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ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย



APPENDICES

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

Appendix A. Physiological characteristics and administered theophylline dose of volunteer subjects

subject number	sex	age (yr)	height (cm.)	weight (kg.)	dose (mg.)
1	M*	30	175.0	58.0	300
2	M*	30	171.0	61.0	300
3	M*	40	170.0	62.0	350
4	M*	32	165.0	60.0	300
5	M*	31	156.0	50.0	250
6	M*	29	162.0	54.0	300
7	M*	34	159.0	50.0	250
8	M	22	165.0	54.0	300
9	M	22	167.0	57.0	300
10	M	20	180.0	68.0	350
11	M	40	167.0	69.0	350
12	M	36	167.0	50.0	250
13	M	26	178.0	58.0	300
14	M	25	174.0	60.0	300
15	M	26	170.0	60.0	300
16	M	26	170.0	60.0	300
17	M	26	168.0	59.0	300
18	M	28	171.0	61.0	300
\bar{X} (S.D)	-	29 (6)	168.6(6.1)	58.4(5.4)	-

Appendix A. (continue)

subject number	sex	age (yr)	height (cm.)	weight (kg.)	dose (mg.)
19	F	23	164.0	61.0	300
20	F	23	160.0	45.0	250
21	F	27	159.0	54.0	300
22	F	21	162.0	51.0	300
23	F	40	158.0	52.0	300
24	F	24	157.0	48.0	250
25	F	24	160.0	45.0	250
26	F	24	158.0	46.0	250
27	F	34	164.0	58.0	300
28	F	35	163.0	65.0	350
29	F	22	158.0	50.0	250
30	F	25	165.0	67.0	350
31	F	29	160.0	54.0	300
32	F	23	157.0	44.0	250
33	F	28	160.0	57.0	300
34	F	35	152.0	40.0	200
35	F	37	155.0	43.0	250
36	F	30	171.0	61.0	300
\bar{X} (S.D)	-	28 (6)	160.2(4.3)	52.3(7.9)	-

M* = smoking male , M = non-smoking male , F = female

**Appendix B. Individual data of theophylline concentration in plasma of
36 volunteers**

subject number	sampling time (hour)								
	0	0.5	1.0	1.5	2.0	4.0	6.0	8.0	12.0
1	0	4.882	6.106	7.165	8.046	7.531	6.411	5.842	4.190
2	0	8.099	7.486	8.394	8.247	6.000	4.690	4.429	2.530
3	0	6.418	9.158	7.079	8.862	6.190	5.528	4.737	2.722
4	0	1.297	4.385	6.179	7.120	9.724	7.919	7.444	4.478
5	0	1.606	5.282	7.934	7.080	8.973	6.061	4.670	2.926
6	0	11.20	14.91	14.73	13.73	9.884	6.837	4.516	5.565
7	0	11.16	10.76	10.20	10.05	8.848	8.579	7.602	5.507
8	0	6.982	10.17	11.74	11.72	9.724	8.802	8.002	5.776
9	0	9.001	10.34	10.02	10.11	7.699	6.854	6.061	4.052
10	0	8.758	10.14	10.65	9.896	8.537	7.871	7.222	5.934
11	0	7.222	8.065	9.710	10.55	9.038	8.014	6.824	5.002
12	0	6.035	7.681	8.524	7.979	7.286	6.251	5.796	4.550
13	0	10.19	10.50	10.98	10.34	8.877	8.050	6.732	4.794
14	0	6.098	9.944	9.169	10.89	8.971	7.879	6.864	5.039
15	0	2.160	4.944	7.687	8.868	9.998	9.579	8.018	5.142
16	0	7.615	9.788	9.330	8.881	7.958	5.600	5.040	4.180
17	0	1.457	5.306	6.987	10.85	7.781	6.359	4.866	3.643
18	0	3.693	7.036	7.636	9.436	8.867	7.436	6.351	4.580
19	0	3.192	5.393	7.783	8.781	10.60	9.894	9.510	6.666
20	0	9.155	12.14	10.52	11.09	9.872	9.049	8.266	4.751
21	0	2.054	5.199	9.357	9.740	9.892	8.921	7.524	5.601
22	0	10.45	16.51	18.39	17.21	14.96	12.79	11.20	7.396
23	0	10.03	10.70	11.74	11.61	11.94	10.15	7.999	6.229
24	0	1.659	7.749	11.84	11.09	10.38	9.901	8.550	6.915
25	0	10.73	11.75	11.78	11.81	10.87	9.630	8.249	6.115
26	0	4.095	9.018	11.96	11.31	10.47	9.613	8.344	7.525
27	0	10.17	11.56	12.14	11.69	10.75	8.828	6.976	5.456
28	0	5.108	9.599	10.87	13.16	9.594	8.577	7.522	4.526
29	0	6.196	9.352	10.71	11.03	10.41	8.611	7.211	5.359
30	0	5.331	12.11	13.01	13.11	11.47	9.661	8.777	6.300
31	0	16.43	14.42	13.35	13.09	9.617	8.078	6.540	4.314
32	0	6.675	10.45	11.59	12.64	11.76	11.44	8.899	5.851
33	0	8.935	11.92	11.89	12.13	10.98	9.566	8.601	6.922
34	0	6.048	9.513	13.88	12.39	9.198	9.760	8.260	5.840
35	0	10.51	10.27	9.508	10.18	7.585	6.370	5.431	2.470
36	0	6.958	9.296	9.434	10.67	11.01	9.547	7.803	5.905

**Appendix C. Individual data of theophylline concentration in saliva of
36 volunteers**

subject number	sampling time (hour)								
	0	0.5	1.0	1.5	2.0	4.0	6.0	8.0	12.0
1	0.6178	3.409	4.232	4.432	4.541	5.186	3.702	3.188	2.545
2	0.4844	6.284	6.549	5.682	4.005	3.588	2.943	1.643	0.9995
3	0	5.052	2.548	4.801	3.424	4.982	3.154	1.996	2.074
4	1.505	2.050	5.628	3.276	4.161	7.918	5.803	4.094	2.970
5	0.3496	0.361	2.939	4.452	2.504	4.655	3.120	3.374	1.535
6	5.033	4.235	5.843	6.426	3.390	4.860	2.097	1.751	2.832
7	2.050	4.705	4.826	5.079	4.458	4.999	2.902	5.217	2.010
8	0.4830	5.293	6.421	7.441	5.703	5.259	4.985	4.119	2.990
9	0	6.133	3.329	4.649	6.010	3.931	5.598	4.045	3.146
10	1.213	5.419	5.973	6.547	5.299	4.122	3.058	4.192	3.480
11	0.3193	4.411	5.231	5.820	6.323	5.170	4.142	4.110	2.978
12	0	4.709	5.360	5.690	5.812	6.452	5.218	3.610	3.333
13	1.062	6.026	4.871	3.166	4.318	3.330	4.844	2.045	2.741
14	0	3.806	5.494	5.028	5.550	4.722	3.865	2.938	2.501
15	0.2854	1.694	4.604	5.807	5.473	4.909	4.390	3.232	3.667
16	0.7170	5.990	5.914	5.130	5.178	4.652	3.166	2.632	2.003
17	0.1792	1.196	3.604	3.932	6.068	4.723	3.642	3.091	1.822
18	0	3.629	4.206	5.205	5.448	4.279	3.696	3.621	2.382
19	0.4415	2.828	5.318	6.941	6.430	6.300	6.912	5.576	3.456
20	0.8614	6.218	5.872	5.607	5.238	4.825	4.465	4.860	3.316
21	0.2479	1.902	3.410	5.034	6.451	6.357	4.602	4.781	3.136
22	2.170	6.042	6.960	5.230	7.851	6.496	6.293	4.995	3.295
23	1.499	5.228	5.174	5.860	5.452	4.574	3.524	3.967	2.776
24	0.2169	1.510	7.873	6.706	7.591	8.606	6.817	4.890	3.245
25	1.674	9.150	7.469	7.620	7.739	6.417	5.436	4.717	3.604
26	1.097	5.265	7.322	7.659	10.54	7.480	6.651	5.357	3.494
27	0.7828	6.946	6.582	7.086	6.316	5.463	5.571	4.030	3.162
28	0.4014	4.296	6.855	6.087	7.132	6.829	2.838	4.648	2.893
29	5.923	4.203	4.122	4.922	1.194	5.078	4.776	3.561	2.855
30	1.339	2.803	8.586	5.328	7.806	4.141	4.678	5.902	3.886
31	0.1935	9.050	8.918	7.500	7.845	6.948	5.033	4.380	2.746
32	0.5809	5.131	6.970	6.669	6.294	5.870	4.256	4.339	2.779
33	0.8993	7.524	9.174	6.667	3.839	5.585	4.955	4.168	2.508
34	0.4975	4.902	7.263	11.04	6.674	7.526	5.182	4.337	2.675
35	1.248	6.516	4.043	6.675	3.747	3.398	3.032	3.569	2.116
36	2.702	4.646	5.633	6.174	5.299	5.986	5.312	3.662	3.279

Appendix D. Individual data of saliva-plasma theophylline concentration ratio of 36 volunteers

subject number	sampling time (hour)								
	0	0.5	1.0	1.5	2.0	4.0	6.0	8.0	12.0
1	0	0.70	0.69	0.62	0.56	0.69	0.58	0.54	0.61
2	0	0.78	0.87	0.68	0.48	0.60	0.63	0.37	0.40
3	0	0.79	0.28	0.68	0.39	0.80	0.57	0.42	0.76
4	0	1.60	1.30	0.53	0.58	0.81	0.73	0.55	0.66
5	0	0.22	0.56	0.56	0.35	0.52	0.51	0.72	0.52
6	0	0.38	0.39	0.44	0.25	0.49	0.31	0.39	0.51
7	0	0.42	0.45	0.50	0.44	0.56	0.34	0.69	0.36
8	0	0.76	0.63	0.63	0.49	0.54	0.57	0.51	0.52
9	0	0.68	0.32	0.46	0.59	0.51	0.82	0.67	0.78
10	0	0.62	0.59	0.61	0.54	0.48	0.39	0.58	0.59
11	0	0.61	0.65	0.60	0.60	0.57	0.52	0.60	0.60
12	0	0.78	0.70	0.67	0.73	0.88	0.83	0.62	0.73
13	0	0.59	0.46	0.29	0.42	0.38	0.60	0.30	0.57
14	0	0.62	0.55	0.55	0.51	0.53	0.49	0.43	0.50
15	0	0.78	0.93	0.76	0.62	0.49	0.46	0.40	0.71
16	0	0.79	0.60	0.55	0.58	0.58	0.56	0.52	0.48
17	0	0.82	0.68	0.56	0.56	0.61	0.57	0.64	0.50
18	0	0.98	0.60	0.68	0.58	0.48	0.50	0.57	0.52
19	0	0.89	0.99	0.89	0.73	0.59	0.70	0.59	0.52
20	0	0.68	0.48	0.53	0.47	0.49	0.49	0.59	0.70
21	0	0.93	0.66	0.54	0.66	0.64	0.52	0.64	0.56
22	0	0.58	0.42	0.28	0.46	0.43	0.49	0.45	0.44
23	0	0.52	0.48	0.50	0.50	0.38	0.35	0.50	0.44
24	0	0.91	1.00	0.57	0.68	0.83	0.69	0.57	0.47
25	0	0.85	0.64	0.65	0.66	0.59	0.56	0.57	0.59
26	0	1.30	0.81	0.64	0.93	0.71	0.69	0.64	0.46
27	0	0.68	0.57	0.58	0.54	0.51	0.63	0.58	0.58
28	0	0.84	0.71	0.56	0.54	0.71	0.33	0.62	0.64
29	0	0.68	0.44	0.46	0.11	0.49	0.55	0.49	0.53
30	0	0.52	0.71	0.41	0.60	0.36	0.48	0.67	0.62
31	0	0.55	0.62	0.56	0.60	0.72	0.62	0.67	0.64
32	0	0.77	0.67	0.58	0.50	0.50	0.37	0.49	0.48
33	0	0.84	0.77	0.56	0.32	0.51	0.52	0.48	0.36
34	0	0.81	0.76	0.80	0.54	0.82	0.53	0.52	0.46
35	0	0.62	0.39	0.70	0.37	0.45	0.48	0.66	0.86
36	0	0.67	0.61	0.65	0.50	0.54	0.56	0.47	0.56
\bar{X}	0	0.70	0.61	0.59	0.54	0.58	0.54	0.54	0.56
S.D.	0	0.16	0.16	0.12	0.13	0.13	0.12	0.10	0.12

VITA

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