GROUP 1

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.081	2.245

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.448	-0.856

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	0.593	3.249

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.498	-0.483

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.162	2.746

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.507	-0.436

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.1885	3.735

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.16	1.049

GROUP 2

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.547	6.319

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.703	1.957

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	1.184	3.723

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.138	1.68

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.938	6.391

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.297	1.93

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.801	7.205

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.745	2.25

GROUP 3

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	1.095	2.769

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.623	0.743

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	0.689	1.728

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.536	0.804

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)

Average	0.544	2.25

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.376	1.326

Breathing After Lying Down

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.602	2.22

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.528	1.054

GROUP 4

Normal Breathing Parameters

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.0045	5.2

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.025	0.016

Breathing After Exercise

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.011	2.13

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.031	0.014

Breathing After Standing

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.007	3.133

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.03	0.013

Breathing After Lying Down

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.009	3.719

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.024	0.008

GROUP 5

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.1305	1.435

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.13	2.565

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	0.383	1.129

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.225	2.016

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.33	1.607

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.354	2.863

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.159	1.174

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.218	2.843

GROUP 6

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	**1.375**	**5.3**

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	**0.833**	**2.119**

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	**1.513**	**2.268**

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	**1.821**	**1.621**

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	**0.886**	**4.7**

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	**1.109**	**2.319**

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	**1.153**	**5.22**

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	**1.068**	**2.909**

GROUP 7

Normal Breathing Parameters

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.093	3.515

Maximum Breathing

	Tidal Volume (L)	**Inspiratory Reserve Volume**
Maximum Breathing Cycle	0.258	0.016

Breathing After Exercise

	Tidal Volume (L)	**Period(secs/breath)**
Average	0.24	0.212

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.356	0.143

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.135	2.29

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.189	0.091

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.77	3.13

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.288	0.168

GROUP 8

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.6708	3.4755

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.67	1.89

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	1.51	1.09

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.55	1.27

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.84	2.01

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.9	2.05

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.79	2.75

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.72	1.106

GROUP 9

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.828	3.055

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.771	0.921

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	0.949	2.25

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	2.433	0.563

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.92	1.696

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.767	0.893

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	1.02	5.42

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	1.0146	0.72

GROUP 10

Normal Breathing Parameters

	Tidal Volume (L)	Period(secs/breath)
Average	0.1305	1.435

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.13	2.565

Breathing After Exercise

	Tidal Volume (L)	Period(secs/breath)
Average	0.383	1.129

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.225	2.016

Breathing After Standing

	Tidal Volume (L)	Period(secs/breath)
Average	0.33	1.607

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.354	2.863

Breathing After Lying Down

	Tidal Volume (L)	Period(secs/breath)
Average	0.159	1.174

Maximum Breathing

	Tidal Volume (L)	Inspiratory Reserve Volume
Maximum Breathing Cycle	0.218	2.843

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.1065	-0.002	26.73

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.061	-1.385	1.047

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.675	-0.017	18.63

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.447	-1.937	1.538

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.222	-0.006	22.093

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.278	-1.777	1.494

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.22325	-0.00375	16.06425703

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.991	-3.152	1.187

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.707	-0.405	9.495

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-3.651	-6.393	0.701

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.146	-1.042	16.116

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-3.336	-5.853	3.063

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.499	0.669	9.388

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.816	-4.754	3.58

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.341	-0.425	8.328

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.7	-4.947	3.853

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.077	-0.02	21.768

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.198	-2.807	1.119

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.153	-0.017	34.941

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.836	-3.177	1.271

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)

0.766	-0.005	26.6

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-1.457	-3.16	1.207

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.839	-0.001	27.03

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.951	-2.535	1.305

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.00575	-0.00575	11.55

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.37	-0.018	0.06

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.024	-0.02	28.17

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.008	-0.02	0.07

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.036	-0.01	19.15

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.009	-0.018	0.056

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.015	0.0105	16.13

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
-0.007	-0.014	0.051

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.132	0.0075	41.81

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.334	4.955	1.083

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.478	0.002	53.14

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.197	4.41	0.062

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.294	0.005	37.34

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.112	2.997	0.031

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.195	0.002	51.1

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.65	3.617	0

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.33	**-0.99**	**11.3**

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
3.098	**5.9**	**1.985**

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
2.039	**-2.0145**	**26.5**

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.103	**5.554**	**6.652**

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.72	**-0.538**	**12.77**

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.403	**5.837**	**3.086**

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.672	**-0.722**	**11.49**

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.219	**6.195**	**2.817**

Maximum Inspiratory Flow	**Maximum Expiratory Flow**	**Breath Rate (breaths/min)**
0.323	0.396	17.28

Expiratory Reserve Volume	**Forced Vital Capacity**	**Forced Inspiratory Flow Rate**
0.081	0.174	0.783

Maximum Inspiratory Flow	**Maximum Expiratory Flow**	**Breath Rate (breaths/min)**
1.026	0.112	28.38

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.097	0.258	1.637

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.663	0.661	26.46

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.046	0.145	0.576

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.392	0.345	19.28

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.026	0.198	1.02

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
-0.95	0.66	17.3

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.76	4.7	0.95

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.94	0.17	55.05

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.6	4.89	1.07

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.59	0.04	29.85

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.7	0.465	1.45

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.042	0.03	21.85

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
1.25	4.7	1.25

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.149	0.1247	21.05

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
1.166	3.38	1.765

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
3.964	6.1987	27

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.848	2.438	4.352

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.606	1.952	12.8

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
1.413	3.308	1.701

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
1.475	1.24	11.11

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.953	2.726	1.906

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.132	0.0075	41.81

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.334	4.955	1.083

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.478	0.002	53.14

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
2.197	4.41	0.062

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.294	0.005	37.34

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.112	2.997	0.031

Maximum Inspiratory Flow	Maximum Expiratory Flow	Breath Rate (breaths/min)
0.195	0.002	51.1

Expiratory Reserve Volume	Forced Vital Capacity	Forced Inspiratory Flow Rate
0.65	3.617	0

Forced Expiratory Flow Rate	FEV1	FEV3
-0.811	-0.547	-1.349

Forced Expiratory Flow Rate	FEV1	FEV3
-1.833	-1.272	-1.947

Forced Expiratory Flow Rate	FEV1	FEV3
-1.534	-1.012	-1.669

Forced Expiratory Flow Rate	FEV1	FEV3
-2.241	-1.592	-3.148

Forced Expiratory Flow Rate	FEV1	FEV3
-4.319	-0.051	-0.126

Forced Expiratory Flow Rate	FEV1	FEV3
-7.444	-4.051	-5.783

Forced Expiratory Flow Rate	FEV1	FEV3
-6.646	-4.026	-4.71

Forced Expiratory Flow Rate	FEV1	FEV3
-6.678	-4.18	-4.884

Forced Expiratory Flow Rate	FEV1	FEV3
-1.268	-0.826	-2.252

Forced Expiratory Flow Rate	FEV1	FEV3
-1.377	-0.573	-2.416

Forced Expiratory Flow Rate	FEV1	FEV3
-1.281	-0.899	-2.86

Forced Expiratory Flow Rate	FEV1	FEV3
-1.17	-0.351	-2.26

Forced Expiratory Flow Rate	FEV1	FEV3
-0.037	-0.017	-0.022

Forced Expiratory Flow Rate	FEV1	FEV3
0.028	-0.025	0.02

Forced Expiratory Flow Rate	FEV1	FEV3
-0.042	-0.019	-0.015

Forced Expiratory Flow Rate	FEV1	FEV3
-0.037	-0.013	-0.013

Forced Expiratory Flow Rate	FEV1	FEV3
2.042	1.351	4.564

Forced Expiratory Flow Rate	FEV1	FEV3
2.213	1.593	3.851

Forced Expiratory Flow Rate	FEV1	FEV3
1.075	0.725	2.453

Forced Expiratory Flow Rate	FEV1	FEV3
1.366	1.034	2.703

Forced Expiratory Flow Rate	FEV1	FEV3
-2.71	**-0.81**	**-5.29**

Forced Expiratory Flow Rate	FEV1	FEV3
-8.446	**4.933**	**5.237**

Forced Expiratory Flow Rate	FEV1	FEV3
-5.51	**3.92**	**5.837**

Forced Expiratory Flow Rate	FEV1	FEV3
-5.342	**3.727**	**6.222**

Forced Expiratory Flow Rate	**FEV1**	**FEV3**
0.1448	0.153	0.175

Forced Expiratory Flow Rate	FEV1	FEV3
1.554	0.2	0.258

Forced Expiratory Flow Rate	FEV1	FEV3
0.75	0.104	0.142

Forced Expiratory Flow Rate	FEV1	FEV3
1.255	0.186	0.199

Forced Expiratory Flow Rate	FEV1	FEV3
1.18	0.037	2.52

Forced Expiratory Flow Rate	FEV1	FEV3
1.36	0.67	0.1

Forced Expiratory Flow Rate	FEV1	FEV3
1.12	0.22	1.26

Forced Expiratory Flow Rate	FEV1	FEV3
0.05	0.16	1.27

Forced Expiratory Flow Rate	FEV1	FEV3
3.461	0.5544	3.055

Forced Expiratory Flow Rate	FEV1	FEV3
2.118	0.5415	2.264

Forced Expiratory Flow Rate	FEV1	FEV3
3.015	0.605	2.77

Forced Expiratory Flow Rate	FEV1	FEV3
2.036	0.309	1.888

Forced Expiratory Flow Rate	FEV1	FEV3
2.042	1.351	4.564

Forced Expiratory Flow Rate	FEV1	FEV3
2.213	1.593	3.851

Forced Expiratory Flow Rate	FEV1	FEV3
1.075	0.725	2.453

Forced Expiratory Flow Rate	FEV1	FEV3
1.366	1.034	2.703