	17.493	7.5709	3575.9155	7.30	33.39	
AT H. F. (ML/CMH20)	10	161.94	16.194	10.1882	3556.6482	5.99	42.30	
AT H. F. /CL AT L. F.	10	900.7	90.0	18.71	84152.	67.	127.	
YNAMIC LUNG VOLUMES								
T (ML)	10	3388.7	338.8	73.20	1196078.	254.	453.	
T.5/FVC (%)	10	865.7	86.5	8.13	75417.	69.	97.	
T.1/FVC (%)	10	974.7	97.4	1.96	94902.	94.	100.	
FR (ML/S)	10	9596.7	959.6	138.77	9381624.	748.	1160.	
F 50% (ML/S)	10	9055.7	905.5	138.49	8371925.	717.	1086.	
F 25% (ML/S)	10	6555.7	655.5	234.95	4793595.	403.	989.	
F 10% (ML/S)	10	2689.7	268.9	134.94	886955.	113.	490.	
F 50%/FVC (FVC/SEC)	10	27.65	2.765	.6149	79.8548	1.59	3.55	
F 25%/FVC (FVC/SEC)	10	20.30	2.030	.9047	48.5749	.90	3.89	
F 10%/FVC (FVC/SEC)	10	8.37	.837	.5103	9.3495	.36	1.93	
F.40%TLC (ML/S)	10	8081.7	808.1	195.71	6874967.	530.	1107.	
F.40%TLC/TLC (TLC/SEC)	10	23.42	2.342	.7690	60.1721	1.10	3.70	
UNG VOLUMES								
(ML)	10	2103.7	210.3	57.86	472395.	92.	300.	
C (ML)	10	1645.7	164.5	60.27	303297.	51.	244.	
V (ML)	10	1285.7	128.5	52.21	189655.	31.	207.	
(ML)	10	360.7	36.0	11.56	14162.	20.	54.	
C (ML)	10	3601.7	360.1	75.18	1347583.	276.	484.	
/TLC (%)	10	98.7	9.87	2.041	1011.65	7.1	13.2	
IFFUSION								
.CD (ML STPD/MIN/MM HG)	10	11.17	1.117	.2540	13.0575	.72	1.43	
.CO/VA (1/MIN/MM HG)	10	.03449	.00345	.00076	.00012419	.00222	.00460	
LOSING VOLUME & N2 WASHOUT								
LOSING VOLUME (ML)	9	193.7	21.4	11.57	5209.	1.	36.	
/FVC (%)	9	57.7	6.41	3.940	494.09	.3	11.5	
RV+RV)/TLC (%)	10	153.7	15.37	4.636	2555.77	7.2	23.6	
ADS (ML)	10	70.7	7.0	1.56	512.	5.	10.	
2/100ML	9	6.0	.67	.412	5.36	.1	1.5	
ISOFLOW								
ISOFLOW (ML)	9	179.7	19.9	14.30	5195.	7.	51.	
ISOFLOW/FVC (%)	9	50.7	5.6	3.36	368.	2.	11.	

Average weight = 4190

NIOSH EXPERIMENTAL TOXICOLOGY BRANCH
CARDIOPULMONARY FUNCTION LABORATORY
GROUP SUMMARY REPORT

QUP 4

BEFORE

PVC D 227000

	N	SUM	MEAN	S. D.	SUM SQRS	L	-RANGE-	H
MECHANICS								
RL AT L. F. (CMH2O/L/S)	9	146.55	16.283	5.1206	2596.0864	9.98	24.49	
RL AT H. F. (CMH2O/L/S)	9	143.45	15.939	2.7205	2345.6428	12.94	20.67	
RL AT L. F. / RL AT H. F.	9	988.7	100.9	19.99	94804.	69.	128.	
CL AT L. F. (ML/CMH2O)	9	254.27	28.252	18.4393	9903.7578	6.49	54.28	
CL AT H. F. (ML/CMH2O)	9	167.70	18.633	9.8991	3908.7446	5.42	35.36	
CL AT H. F. / CL AT L. F.	9	679.	75.4	22.84	55399.	38.	113.	
DYNAMIC LUNG VOLUMES								
FVC (ML)	9	3390.	376.7	83.06	1332094.	282.	511.	
FEV. 5/FVC (%)	9	758.	84.2	8.79	64458.	68.	98.	
FEV1/FVC (%)	9	874.	97.1	2.37	84920.	93.	100.	
PEFR (ML/S)	9	8524.	947.1	164.07	8288518.	719.	1155.	
FEF 50% (ML/S)	9	8154.	906.0	167.25	7611306.	639.	1092.	
FEF 25% (ML/S)	9	6673.	741.4	271.32	5536557.	380.	1119.	
FEF 10% (ML/S)	9	2966.	329.6	233.95	1415308.	82.	769.	
FEF 50%/FVC (FVC/SEC)	9	22.49	2.499	.6941	60.0542	1.63	3.63	
FEF 25%/FVC (FVC/SEC)	9	18.43	2.048	.9642	45.1776	1.27	3.97	
FEF 10%/FVC (FVC/SEC)	9	8.08	1.898	.6881	11.0420	.28	2.38	
FEF 40% TLC (ML/S)	9	8065.	896.1	199.89	7546781.	562.	1151.	
40% TLC / TLC (TLC/SEC)	9	20.00	2.222	1.1627	55.2599	.02	3.79	
LUNG VOLUMES								
IC (ML)	9	1856.	206.2	48.29	401400.	148.	292.	
FRC (ML)	8	1741.	217.6	73.43	416633.	136.	333.	
ERV (ML)	9	1524.	169.3	48.87	277172.	111.	236.	
RV (ML)	8	346.	43.2	26.56	19904.	17.	97.	
TLC (ML)	8	3069.	383.6	85.47	1228481.	292.	511.	
RV/TLC (%)	8	85.5	10.69	4.662	1065.89	5.3	20.9	
DIFFUSION								
DLCO (ML STPD/MIN/MM HG)	9	12.30	1.367	.3103	17.5804	.88	1.83	
DLCO/VA (1/MIN/MM HG)	9	.04137	.00460	.00110	.00019988	.00304	.00623	
CLOSING VOLUME & N2 WASHOUT								
CLOSING VOLUME (ML)	9	344.	38.2	13.37	14578.	18.	62.	
CV/Vc (%)	9	91.0	10.11	2.525	971.54	6.4	13.6	
(CV+RV)/TLC (%)	8	163.5	20.44	6.153	3606.55	14.7	34.2	
/ADS (ML)	9	63.	7.0	1.32	455.	5.	9.	
N2/100ML	9	9.1	1.01	.736	13.53	.2	2.6	
ISOFLOW								
/ ISOFLOW (ML)	9	421.	46.8	19.78	22825.	21.	83.	
/ ISOFLOW/FVC (%)	9	116.	12.9	6.86	1872.	6.	28.	

Average weight - 5478

R&S 112921